1	Toll signaling enhances mosquito antiplasmodial immunity by promoting differentiation of
2	hemocytes to the Megacyte lineage
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15 Abstract

16 Activation of Toll signaling in Anopheles gambiae, by silencing Cactus, eliminates Plasmodium 17 ookinetes by enhancing local release of hemocytes-derived microvesicles that promote activation 18 of the mosquito complement-like system. A new effector hemocyte subpopulation of large 19 granulocytes, the megacytes, was recently identified. We report that Cactus silencing dramatically 20 increases the proportion of megacytes, from 5 to 79% of circulating granulocytes. Transcriptomic 21 and morphological analysis, as well as in situ hybridization and expression of cell-specific 22 markers, indicate that Cactus silencing triggers granulocyte differentiation into megacytes. 23 Megacytes are very plastic cells that can extend long filopodia and tend to form clusters in vivo. 24 Moreover, megacytes are massively recruited to the basal midgut surface in response to bacterial 25 feeding and *Plasmodium* infection. We propose that Toll signaling promotes differentiation of 26 granulocytes to the megacyte lineage, a major cellular effector of antibacterial and antiplasmodial 27 immunity.

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29 Introduction

30 Ookinete traversal of the Anopheles gambiae midgut disrupts the peritrophic matrix, a 31 chitinous network that surrounds the blood meal, and that normally prevents bacteria of the gut 32 microbiota from coming in direct contact with epithelial cells (Kumar et al., 2010). Contact of 33 midgut epithelial cells with bacteria, or their immune elicitors, triggers the release of prostaglandin 34 E2 (PGE2), which attracts hemocytes to the basal surface of the midgut (Barletta et al., 2019). 35 Plasmodium ookinete midgut traversal also causes irreversible damage to invaded cells and 36 triggers a strong caspase-mediated nitration response (Han et al., 2000, Oliveira Gde et al., 2012, 37 Trisnadi and Barillas-Mury, 2020). Hemocytes patrolling the midgut undergo apoptosis and release hemocyte-derived microvesicles (HdMv) if they come into contact with an area of the midgut basal lamina that has been nitrated (Castillo et al., 2017). HdMv release promotes local activation of the mosquito complement-like system (Castillo et al., 2017), a major final effector of antiplasmodial immunity that binds to the parasite's surface and forms a complex that ultimately lyses the ookinete (Blandin et al., 2004).

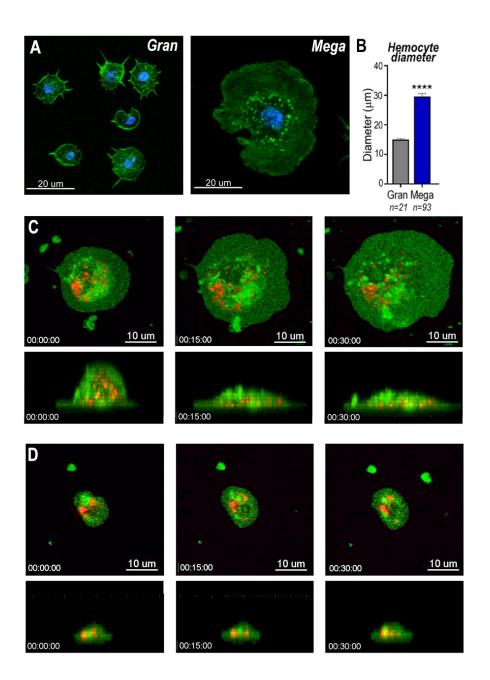
43 Overactivation of *Toll* signaling in *A. gambiae* mosquitoes by silencing *Cactus*, an inhibitor 44 of this pathway (Frolet et al., 2006), elicits a very strong complement-mediated immune response 45 that eliminates *Plasmodium berghei* ookinetes (Frolet et al., 2006). Hemocytes mediate this 46 enhanced immune response, as transfer of *Cactus*-silenced hemocytes into naïve mosquitoes 47 recapitulates the phenotype of systemic Cactus silencing (Ramirez et al., 2014). Furthermore, 48 cactus silencing increases HdMv release in response to ookinete midgut invasion (Castillo et al., 49 2017), indicating that hemocytes are more reactive to *Plasmodium* infection. However, the 50 mechanism by which activation of the *Toll* pathway enhances hemocyte responses to *Plasmodium* 51 is not clear.

52 Hemocytes are classified into three cell types, prohemocytes, oenocytoids and 53 granulocytes, based on their morphology. However, single cell RNA sequencing (sc-RNAseq) 54 analysis of An. gambiae hemocytes identified several novel subpopulations of granulocytes based 55 on their transcriptional profiles, and defined molecular markers specific for hemocyte 56 subpopulations (Raddi et al., 2020). Furthermore, Lineage analysis revealed that regular 57 granulocytes derive from prohemocytes and can further differentiate into distinct cell types, 58 including dividing granulocytes, and two final effector cells, megacytes and antimicrobial (AM) 59 granulocytes (Raddi et al., 2020). Here explore the role of Toll signaling on mosquito hemocyte 60 differentiation and their response to infection with bacteria and *Plasmodium* parasites.

61 **Results**

62 Cell dynamics of mosquito granulocytes

63 Megacytes are present in low abundance (\sim 1-2% of hemocytes) in sugar fed females. They 64 are large cells, five times larger than regular granulocytes, and express a specific transmembrane 65 protein marker (TM7318) (Raddi et al., 2020). Regular granulocytes (Fig. 1A) reach an average 66 diameter of 14.2 µm (Fig. 1B) when they spread over a glass surface, while the average diameter 67 of megacytes is 28.6 µm (p<0.0001, Unpaired T-test) (Fig. 1A and 1B). Granulocyte cellular 68 dynamics were evaluated by live imaging of perfused hemocytes in vitro as they adhered and 69 spread on a glass surface. Hemocytes were labeled *in vivo*, through systemic injection of adult 70 females with a red lipophilic dve (Vvbrant CM-DiI) that accumulates on intracellular vesicles. A 71 green, fluorescent probe (Cell Mask) was added after perfusion to label the plasma membrane. 72 Both regular granulocytes and megacytes attached to the glass surface and spread fully within one 73 hour (Videos S1-S4). Megacytes already have a larger cell diameter when they first attach to glass 74 (Fig. 1C, upper panel and Video S3), and exhibit a peripheral "halo", corresponding to an area of 75 extended thin cytoplasm cell, almost devoid of vesicles (Fig. 1C, upper panel and Video S3). 76 Lateral views revealed that, initially, megacytes have a large nucleus and a voluminous cytoplasm 77 in the central region of the cell that flattens dramatically as the cell "spreads" over the glass surface 78 (Fig. 1C, lower panel and Video S4). In contrast, the central region of regular granulocytes remains 79 unchanged in (Fig. 1D, lower panel and Video S2) and the periphery of the cell exhibits a modest 80 increase in diameter as the cell spreads along the surface (Fig. 1D, upper panel and Video S1).



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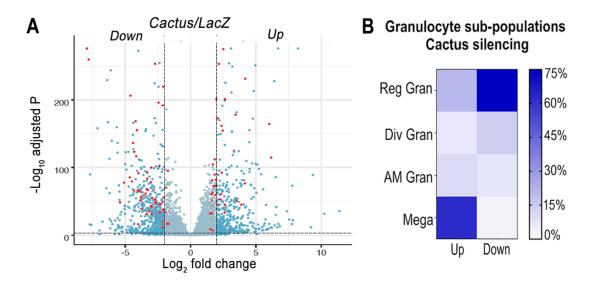
Fig.1: Megacyte and granulocyte cell dynamics. (A) Regular granulocytes and megacytes from 82 83 An. gambiae females spread on a glass surface. Actin, green (phalloidin) and nuclei, blue 84 (Hoechst). Scale bar: 20um. (B) Granulocyte diameter of sugar-fed mosquitoes after spreading on a glass surface. Error bars represent mean± SEM. Unpaired t-test. ****P≤0.0001. (C) Live imaging 85 86 time-lapse of a megacyte spreading in a glass surface for 30 minutes. Plasma membrane stained in 87 green and microvesicles in red. Top (XY) and lateral view (XZ) of a megacyte. Scale Bars: 10um 88 and 5um, respectively. (D) Live imaging time-lapse of a megacyte spreading on a glass surface for 89 30 minutes. Top (XY) and lateral view (XZ) of a regular granulocyte. Scale Bars: 10um and 5um, 90 respectively.

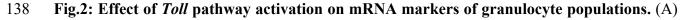
91 Effect of *Toll* signaling activation on mRNA markers of granulocyte populations.

92 The effect of *Toll* signaling on hemocyte differentiation was explored by silencing Cactus, 93 an inhibitor of the Toll pathway. Hemocytes that adhered to glass (mostly granulocytes) or that 94 remain in suspension (mostly prohemocytes and oenocytoids) were collected 4 days post-injection 95 from *dsLacZ* control and *dsCactus*-injected females. Bulk sequencing of cDNA libraries generated 96 between 16.2 and 25.3 million fragments that mapped to the Anopheles gambiae AgamP4.9 97 transcriptome. Only transcripts with 10 or more reads were included in the analysis, resulting in a 98 total of 9,421 unique transcripts (Accession E-MTAB-11252). Glass-bound and unbound 99 hemocyte samples were analyzed together, because the differences in expression between dsLacZ 100 vs dsCactus-silenced hemocytes explained 81% of the variance between the four experimental 101 groups (Fig. S1A and S1B). Differential expression (DE) analysis of *Cactus*-silenced hemocytes 102 using the DESeq2 software, identified 1071 differentially expressed genes (Q-value < 0.001), of 103 which 407 were upregulated (log2 fold change >2), while 664 were downregulated (log2 fold 104 change < -2) (Fig 2A).

105 The effect of Cactus silencing on expression of the transcripts that define the different 106 hemocyte clusters established by (sc-RNAseq) (Raddi et al., 2020) was analyzed (Tables S1 and 107 S2), to establish whether there was a significant effect on the relative abundance of specific 108 hemocytes subpopulations. Overall, 23 oenocytoid markers, 2 from prohemocytes and 57 from 109 granulocytes were differentially expressed between dsLacZ and dsCactus hemocytes (Tables S1 110 and S2). Most differentially expressed oenocytoid markers 22/23 (95%) were down-regulated, 111 while one of the prohemocyte markers was up-regulated and the second one down-regulated (Fig. 112 2B). The number of down-regulated granulocyte markers 28/57 (49%) was very similar to that of 113 up-regulated ones 29/57 (51%). However, detailed analysis of granulocyte subpopulations

114	revealed that most up-regulated markers 18/29 (62%) correspond to megacytes, while most down-
115	regulated markers correspond to regular granulocytes 21/28 (75%). This suggests that dsCactus
116	silencing increases the proportion of circulating megacytes, at the expense of a reduction in regular
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Differential expression of Cactus dsRNA knockdown. From a total of 9421 filtered genes. Volcano plot of DE genes in Cactus silenced hemocytes compared to LacZ control filtered for log2 fold change > 2 and Q-value <0.001. Dark blue dots on the right represent upregulated DE genes and on the left the downregulated ones. Red dots show genes that are hemocytes specific markers. Complete list of up and down regulated genes is listed in Tables S1 and S2. (B) Percentage of granulocyte sub-population markers up and downregulated in Cactus silenced hemocytes. Complete list of up and down regulated genes for each hemocyte subpopulation is in Tables S1 and S2.

158 Cactus silencing promotes granulocyte differentiation into megacytes

159 Cactus silencing did not significantly increase the proportion of total circulating 160 granulocytes, based on hemocyte counts by light microscopy (Ramirez et al., 2014), suggesting 161 that the observed enhanced immune response could be due to functional changes in hemocytes. 162 The morphology of hemocytes perfused from Cactus-silenced females was analyzed using 163 fluorescent probes to stain the actin cytoskeleton and the nucleus. *Cactus* silencing dramatically 164 increased the proportion of large granulocytes (diameter > 40 μ m), presumably megacytes, from 165 5.3% to 79.2% (p<0.0001, X² test) (Fig. 3A and B), in agreement with the observed increase in 166 up-regulated megacyte-specific markers in the transcriptomic analysis of Cactus-silenced 167 hemocytes (Fig. 2B). Interestingly, megacytes from Cactus-silenced mosquitoes (Fig. 3A) and are 168 even larger (average diameter of 47 µm after spreading in a glass surface) than megacytes from 169 dsLacZ controls (average diameter of 30 µm) (Figure 3C and D). In situ RNA hybridization of 170 dsCactus granulocytes with a fluorescent probe for the megacyte-specific marker TM7318, 171 confirmed that the proportion of TM7318-positive granulocytes was much higher (80%) in Cactus-172 silenced females than in dsLacZ controls (4%) (p<0.0001, X² test) (Fig. 3E and F), providing direct 173 evidence that overactivation of *Toll* signaling triggers a dramatic increase in the proportion of 174 circulating megacytes. Expression analysis of the TM7318 marker in perfused hemocyte samples 175 confirmed that mRNA levels were 42-fold higher in dsCactus hemocytes than the dsLacZ control 176 group (p<0.001, T-test) (Fig. 3G), while a modest increase (2.8-fold) in FBN50 mRNA, a marker 177 of antimicrobial (AM) effector granulocytes, was observed (p<0.0001, T-test). Conversely, 178 expression of FBN11228, a marker of regular granulocytes, decreased by 30-fold in circulating 179 hemocytes of Cactus-silenced mosquitoes (Fig. 3G). The changes in the relative abundance of

mRNAs from cell-specific markers in dsCactus-hemocytes coincides with the observed changes
in hemocyte morphology and the *in situ* hybridization and transcriptomic data (Fig. 3G).

182 The relative increase in megacytes in *Cactus*-silenced *An. gambiae* females could be due 183 to enhanced megacyte proliferation or to increased differentiation of regular granulocytes into 184 megacytes. The effect of *Cactus*-silencing on granulocyte proliferation was evaluated by 185 quantitating the proportion of hemocytes that incorporated Bromodeoxyuridine /5-bromo-2'-186 deoxyuridine (BrdU), a thymidine analog. The proportion of BrdU+ hemocytes that adhered to 187 glass (mostly granulocytes) in *dsCactus* mosquitoes (51%, n=694 cells) is not significantly 188 different from *dsLacZ* controls (52%, n=410 cells) (Fig. S2A and B). BrdU fluorescence intensity 189 (RFU) is also not significantly different between *dsLacZ* and *dsCactus* hemocytes (Fig. S2C). 190 However, the ratio of BrdU fluorescence intensity to nuclear volume is significantly lower in 191 dsCactus hemocytes (Fig. S2D). This indicates that the increase in nuclear volume in megacytes 192 does not involve DNA replication. These observations, together with the increase in the proportion 193 of megacytes in *dsCactus* females, at the expense of other regular granulocytes (Fig. 2B and 3G), 194 indicate that activation of *Toll* signaling promotes differentiation of granulocytes towards the 195 megacyte lineage.

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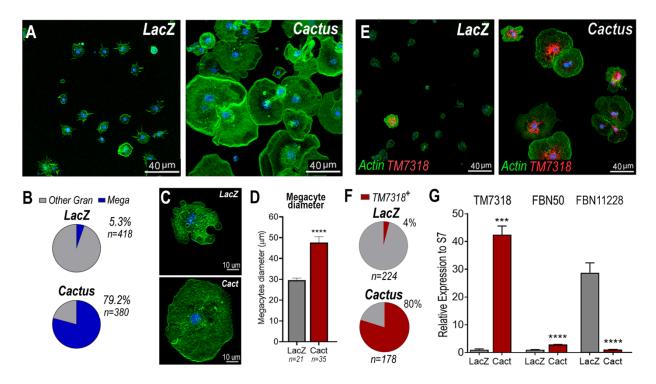
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204 Fig.3: Cactus silencing promotes granulocyte differentiation into megacytes. (A) An.gambiae 205 hemocytes in LacZ control and Cactus attached to a glass surface. Actin is showing in green and nuclei in blue. Scale Bar: 40um. (B) Percentage of megacytes among all granulocytes in dsLacZ 206 and dsCactus mosquitoes. Percentages were compared using X² test. ****P≤0.0001. (C) Megacyte 207 208 in control LacZ mosquitoes (upper) and in Cactus-silenced mosquitoes (lower). Actin is showing 209 in green, and nuclei is in blue. Scale Bar: 10um. (D) Diameter of megacytes from LacZ control and Cactus-silenced mosquitoes. Error bars represent mean± SEM. Unpaired t-test. ****P≤0.0001. 210 211 (E) RNA in situ hybridization for megacyte specific marker TM7318. Actin is showing in green 212 (phalloidin), TM7318 mRNA in red and the nuclei in blue (Hoechst). Scale bar: 40um. (F) 213 Percentage of TM7318 positive cells in LacZ and Cactus silenced granulocytes. Percentages were compared using X² test. ****P≤0.0001. (G) Relative mRNA expression of hemocyte specific 214 215 markers in LacZ control and Cactus hemocytes for transcriptome validation. Megacyte marker (TM7318), antimicrobial granulocytes (FBN50) and regular granulocytes (FBN11228). Gene 216 217 expression was normalized using RpS7 expression. Error bars represent mean ± SEM. Unpaired ttest, ****P<0.0001. 218 219

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225 Toll signaling-mediated megacyte differentiation is partially dependent on LL3

226 Single cell sequencing revealed high expression of the LPS-induced TNF α transcription 227 factor (LITAF)-like 3 (LL3) mRNA in megacytes, and LL3-silencing abrogated the ability of 228 hemocytes to respond to systemic injection of HDF-containing hemolymph (Raddi et al., 2020). 229 The potential interaction between of LL3 and Toll-mediated megacyte differentiation was explored 230 by co-silencing Cactus and LL3 by dsRNA injection. LL3 silencing alone had no significant effect 231 in the proportion of megacytes (Fig. S3). As expected, Cactus-silencing greatly increased the 232 proportion of megacytes from 1% in the dsLacZ control to 68% (p<0.0001, X² test); while co-233 silencing LL3 and Cactus resulted in an intermediate phenotype, with a partial, but significantly, 234 reduction in the proportion of megacytes from 68% to 34.3% (p<0.0001, X² test) (Fig. S3B). This 235 indicates that Toll-mediated differentiation of regular granulocytes into megacytes is partially 236 dependent on LL3, and suggests that there may be an alternative LL3-independent pathway that 237 remains to be identified.

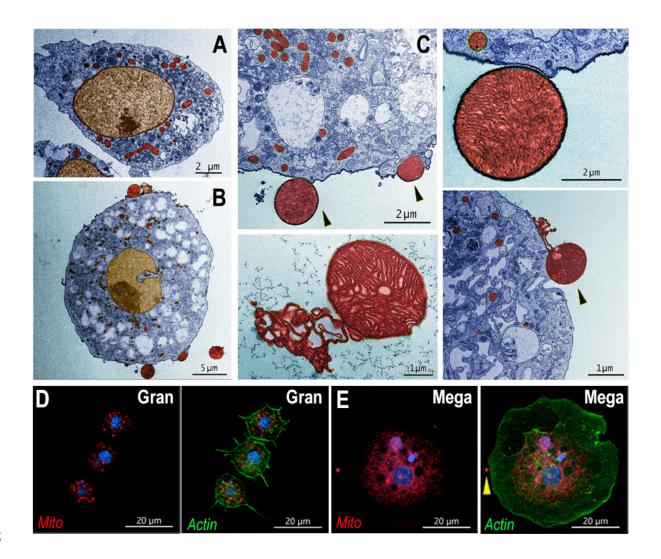
238 Characterization of megacyte *in vivo* dynamics and ultrastructure

239 The effect of Cactus silencing on granulocyte dynamics was evaluated in vivo, through live 240 imaging within adult female mosquitoes. Female mosquitoes were imaged for 2h, one day after 241 blood feeding on a healthy mouse. Hemocytes were visualized by systemic injection of Vybrant 242 CM-DiI, a fluorescent lipophilic dye that is preferentially taken up by granulocytes. Circulating 243 hemocytes in dsLacZ females (presumably normal granulocytes) have a smaller diameter than 244 those of dsCactus females (Videos S5 and S6) (Fig. 1A and B) and they seldom come in contact 245 with each other as they patrol the basal surface of the midgut (Video S5). Hemocytes from 246 dsCactus females (presumably megacytes) are larger and have a spindle shape (Fig.1A and B,

247 Videos S3 and S4). They appear to have higher plasticity, as they can readily stretch their 248 cytoplasm and they often come into contact with each other (Videos S6). The plasticity of 249 dsCactus megacytes was confirmed by *in vitro* live imaging of perfused hemocytes labeled by 250 systemic injection of Vybrant CM-DiI and green Cell Mask. Some megacytes from dsCactus 251 mosquitoes projected long thin filopodia towards other megacytes (Video S7). This process was 252 not observed in regular granulocytes or in megacytes from the dsLacZ controls. Taken together, 253 our live imaging data indicates that, in addition to their larger diameter (Fig. 3C and D), dsCactus 254 megacytes are also more active, have increased plasticity as they patrol the midgut (Video S6), 255 and greater tendency to interact with each other and form clusters (Videos S6 and S7).

256 The detailed ultrastructure of megacytes was explored using Transmission Electron Microscopy 257 (TEM). Hemocytes from Cactus silenced females were collected by perfusion, allowed to settle 258 and fixed in suspension. As expected, the maximum diameter of hemocytes fixed while in 259 suspension was smaller than when they were allowed to spread on a glass surface. Regular 260 granulocytes were still significantly smaller (6-10 μ m) than megacytes (15-20 μ m), with nuclei that are also proportionally smaller (Fig. 4A and B). Extensive electrodense areas are observed in 261 262 the nuclei of megacytes, probably corresponding to the nucleolus. Large numbers of cytoplasmic 263 vacuoles that contain abundant amorphous material are observed, as well as an extensive 264 mitochondrial network (Fig. 4A and B). Mitochondrial organization of perfused hemocytes was 265 further investigated using Mitotracker staining. Mitochondria of regular granulocytes have a 266 punctate pattern with strong staining on individual organelles (Fig. 4D). In contrast, megacytes 267 exhibit a more diffuse and extensive mitochondrial network (Fig. 4E). It is noteworthy that large 268 membrane-bound mitochondria-like extracellular structures and small vesicles are often observed

269	"budding off"	from the	e surface	of dsCactus	megacytes	(Fig.	4B-C),	but	not	from	regular
270	granulocytes (H	Fig. 4A).									
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286 Fig.4: Ultrastructure of megacytes in Cactus-silenced mosquitoes. (A) Transmission Electron Microscopy (TEM) of regular granulocytes from Cactus-silenced mosquitoes. Scale Bar: 2um. (B) 287 288 TEM of megacytes from Cactus-silenced mosquitoes. Scale Bar: 5um. (C) Extracellular giant 289 mitochondria-like structures (black arrows). Close-up of a mitochondria-like structure (lower 290 center). Scale Bars: 2um and 1um. TEM images were digitally colorized, cytoplasm is shown in 291 blue, mitochondria in red and nuclei in golden yellow. (D) Mitotracker staining in regular 292 granulocytes. Scale Bar: 20um. (E) Mitotracker staining in Cactus-megacytes. Actin is stained in 293 green (phalloidin), mitochondria is in red (mitotracker) and nuclei in blue (Hoechst). Yellow arrow 294 indicates an extracellular mitochondrion like structure outside of a megacyte. Scale bar: 20um.

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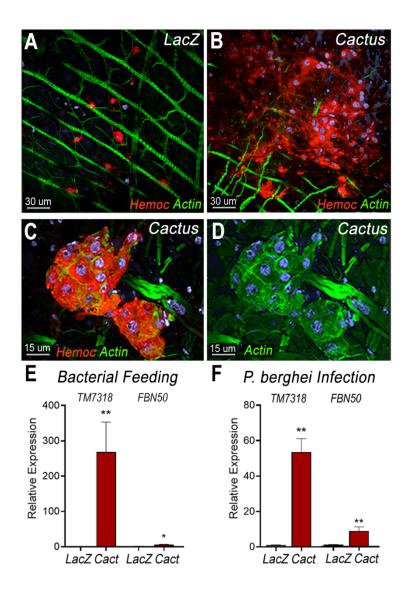
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Megacytes associate with the basal surface of the midgut in response to bacterial feeding and *Plasmodium berghei* infection

300 We have shown that the direct contact of bacteria with epithelial cells, before the peritrophic matrix 301 is formed, triggers PGE2 release and attracts hemocytes to the basal surface of the midgut (Barletta 302 et al., 2019). Hemocyte recruitment to the midgut in dsCactus females was explored by feeding 303 them a BSA protein meal containing bacteria. As expected, bacterial feeding attracted hemocytes 304 to the midgut in both dsCactus and dsLacZ control females (Fig. 5A and B). However, there are 305 important differences in hemocyte recruitment. In dsLacZ females, hemocytes attach to the midgut 306 basal lamina individually or in doublets (Fig.5A), while hemocytes from dsCactus females form 307 large clusters on the basal midgut surface, with multiple hemocytes in very close association 308 (Fig.5B and C). dsCactus hemocytes on the midgut surface have the characteristic morphology 309 of megacytes, with a larger cytoplasm and nuclei than those from dsLacZ females (Fig. 5B and C). 310 Accumulation of actin was often observed in the boundaries where hemocytes from dsCactus 311 females come in direct contact as they form clusters (Fig. 5D).

312 The recruitment of granulocyte subpopulations to the midgut of dsCactus females, in 313 response to both bacterial feeding and P. berghei infection, was analyzed by quantitation of mRNA 314 transcripts of cell-specific hemocyte markers in dissected mosquito midguts. TM7318 mRNA 315 levels increased dramatically in dsCactus midguts after bacterial feeding (250-fold increase) 316 relative to dsLacZ control (p=0.0022, Mann-Whitney test) (Fig. 5E), indicative of extensive 317 megacyte recruitment. A significant, but more modest increase in FBN50 (5-fold) (p=0.0152, 318 Mann-Whitney test) a marker of antimicrobial granulocytes, was also observed (Fig. 5E). 319 Although hemocytes undergo apoptosis as they release HdMv in response to *P. berghei* midgut 320 invasion, a strong increase in TM7318 mRNA associated with the midgut of dsCactus infected

321	females (50-fold increase) (p=0.0022, Mann-Whitney test), relative to dsLacZ controls (Fig. 5F)
322	was still detected. FBN50 levels were also significantly higher (10-fold increase) (p=0.0043,
323	Mann-Whitney test), although the increase was not as robust as that of the megacyte-specific
324	marker (Fig. 5F).
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345 Fig. 5: Bacterial feeding and *Plasmodium berghei* infection increase megacyte association to 346 the midgut basal surface. (A) Effect of bacterial feeding in LacZ-injected controls on hemocytes 347 associated to the midgut basal surface. (B) Effect of Cactus silencing on the hemocytes associated 348 to the basal surface of the midgut 4 hours post bacterial feeding. (A) and (B) Scale Bar: 30um. (C) 349 and (D) Hemocyte cluster attached to the midgut surface in Cactus-silenced mosquitoes 4 hours 350 post bacterial feeding. Scale bar: 15um. (A-D) Midgut actin is showing in green (phalloidin), hemocytes (stained with Vybrant CM-DiI) in red and nuclei in blue (Hoechst). (E) Relative mRNA 351 352 levels of effector hemocyte markers in the midgut 4 hours after bacterial feeding in LacZ and 353 Cactus-silenced mosquitoes. Scale bar: 15um. (F) Relative mRNA levels of effector hemocyte 354 markers in the midgut 26 h post P.berghei infection (post-invasion) in LacZ and Cactus-silenced 355 mosquitoes. TM7318, as a megacyte marker and FBN50, as an antimicrobial granulocyte. Error 356 bars in (E) and (F) represent mean \pm SEM. Unpaired t-test, *P ≤ 0.05 , **P ≤ 0.01 .

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359 Discussion

360 The dramatic phenotype of Toll pathway overactivation by silencing Cactus expression, 361 which results in complete elimination of P. berghei parasites by the mosquito complement system, 362 was documented more than fifteen years ago (Frolet et al., 2006). Furthermore, the observations 363 that the transfer of dsCactus hemocytes recapitulated the phenotype in recipient mosquitoes 364 (Ramirez et al., 2014) and that Cactus silencing greatly increased in HdMv release in response to 365 *Plasmodium* midgut invasion (Castillo et al., 2017), clearly indicated that hemocytes are key 366 players of this enhanced antiplasmodial response. However, the mechanism by which Toll 367 signaling enhanced hemocyte responses to *Plasmodium* infection remained a mystery.

Transcriptomic analysis indicated that Cactus silencing increased the proportion of circulating megacytes, at the expense of a reduction in regular granulocytes (Fig. 2). This was confirmed by morphological analysis, *in situ* hybridization and mRNA quantitation of hemocytespecific markers, TM7318 (megacytes) and FBN11228 (regular granulocytes). We provide direct evidence that, besides being larger, megacytes also have higher plasticity and can greatly extend their cytoplasm and flatten their nucleus as they spread on a glass surface (Fig. 1C).

374 The lack of DNA replication and the concomitant reduction in the proportion of regular 375 granulocytes, indicates that Toll activation increases the proportion of circulating megacytes by 376 promoting final differentiation of granulocytes to the megacyte lineage. Besides the dramatic 377 increase in circulating megacytes, Cactus silencing also results in megacytes that are even larger 378 and more plastic than megacytes from dsLacZ controls. Co-silencing Cactus and the transcription 379 factor LL3 partially reduced megacyte differentiation, suggesting that this transcription factor 380 participates in the differentiation process, but there may be other LL3-independent mechanisms 381 involved.

382 Fine ultrastructural analysis revealed that the cytoplasm of megacytes exhibits extensive 383 large vacuolar structures filled with amorphous material, as well as small vesicles and 384 mitochondria-like structures that are secreted from the cell membrane. In vertebrates, 385 mitochondrial extrusion has been recently documented as a trigger of inflammation. Activated 386 platelets release their mitochondria, both within microparticles or as free organelles; and secreted 387 phospholipase A2 IIA can hydrolyze the membrane, releasing inflammatory mediators, such as 388 lysophospholipids, fatty acids, and mitochondrial DNA, that promote leukocyte activation. 389 Furthermore, extracellular mitochondria also interact directly with neutrophils in vivo, and 390 trigger their adhesion to the endothelial wall (Boudreau et al., 2014). Activated monocytes 391 release mitochondria, and their proinflammatory effect on endothelial cells is determined by the 392 activation status of the monocytes that released them. It has been proposed that free 393 mitochondria could be important mediators of cardiovascular disease by inducing activation of 394 type I IFN and TNF signaling (Puhm et al., 2019).

395 Large numbers of megacytes are recruited to the midgut of dsCactus females in response 396 to bacterial feeding, forming extensive clusters of cells that are in close contact with each other, 397 indicating that Toll activation also results in functional differences in the way these cells interact. 398 *Plasmodium* midgut invasion triggered strong recruitment of megacytes to the basal surface of the 399 midgut, in agreement with the documented increase in HdMv release in proximity to epithelial 400 cells invaded by ookinetes (Castillo et al., 2017). We recently described specific subsets of 401 mosquito granulocytes based on single-cell transcriptomic analysis (Raddi et al., 2020). Here we 402 present a functional characterization of megacytes, a newly described subpopulation of final 403 effector granulocytes and provide direct evidence of their recruitment to the basal surface of the 404 mosquito midgut when bacteria are allowed to come in contact with epithelial cells. We propose 405 that Toll signaling promotes hemocyte differentiation into the megacyte lineage, and that the 406 dramatic increase in the proportion of circulating megacytes mediates the observed increase in 407 HdMv (Castillo et al., 2017), resulting in enhanced complement activation that ultimately 408 eliminates *P. berghei* ookinetes. Activation of Toll signaling in mosquitoes appears to also trigger 409 the release of free mitochondria-like structures by megacytes, suggesting that these could be an 410 ancient systemic danger signal that promotes immune activation.

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412 Data Availability

The raw data and detailed information on individual experiments and number of replicates areavailable at Supplementary tables file.

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422 Author Contributions

423 Experiments were designed by A.B.F.B., N.T., B.S., G.R. and C.B.M., carried out by A.B.F.B.

B.S., N.T., and analyzed by A.B.F.B., N.T., B.S., G.R. and C.B.M. A.B.F.B. and C.B.M. wrotethe paper.

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428 **Declaration of Interests**

429 The authors declare no competing financial interests.

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483 Material and Methods

484 *Mosquitoes and mouse feeding*

Anopheles gambiae mosquitoes (G3 strain - CDC) were reared at 28°C, 80% humidity under a 485 486 12h light/ dark cycle and kept with 10% Karo syrup solution during adult stages. For mosquito 487 infections with *Plasmodium berghei*, we used the transgenic GFP *P.berghei* parasites (ANKA 2.34 488 strain) kept by serial passages into 3-4 weeks old female BALB/c mice (Charles River, 489 Wilmington, MA) starting from frozen stocks. Mouse infectivity was evaluated before feeding by 490 parasitemia levels from Giemsa-stained thin blood films and in vitro microgamete exflagellation 491 counting. Briefly, one microliter of tail blood was mixed with 9ul of gametocyte activating 492 medium (RPMI 1640 with 25mM HEPES + 2mM glutamine, Sodium Bicarbonate 2g/L, 100uM 493 xanthurenic acid, 50ug/ml hypoxanthine). After 10 minutes of incubation exflagellations were 494 quantified using a 40X objective by phase contrast. Four to five-day old mosquitoes were fed when 495 mice reached 3-5% parasitemia and 2-3 exflagellation per field. To feed blood-fed control 496 mosquitoes, three- to four-week-old uninfected mice were used. Following feeding, both control 497 and infected mosquitoes were maintained at 19°C, 80% humidity and 12h light/dark cycle until 498 the day of dissection.

499 *Ethics statement*

Public Health Service Animal Welfare Assurance #A4149-01 guidelines were followed according
to the National Institutes of Health Animal (NIH) Office of Animal Care and Use (OACU). These
studies were done according to the NIH animal study protocol (ASP) approved by the NIH Animal
Care and User Committee (ACUC), with approval ID ASP-LMVR5.

504 Perfused hemocytes live imaging

505 Three-day-old adult females were injected with Vybrant Dil (1:10 water diluted, ThermoFisher 506 Scientific, Waltham, MA, USA) on one side of the thorax. The next day, mosquitoes were injected 507 with 69 nL of either dsCactus or dsLacZ at 3 $\mu g/\mu L$ on the other side of the thorax. After 4 days, 508 hemocytes were ready for perfusion or mosquitoes were used for in vivo live imaging as described 509 below. Mosquitoes were cold-anesthetized and, using forceps, a small cut was made in the 510 abdomen. Transfer buffer (95% Schneider media + 5% citrate buffer) was injected at the thorax 511 and 10-15 μ L of hemolymph was harvested at the cut-site. This was repeated for 5-7 mosquitoes 512 and collected in a microcentrifuge tube stored on ice. To stain the plasma membrane of hemocytes 513 we used CellMask green plasma membrane stain stock solution (C37608, Invitrogen, Waltham, 514 MA, USA) and for the nuclei we used the Hoechst 33342 Solution (20mM) (ThermoFisher 515 Scientific, Waltham, MA, USA). Two microliters of fluorescent label solution (58 μ L H2O + 1 516 μ L Cell Mask stock + 1 μ L Hoechst stock) was added for every 20 μ L of perfusion and 100 μ L of 517 this mixture was mounted on an ibidi μ -Slide 18 Well Glass Bottom slide. Cells were allowed to 518 settle for 30 minutes then imaged. Images were taken on a Leica SP5 confocal microscope using 519 a 63x 1.4 NA oil objective with 405 nm wavelength laser (at 3% transmission) for Hoechst, 488 520 nm (5%) for Cell Mask, and 561 nm (3%) for DiI. Pinhole was set to 1 AU and frame average was 521 12. Z-intervals of 1-2 μm encompassing the full cell height was taken every 5 minutes for 2 hours. 522 *Bacterial artificial feeding*

We used a bacterial mixture obtained from the midguts of the Anopheles gambiae G3 from our colony (Barletta et al., 2019). A pre-inoculum was set up in LB media from the frozen stocks containing the bacterial mixture and allow to grow overnight at 28°C, 250rpm in a shaker incubator. At the day of the experiment, the pre-inoculum was diluted in fresh LB media and allowed to grow for 2 hours in the same condition described above. Briefly, after 2 hours of growth, 528 bacteria were washed with sterile PBS to remove toxins and the concentration of the culture was 529 estimated based on the Optical Density (OD) of the culture. At 600nm, 1OD was considered the equivalent of 10⁹ bacteria/mL. Three-to-four day mosquitos were fed a sterile 10% sucrose 530 531 solution containing antibiotics (Penicillin, 100U/mL and Streptomycin, 100ug/mL) for 2 days 532 prior the bacterial feeding. Control group was fed with a sterile 10% Bovine Serum Albumin 533 (BSA) solution in HBSS without calcium and magnesium and the bacteria group was fed with the same solution containing 4 x 10^9 bacteria per feeder. Mosquitoes were dissected 6 hours post 534 535 feeding for visualization of hemocytes attached to the midgut basal surface.

536 Hemocyte collection, morphology staining and quantification

537 Hemocytes were collected by perfusion using anticoagulant buffer (60% Schneider medium, 30% 538 citrate buffer, pH 4.5 and 10% FBS), pH was adjusted to 7-7.2 after mixing all the components. 539 After perfusion, hemocytes were placed in a µ-slide angiogenesis chamber (ibidi GmbH, 540 Gräfelfing, Germany) and were allowed to settle for 15 minutes. Cells were fixed for an hour at 541 room temperature by adding 16% paraformaldehyde (PFA) solution in anticoagulant buffer to a 542 final concentration of 4%. Following fixation cells were washed with PBS 0.1% Triton and 543 incubated for 30 minutes at room temperature with 1U of phalloidin (Alexa Fluor 488, Molecular 544 Probes, ThermoFisher Scientific, Waltham, MA, USA) and 20 µM Hoechst 33342 (405, Molecular 545 Probes, ThermoFisher Scientific, Waltham, MA, USA), both diluted in PBS 0.1% Triton. Cells 546 were then placed in mounting media for storage by adding 2 drops of Prolong Gold Antifade 547 Mountant (Molecular Probes, ThermoFisher Scientific, Waltham, MA, USA). For determination 548 of proportion of megacytes upon Cactus silencing, the hemocytes were imaged, the diameter of 549 every cell was measured and classified as granulocytes (cell diameter >12.5-25 μ m) or megacytes 550 (cell diameter >25 μ m) as mentioned before. The total number of granulocytes and megacytes

551 obtained from hemolymph pooled from 16-20 mosquitoes was noted and the percentage of 552 megacytes amongst granulocytes was determined for each sample. Data from three independent 553 biological replicates were used to plot the graphs.

554 *Measurement and categorization of the hemocytes by size*

555 The mosquito hemolymph was collected and the hemocytes were allowed to attach on a coated 556 well of 15µm chamber slide. For each well 8-10 mosquitoes were bled and for every sample, 557 bleeding was done in two wells with a total of 16-20 mosquitoes. Post attachment, the hemocytes 558 were fixed with 4% p-formaldehyde and stained with Phalloidin and DAPI to visualize the 559 morphology. Images were taken for at least 10 random fields for each well and the images were 560 used to measure the cell diameter using Imaris software. Using the "Pairs" option of "Measurement 561 points" tool in the software, the largest diameter of every cell was determined. For categorizing 562 the hemocytes into different subtypes, the following size reference was followed for every image 563 analysis. Cells with diameter ranging from 4-7.5 μ m were classified as prohemocytes, >7.5 μ m-564 12.5 μ m as oenocytoids, >12.5-25 μ m as granulocytes and >25 μ m as megacytes.

565 *dsRNA synthesis*

566 Three-to-four day old female An.gambiae females were cold-anesthetized and injected with 69nl 567 of a 3ug/ul dsCactus or dsLacZ control. Double-stranded RNA for Cactus (AGAP007938) was 568 synthesized by *in vitro* transcription using the MEGAscript RNAi kit (Ambion, ThermoFisher 569 Scientific, Waltham, MA, USA). DNA templates were obtained by PCR using An.gambiae cDNA 570 extracted from whole body sugar-fed females. A 280-bp fragment was amplified with primers 571 containing T7 promoters (F-TAATACGACTCACTATAGGGTAACACTGCGCTTCATTTGG 572 and R-TAATACGACTCACTATAGGGGCCCCTTTTCAATGCTGATGT), using an annealing 573 temperature of 58°C. Double-stranded RNA for LacZ was synthetized by amplifying a 218-bp

574 fragment from LacZ gene clones into pCRII-TOPO vector using M13 primers to generate a dsRNA

- 575 control as previously described (Molina-Cruz et al., 2012).
- 576 RNA extraction and bulk RNAseq library preparation

577 Hemocytes were collected as previously described above. In short, An.gambiae females were 578 perfused using anticoagulant buffer and immediately transferred to a glass tube for attachment. 579 After one hour, hemocytes that did not attach to the glass tube were collected and transferred to a 580 1.5 ml microcentrifuge containing 800ul of TRIZOL LS reagent (Invitrogen, Waltham, MA, 581 USA), that correspond to the unbound fraction enriched mainly by prohemocytes and oenocytoids. 582 Hemocytes that attached to the glass surface were washed twice with PBS and resuspended in 1mL 583 of TRIZOL LS reagent (Invitrogen, Waltham, MA, USA), this corresponds to the bound fraction, 584 mainly enriched by granulocytes. Hemocytes were then lysed in TRIZOL reagent for 15-30 585 minutes at room temperature to allow for full dissociation, then stored at 4°C overnight and then 586 at -20C until RNA extraction. The homogenate of hemocyte samples were transferred to Phase 587 Lock Gel Heavy 2 mL tubes (QuantaBio, Beverly, MA, USA) that had been pre-spun for 1500 588 RCF for 1 minute, and allowed to incubate for 5 minutes at room temperature. 100 uL of 589 chloroform (200 uL per 1 mL TRIZOL or TRIZOL plus media) was added, the tubes capped, and 590 then vigorously shaken for 15 seconds. Samples were then centrifuged for 12,000 RCF, 10 591 minutes, 4°C. If the clear, aqueous phase was still mixed with TRIZOL matrix then 100 uL more 592 of chloroform was added, and the samples again mixed vigorously and spun as before. The aqueous 593 phase was then transferred to a fresh 1.5 mL Eppendorf tube and the RNA precipitated by adding 594 0.25 mL of isopropyl alcohol (500 mL per 1 mL TRIZOL reagent used). 20 uL of glycogen (5 mg 595 / mL) were also added to aid in precipitation and pelleting. Samples were mixed by repeated 596 inversion 10 times, incubated for 10 minutes at room temperature, and then spun at 12,000 RCF,

597 10 minutes, 4°C. All the supernatant was removed, and the RNA pellets washed twice with 75% 598 ethanol (minimum 1 mL of ethanol per 1 mL of TRIZOL used). Each time the samples were mixed 599 by vortexing and centrifuged 7,500 RCF, 5 minutes, 4C. At the end, the supernatant was removed 600 and samples air-dried until almost dry, but not completely (still translucent). RNA was 601 resuspended with 30 uL of RNAse free water, pipetting a few times to homogenize and then 602 incubating at 55°C for 10 minutes to completely resuspend. Samples were then stored at -20C until 603 library preparation by Bespoke Low-Throughput Team at the Wellcome Sanger institute. Total 604 RNA quantity was assessed on a Bioanalyser and ranged from 300 ng to 39 ng. mRNA was then 605 isolated with the NEBNext Poly(A) mRNA magnetic isolation module. RNA-seq libraries were prepared from mRNA using the NEBNext Ultra II Directional RNA Library Prep Kit for Illumina 606 607 (New England Biolabs) as by manufacturer instructions, except that a proprietary Sanger UDI 608 (Unique Dual Indexes) adapters / primer system was used. Furthermore, Kapa Hifi polymerase 609 rather than NEB Q5 was employed. For bulk RNAseq sequencing samples libraries were run on 610 the Illumina HiSeq 4000 instrument with standard protocols using a 150-cycle kit set to a 75bp 611 paired-end configuration. Libraries supplied at 2.8 nM and loaded with a loading concentration of 612 280 pM.

613 Bulk RNA-seq bioinformatic analysis

Sequencing reads in CRAM format were fed into a personal BASH pipeline to convert cram files to fastq using biobam's bamtofastq program (Version 0.0.191) (Raddi et al., 2020). Forward and reverse fastq reads in paired mode were aligned to the A. gambiae AgamP4.3 reference genome using hisat2 (Version 2.0.4) and featureCounts (Version 1.5.1) with recommended settings. Count matrices were combined before downstream data processing and analysis within R version 3.5.3 (RStudio version 1.0.153). Downstream normalization, differential expression analysis and

620 visualization were done with DESeq2 R package (Version 1.18.1) (Love et al., 2014). Base factor 621 was defined as the LacZ, unbound condition. Data was normalized by making a scaling factor for 622 each sample. First the log(e) of all the expression values were taken, then all rows (genes) were 623 averaged (geometric average). Genes with zero counts in one or more samples were filtered out 624 and the average log value from log (counts) for all genes was subtracted. Finally, the median of 625 the ratios calculated as above for each sample was computed and raised to the e to make the scaling 626 factor. Original read counts were divided by the scaling factor for each sample to get normalized 627 counts. Then, the dispersion for each gene was estimated, and a negative binomial generalized 628 linear model fitted. P values for the differential expression analysis were adjusted for multiple 629 testing using the Bonferroni correction. Genes were considered as differentially expressed in 630 Cactus knockdown compared to LacZ control if they had an adjusted P value < 0.001 (Wald T-631 test) and a log2 fold change > 2. Gene lists with vectorbase IDs were converted to gene annotations 632 with g:Profiler (Raudvere et al., 2019). g:Profiler utilizes Ensembl as its primary data source and 633 is anchored to its quarterly release cycle. g:GOSt was used to perform functional enrichment 634 analysis on input gene lists to map the data onto enriched biological processes or pathways. In 635 addition to Ensembl, also KEGG, Reactome, WikiPathways, miRTarBase, and TRANSFAC 636 databases were used. Functional enrichment is evaluated with a cumulative hypergeometric test 637 with g:SCS (Set Counts and Sizes) multiple testing correction (adjusted P value reported only < 638 0.05). Gene lists were ordered on log-fold changes.

639 Transmission Electron Microscopy (TEM)

640 Hemocytes were collected by perfusion using anticoagulant buffer, described above and they were

641 allowed to settle on Thermanox[™] coverslips (Ted Pella, Redding, CA) for 15 minutes at room

temperature then fixed 2.5% glutaraldehyde in 0.1 M sodium cacodylate buffer overnight at 4°C,

643 and then post-fixed 1hr with 1.0% osmium tetroxide/0.8% potassium ferricyanide in 0.1 M sodium 644 cacodylate buffer, washed with buffer then stained with 1% tannic acid in dH2O for one hour. 645 After additional buffer washes, the samples were further osmicated with 2% osmium tetroxide in 646 0.1M sodium cacodylate for one hour. The samples were then washed with dH2O and additionally 647 stained overnight with 1% uranyl acetate at 4°C, dehydrated with a graded ethanol series, and 648 embedded in Spurr's resin. Thin sections were cut with a Leica UC7 ultramicrotome (Buffalo 649 Grove,IL) prior to viewing at 120 kV on a FEI BT Tecnai transmission electron microscope 650 (Thermo fisher/FEI, Hillsboro, OR). Digital images were acquired with a Gatan Rio camera 651 (Gatan, Pleasanton, CA).

652 Mitotracker staining

653 Hemocytes were perfused with anticoagulant buffer, described above. Cells were incubated at 654 room temperature for 15 minutes for spreading. Then washed three times with 95% Schneider 655 media, 5% citrate buffer to remove most of the serum from the cells. Hemocytes were placed with 656 200nM Deep Red Mitotracker 644/665 which is retained after fixation (Molecular Probes, 657 ThermoFisher Scientific, Waltham, MA, USA) diluted in 95% Schneider media, 5% citrate buffer. 658 Cells were incubated for 45 minutes at room temperature in the dark, then washed with PBS and 659 fixed with 4% Paraformaldehyde in PBS for 15 minutes at room temperature. Hemocytes were 660 then counterstained with phalloidin and Hoechst as described above.

661 TM7318 in situ hybridization (ISH)

The ISH protocol includes a permeabilization step with a protease treatment, which compromises the cell morphology. To evaluate the morphology of hemocytes and RNA expression by ISH, we used a two-step protocol to image morphology first and then proceed to image the probes, described in (Raddi et al., 2020). Hemocytes collected by perfusion four days after dsCactus

666 injection, fixed and stained with Alexa 488 phalloidin (actin) as described above. Ten random 667 fields of each well were imaged using a tile scan "mark and find" tool, where coordinates of the 668 field are recorded and can be restored to image the same cells later. Then, hemocytes were 669 subjected to ISH using RNAscope multiplex fluorescent reagent kit v2 assay (cat# 323110, 670 ACDBio, Abingdon, United Kingdom) following the manufacturer's instructions. TSA based 671 fluorophores Opal 4- color automation IHC kit (cat # NEL801001KT, PerkinElmer, Waltham, 672 MA, USA) was used for the development of fluorescence (Opal 620 - C3). A specific RNA probe 673 for TM7318 (cat# 543201-C3; Aga-Transmembrane-C3) designed by ACDBio was used to stain 674 specifically megacytes. At the end of the ISH protocol, hemocytes were placed in prolong gold 675 and re-imaged using the "mark and find" tool to recall the positions of the morphology pictures. 676 Images were merged using Imaris 9.3.1 (Bitplane, Concord, MA, USA). Each well was imaged 677 taking 12 fields per well. Post imaging, the cell diameter of every cell was measured by Phalloidin 678 stain as described previously and the total number of granulocytes were determined for each 679 sample. Amongst the granulocytes and larger cells (cells with diameter >12.5), the number of cells 680 positive for the TM7318 probe were counted and their percentage was determined for both the 681 control and Cactus silencing.

682 Confocal microscopy and Tile scan imaging

Confocal images were captured using a Leica TCS SP8 (DM8000) confocal microscope (Leica Microsystems, Wetzlar, Germany) with either a 40x or a 63x oil immersion objective equipped with a photomultiplier tube/ hybrid detector. Hemocytes were visualized with a white light laser, using 498-nm excitation for Alexa 488 (phalloidin); 588-nm excitation for Opal620 (TM7318 probe) and Vybrant DiI (hemocytes); 644-nm excitation for Deep Red Mitotracker (Mitochondria) and a 405-nm diode laser for nuclei staining (Hoechst 33342). Images were taken using sequential

mode and variable z-steps. For combined morphology and in RNA in situ hybridization, we used
tile scan "mark and find" tool included in LASX software to capture the same areas of the slide
before and after the hybridization. Image processing and merge was performed using Imaris 9.3.1
(Bitplane, Concord, MA, USA) and Adobe Photoshop CC (Adobe Systems, San Jose, CA, USA).

693 RNA extraction, cDNA synthesis and qPCR analysis

694 An. gambiae hemocytes were collected as described above four days after dsRNA injection 695 (dsLacZ and dsCactus). Hemolymph pools of 20 mosquitoes (5ul/ each mosquito) were placed 696 directly into 800ul of TRIzol LS reagent (ThermoFisher Scientific, Waltham, MA, USA). For 697 midgut RNA extraction, pools of 20 midguts were homogenized directly in 1mL TRIzol reagent. 698 RNA extraction was carried out as described above in the section RNA extraction and bulk RNAseq 699 library preparation. Total extracted RNA was resuspended in nuclease free water and one 700 microgram was used for cDNA synthesis using the Quantitect reverse transcription kit (Qiagen, 701 Germantown, MD, USA) following the manufacturer's instructions. Quantitative PCR (qPCR) 702 was used to measure FBN11228 (AGAP011228), TM7318 (AGAP007318) and FBN50 (AGAP005848) gene expression in hemocytes cDNA. We used the DyNamo SYBR green qPCR 703 704 kit (ThermoFisher Scientific, Waltham, MA, USA) with target specific primers and the assay ran 705 on a CFX96 Real-Time PCR Detection System (Bio-Rad, Hercules, CA, USA). A 139-bp 706 fragment was amplified for FBN11228 (F- CCAGCATCGGTACAACGGAA and R-707 AAGCTCGTGTTTTCGTGCTG). A 150-bp fragment was amplified for TM7318 (F-708 AAAACATCCAGAAACACGCC and R- GGATTCCGGTTAAGTCCACC). A 92-bp fragment 709 amplified for FBN50 (F-ATCACAAGGTTCCGGCTATG and Rwas 710 CGTTGGTGTGGGGGGGGGGGAGA). Relative expression was normalized against An. gambiae 711 ribosomal protein S7 (RpS7) as internal standard and analyzed using the $\Delta\Delta$ Ct method (ref –

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Livak and Schmittgen, 2001; Pfaffl, 2001). RpS7 (AGAP010592) primers sequences were: FAGAACCAGCAGACCACCATC and R – GCTGCAAACTTCGGCTATTC. Statistical analysis
of the fold change was performed using Unpaired t-test (GraphPad, San Diego, CA, USA). Each
independent experiment was performed with three biological replicates (three pools of 20
mosquitoes) for each condition.

717 In vivo live imaging

718 Mosquitoes were prepared the same way for imaging of perfused hemocytes and injected with 719 Vybrant Dil cell labelling (ThermoFisher Scientific, Waltham, MA, USA) for both dsCactus and 720 dsLacZ. After 4 days, mosquitoes were starved in the morning and then fed on a BALB/c mouse 721 in the afternoon. Imaging took place the next day at 18-20 hours post-bloodmeal. Mosquitoes were 722 imaged as previously described (Trisnadi and Barillas-Mury, 2020). Briefly, 5-10 mosquitoes with 723 legs and head removed were placed between a coverslip and glass slide with craft putty as a spacer. 724 Images were taken on a Leica SP5 confocal microscope using a 40x 1.25 NA oil objective with 725 561 nm (3%) for Vybrant DiI. A z-stack with 1 µm intervals was taken to include hemocytes 726 circulating in the hemolymph to the midgut lumen. The z-stack was taken every 1 minute for 1-2 727 hours.

728 Visualizing hemocytes attached to the midgut basal lamina

To preserve hemocyte-midgut bound, midguts were quick fixed using a higher concentration of fixative injected straight into the hemolymph of the mosquito (207nl of 16% paraformaldehyde). To stain hemocytes, the day before the dsRNA treatment (dsLacZ and dsCactus), three-to-4-dayold mosquitoes were injected with 69nl of a 100uM solution Vybrant CM-DiI cell labelling solution (ThermoFisher Scientific, Waltham, MA, USA), final concentration in the hemolymph (approximately 3.5uM). Engorged mosquitoes fed with 10% BSA solution containing bacteria

735 were anesthetized and injected with 207nl of 16% paraformaldehyde, rested 40 seconds before 736 midgut dissection in 4% paraformaldehyde solution. After dissected, midguts were placed in ice-737 cold PBS and opened longitudinally, and the bolus was removed. Clean opened tissues were then 738 fixed overnight at 4°C in 4% paraformaldehyde. The following day, midguts were washed twice 739 with PBS, blocked for 40 minutes with PBS containing 1% BSA and washed twice with the same 740 solution. For actin and nuclei staining, midguts were incubated for 30 minutes at room temperature 741 with 1U of phalloidin (Alexa Fluor 488, Molecular Probes, Waltham, MA, USA) and 20uM 742 Hoechst 33342 (405, Molecular Probes, Waltham, MA, USA), both diluted in PBS. Tissues were 743 mounted in microscope slides using Prolong Gold Antifade mounting media (Molecular Probes, 744 Waltham, MA, USA). Hemocytes were visualized by confocal microscopy and the number of 745 hemocytes per midgut in each biological condition was also analyzed.

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Supplemental Information

Toll signaling enhances mosquito antiplasmodial immunity by promoting differentiation of hemocytes to the Megacyte lineage

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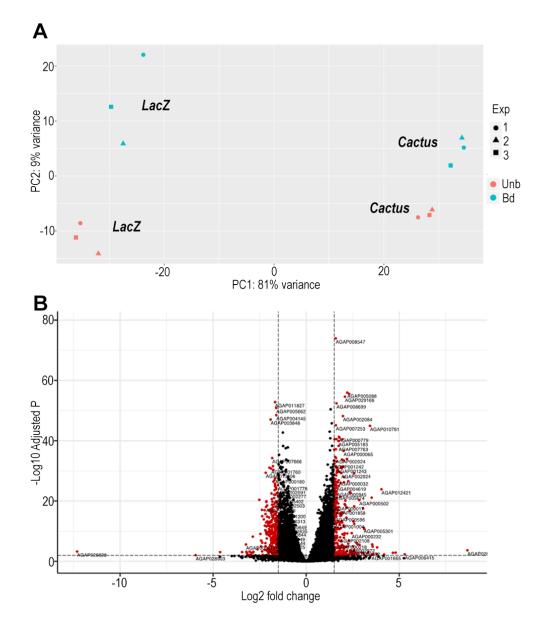
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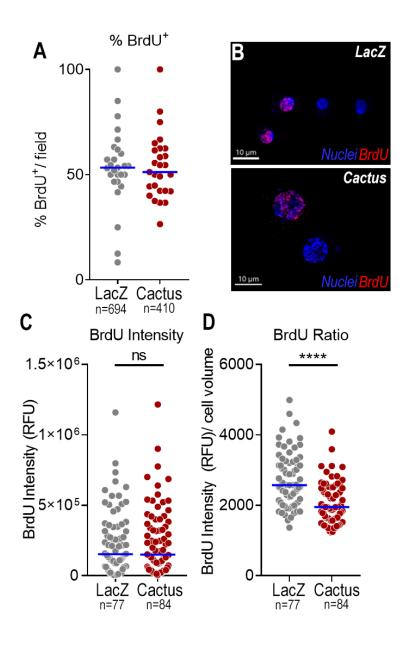
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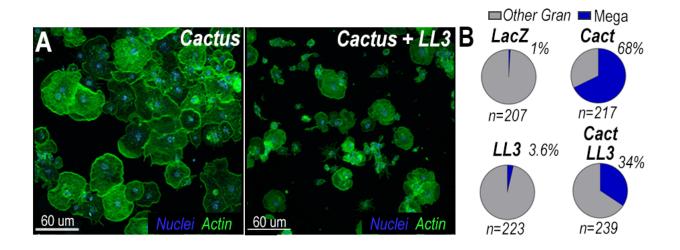
Supplementary figures



Supplementary Figure 1. Quality control of dsCactus knockdown bulk RNA seq and Differential expression between bound and unbound fractions. (A) PCA plot showing first and second principal component of dsRNA Cactus and control LacZ knock-down, for bound and unbound hemocyte fractions. Cactus and LacZ cluster separately, and so do bound and unbound hemocyte fractions. Bd = bound. UnB = unbound. One, two and three represent different biological replicates for each condition. (B) From a total of 9421 filtered genes (B) Volcano plot of DE genes between bound and unbound hemocytes filtered for log2 fold change >1.5 and Q-value <0.01.



Supplementary Figure 2. Toll activation controls megacyte differentiation and not proliferation. (A) Percentage of BrdU⁺ hemocytes in dsLacZ and dsCactus mosquitoes 4 days after silencing. (B) Representative pictures of positive BrdU nuclei in LacZ and Cactus hemocytes. Nuclei is in Blue and BrdU is showing in Red. Scale Bar: 10um. (C) BrdU fluorescence intensity (Relative fluorescent units) in hemocytes from dsLacZ and dsCactus female mosquitoes. (D) Ratio between BrdU fluorescence intensity (Relative fluorescent units) and cell volume calculated based on the fluorescence of the nuclei (Hoechst staining). Quantification of cells was performed from 2 independent experiments. In each experiment 10 fields were collected, counted, and analyzed for BrdU staining. Blue bar in A, C and D represent medians. Mann-Whitney t-test, ****p<0.0001, ns – nonsignificant.



Supplementary Figure 3. LL3 partially mediates megacyte differentiation through Toll signaling. (A) dsCactus and double silenced dsCactus + dsLL3 hemocytes perfused 4 days after silencing. Actin is showing in green and the nuclei in blue. Scale Bar: 60um. (B) Percentage of megacytes among all granulocytes in response to co-silencing of dsCactus and dsLL3. Percentages were compared using X²-test, p< 0.0001 and calculated from 2 independent experiments. In each experiment 10 fields per condition were counted.

Video S1. Front view (XY) of a regular granulocyte from *An.gambiae* **mosquito female.** Showing in red is the microvesicle staining and in green the plasma membrane. Scale Bar: 10um. Hemocyte was imaged for 1 hour in intervals of 5 minutes.

Video S2. Side view (XZ) of a regular granulocyte from An. gambiae mosquito female. Showing in red is the microvesicle staining and in green the plasma membrane. Scale Bar: 5um. Hemocyte was imaged for 1 hour in intervals of 5 minutes.

Video S3. Front view (XY) of a megacyte from An. gambiae mosquito female. Showing in red is the microvesicle staining and in green the plasma membrane. Scale Bar: 10um. Hemocyte was imaged for 1 hour in intervals of 5 minutes.

Video S4. Side view (XZ) of a megacyte from An. gambiae mosquito females Showing in red is the microvesicle staining and in green the plasma membrane. Scale Bar: 5um. Hemocyte was imaged for 1 hour in intervals of 5 minutes.

Video S5. *In vivo* hemocyte patrolling activity in dsLacZ mosquitoes. Hemocytes stained in red were imaged through the cuticle of the mosquito for 1 hour and 20 minutes. Scale Bar: 30um.

Video S6. *In vivo* hemocyte patrolling activity in dsCactus mosquitoes. Hemocytes stained in red were imaged through the cuticle of the mosquito for 1 hour and 20 minutes. Scale Bar: 30um.

Video S7. DsCactus megacyte dynamics *in vitro*. Perfused hemocytes from dsCactus mosquitoes. Plasma membrane is showing in green, microvesicles in red and nuclei in blue. Scale Bar: 20um.

Table S1. List of upregulated genes in Cactus silenced hemocytes

Table S2. List of downregulated genes in Cactus silenced hemocytes

Table S1.

Upregulated gen	es by Cactus Kn	ockdown							
Accesion Number AGAP007343	LYSC2	Description C-type lysozyme	150003.6078	11.38985051	0.890888229	12.78482547	1.9931E-37	padj 3.07315E-36	Hemocyte type
AGAP011920 AGAP002842	AGAP011920 AGAP002842	eupolytin CLIPD1 protein	147.2376396 908.0228542	10.24020054 9.35826901 9.223197473	0.850232306 0.461470828	12.04400311 20.27922121	1.96213E-91	2.77551E-32 1.31101E-89	
AGAP006674 AGAP000188	AGAP006674 AGAP000188	chymotrypsin-like protease (Precursor) Uridine phosphorylase [Source:UniProtKB/TrEMBL;Acc:Q7PFX7]	162.6513041 35514.58459 212.6244713	8.223334693	1.269757003 0.206853775 0.779798413	7.263750031 39.75433709 10.04848932	3.76504E-13 0 9.32865E-24	1.82743E-12 0 8.12248E-23	
AGAP010771 AGAP028044 AGAP028137	AGAP010771 CPLCP23 CPLCP17	nan cuticular protein (putative) CPLCP23	212.6244713 568.6912146 23.15155164	7.835796021 7.782049203 7.748117482	0.423632051 0.894497512	10.04848932 18.36983107 8.661977679	9.32805E-24 2.29124E-75 4.63649E-18	1.07392E-73	
AGAP028137 AGAP009728 AGAP012936	AGAP009728 nan	cuticular protein (putative) CPLCP17 ficolin nan	96.0328881 771.7781334	7.552158704 7.376956435	0.734283475 0.577741905	10.2850724 12.76860197	8.22802E-25 2.45525E-37	3.05885E-17 7.47504E-24 3.76725E-36	
AGAP010256 AGAP004497	AGAP010256 AGAP004497	nan nan	24.41954606	6.826258554 6.723899197	0.892933963 0.776063174	7.644751838 8.664113205		1.10678E-13 3.00416E-17	
AGAP009489 AGAP002007	AGAP009489 AGAP002007	Cytidine deaminase [Source:UniProtKB/TrEMBL;Acc:Q7QG43] reticulon/nogo receptor	26454.65472 10.82279296	6.710199366 6.638250029	0.127644774 0.923462513	52.56932305 7.188434759	0 6.55383E-13	0 3.1326E-12	
AGAP029133 AGAP011980	AGAP029133 AGAP011980	nan nan	150.5264926 120.7652387	6.565219163 6.522865768	0.474005189 0.556577551	13.8505217 11.71959911	1.0115E-31	2.4232E-42 1.25882E-30	
AGAP008341 AGAP028008	AGAP008341 CPLCP19	serine/threonine-protein kinase Chk2 cuticular protein (putative) CPLCP19	412.0975372 26.32277697	6.519154025 6.433828174	0.327414123 0.790844224	19.9110349 8.13539251	4.10606E-16	2.10682E-86 2.42528E-15	
AGAP004115 AGAP007150	AGAP004115 AGAP007150	cystinosin nan	4407.482278 11.35455667	6.413747248 6.222639299	0.197665013 0.900634018	32.44755943 6.909176395		3.0689E-228 2.19108E-11	
AGAP001002 AGAP013210 AGAP000473	AGAP001002 AGAP013210 AGAP000473	Toll protein Down syndrome cell adhesion molecule-like protein 1 Aa_trans domain-containing protein [Source:UniProtKB/TrEMBL;Acc	116127.845 104.7167101 32.72500638	6.177628682 6.177452535 6.030795595	0.268236101 0.853967007 0.694109812	23.03056397 7.233830448 8.688532407		2.7825E-115 2.2674E-12 2.43244E-17	
AGAP000473 AGAP011226 AGAP028013	AGAP000473 AGAP011226 CPLCP25	Aa_trans domain-containing protein [Source:OniProtkB/TRMBE;Acc nan cuticular protein (putative) CPLCP25	2959.788347 9.869237005	6.023113599 5.98271328	0.218447016 0.911017367	27.57242332 6.567068309	2.3834E-167 5.13155E-11	2.43244E-17 5.2219E-165 2.15342E-10	Megacytes
AGAP028178 AGAP012544	CPLCP13 CASPS14	cuticular protein (putative) CPLCP13 short caspase 14	9.845746458 9.247569773	5.903622512 5.88732349	0.934991859 0.910161253	6.314089748 6.468440042		1.07617E-09 4.0489E-10	
AGAP006982 AGAP013142	AGAP006982 AGAP013142	nan nan	7.337402519 213.6895269	5.814868909 5.786289236	0.975476518 0.403777627	5.961054728 14.33038596	2.50615E-09	9.02885E-09 2.93929E-45	
AGAP028156 AGAP006368	CPLCP14 Obp69	cuticular protein (putative) CPLCP14 odorant-binding protein 69	6.344508639 42.20555312	5.780752493 5.74398315	0.982548003 0.556557706	5.883430098 10.32055273	4.0185E-09 5.68947E-25	1.42164E-08 5.26527E-24	
AGAP001508 AGAP010833	AGAP001508 CLIPB14	nan CLIP-domain serine protease	5677.718823 350.1728028	5.67371698 5.609302809	0.63276711 0.696698509	8.966516896 8.051262835	3.06039E-19 8.19441E-16	2.14843E-18 4.75953E-15	
AGAP005101 AGAP009918	AGAP005101 AGAP009918	nan SGSS [Source:UniProtKB/TrEMBL;Acc:Q5XLG6]	828.5282682 7.330305498	5.561330369 5.546120623	0.314177259 0.960926948	17.70125053 5.771636057	4.10099E-70 7.85055E-09	1.6798E-68 2.69436E-08	
AGAP009917 AGAP005072	AGAP009917 AGAP005072	SGS4 [Source:UniProtKB/TrEMBL;Acc:Q5XLG7] nan	7.641458514 28.87051263	5.501527096 5.47858478	0.991755504 0.747639945	5.54726147 7.327838506	2.33894E-13	9.41058E-08 1.14528E-12	
AGAP011232 AGAP009916 AGAP010811	AGAP011232 nan AGAP010811	nan nan Fibrinogen C-terminal domain-containing protein [Source:UniProtKB	5.109307773 2842.248885 91.01407029	5.472165276 5.410882466 5.256865908	0.983504031 0.26518758 0.796529885	5.56394799 20.4039815 6.599709572	2.63739E-08 1.5414E-92 4.11964E-11	8.59751E-08 1.07567E-90 1.73885E-10	
AGAP010811 AGAP028060 AGAP028032	AGAP010811 AGAP028060 AGAP028032	Fibrinogen C-terminal domain-containing protein [Source:UniProtKB glucuronosyltransferase nan	891.01407029 887.3372409 11.14647247	5.226865908 5.228176685 5.22662839	0.796529885 0.245624618 0.835531452	6.599709572 21.28523083 6.255453793	4.11964E-11 1.5558E-100 3.96362E-10	1.73885E-10 1.30867E-98 1.552E-09	
AGAP028032 AGAP013201 AGAP011578	AGAP028032 AGAP013201 nan	nan nan	11.14647247 32.2763464 408.1797303	5.159542477 5.113309696	0.835531452 0.608926828 0.232704283	6.255453/93 8.473173193 21.97342322	2.38797E-17 5.172E-107	1.552E-09 1.51089E-16 5.1835E-105	
AGAP010398 AGAP000745	AGAP010398 AGAP000745	Flavin-containing monooxygenase FMO GS-OX-like 1 nan	2219.565421 12.33594826	5.04210753 5.017490393	0.295949076 0.784368753	17.03707813 6.396851448	4.35976E-65 1.58614E-10	1.51005E-63 6.39135E-10	
AGAP013059 AGAP008235	AGAP013059 AGAP008235	nan nan	312.6951851 4.826954054	4.983082365 4.979070018	0.225695342 0.993874755	22.07880018 5.009755999	5.0532E-108 5.44991E-07	5.2315E-106 1.56297E-06	
AGAP008851 AGAP013480	AGAP008851 AGAP013480	E3 ubiquitin-protein ligase mind-bomb [Source:UniProtKB/TrEMBL;A nan	3.590374652	4.958656949 4.891248243	0.145571218 1.070640044	34.06344342 4.568527277		1.8601E-251 1.27192E-05	
AGAP011576 AGAP028432	nan AGAP028432	nan nan	172.8423044 29.99478111	4.884975144 4.852627814	0.273106829 0.697149222	17.88668252 6.960673072	1.49763E-71 3.38651E-12	6.327E-70 1.54351E-11	
AGAP028138 AGAP002291	AGAP028138 AGAP002291	nan ebony Dantidase (mitashandria) processing) bata	5559.34555 1221.910971 20.20456521	4.838569559 4.821937032 4.808103681	0.154181625 0.298908838	31.38227105 16.1317981		1.4467E-213 4.64997E-57 3.25526E-18	
AGAP001767 AGAP004382 AGAP001763	AGAP001767 GSTD3 Fatp	Peptidase (mitochondrial processing) beta glutathione S-transferase delta class 3 fatty acid transporter protein 1	29.30456531 301.6395523 1430.266221	4.782964611 4.763243002	0.539067204 0.392783217 0.168815063	8.919302909 12.17711043 28.21574645	4.69232E-19 4.11608E-34 3.7483E-175	3.25526E-18 5.64448E-33 9.5439E-173	
AGAP001765 AGAP029077 AGAP007216	AGAP029077 AGAP007216	nan DE-cadherin	20.54793606 328.681905	4.731097678 4.712111296	0.610346367 0.212535955	7.75149642 22.17089008	9.08159E-15 6.56E-109	4.96274E-14 6.8669E-107	
AGAP004316 AGAP012581	AGAP004316 AGAP012581	nan	4851.502155 30.44937246	4.668543972 4.647732107	0.296069202 0.491782187	15.76842148 9.450793934	5.13164E-56	1.44746E-54 2.61602E-20	
AGAP007666 AGAP012529	AGAP007666 GALE8	calcyphosin-like protein galectin 8	10259.11802 209.4838637	4.629661893 4.614028629	0.250532256 0.248138641	18.47930466 18.59455914	3.03062E-76 3.55625E-77	1.47935E-74 1.80126E-75	
AGAP001753 AGAP005205	AGAP001753 PGRPLA	15-hydroxyprostaglandin dehydrogenase (NAD) peptidoglycan recognition protein (long)	34.74159678 4109.111356	4.54898947 4.519663807	0.497561631 0.212616761	9.142564826 21.257326		4.46443E-19 2.35137E-98	
AGAP011225 AGAP010385	AGAP011225 AGAP010385	nan nan	57.3460484 86.07016609	4.513355285 4.50518505	0.364459668 0.344460126	12.38368927 13.07897406	4.34262E-39	4.57862E-34 7.05376E-38	
AGAP010390 AGAP007684	COE120 AGAP007684	carboxylesterase Tubulointerstitial nephritis antigen	1082.615231 2986.014541	4.50345105 4.500908187	0.216708186 0.167961969 0.130433062	20.78117642 26.79718631	6.40693E-96 3.4847E-158	4.79045E-94 6.6998E-156	
AGAP013179 AGAP001509 AGAP006345	AGAP013179 AGAP001509 AGAP006345	nan nan nan	1393.535639 15.66755972 50.6959971	4.500873941 4.473477738 4.40142724	0.178477963 0.763041733 0.408312501	25.21809346 5.862690789 10.77955544	4.55426E-09	3.9831E-138 1.60515E-08 4.40287E-26	
AGAP001679 AGAP013382	nan AGAP013382	nan nan	75.51096568 4.610872597	4.393964211 4.379260006	0.371476076 0.988667687	11.82839082 4.42945599	2.78428E-32 9.44711E-06	3.56396E-31 2.36391E-05	
AGAP000667 AGAP000133	AGAP000667 AGAP000133	G_PROTEIN_RECEP_F1_2 domain-containing protein [Source:UniPro nan	26.74337643	4.375489321 4.372513068	0.821273441 0.550486435	5.327688808 7.942998761	9.94704E-08 1.97351E-15	3.06145E-07 1.11868E-14	
AGAP029075 AGAP001061	AGAP029075 AGAP001061	nan nan	6.608415866 12.8658239	4.331558838 4.323205349	0.97505347 0.69351603	4.442380822 6.233749703	8.89689E-06 4.55401E-10	2.23394E-05 1.7736E-09	
AGAP001705 AGAP002232	AGAP001705 GPR5HT2A	nan putative serotonin 5HT-2a receptor	598.5040026 4.627635348	4.270835173 4.25586234	0.189637716 0.980578749	22.52102205 4.340153551	1.42383E-05	2.7657E-110 3.47781E-05	
AGAP010818 AGAP006367	AGAP010818 AGAP006367	nan nan	263.0759335 7339.224631	4.253454758 4.186676762	0.304341039 0.12803169	13.97594874 32.70031628	1.5457E-234		Prohemocytes and Megacytes
AGAP028652 AGAP013194 AGAP028742	AGAP028652 AGAP013194	nan nan	83.33450069 26.73183862	4.180241485 4.179948626	0.305182657 0.514950267	13.69750671 8.117188975 4.456745541	4.77106E-16	1.92957E-41 2.79702E-15	
AGAP028742 AGAP010816 AGAP010709	AGAP028742 TEP3 CTL2	nan thioester-containing protein 3 C-type lectin (CTL)	5.526065886 62660.7236 6.962910679	4.171738628 4.153502512 4.149323731	0.936050441 0.220728572 0.815225457	4.450745541 18.81724002 5.089786753	8.32133E-06 5.45532E-79 3.58466E-07	2.09781E-05 2.90365E-77 1.05108E-06	AM granulocytes
AGAP012787 AGAP001004	AGAP012787 TOLL1A	nan TOLL-like receptor 1A	4.25996281	4.141323136 4.105939711	1.098656544	3.769442923 19.39720481			
AGAP004181 AGAP012748	AGAP004181 AGAP012748	nan receptor a content factor [Source:UniProtKB/TrEMBL;Acc:A0NDD8]	108.3931144 226.2312456	4.082026573 4.076905591	0.282219388 0.198811373	14.46401892 20.50640021	2.045E-47 1.88758E-93	4.37863E-46 1.34719E-91	
AGAP001048 AGAP009590	AGAP001048 AGAP009590	nan amiloride-sensitive sodium channel, other	8.569616286 25.08986149	4.073769288 4.027708717	0.777939014 0.489815124	5.236617796 8.222916195	1.63546E-07 1.98614E-16	4.9431E-07 1.19029E-15	
AGAP010617 AGAP010869	AGAP010617 AGAP010869	nan fibrinogen	5.187413678 211.8191342	4.014771016 4.01427125	1.081080162 0.504674447	3.713666346 7.954179717	1.80322E-15	0.000434229 1.0271E-14	
AGAP002591 AGAP028424 AGAP012172	AGAP002591 AGAP028424 nan	nan nan nan	68.18572522 12.44339884 61.20090705	4.009709645 3.950739816 3.942407848	0.350556533 0.655786976 0.357271542	11.43812558 6.024425553 11.03476597		3.21564E-29 6.2309E-09 2.80606E-27	
AGAP012172 AGAP004170 AGAP028574	nan AGAP004170 AGAP028574	nan nan nan	61.20090705 861.686701 25.15266406	3.942407848 3.936937407 3.914226008	0.357271542 0.203077887 0.46645047	11.03476597 19.3863422 8.391514769	2.59727E-28 1.00645E-83 4.79918E-17	2.80606E-27 6.07804E-82 2.9765E-16	
AGAP028574 AGAP012011 AGAP004837	AGAP028574 AGAP012011 nan	nan nan nan	25.15266406 608.3912712 911.9044456	3.909853698 3.905203598	0.186469643 0.209913931	20.96777594 18.60383244	1.29162E-97	2.9765E-16 9.893E-96 1.52334E-75	
AGAP004837 AGAP010387 AGAP000835	AGAP010387 AGAP000835	alanine-glyoxylate aminotransferase nan	208.9900095 14.19801452	3.898506459 3.891478334	0.71001505 0.789899311	5.490737779 4.92654985	4.00258E-08	1.28566E-07 2.35298E-06	
AGAP013005 AGAP009155	AGAP013005 AGAP009155	nan nan	48169.71659 28.75046445	3.889840306 3.875752747	0.269699084 0.429856158	14.42289031 9.016394617	3.71455E-47 1.94381E-19	7.88171E-46 1.38105E-18	
AGAP012171 AGAP011654	nan AGAP011654	nan membrane dipeptidase	322.3687888 317.542632	3.864774626 3.864620461	0.211464148 0.36441992	18.27626418 10.60485514	1.27892E-74 2.82902E-26	5.87741E-73 2.77338E-25	
AGAP006520 AGAP010855	AGAP006520 AGAP010855	Fatty acid elongase 2 solute carrier family 45, member 1/2/4	285.4705459 26.94987032	3.795738454 3.767997156	0.20123076	18.86261554 8.249629853	2.3148E-79 1.58886E-16	1.25332E-77 9.55852E-16	
AGAP010542 AGAP006986	dpr6 AGAP006986	defective proboscis extension response 6 nan putative levkekinin recenter	13.87282103 63.95069943 10.02684205	3.765043673 3.760568818	0.579086417 0.528657152	6.501695713 7.113435999 7.412663164	1.13189E-12	5.30788E-12	
AGAP010851 AGAP009050 AGAP004574	GPRLKK AGAP009050 AGAP004574	putative leukokinin receptor cyclic nucleotide gated channel, invertebrate nan	19.02684305 4.971353142 181.2982478	3.753645357 3.751865174 3.734529071	0.506382831 0.968715484 0.27437419	7.412663164 3.873031076 13.61108009	1.23788E-13 0.00010749 3.4412E-42	6.19006E-13 0.000236936 6.22257E-41	
AGAP004574 AGAP010240 AGAP012588	AGAP004574 ESP AGAP012588	nan late trypsin nan	181.2982478 7.684845367 4.070845174	3.734529071 3.70010401 3.699617854	0.27437419 0.72645855 0.907309853	5.093344983 4.077568256	3.51801E-07	6.22257E-41 1.0325E-06 0.000104929	
AGAP002588 AGAP006449 AGAP005949	AGAP012588 AGAP006449 AGAP005949	nan Dan 2-acylglycerol O-acyltransferase 2	6.577349064 1869.718015	3.699617854 3.697748192 3.689835743	0.773326834 0.154001684	4.781611122 23.9597103	4.55092E-05 1.73896E-06 7.3195E-127	4.72397E-06 9.9938E-125	
AGAP001376 AGAP009467	SRPN17 ABCG16	serine protease inhibitor (serpin) 17 ATP-binding cassette transporter (ABC transporter) family G membe	2134.989079 162.6789378	3.685525524 3.658598516	0.244477096 0.277057569	15.07513619 13.20519244	2.36029E-51 8.18902E-40	5.67252E-50 1.36065E-38	
AGAP007356 AGAP011355	AGAP007356 AGAP011355	CRAL-TRIO domain-containing protein [Source:UniProtKB/TrEMBL;Ar nan	7.428289046 1146.688915	3.650557961 3.632880017	0.796475364 0.329790955	4.583390935 11.01570544	4.57496E-06 3.21012E-28	1.1899E-05 3.44841E-27	
AGAP010294 AGAP003627	AGAP010294 AGAP003627	nan nan	8.978569735 312.5971806	3.631947615 3.591767533	0.691394661 0.332455278	5.253074433 10.80376151	1.49581E-07 3.30385E-27	4.53557E-07 3.39799E-26	
AGAP007858 AGAP007262	AGAP007858 AGAP007262	lysyl-tRNA synthetase, class II chymotrypsin-like protease	435.1658098 3.017637292	3.585353666 3.583170245	0.198879698 1.00830931	18.02775091 3.553641932	0.000379936	5.17035E-71 0.00077392	
AGAP010759 AGAP028541	AGAP010759 AGAP028541	nan nan 	9550.050842 41.48900921	3.581034892 3.576155379	0.227030083 0.389605454	15.77339376 9.178915079	4.35456E-20	1.34189E-54 3.20503E-19	Megacytes
AGAP005285 AGAP010760 AGAP005742	AGAP005285 AGAP010760 AGAP005742	nan semaphorin	388.9666566 12109.61415 54.73561392	3.566213826 3.52948473 3.529220116	0.164646555 0.223693646 0.331256398	21.65981441 15.77820738 10.65404362	4.39494E-56	4.5819E-102 1.24713E-54 1.65216E-25	
AGAP005742 AGAP003139 AGAP013487	AGAP005742 SRPN9 AGAP013487	semapnorin serine protease inhibitor (serpin) 9 nan	3098.83565 95.5750241	3.529220116 3.528515234 3.52552181	0.331256398 0.1217241 0.378350519	10.65404362 28.98781114 9.318136572	9.3726E-185	2.6757E-182	
AGAP013487 AGAP006985 AGAP007318	AGAP013487 AGAP006985 TM7318	nan nan Transmembrane protein - megacyte marker	98.6841087 7478.159662	3.525303596 3.519945262	0.378350519 0.447248609 0.22981957	7.882201363	3.21663E-15	1.80273E-14 1.52346E-51	
NUMFUU/318	6101/318	rransmemorane protein - megacyte marker	/4/8.109062	5.319945262	0.22981957	10.31012502	5.90704E-53	1.52546E-51	wiegacytes

AGAP006343 AGAP005756	PGRPS2 COEAE1D	peptidoglycan recognition protein (short) carboxylesterase	19.36251327 287.5124919	3.509206816 3.505892189	0.504347815	6.957910224 13.84413257	3.45357E-12 1.38037E-43	1.57179E-11 2.63248E-42	
AGAP003892 AGAP028094 AGAP012321	AGAP003892 AGAP028094 OBP26	solute carrier family 29 (equilibrative nucleoside transporter), memb nan odorant-binding protein 26	7735.653319 102.5874086 8.069470565	3.505463334 3.482743526 3.459364058	0.180513216 0.328566226 0.707432684	19.41942763 10.59982203 4.890025776	5.28759E-84 2.98548E-26 1.00823E-06	3.2347E-82 2.92372E-25 2.80855E-06	
AGAP000976 AGAP006603 AGAP001652	AGAP000976 AGAP006603 AGAP001652	nan nan lipase	20.96702416 253.6852551 33397.88846	3.456514724 3.454719664 3.446083482	0.483776496 0.226954278 0.120094935	7.144858731 15.22209536 28.69466134	9.00885E-13 2.52318E-52 4.4477E-181	4.26923E-12 6.35586E-51 1.2324E-178	
AGAP005440 AGAP010762	AGAP005440 nan	nan nan	11.53728419 723.8389244	3.441455479 3.438150439	0.637010503 0.21566802	5.402509792 15.94186494	6.57149E-08 3.24522E-57	2.06298E-07 9.55415E-56	
AGAP010675 AGAP008100 AGAP011063	LRIM18 AGAP008100 AGAP011063	leucine-rich immune protein (Coil-less) Spire [Source:UniProtKB/TrEMBL;Acc:A0A1S4GX95] nan	554.0630047 465.3383139 11.66403047	3.394752947 3.388809853 3.376061995	0.219684695 0.215974124 0.565508515	15.45284232 15.69081421 5.969957847	7.21887E-54 1.74799E-55 2.37315E-09	1.88914E-52 4.83674E-54 8.58251E-09	
AGAP013117 AGAP002643	AGAP013117 AGAP002643	nan nan	4832.055875 8.926780993	3.37436503 3.366014173	0.226525766 0.953295628	14.89616429 3.53092375	3.49051E-50 0.000414111	8.05982E-49 0.000838998	
AGAP008403 AGAP001005 AGAP003318	AGAP008403 AGAP001005 AGAP003318	nan nan nan	307.8027194 10.89803658 146.408358	3.346911517 3.344267139 3.33645302	0.247522516 0.744617998 0.220070341	13.5216447 4.491252087 15.16084812	1.16541E-41 7.08057E-06 6.42345E-52	2.05605E-40 1.79898E-05 1.58003E-50	
AGAP003319 AGAP028531	AGAP003319 AGAP028531	nan nan nan	10632.10269 83.38038377	3.327043033 3.324423113	0.13845288 0.237709119 0.138854208	24.03014675 13.98525695	1.3465E-127 1.91783E-44 6.3243E-126	1.8655E-125 3.74076E-43	Megacytes
AGAP009424 AGAP007290 AGAP003626	AGAP009424 AGAP007290 AGAP003626	nan nan nan	709.9146119 35.66227852 86.15910223	3.314407578 3.311507228 3.304448947	0.513620037 0.291439478	23.86969491 6.447387149 11.33837105	1.13795E-10 8.47065E-30	8.2752E-124 4.63494E-10 9.80368E-29	
AGAP013166 AGAP001648 AGAP004243	Cht5-1 CLIPB17 AGAP004243	chitinase CLIP-domain serine protease nan	464.379508 9264.846222 16.50408841	3.295251224 3.29031506 3.289421142	0.327529936 0.30899714 0.589621426	10.06091615 10.64836735 5.57886976	8.22295E-24 1.7745E-26 2.42086E-08	7.19967E-23 1.7542E-25 7.92734E-08	
AGAP004920 AGAP010027	CASPS6 AGAP010027	short caspase 6 nan	720.3876092 15.31748505	3.26116271 3.253123128	0.175039789 0.495850555	18.63097946 6.560692722	1.80196E-77 5.35584E-11	9.27666E-76 2.24056E-10	
AGAP006641 AGAP004309 AGAP011667	nan AGAP004309 AGAP011667	nan solute carrier family 22 nan	46.0072813 1105.673549 17.1722601	3.252011142 3.237728565 3.202296789	0.293969843 0.138468626 0.615962563	11.06239712 23.38239827 5.198849706	1.90926E-28 6.4555E-121 2.00526E-07	2.07464E-27 8.0022E-119 6.01641E-07	
AGAP001704 AGAP011560 AGAP005755	AGAP001704 AGAP011560 AGAP005755	isopentenyl-diphosphate delta-isomerase nan DNA bioding protoin D.ETC 2	1108.654866 7031.969228 17.09583769	3.194506374 3.186375928	0.094113214 0.119727501 0.487523736	33.94322909 26.61356748	1.5353E-252 4.7288E-156	1.0331E-249 8.25E-154	
AGAP003733 AGAP003496 AGAP006689	AGAP003733 AGAP003496 AGAP006689	DNA-binding protein D-ETS-3 nan BTB (POZ) domain containing 9	11011.69344 269.5604966	3.167032606 3.154169972 3.138907034	0.118490752 0.204997953	6.496160843 26.61954549 15.31189453	8.23956E-11 4.0323E-156 6.36816E-53	3.38382E-10 7.1676E-154 1.62147E-51	
AGAP009490 AGAP004335 AGAP006642	AGAP009490 AGAP004335 nan	Necdin-like 2 filamin nan	456.0357986 17572.09317 158.541787	3.135336635 3.132381678 3.122376973	0.100399436 0.143729188 0.201035871	31.22862801 21.79363651 15.53144199	4.3556E-214 2.6661E-105 2.12546E-54	1.7097E-211 2.6164E-103 5.65649E-53	
AGAP028005 AGAP003839	AGAP028005 AGAP003839	nan Fem-1 homolog c	24.09103098 2390.28197	3.111365845 3.10470337	0.431623752 0.075717415	7.208513975 41.0038216	5.65658E-13 0	2.71614E-12 0	
AGAP008671 AGAP000235 AGAP002677	AGAP008671 AGAP000235 AGAP002677	nan Thymosin coiled-coil domain-containing protein lobo homolog	138.1995901 39370.31323 5.832111103	3.09377269 3.090485049 3.090367103	0.215079967 0.078616245 0.726377629	14.38429032 39.31102347 4.254491025	6.49408E-47 0 2.09525E-05	1.3626E-45 0 5.01126E-05	Megacytes
AGAP029047 AGAP013197	CTL5 AGAP013197	C-type lectin nan	8.473021694 16.19845417	3.083190214 3.076212214	0.680354664 0.468490176	4.531739657 6.566225652	5.84999E-06 5.16066E-11	1.50335E-05 2.16371E-10	
AGAP007289 AGAP007287 AGAP009184	OBP46 OBP47 AGAP009184	odorant-binding protein 46 odorant-binding protein 47 nan	59.83945933 16.24857223 731.5342998	3.065679524 3.065551738 3.063042997	0.296011218 0.551290808 0.272885531	10.35663291 5.560679941 11.2246442	3.90466E-25 2.68726E-08 3.08626E-29	3.64939E-24 8.74193E-08 3.47795E-28	
AGAP011389 AGAP005713 AGAP003249	AGAP011389 AGAP005713 CLIPB3	nan nan	31.10288838 15.10544587 699.1854621	3.052289506 3.051343247	0.396559049 0.452592633	7.696935705 6.741919826	1.39368E-14 1.56307E-11	7.46015E-14 6.76733E-11	
AGAP003249 AGAP007207 AGAP028615	AGAP007207 AGAP028615	CLIP-domain serine protease nan nan	76.68301283 129.3585815	3.050823047 3.049419766 3.04496956	0.238996434 0.257618134 0.293550926	12.76514047 11.83697637 10.37288351	2.56687E-37 2.51352E-32 3.29431E-25	3.93211E-36 3.22614E-31 3.082E-24	
AGAP004707 AGAP013034 AGAP003186	para IAP8 AGAP003186	voltage-gated sodium channel inhibitor of apoptosis 8 upstream stimulatory factor	55.99610076 19.73609989 79.93399687	3.042386927 3.020611559 3.004181712	0.302148911 0.390511598 0.264086101	10.06916398 7.735011126 11.37576608	7.56181E-24 1.03394E-14 5.52159E-30	6.63313E-23 5.62399E-14 6.48615E-29	
AGAP003495 AGAP006215	AGAP003495 GPRMTH1	nan methuselah receptor 1	7.878124946 282.8197377	2.999308208 2.980383514	0.664596658 0.199087966	4.512975156 14.97018413	6.39245E-06 1.15002E-50	1.63158E-05 2.71538E-49	
AGAP010571 AGAP003656 AGAP029166	AGAP010571 AGAP003656 AGAP029166	nan Terribly reduced optic lobes, isoform B [Source:UniProtKB/TrEMBL;A nan	102.0622474 33382.07926 14302.24015	2.972367263 2.969547437 2.953223582	0.209646622 0.233294818 0.236675158	14.17798785 12.72873295 12.4779618	1.25391E-45 4.09429E-37 9.84752E-36	2.53499E-44 6.22135E-36 1.43169E-34	
AGAP009576 AGAP001169	AGAP009576 Gr49	collagen alpha 1 gustatory receptor 49	5.519976201 34.47423754	2.949676701 2.94746034	0.807847551 0.330978616	3.651278879 8.905289344	0.000260938 5.3247E-19	0.000545321 3.68311E-18	
AGAP005729 AGAP006690 AGAP008366	AGAP005729 AGAP006690 TEP2	cyclin-dependent kinase 14 BTB (POZ) domain containing 9 thioester-containing protein 2	722.6162693 6099.788427 2622.051057	2.94622387 2.943786111 2.943343731	0.136867615 0.171740485 0.0858671	21.52608467 17.14089784 34.27789849	8.872E-103 7.35068E-66 1.6754E-257	7.9603E-101 2.64316E-64 1.5784E-254	
AGAP010272 AGAP000786	IR25a AGAP000786	ionotropic receptor IR25a ZP domain-containing protein [Source:UniProtKB/TrEMBL;Acc:Q7QE	24.4642251 22.87413715	2.942145602 2.929738135	0.369958492 0.448887659	7.952637038 6.52666224	1.82583E-15 6.72515E-11	1.03934E-14 2.78617E-10	
AGAP002802 AGAP010002 AGAP011294	AGAP002802 AGAP010002 DEF1	neural cell adhesion molecule nan defensin anti-microbial peptide	308.3665291 7.904902055 9881.820375	2.924663628 2.924369934 2.922360646	0.224796015 0.632889224 0.52534384	13.01030017 4.620666336 5.562758	1.06921E-38 3.8251E-06 2.65544E-08		AM granulocytes
AGAP012991 AGAP003120 AGAP013430	AGAP012991 AGAP003120 AGAP013430	Fascin [Source:UniProtKB/TrEMBL;Acc:F5HLZ2] nan nan	1219.272325 11.14672152 97.31632396	2.912953405 2.910909881 2.905915283	0.179343014 0.538088499 0.296411448	16.2423578 5.409723281 9.803654009	2.5301E-59 6.31222E-08 1.08585E-22	7.73898E-58 1.98423E-07 9.02894E-22	
AGAP027980 AGAP009212	ABCC10 SRPN6	ATP-binding cassette transporter (ABC transporter) family C membe serine protease inhibitor (serpin) 6	393.4229794 4770.187149	2.903222783 2.896154957	0.16422288 0.163756954	17.67855233 17.68569143	6.13514E-70 5.40539E-70	2.49134E-68 2.20451E-68	
AGAP011391 AGAP011390 AGAP005194	AGAP011391 AGAP011390 AGAP005194	nan nan nan	67.78722763 14.99695138 10.23566919	2.890477594 2.875637539 2.867844868	0.296254065 0.573188903 0.570150093	9.75675252 5.0169107 5.029982282	1.72594E-22 5.2509E-07 4.90525E-07	1.41761E-21 1.50911E-06 1.41365E-06	
AGAP009049 AGAP010241 AGAP012536	Cht16 AGAP010241 AGAP012536	Chitinase [Source:UniProtKB/TrEMBL;Acc:A0A1S4GZY6] gamma-glutamyltranspeptidase	18.12612964 43.78029184 13.33931205	2.866043358 2.850909362 2.837957243	0.581910521 0.310313239 0.543014631	4.925230346 9.187198613 5.226299774	8.4261E-07 4.03205E-20 1.72936E-07	2.3668E-06 2.97229E-19 5.22022E-07	
AGAP000628 AGAP012945	AGAP000628 AGAP012945	nan CASPS4 protein	95.15290212 109.8700581	2.834890127 2.834189324	0.327718106 0.222741975	8.650392138 12.72409172	5.13228E-18 4.34498E-37	3.37884E-17 6.58104E-36	
AGAP013081 AGAP005547 AGAP008368	AGAP013081 AGAP005547 TEP14	nan alpha-crystallin B chain thioester-containing protein 14	96.77306728 52.28380792 9679.75662	2.833323638 2.828605593 2.826859645	0.241521745 0.307739465 0.179487146	11.7311327 9.191559465 15.74964956	8.82695E-32 3.87187E-20 6.9063E-56	1.1029E-30 2.86318E-19 1.93069E-54	
AGAP010861 AGAP007917	nan ABCC12	nan ATP-binding cassette transporter (ABC transporter) family C membe	2139.682887 7223.949465	2.826063415 2.813232634	0.268617822 0.147885435	10.52075918 19.0230541	6.93128E-26 1.09892E-80	6.65643E-25 6.27449E-79	
AGAP013218 AGAP009549 AGAP013221	AGAP013218 AGAP009549 AGAP013221	sodium-independent sulfate anion transporter nan nan	1458.174905 306.909315 4538.405584	2.812393112 2.810618837 2.794497608	0.137755861 0.221389088 0.279013629	20.41577819 12.69538105 10.01563119	1.21088E-92 6.27239E-37 1.30129E-23	8.51319E-91 9.43965E-36 1.12266E-22	
AGAP010479 AGAP004483	AGAP010479 AGAP004483 AGAP010417	nan Lethal giant larvae	459.3921529 5028.816532 2743.259669	2.794359145 2.775249543 2.766584334	0.137435605 0.149955674 0.159767341	20.33213409 18.50713265 17.31633212	6.68316E-92 1.80876E-76 3.54229E-67	4.49729E-90 8.92164E-75 1.29852E-65	
AGAP010417 AGAP000868 AGAP010328	AGAP000868 AGAP010328	tetratricopeptide repeat protein 39B beta-1,4-mannosyltransferase egghead protein nan	4835.104603 36.40248963	2.751447317 2.748746522	0.202379799 0.366021245	13.59546422 7.509800489	4.26049E-42 5.92175E-14	7.65994E-41 3.01724E-13	
AGAP006917 AGAP006442 AGAP009460	Gr55 AGAP006442 AGAP009460	gustatory receptor 55 nan c-Jun N-terminal kinase	63.2237979 175.4100797 258.877279	2.74278623 2.742217952 2.732183301	0.343766662 0.326780091 0.177903847	7.978627747 8.391631029 15.35764034	1.47969E-15 4.79444E-17 3.14826E-53	8.45884E-15 2.97552E-16 8.10377E-52	
AGAP006342 AGAP007685	PGRPS3 AGAP007685	peptidoglycan recognition protein (short) nan	17.74977137 1642.6336	2.729041906 2.719749988	0.702853207 0.128717413	3.882804945 21.12961975	0.000103258 4.2496E-99	0.00022841 3.33625E-97	
AGAP007203 AGAP013360 AGAP005162	AGAP007203 AGAP013360 AGAP005162	DE-cadherin nan nan	681.3832307 57.65098178 2522.373747	2.719236461 2.705703525 2.702333581	0.148617641 0.43471435 0.191957742	18.29686195 6.224095252 14.07775251	8.76545E-75 4.84343E-10 5.20386E-45	4.048E-73 1.87855E-09 1.02779E-43	
AGAP009984 AGAP001676 AGAP005100	AGAP009984 AGAP001676	cell cycle control protein 50A actin, cytoplasmic	722.5773174 14.05968558 4178.014177	2.691292746 2.67556056 2.667988174	0.1492946 0.684284209 0.082652298	18.02672537 3.910013596 32.27966105	1.20203E-72	5.24275E-71 0.000205452 6.6929E-226	
AGAP007080 AGAP004281	Vps60 AGAP007080 AGAP004281	vacuolar protein sorting 60 hexosaminidase nan	1438.181274 17.30103525	2.651861768 2.65113093	0.202725883 0.48407829	13.08102214 5.476657365	4.22717E-39 4.33435E-08	6.8781E-38 1.38608E-07	
AGAP005408 AGAP013066 AGAP005246	AGAP005408 AGAP013066 SRPN10	nan nan serine protease inhibitor (serpin) 10	14.93859068 12.67584015 11070.86802	2.643982323 2.629542872 2.628637134	0.425276781 0.493623819 0.086237398	6.217086002 5.327017808 30.481406	5.06472E-10 9.98384E-08 4.5966E-204	1.95954E-09 3.06977E-07 1.6039E-201	Megacytes
AGAP000784 AGAP000307	AGAP000784 AGAP000307	abhydrolase domain containing 4 Integrin alpha-PS1	3941.958531 2265.810929	2.627781415 2.624431837	0.086688661 0.105589431	30.31286183 24.85506173	7.7597E-202 2.2797E-136	2.6109E-199 3.3558E-134	
AGAP007036 AGAP006427 AGAP008940	APL1A ABCC7 AGAP008940	Anopheles Plasmodium-responsive Leucine-Rich Repeat 1A ATP-binding cassette transporter (ABC transporter) family C membe solute carrier family 6 (neurotransmitter transporter, GABA) membe	1456.477362 5329.59177 506.7084941	2.623653516 2.623129975 2.622706075	0.264571135 0.199548049 0.200646081	9.916627985 13.14535516 13.07130473	3.52463E-23 1.80954E-39 4.80345E-39	2.9888E-22 2.96481E-38 7.77548E-38	
AGAP012916 AGAP013027 AGAP005527	AGAP012916 AGAP013027 AGAP005527	nan Protein toll	9061.550348 9828.824707 28.86170522	2.615506007 2.611676022 2.601288169	0.181322741 0.210977531 0.399993443	14.42458894 12.3789297 6.503327037	3.62423E-47 3.39845E-35 7.85627E-11	7.70741E-46 4.84369E-34 3.23488E-10	Granulocytes and Megacytes Megacytes
AGAP007156 AGAP001623	AGAP007156 AGAP001623	PBPe domain-containing protein [Source:UniProtKB/TrEMBL;Acc:A0/ nan nan	7.99232791 1089.6557	2.59173468 2.586344477	0.624807418 0.15900407	4.148053635 16.26590109	3.35314E-05 1.72313E-59	7.84648E-05 5.28783E-58	
AGAP001647 AGAP011479 AGAP013496	AGAP001647 AGAP011479 Cht5-3	nan hyaluronoglucosaminidase chitinase	13.90756209 59.91269357 44.57409181	2.584874496 2.583249954 2.580734555	0.700825196 0.256239988 0.339742141	3.688329859 10.08136934 7.596156741	0.000225731 6.67888E-24	0.000475965 5.87504E-23 1.58956E-13	
AGAP011653 AGAP003247	AGAP011653 CLIPB19	membrane dipeptidase CLIP-domain serine protease	16.29744916 1759.954841	2.574841815 2.570395939	0.594793929 0.274299017	4.328964516 9.370780717	1.49812E-05 7.1998E-21	3.6498E-05 5.51458E-20	
AGAP028842 AGAP013073 AGAP000163	SSU_rRNA_euka AGAP013073 GSTMS2	Eukaryotic small subunit ribosomal RNA [Source:RFAM;Acc:RF01960] nan glutathione transferase microsomal 2	90.2435724 24.81522149 163.6791333	2.55653131 2.55620036 2.547582272	0.711067906 0.336846785 0.223372999	3.595340597 7.588614392 11.40505916	0.000323967 3.23344E-14 3.94509E-30	0.000666834 1.68114E-13 4.66332E-29	
AGAP003352 AGAP007291	AGAP003352 IAP4	Stomatin (EPB72)-like 3 inhibitor of apoptosis 4	5258.622442 154.2438589	2.546156399 2.541840917	0.186343329 0.260407564	13.66379149 9.761010314	1.67054E-42 1.65498E-22	3.05003E-41 1.3629E-21	Megacytes
AGAP002326 AGAP004784 AGAP012696	AGAP002326 AGAP004784 AGAP012696	nan fatty acyl-CoA reductase 2 Sulfotransferase (Sult)	10.01928458 1301.202247 300.8656569	2.541710628 2.537466672 2.523311391	0.605077704 0.135168247 0.235357097	4.200635074 18.77265355 10.72120377	2.66167E-05 1.26411E-78 8.09429E-27	6.29724E-05 6.69054E-77 8.16449E-26	
AGAP012090 AGAP003790	ANXB9	annexin B9	7555.362031	2.513237969	0.223011904	11.26952386		2.11143E-28	

AGAP012384	AGAP012384	nan	14.70484317	2.510804297	0.40542433	6.193028178	5.90192E-10	2.26669E-09		
AGAP000651 AGAP002270 AGAP007821	Actin5C CLIPB7 AGAP007821	Actin-5C [Source:UniProtKB/Swiss-Prot;Acc:P84185] CLIP-domain serine protease nan	194466.2946 659.568654 2115.812727	2.509401475 2.507618185 2.502605815	0.070345517 0.252318085 0.347010852	35.6725146 9.938321234 7.211894963	1.055E-278 2.83566E-23 5.51785E-13	1.66E-275 2.41543E-22 2.65765E-12	Granulocytes and Megacytes	
AGAP009745 AGAP006103	AGAP009745 AGAP006103	Sugar transporter ERD6-like 4 nan	1788.51531 1120.036332	2.501737477 2.497956821	0.183735738 0.229281758	13.61595466 10.89470372	3.21912E-42 1.22164E-27	5.83217E-41 1.27312E-26		
AGAP012677 AGAP006347 AGAP009581	AGAP012677 AGAP006347 AGAP009581	nan potassium voltage-gated channel KQT-like subfamily, invertebrate collagen type I/II/III/V/XI/XXIV/XXVII alpha	683.9754154 1199.507309 15.296804	2.49692911 2.494910391 2.487902201	0.239766617 0.18347811 0.442494923	10.41399817 13.59786399 5.62244236	2.14039E-25 4.123E-42 1.88276E-08	2.02456E-24 7.42691E-41 6.23463E-08		
AGAP003381 AGAP007346 AGAP002262	LYSC5 AGAP002262	Conger type (mm) (7A(7AN7/AN7/AN7) C-type (sysozyme Adenylate cyclase 8 [Source:UniProtKB/TrEMBL;Acc:A0A1S4GF11]	26.59299175 517.9406016	2.48381085 2.482252938	0.358168297 0.239223687	6.934759072 10.37628409	4.06914E-12 3.17909E-25	1.84216E-11 2.98309E-24		
AGAP001021 AGAP005818	AGAP001021 AGAP005818	dihydropyrimidine dehydrogenase (NADP+) nurim homolog	6635.508297 195.8631516	2.481232948 2.480852224	0.185252959 0.165012198	13.3937561 15.03435656	6.57687E-41 4.37277E-51	1.13689E-39 1.04558E-49		
AGAP008133 AGAP004636 AGAP000998	AGAP008133 AGAP004636 AGAP000998	Retinaldehyde binding protein 1 [Source:UniProtKB/TrEMBL;Acc:A0/ sodium-independent sulfate anion transporter insulin-like growth factor 2 receptor	11.84481105 404.5886291 366.6429897	2.480216817 2.479725353 2.475052802	0.483138189 0.134483713 0.142281523	5.13355573 18.43885254 17.39546185	2.84319E-07 6.40869E-76 8.9304E-68	8.40467E-07 3.0493E-74 3.35192E-66		
AGAP010392 AGAP010175	AGAP010392 AGAP010175	alumenin adenyiyi cyclase-associated protein 1	17468.3635 10435.9944	2.466793358 2.460454195	0.161961667 0.092042101	15.23072349 26.73183437	2.21131E-52 2.0084E-157	5.58519E-51 3.71E-155	Megacytes	
AGAP006732 AGAP011276 AGAP007035	nan AGAP011276 APL1B	nan nan Anopheles Plasmodium-responsive Leucine-Rich Repeat 1B	7.476875059 103.0668338 1019.493622	2.45410562 2.445281652 2.443761697	0.695502323 0.229280843 0.276147234	3.528536914 10.66500637 8.849488238	0.000417864 1.48389E-26 8.79215E-19	0.000846237 1.4731E-25 5.98057E-18		
AGAP008219 AGAP000889	CYP6Z1 AGAP000889	Coactosin-like protein	96.79059141 14892.6759	2.441510767 2.434451398	0.318381888 0.081819665	7.668497666 29.75386672	1.74023E-14 1.5455E-194	9.25207E-14 4.6968E-192		
AGAP013184 AGAP009991	CLIPB36 AGAP009991	CLIP-domain serine protease Cyclophilin B precursor	1066.00722 8.154525466	2.426717555 2.424712391	0.273967982 0.642102818	8.857668471 3.776205809	8.17053E-19 0.000159235	5.57787E-18 0.000342893		
AGAP005170 AGAP010427 AGAP027986	AGAP005170 AGAP010427 AGAP027986	nan serine palmitoyltransferase nan	542.5839387 1434.380115 5.970193469	2.42262086 2.421769689 2.42116634	0.178555649 0.140631482 0.663101131	13.56787576 17.22067963 3.651277649	6.20957E-42 1.85794E-66 0.000260939	1.1017E-40 6.70637E-65 0.000545321		
AGAP010763 AGAP006455	AGAP010763 AGAP006455	nan nan	171.5979988 16.77499917	2.413536367 2.409577183	0.287441286 0.400094243	8.396623872 6.022524	4.59499E-17 1.71718E-09	2.8555E-16 6.29967E-09		
AGAP007033 AGAP010641 AGAP006891	APL1C AGAP010641 AGAP006891	Anopheles Plasmodium-responsive Leucine-Rich Repeat 1C nan NADH dehydrogenase (ubiquinone) Fe-S protein 2	11735.16759 1925.659844 11.60807987	2.407308159 2.401682245 2.399193682	0.261412809 0.138090315 0.477958742	9.208837799 17.39211214 5.019666909	3.29675E-20 9.46799E-68 5.17612E-07	2.4398E-19 3.5396E-66 1.48853E-06		
AGAP010295 AGAP013492	AGAP010295 AGAP013492	nan glucose dehydrogenase (acceptor)	87.26083349 8.615409134	2.396442608 2.394040751	0.352047721 0.573053872	6.807152739 4.177688813	9.95492E-12 2.94486E-05	4.3784E-11 6.93415E-05		
AGAP009194 AGAP010636	GSTE2 AGAP010636	glutathione S-transferase epsilon class 2 nan	1135.33667 212.8105952	2.388029203 2.38787568	0.115530754 0.221887261 0.135060000	20.67007369 10.7616619	6.44178E-95 5.22198E-27	5.31278E-26	Granulocytes	
AGAP004593 AGAP002644 AGAP006826	AGAP004593 AGAP002644 AGAP006826	EH domain-containing protein 1 phospholipid-translocating ATPase integrin alpha-ps	5308.523884 1290.995957 8461.448649	2.387364869 2.387018549 2.384955984	0.135960009 0.156822506 0.157677386	17.55931679 15.22114786 15.12554234	5.04791E-69 2.56E-52 1.09892E-51	1.95705E-67 6.43139E-51 2.68906E-50		
AGAP008313 AGAP007286	AGAP008313 Obp48	nan odorant-binding protein 48	146.6222392 95.08677734	2.384647207 2.376598998	0.197837156 0.271125081	12.05358617 8.765692166	1.85692E-33 1.85633E-18	2.48848E-32 1.2465E-17		
AGAP011666 AGAP003878 AGAP002536	AGAP011666 AGAP003878 AGAP002536	nan nan nan	49.21896753 37837.14551 1726.082374	2.374004061 2.367149181 2.365798027	0.312428533 0.086603722 0.548850053	7.598550739 27.33311137 4.31046333	2.99465E-14 1.7147E-164 1.62913E-05	1.5613E-13 3.6714E-162 3.94754E-05	Oenocytes	
AGAP003796 AGAP002165	AGAP003796 nan	cyclin-dependent kinases regulatory subunit 1 nan	77.15966343 9.072117212	2.363815336 2.350037526	0.229968024 0.530424579	10.278887 4.430483838	8.77349E-25 9.40219E-06	7.95525E-24 2.35392E-05		
AGAP012429 AGAP001678 AGAP002877	NMDAR2 nan AGAP002877	ionotropic receptor NMDAR2 nan Tetratricopeptide repeat protein 30 homolog [Source:UniProtKB/Sw	24.05147051 1197.097733 18.09844722	2.348667404 2.343244202 2.340862278	0.379972206 0.21876871 0.361282961	6.181155802 10.71105738 6.479304403	6.3634E-10 9.03242E-27 9.21464E-11	2.43499E-09 9.07719E-26 3.77604E-10		
AGAP002877 AGAP008835 AGAP006745	CLIPC1 AGAP002877 AGAP006745	CLIP-domain serine protease nan	35.05362748 4198.803551	2.338817255 2.338674916	0.339891883 0.15043346	6.881062391 15.54624159	5.94078E-12 1.68721E-54	2.65882E-11 4.54148E-53	Megacytes	
AGAP009098 AGAP011064	AGAP009098 AGAP011064	Protein-glutamine gamma-glutamyltransferase E nan	6078.06949 326.4754085	2.330846338 2.30196808	0.139367798 0.148222163	16.72442542 15.5305255	8.70113E-63 2.15606E-54	2.8662E-61 5.72175E-53	Megacytes	
AGAP011530 AGAP010160 AGAP010260	AGAP011530 AGAP010160 AGAP010260	nan myosin I nan	28.33839906 7761.456702 14.24210831	2.296811726 2.295088071 2.294109402	0.326839474 0.087350529 0.39661208	7.027338835 26.27446115 5.784265079	2.1051E-12 3.7563E-152 7.283E-09	9.7264E-12 6.4343E-150 2.50687E-08		
AGAP005520 AGAP010774	AGAP005520 AGAP010774	cytochrome b-561 nan	172.0419043 101.6516555	2.281209432 2.276634432	0.203018804 0.294695567	11.23644404 7.725377251	2.70042E-29 1.11523E-14	3.0541E-28 6.03824E-14		
AGAP007651 AGAP002811 AGAP001761	AGAP007651 CLIPD4 AGAP001761	growth arrest and DNA-damage-inducible protein CLIP-domain serine protease [Source:UniProtKB/TrEMBL;Acc:A0A15c coramide supthetace	473.1325499 16.51541341 1899.92071	2.264883499 2.263256704 2.259442539	0.227178005 0.377785221 0.172869761	9.969642523 5.990855598 13.07020107	2.06972E-23 2.0874E-09	1.76941E-22 7.61634E-09 7.87559E-28		
AGAP001761 AGAP012802 AGAP000812	AGAP012802 AGAP000812	ceramide synthetase nan Calcium binding protein	117.2076668 885.5706431	2.259442539 2.250775294 2.24680094	0.172869761 0.312326253 0.098873996	13.07020107 7.206487686 22.72388125	4.87365E-39 5.74135E-13 2.6017E-114	7.87559E-38 2.75544E-12 2.8836E-112		
AGAP010056 AGAP009154	AGAP010056 ARC-P34	hexosaminidase actin-related protein 2/3 complex subunit 2	1842.521798 7240.757708	2.246490786 2.243759331	0.236944089 0.116223402	9.481100788 19.30557272	2.51615E-21 4.82178E-83	1.98033E-20 2.87506E-81		
AGAP028157 AGAP006270 AGAP007887	AGAP028157 AGAP006270 AGAP007887	nan fyn-related kinase nan	4114.355096 1025.707773 42.77086196	2.241755919 2.234811234 2.231869475	0.143207911 0.154332825 0.254236509	15.65385536 14.48046604 8.778713509	3.12689E-55 1.61002E-47 1.65355E-18	3.48689E-46 1.11431E-17	Granulocytes, Dividing granulocyt	es and wegacytes
AGAP000204 AGAP004372	AGAP000204 AGAP004372	nan elongation of very long chain fatty acids protein 1	23.88038773 1966.839537	2.230134227 2.227772939	0.459672195 0.125738478	4.851575216 17.71751155	1.22485E-06 3.07204E-70	3.38197E-06 1.26937E-68		
AGAP004737 AGAP003716 AGAP011790	AGAP004737 twf CLIPA2	Rhomboid-4, isoform B Twinfilin [Source:UniProtKB/Swiss-Prot;Acc:Q7QG28] CLIP-domain serine protease	1049.272881 167.7877541 3495.717731	2.221631193 2.21446621 2.214259384	0.120849602 0.154420246 0.266506231	18.38343815 14.34051731 8.308471353	1.78301E-75 1.22142E-46 9.69428E-17	8.39888E-74 2.54579E-45 5.90749E-16		
AGAP001424 AGAP008052	AGAP001424 SAP2	heat shock protein 90kDa beta sensory appendage protein 2	12691.79985 73.9829377	2.210098739 2.205111504	0.133106634 0.504938289	16.60397142 4.367091094	6.52287E-62 1.25912E-05	2.09734E-60 3.09475E-05		
AGAP004853 AGAP010862 AGAP028566	AGAP004853 nan AGAP028566	Ral GEF with PH domain and SH3-binding motif 1 nan nan	3043.468304 1779.552611 59.29647005	2.202453717 2.200882081 2.197113336	0.078606414 0.25857126 0.376133612	28.01875307 8.511704201 5.841310824	9.6025E-173 1.71395E-17 5.17917E-09	2.3807E-170 1.09695E-16 1.81184E-08		
AGAP004163 AGAP008176	GSTD7 AGAP008176	glutathione S-transferase delta class 7 dipeptidyl-peptidase 4	1846.751146 7.106160326	2.193339829 2.19163709	0.104345344 0.577323251	21.02000675 3.79620444	4.30372E-98 0.000146928	3.35086E-96 0.000317553		
AGAP008016 AGAP007347 AGAP011282	AGAP008016 LYSC1 AGAP011282	acyl-CoA oxidase C-type lysozyme Fatty acid 2-hydroxylase [Source:UniProtKB/TrEMBL;Acc:A0A1S4H68	578.9547419 5361.98254 106.8653016	2.18355879 2.181613896 2.176193005	0.163172805 0.242153177 0.22757132	13.38187932 9.009230936 9.562685688	7.71711E-41 2.07507E-19 1.1474E-21	1.33156E-39 1.46986E-18 9.16848E-21	AM granulocytes	
AGAP001022 AGAP004717	AGAP011282 AGAP001022 AGAP004717	nan nan	17.66041077 13.75067012	2.169505972 2.16622655	0.355300312 0.481022941	6.106118967 4.50337471	1.02083E-09 6.68828E-06	3.83462E-09 1.70436E-05		
AGAP010530 AGAP005749	CLIPE4 GSTO1 AGAP028448	CLIP-domain serine protease [Source:UniProtKB/TrEMBL;Acc:A0A15/ glutathione S-transferase omega class 1	5775.541263 4862.243234 16.04905571	2.162472443 2.161826025 2.160657777	0.182785362 0.063184882 0.370407885	11.83066532 34.21429221 5.833185157	2.70985E-32 1.4823E-256	3.4734E-31 1.1637E-253 1.89954E-08	Dividing granulocytes	
AGAP028448 AGAP013358 AGAP008407	AGAP028448 AGAP013358 TEP13	nan nan thioester-containing protein 13	7.400413525	2.157689653 2.151160929	0.540810451 0.20890573	3.989733644 10.29728065	5.43792E-09 6.61475E-05 7.24813E-25	0.000149946 6.63602E-24		
AGAP010057 AGAP007876	AGAP010057 AGAP007876	nicotinic acetylcholine receptor, beta-2 subunit nan	8.909378628 35.40621495	2.148743804 2.142008732	0.533606387 0.269750402	4.026832989 7.940706365	5.65332E-05 2.01033E-15	0.000128932 1.13818E-14		
AGAP013732 AGAP010772 AGAP001175	AGAP013732 AGAP010772 GPRCAL2	nan nan putative calcitonin receptor 2	114.3835523 74.42844502 44.37738034	2.14196842 2.131014491 2.130429032	0.248318866 0.251900239 0.275808013	8.625878716 8.459755717 7.724318851	6.36024E-18 2.67938E-17 1.12453E-14	4.15821E-17 1.69185E-16 6.07814E-14		
AGAP008599 AGAP009091	AGAP008599 AGAP009091	nan aromatic-L-amino-acid decarboxylase	22.04010987 617.4251181	2.129767992 2.124272653	0.346934853 0.355365929	6.13881244 5.977704888	8.31407E-10 2.26303E-09	3.15325E-09 8.21581E-09		
AGAP010281 AGAP010457 AGAP009595	GPRGBB1 AGAP010457 AGAP009595	Putative GABA-B receptor 1 [Source:UniProtKB/TrEMBL;Acc:A0A1S4 thymidylate synthase radium (natrocium transporting ATDace subunit bota	36.83674083 944.988603	2.121555947 2.121360635	0.258337054 0.159232595 0.104448969	8.212356367 13.32240195 20.27131467	2.16889E-16 1.715E-40	1.29734E-15 2.9217E-39		
AGAP009595 AGAP000562 AGAP008149	AGAP000562 AGAP008149	sodium/potassium-transporting ATPase subunit beta nan Protein phosphatase 1B (formerly 2C) [Source:UniProtKB/TrEMBL;Ac	3805.376478 9218.890892 801.9505509	2.117317925 2.116685642 2.115960491	0.162448238 0.160443742	20.27131467 13.02990829 13.18817718	2.30419E-91 8.2707E-39 1.02637E-39	1.50748E-89 1.3274E-37 1.69639E-38		
AGAP028513 AGAP004164	AGAP028513 GSTD1-4	nan glutathione S-transferase delta class 1	59.0244424 9459.91605	2.114564177 2.110874418	0.407679322 0.146147076	5.186832056 14.44349405	2.13901E-07 2.75513E-47	6.40549E-07 5.88574E-46	Granulocytes	
AGAP001534 AGAP005814 AGAP004836	AGAP001534 AGAP005814 nan	nan ecdysoneless homolog nan	11.40408659 734.854626 650.0710152	2.110162853 2.099993164 2.098146961	0.508809793 0.080076655 0.175847135	4.147252827 26.22478643 11.93165279	3.36488E-05 1.3864E-151 8.09501E-33	7.87201E-05 2.3323E-149 1.05481E-31		
AGAP005448 AGAP012056	AGAP005448 AGAP012056	B9 domain-containing protein 2 cofilin	99.60549667 21864.66673	2.095463832 2.09271144	0.290572621 0.074059359	7.211497852 28.25721795	5.53397E-13 1.1605E-175	2.66405E-12 3.0369E-173	Granulocytes and Megacytes	
AGAP012317 AGAP009528 AGAP009211	AGAP012317 AGAP009528 AGAP009211	nan nan nan	27.02636328 517.7739376 10.53782511	2.090756579 2.08733478 2.086759309	0.294743093 0.118753804 0.487911215	7.093487945 17.57699296 4.276924252	1.30773E-12 3.69669E-69 1.89493E-05	6.10513E-12 1.44508E-67 4.56554E-05		
AGAP008245 AGAP002461	AGAP009211 AGAP008245 AGAP002461	nan nan nan	10.53782511 44.13685542 707.2169162	2.084210574 2.083713242	0.251736754 0.147056478	8.279325676 14.16947606	1.23875E-16 1.41553E-45	7.49053E-16 2.8495E-44		
AGAP013079 AGAP003838	AGAP013079 AGAP003838	nan nan aan	1464.396434 8.749472898	2.081746303 2.080685019	0.133219553 0.533941455 0.260382056	15.62643213 3.896841125 7.722826152	4.80992E-55 9.74555E-05	1.30589E-53 0.000216132		
AGAP003248 AGAP008551 AGAP004397	AGAP003248 AGAP008551 AGAP004397	nan mothers against decapentaplegic homolog 1 alpha-1,6-mannosyl-glycoprotein beta-1,2-N-acetylglucosaminyltran	1059.751232 487.1543997 573.8103307	2.079895508 2.066465676 2.064323208	0.269283056 0.121255416 0.10145681	7.723826152 17.04225469 20.34681765	1.12889E-14 3.99046E-65 4.95411E-92	6.0982E-14 1.38724E-63 3.35775E-90		
AGAP028537 AGAP010026	AGAP028537 AGAP010026	nan phospholipid-translocating ATPase	11.17762809 1565.02341	2.054944515 2.0488596	0.454772595 0.194429848	4.51861994 10.53778326	6.2244E-06 5.78463E-26	1.59089E-05 5.58944E-25		
AGAP009221 AGAP003758 AGAP003689	SRPN5 AGAP003758 CLIPC7	serine protease inhibitor (serpin) 5 nan CLIP-domain serine protease [Source:UniProtKB/TrEMBL;Acc:A0A154	2214.441769 270.257497 1211.441982	2.047353148 2.041893372 2.04098826	0.174240138 0.194482168 0.356864366	11.75018094 10.49912898 5.719226844	7.04678E-32 8.71808E-26 1.0701E-08	8.83991E-31 8.34686E-25 3.62771E-08		
AGAP011938 AGAP000748	AGAP011938 AGAP000748	lamin Muscular protein 20	3921.036628 9.564759859	2.033845313 2.033725044	0.120428121 0.465122407	16.88845846 4.372451238	5.4714E-64 1.22859E-05	1.85417E-62 3.02208E-05		
AGAP004958 AGAP008670	AGAP004958 AGAP008670	ethanolaminephosphotransferase nan	294.4964352 1126.615038	2.033487138 2.031506182	0.13376219 0.150608881	15.20225657 13.48862147	3.41646E-52 1.82481E-41	8.47013E-51 3.19545E-40		
AGAP011562 AGAP012386 AGAP009828	Oseg4 AGAP012386 AGAP009828	outer segment 4 nan nan	87.84653089 68937.7028 15.00615373	2.016660354 2.006246014 2.004345543	0.214531796 0.190819364 0.575368838	9.40028654 10.51384918 3.483583768	5.44147E-21 7.45858E-26 0.000494748	4.18482E-20 7.15553E-25 0.000992552		
AGAP003828 AGAP001886	AGAP003828 AGAP001886	nan	2720.981628	2.004081796	0.117050849	17.12146308	1.02662E-65	3.67025E-64		

Table S2.

ccesion Number	nes by Cactus Kno Name		baseMean	log2FoldChange	lfcSE	stat	pvalue	padj	Hemocyte type
5AP004978	PPO9	prophenoloxidase 9	23777.8002	-7.931905616			0) Oenocytoids
GAP028406	AGAP028406	nan	7750.25117	-7.799283944		-34.657	3.5436E-263		Oenocytoids
GAP002867	CYP6P4	cytochrome P450	25.5488877	-7.715952754	0.9071	-8.5057	1.80456E-17	1.15182E-16	5
GAP000144	AGAP000144	progestin and adipoQ receptor family member 3	499.855567	-7.69138119	0.3774	-20.382	2.43118E-92	1.68413E-90)
GAP006000	CPR25	cuticular protein RR-1 family 25	15.7863562	-7.610463392	0.9184	-8.2864	1.16761E-16	7.07401E-16	5
GAP003581	AGAP003581	D-xylulose reductase A	1106.31964	-7.122975868	0.2636	-27.026	7.223E-161	1.4793E-158	3
GAP007990	AGAP007990	glucosyl/glucuronosyl transferases	52.8642935	-6.975944305	1.2596	-5.5381	3.05766E-08	9.89565E-08	3
GAP008880	AGAP008880	nan	35.973525	-6.738191478			1.01035E-21	8.08712E-21	L
GAP006136	AGAP006136	monocyte to macrophage differentiation factor 2	330.163699	-6.442614237			1.76868E-71	7.4387E-70	
GAP003571	AGAP003571	threonine dehydratase	1317.19158	-6.372713602			1.8004E-232	9.9772E-230	
GAP000210	AGAP000210	triacylglycerol lipase	1077.16794	-6.324830509			6.0342E-170	1.4212E-167	
GAP005752	AGAP005752	glucosyl/glucuronosyl transferases	2189.21022	-6.213122667			1.1956E-115	1.408E-113	
GAP006327	LRIM6	leucine-rich immune protein (Short)	682.280858	-6.197194105	0.3656		1.87318E-64	6.39394E-63	
GAP005751	AGAP005751	glucosyl/glucuronosyl transferases	42.4611745	-6.194983424			3.21893E-25	3.01746E-24	
GAP006571	AGAP006571	nuclear receptor subfamily 1 group D member 3	9.68565768	-6.143983933			1.41917E-11	6.16696E-11	
GAP002588	AGAP002588	nan	8419.60502	-6.108430513 -6.072258913		-33.563	5.9001E-247 4.92527E-22	3.7056E-244	
GAP008387 GAP012251	AGAP008387	nan	150.384514	-6.026570224			4.92527E-22 2.7104E-142	3.9932E-21	
SAP006137	AGAP012251 nan	inorganic phosphate cotransporter nan	4805.26247 22.8320718	-5.976841918	0.2373	-23.397	9.90601E-18	4.3279E-140 6.40965E-17	
AP009382	AGAP009382	nan	4.77124769	-5.785400182			4.52336E-08	1.44456E-07	
AP003382	AGAP003382	pancreatic triacylglycerol lipase	83.1501711	-5.775735305			4.52330E-08 1.68237E-23	1.4435E-22	
GAP028980		Eukaryotic small subunit ribosomal RNA [Source:RFAM;Acc:RF01960]	655.932095	-5.712182634			4.60615E-09	1.62041E-08	
GAP028554	AGAP028554	nan	1196.48986	-5.646977962	0.2079		1.5969E-162	3.3433E-160	
SAP002830	AGAP002830	C-1-tetrahydrofolate synthase, mitochondrial precursor	8450.48974	-5.597586948		-23.76	8.5705E-125	1.0911E-122	
AP003636	AGAP003636	inositol oxygenase	2734.91946	-5.581700591			3.1793E-139	4.9102E-137	
GAP008713	AGAP008713	nan	38.4404323	-5.575036836			3.46939E-27	3.56435E-26	
GAP010363	AGAP010363	nan	14.7019961	-5.566885964			1.25987E-11	5.49756E-11	
GAP009385	AGAP009385	cellular retinaldehyde-binding protein	18.0446469	-5.565601097	0.6956		1.23646E-15	7.09424E-15	
GAP004572	AGAP004572	nan	26.4052676	-5.542488691			3.0753E-16	1.82906E-15	
GAP003714	HPX3	heme peroxidase 3	3408.31985	-5.478975624			6.24116E-76	2.9999E-74	
GAP012635	AGAP012635	nan	12.9650626	-5.472974589	0.7687	-7.1197	1.08199E-12	5.08909E-12	
GAP000352	TWDL1	cuticular protein TWDL family (TWDL1)	16.2536187	-5.466467959			1.96607E-14	1.04175E-13	
GAP003999	AGAP003999	nan	163.64635	-5.439859124	0.3155		1.34382E-66	4.8693E-65	
GAP003066	CYP304B1	cytochrome P450	116.636168	-5.438909643			2.208E-54	5.84314E-53	
GAP012354	AGAP012354	Syntrophin, alpha 1	60.4766239	-5.431457844			9.49269E-24	8.25767E-23	
GAP011098	AGAP011098	nan	137.616454	-5.404158307	0.3614		1.47261E-50		Oenocytoids
GAP008714	AGAP008714	nan	60.861685	-5.374765101		-11.82	3.07677E-32	3.92767E-31	
SAP003582	AGAP003582	D-xylulose reductase A	17.4712129	-5.29214823	0.7554		2.45926E-12	1.13128E-11	
SAP010596	AGAP010596	Alkaline phosphatase [Source:UniProtKB/TrEMBL;Acc:Q7Q8R8]	4.84641083	-5.291703832	1.0968		1.40358E-06	3.84842E-06	
SAP000218	AGAP000218	nan	102.125953 27.043257	-5.289965987 -5.253269891	0.4205 0.7628	-12.581 -6.887	2.69796E-36 5.69752E-12	3.95911E-35	
GAP003545 GAP009219	Osk AGAP009219	protein oskar nan	23.1633731	-5.226698387			4.97972E-12	2.55358E-11 2.55801E-13	
AP005215	AGAP005215	nan	3.35151891	-5.203138233			8.58324E-07	2.40878E-06	
GAP002317	Alpha_amylase	amylase	7282.67516	-5.083876823	0.2684		5.22851E-80		3 Oenocytoids
GAP004563	ANCE9	angiotensin-converting enzyme 9	148.969171	-5.063188132			1.8048E-40	3.06913E-39	
GAP012617	AGAP012617	nan	179.468881	-5.043696632			8.96638E-45	1.75984E-43	
AP005753	AGAP005753	glucosyl/glucuronosyl transferases	141.092797	-5.024762823			8.76391E-46	1.77941E-44	
GAP007252	AGAP007252	Peptidase S1 domain-containing protein [Source:UniProtKB/TrEMBL;		-5.020262381			1.3917E-33	1.87572E-32	
GAP028560	AGAP028560	nan	474.462774	-5.002460802	0.2269		9.7677E-108	1.0002E-105	
GAP005585	AGAP005585	nan	301.522027	-4.979277064			2.3956E-125	3.0917E-123	
GAP000844	AGAP000844	Progestin and adipoQ receptor family member 4	788.790571	-4.907435023		-21.17	1.8188E-99	1.43987E-97	
GAP011253	AGAP011253	nan	9.54328575	-4.893404448			2.08486E-09	7.61001E-09	9
GAP005497	AGAP005497	SCP domain-containing protein [Source:UniProtKB/TrEMBL;Acc:A0A1	3.608338	-4.856641566	1.1163	-4.3507	1.35698E-05	3.31968E-05	5
GAP001477	AGAP001477	Innexin inx2	70.8757624	-4.795367874	0.344	-13.938	3.70678E-44	7.17075E-43	3
AP006609	AGAP006609	nan	21.0348322	-4.786633919	0.6277	-7.6257	2.4273E-14	1.27681E-13	3
GAP002506	AGAP002506	runt-related transcription factor	324.201393	-4.758197781	0.1993	-23.879	5.1199E-126	6.7936E-124	1
GAP011230	AGAP011230	nan	543.436757	-4.734809459			3.6357E-74	1.64673E-72	2
AP004450	AGAP004450	nan	134.456281	-4.713058251	0.3123	-15.091	1.85261E-51	4.48673E-50)
AP006001	CPR26	cuticular protein RR-1 family 26	127.926692	-4.681609602			4.39401E-42	7.88495E-41	
AP004980	PPO7	prophenoloxidase 7	13.6523774	-4.67237043		-6.364	1.96542E-10	7.86918E-10	
SAP003712	Ast1	allatostatin 1	7.08833786	-4.665661923			4.99774E-08	1.58852E-07	
AP012616	PPO5	prophenoloxidase 5	21687.4741	-4.651552574			8.48134E-88		o Oenocytoids
SAP028480	AGAP028480	nan	3.47488169	-4.641297013		-4.272	1.93769E-05	4.66165E-05	
AP007285	AGAP007285	alpha-L-fucosidase	311.378893	-4.615829479	0.2811	-16.42	1.38179E-60	4.33928E-59	
SAP009924	AGAP009924	nan prophopolovidoro 4	9.66472208	-4.603626508			7.35802E-10	2.80534E-09	
AP004981	PPO4	prophenoloxidase 4	7206.30439	-4.599210999 -4.588901081		-30.876	2.5449E-209 6.75457E-09		7 Oenocytoids
AP010975	AGAP010975	nan	26.7616799 41.8936143	-4.588901081 -4.566657813			6.75457E-09 1.29679E-23	2.33436E-08	
AP010657 AP007075	AGAP010657 AGAP007075	nan nan	41.8936143	-4.564451244			1.29679E-23 7.8054E-14	1.1198E-22 3.94077E-13	
AP007075	AGAP007075 AGAP001112	nan	3.13585904	-4.540052611		-7.4736	0.000112478	0.000247006	
SAP001112	AGAP001112 AGAP028398	nan	3.13585904 8.05143187	-4.528075965			8.90251E-08	2.75618E-07	
AP028398	AGAP028398 AGAP012644	nan	5.27808429	-4.528075965			2.03004E-05	4.86394E-05	
AP012044	AGAP012044 AGAP004154	jagged	857.959562	-4.503198656		-21.78	3.6169E-105	3.5129E-103	
AP004154	AGAP004154 AGAP003767	nan	5196.80068	-4.496935919	0.2008		9.52588E-82) Oenocytoids
AP029126	AGAP029126	nan	18.411012	-4.443084044		-6.8671	6.55376E-12	2.92621E-11	
AP029120	AGAP029120 AGAP004249	nan	51.395445	-4.437586128			4.20638E-30	4.95974E-29	
AP004249	AGAP004249 AGAP006385	nan	283.540464	-4.43075434			4.20038E-30 1.18834E-08		
AP000605	AGAP000605	nan	261.956624	-4.424556557			5.67923E-07	1.62577E-06	
AP007918	AGAP007918	xanthine dehydrogenase/oxidase	4030.929	-4.421348327	0.1688		3.3598E-151	5.5532E-149	
AP011603	AGAP011603	Long-chain acyl-CoA synthetase [Source:UniProtKB/TrEMBL;Acc:A0A		-4.420170699			4.00532E-70	1.64778E-68	
AP004510	AGAP004510	Innexin inx2	459.008065	-4.418131468			1.97167E-61	6.29665E-60	
GAP028913		v Eukaryotic large subunit ribosomal RNA [Source:RFAM;Acc:RF02543]		-4.408960933			9.02088E-06	2.26327E-05	
GAP008141	AGAP008141	argininosuccinate lyase	6002.19367	-4.39651821			4.0318E-139	6.1264E-137	
GAP007588	AGAP007588	glucosyl/glucuronosyl transferases	394.075897	-4.386813885			5.7273E-130	8.0533E-128	
AP007388	AGAP007588 AGAP000211	triacylglycerol lipase	5103.25989	-4.384911177			2.34E-169	5.3769E-167	
GAP028555	AGAP000211 AGAP028555	nan	498.282233	-4.359203037			2.34E-169 1.86432E-64	6.38683E-63	
GAP028555	AGAP028555 AGAP003176	solute carrier family 23 (nucleobase transporter)	76.3543813	-4.350232637			7.92785E-39	1.27454E-37	
SAP013159	nan	nan	19.4741764	-4.327824047			2.49991E-17	1.27454E-37 1.58065E-16	
GAP013159	nan LRIM10	nan leucine-rich immune protein (Short)	19.4741764 3911.49684	-4.327593865			2.49991E-17 5.72668E-68	2.16671E-66	
SAP000153	AGAP000153 PPO6	nan prophenoloxidase 6	40.8878693 79083.991	-4.315642723			5.73422E-19	3.95766E-18	
AP004977			/ 7083.991	-4.312821861	0.1806	-23.881	4.8665E-126	6.5496E-124	+ JENULVLUIDS

AGAP013267	AGAP013267	nan	170.044983	-4.287799532	0.3139 -13.662	1.7167E-42	3.12824E-41
AGAP000356	AGAP000356	nan	8.52122871	-4.252587471	0.7446 -5.7116	1.11932E-08	3.78095E-08
AGAP002518	AGAP002518	delta-1-pyrroline-5-carboxylate synthetase	37793.214	-4.207224571	0.1507 -27.914	1.8217E-171	4.4007E-169 Granulocytes
AGAP012960	AGAP012960	nan	257.301812	-4.20622211	0.2151 -19.555	3.73425E-85	2.32983E-83
AGAP009039	AGAP009039	glucose-6-phosphate 1-epimerase	151.953295	-4.20538689	0.3275 -12.84	9.8257E-38	1.52752E-36
AGAP009516	nan	nan	8.12600818	-4.204435416	0.8637 -4.8679	1.12799E-06	3.1246E-06
AGAP003087	AGAP003087	nan	5.12561631	-4.202534821	0.9682 -4.3406	1.42077E-05	3.47212E-05
AGAP001251	AGAP001251	eupolytin	11.7228522		0.6219 -6.7295	1.70238E-11	7.34345E-11
AGAP010004	AGAP010004	nan	5.07615339	-4.182754498	0.9041 -4.6262	3.72375E-06	9.78562E-06
AGAP010725	nan	nan	174.004261	-4.178778315	0.2638 -15.838	1.70021E-56	4.88343E-55
AGAP003086	AGAP003086	nan	7.02442114	-4.160037236	0.8685 -4.7898	1.6693E-06	4.54259E-06
AGAP006570	AGAP006570	myo-inositol-1(or 4)-monophosphatase	8859.50488	-4.157395297	0.1789 -23.241	1.7485E-119	2.1393E-117 Oenocytoids
AGAP006134	AGAP006134	nan	6.65423033		0.9373 -4.4243	9.6739E-06	2.41499E-05
AGAP002587	AGAP002587	nan	19.6541663		0.6407 -6.4688	9.87523E-11	4.04147E-10
AGAP005972	AGAP005972	4-nitrophenylphosphatase	318.701758	-4.139715515	0.2871 -14.421	3.7963E-47	8.01904E-46
AGAP001880	AGAP001880	bZIP factor, other	16.0847949	-4.130949948	0.7097 -5.8211	5.84686E-09	2.03409E-08
AGAP000679	AGAP000679	Aminoacylase [Source:UniProtKB/TrEMBL;Acc:Q7QEF5]	31526.131	-4.104723825	0.1533 -26.784	4.9967E-158	9.4147E-156 Oenocytoids
AGAP001010	AGAP001010	chondroitin sulfate synthase	170.09409		0.2402 -17.079	2.11983E-65	7.50785E-64
AGAP013241	CYP4D16	cytochrome P450	5.30215358	-4.090586709	0.8342 -4.9034	9.42055E-07	2.63122E-06
AGAP003321	AGAP003321	glycine dehydrogenase	1498.67239	-4.087626651	0.1948 -20.986	8.7899E-98	6.78768E-96
AGAP006258	PPO2	prophenoloxidase 2	28442.0768	-4.051077734	0.2318 -17.475	2.23633E-68	8.5644E-67 Oenocytoids
AGAP009899	AGAP009899	nan	8.83590922	-4.038931909	0.7201 -5.6089	2.03628E-08	6.72407E-08
AGAP002721	AGAP002721	Tryptophan 2,3-dioxygenase [Source:UniProtKB/Swiss-Prot;Acc:O774	2065.79253	-4.024997514	0.2225 -18.089	3.87998E-73	1.73238E-71
AGAP010799	AGAP010799	nan	5.39154222	-4.010443217	0.988 -4.0593	4.92201E-05	0.000113098
AGAP008359	AGAP008359	sodium-coupled monocarboxylate transporter 1	3.85256215	-4.010249167	1.0686 -3.7527	0.000174967	0.000374628
AGAP011228	AGAP011228	nan	8413.98229	-4.009800464	0.4668 -8.5898	8.71082E-18	5.66745E-17 Granulocytes
AGAP006906	AGAP006906	Cat eye syndrome critical region protein 1	1347.74014	-4.000927267	0.1127 -35.501	4.6726E-276	6.2886E-273
AGAP006726	COEAE5G	carboxylesterase	2201.17039	-3.997497366	0.1943 -20.57	5.05574E-94	3.63588E-92 Oenocytoids
AGAP007076	AGAP007076	nan	67.4688145	-3.987537468	0.2863 -13.93	4.15336E-44	8.01819E-43
AGAP009874	CPR76	cuticular protein RR-1 family 76	5.80861262	-3.970946909	0.9897 -4.0121	6.01712E-05	0.000136926
AGAP005750	AGAP005750	glucosyl/glucuronosyl transferases	1511.87594	-3.963930585	0.1739 -22.792	5.5602E-115	6.3882E-113
AGAP009940	AGAP009940	nan	284.247524	-3.961724089	0.2689 -14.734	3.8722E-49	8.68572E-48
AGAP006206	nan	nan	190.510737		0.2233 -17.651	1.00808E-69	4.04134E-68
AGAP007456	LRIM8B	leucine-rich immune protein (Short)	6118.40636	-3.9304415	0.2273 -17.294	5.19666E-67	1.89026E-65 Granulocytes
AGAP013029	AGAP013029	nan	140.185467	-3.929349144	0.3094 -12.698	6.04565E-37	9.11298E-36
AGAP001252	AGAP001252	eupolytin	11.917833	-3.928480813	0.5576 -7.0447	1.85817E-12	8.61505E-12
AGAP001962	GPRVPR1	GPCR vasopressin family receptor 1	171.2186	-3.907937459	0.1723 -22.679	7.2564E-114	7.9491E-112
AGAP006549	AGAP006549	nan	19.9821355		0.5028 -7.7395	9.98344E-15	5.44294E-14
AGAP011617	AGAP011617	nan	4.90321474	-3.886640253	0.9136 -4.2541	2.09856E-05	5.01791E-05
AGAP006168	AGAP006168	BMP binding endothelial regulator	694.700242	-3.877349092	0.2095 -18.511	1.69422E-76	8.40065E-75
AGAP003067	CYP304C1	cytochrome P450	233.071707	-3.875724352	0.2526 -15.343	3.92708E-53	1.00535E-51
AGAP009283	AGAP009283	nan	6.56033597	-3.818322579	0.9537 -4.0035	6.24064E-05	0.00014167
AGAP028468	AGAP028468	nan	707.936092		0.2165 -17.634	1.35679E-69	5.37072E-68
AGAP003289	AGAP003289	carbonic anhydrase	6.26895793	-3.813869106	0.9956 -3.8308		0.000278191
AGAP013755	AGAP013755	nan	7789.42614	-3.804581874	0.246 -15.468	5.74805E-54	1.51264E-52
AGAP000466	ACE2	acetylcholinesterase	130.014914	-3.801941195	0.2838 -13.395	6.48728E-41	1.12554E-39
AGAP007674	AGAP007674	GIPC PDZ domain containing family, member 2	411.415616	-3.799060491	0.2166 -17.543	6.74851E-69	2.60564E-67
AGAP007454	LRIM8A	leucine-rich immune protein (Short)	9438.76355	-3.794200054	0.2357 -16.095	2.75087E-58	8.33309E-57
AGAP010604	ILP6	Insulin-like peptide 6	8.52382176	-3.792948395	0.8673 -4.3732	1.22421E-05	3.01288E-05
AGAP001415	AGAP001415	nan	3.27470474	-3.790409077	1.0779 -3.5166	0.000437106	0.000883306
AGAP009521	AGAP009521	nan	97.5543461	-3.789954676	0.3334 -11.368	6.06949E-30	7.08559E-29
AGAP011972	AGAP011972	Epoxide hydrolase	198.134239	-3.788799702	0.1764 -21.48	2.3734E-102	2.0897E-100
AGAP000275	AGAP000275	epidermal retinal dehydrogenase	612.865245		0.1771 -21.313	8.688E-101	7.4409E-99
AGAP001476	AGAP001476	Innexin inx2	1293.10692	-3.773854109	0.2375 -15.89	7.46388E-57	2.17029E-55
AGAP001281	AGAP001281	potassium inwardly-rectifying channel subfamily J	3123.47654	-3.759899628	0.1662 -22.619	2.7942E-113	3.0257E-111
AGAP000162	AGAP000162	Cystathionine beta-synthase [Source:UniProtKB/TrEMBL;Acc:Q7QEV	12899.2081	-3.755407958	0.2193 -17.121	1.0285E-65	3.67025E-64 Oenocytoids
AGAP013329	AGAP013329	nan	58.5082405	-3.749058651	0.3876 -9.6719	3.97079E-22	3.2249E-21
AGAP013758	AGAP013758	xanthine dehydrogenase	292.99927		0.2091 -17.922	7.94971E-72	3.40428E-70
AGAP006226	Aldehyde_oxidas		176.000978	-3.746539451	0.2621 -14.293	2.4176E-46	4.98384E-45
AGAP002593	AGAP002593	outer membrane lipoprotein Blc	2444.71449	-3.732204929	0.2577 -14.483	1.55164E-47	3.3682E-46
AGAP004367	AGAP004367	nan	6.27641776	-3.71151124	0.7131 -5.2048	1.94256E-07	5.8376E-07
AGAP013028	AGAP013028	nan	1117.68323	-3.710018318	0.2477 -14.978	1.01911E-50	2.41232E-49
AGAP028641	AGAP028641	nan	56.8742437		0.2931 -12.633	1.38711E-36	2.05795E-35
AGAP007453	LRIM9	leucine-rich immune protein (Short)	4537.20231		0.2772 -13.326	1.64439E-40	2.80649E-39 Granulocytes
AGAP003205	AGAP003205	nan	376.618638	-3.68920624	0.2596 -14.213	7.60358E-46	1.55387E-44
AGAP005717	LYSC6	C-type lysozyme (multi-lysozyme domain protein)	22.5284384		0.4394 -8.3901	4.85853E-17	3.00935E-16
AGAP003730	AGAP003730	neutral ceramidase	896.204879	-3.68553131	0.2252 -16.367	3.29211E-60	1.02023E-58
AGAP007764	AGAP007764	nan	8.99746337	-3.67369365	0.65 -5.6516	1.58993E-08	5.29658E-08
AGAP004940	AGAP004940	nan	382.503901		0.2498 -14.698	6.62693E-49	1.47246E-47
AGAP008193	AGAP008193	Nidogen (entactin) [Source:UniProtKB/TrEMBL;Acc:A0A1S4GXK2]	462.638259	-3.671374459	0.2146 -17.105	1.35951E-65	4.8332E-64
AGAP013403	AGAP013403	sodium-coupled monocarboxylate transporter 2	17.912668	-3.667844459	0.5948 -6.1668	6.9691E-10	2.65921E-09
AGAP006227	AGAP006227	alpha esterase	125.043869	-3.663923834	0.2663 -13.756	4.66562E-43	8.72119E-42
AGAP011373	AGAP011373	nan	3.74438369	-3.659337389	0.9467 -3.8654	0.000110923	0.000243818
AGAP005645	AGAP005645	dehydrogenase/reductase SDR family member 11 precursor	302.388965	-3.652840205	0.4207 -8.6835	3.83873E-18	2.54144E-17
AGAP011507	AGAP011507	nan	904.647956	-3.646701855	0.2315 -15.755	6.31545E-56	1.77077E-54
AGAP006376	PDP1	PAR-domain protein 1	433.909902	-3.645096136	0.3953 -9.2217	2.92424E-20	2.17266E-19
AGAP011349	AGAP011349	GABA-gated chloride channel	4.25918733	-3.634551722	0.8909 -4.0795	4.51267E-05	0.000104098
AGAP013039	AGAP013039	nan	14.0975022		0.5779 -6.2542	3.9963E-10	1.56313E-09
AGAP003000	AGAP003000	MFS transporter, PCFT/HCP family, solute carrier family 46 (folate tra			0.1782 -20.277	2.04251E-91	1.35511E-89
AGAP000351	GPRNPY1	neuropeptide Y receptor 1	643.541009		0.1974 -18.245	2.254E-74	1.02584E-72
AGAP006183	AGAP006183	slit protein	37.8090721		0.4034 -8.9004	5.56703E-19	3.84791E-18
AGAP000728	AGAP000728	wengen	326.556965	-3.581993277	0.2455 -14.588	3.33079E-48	7.36605E-47
AGAP002890	AGAP002890	Lipid storage droplets surface-binding protein 1	5661.5455		0.2174 -16.466	6.39551E-61	2.02188E-59 Granulocytes
AGAP012957	CYP4D17	cytochrome P450	153.399151	-3.57179938		7.5119E-38	1.17168E-36
AGAP009498	AGAP009498	solute carrier family 17 (anion/sugar transporter), member 5	4273.27844		0.1863 -19.159	8.07499E-82	4.72513E-80
AGAP012761	AGAP012761	Synaptic vesicle protein	182.275027		0.1931 -18.458	4.5353E-76	2.20243E-74
AGAP007599	AGAP007599	monolysocardiolipin acyltransferase	3128.34491		0.1645 -21.613	1.3503E-103	1.2472E-101
AGAP010794	AGAP010794	nan	304.73046		0.2496 -14.177	1.27206E-45	2.56619E-44
AGAP010726	nan	nan	35.5277234		0.3617 -9.7655	1.58251E-22	1.30436E-21
AGAP005459	CPR16	cuticular protein RR-1 family 16	438.759887	-3.526620378	0.2208 -15.975	1.92174E-57	5.6933E-56
AGAP003713		nan	63.6270203		0.3897 -9.0467	1.47364E-19	1.05255E-18
AGAP003713	AGAP003713						
AGAP012570	AGAP003713 AGAP012570	nan	53.1128837	-3.502552663	0.412 -8.5009	1.88068E-17	1.19958E-16
			53.1128837 331.958159		0.412 -8.5009 0.3097 -11.308	1.88068E-17 1.20247E-29	1.19958E-16 1.37816E-28
AGAP012570	AGAP012570	nan		-3.502290928			

AGAP001601	AGAP001601	Ser/Thr protein phosphatase/nucleotidase	774.104306	-3.468240411	0.1658 -20.924	3.21599E-97	2.42382E-95
AGAP013226	AGAP013226	nan	1644.12043	-3.457137788	0.1297 -26.656	1.527E-156	2.7664E-154
AGAP012395	AGAP012395	peptide-methionine (S)-S-oxide reductase	3850.14615	-3.449976302	0.2614 -13.2	8.71672E-40	1.44578E-38
AGAP002629	AGAP002629	nan	1275.01367	-3.44926394	0.8126 -4.2449	2.18681E-05	5.22096E-05
AGAP005563	Tret1	facilitated trehalose transporter Tret1	40579.9769	-3.441113178	0.204 -16.867	7.90767E-64	2.66065E-62 Granulocytes
AGAP008558	AGAP008558	nan	4.4651699	-3.436978214	0.8318 -4.1321	3.59406E-05	8.37074E-05
AGAP000604	AGAP000604	nan	4.84913532		0.9045 -3.7957	0.000147222	0.000317969
AGAP001015	AGAP001015	notch gene homolog 1	3328.58		0.2258 -15.196	3.76173E-52	9.30165E-51
AGAP007755	AGAP007755	nan	6.01877295	-3.428871874	0.8028 -4.2713	1.94304E-05	4.67331E-05
AGAP006729	AGAP006729	Ester hydrolase C11orf54	5111.62935	-3.413082857	0.1268 -26.924	1.1576E-159	2.3204E-157
AGAP002625	CTL9	C-type lectin (CTL)	53.999118		0.2862 -11.915	9.87787E-33	1.28181E-31
AGAP003501 AGAP010162	AGAP003501 AGAP010162	Lipase [Source:UniProtKB/TrEMBL;Acc:Q5TVS6] nan	3.37367287 4.9842719		0.9266 -3.6674 0.8178 -4.1369	0.000244995 3.52016E-05	0.000513823 8.21282E-05
AGAP010182 AGAP004156	AGAP010102 AGAP004156	synaptic vesicle protein	160.254657	-3.380372078	0.1899 -17.797	7.42866E-71	3.11046E-69
AGAP004150	AGAP004150 AGAP003209	C-4 methylsterol oxidase	81.4206687	-3.376664049	0.2654 -12.724	4.33271E-37	6.57303E-36
AGAP003106	Nep4	neprilysin, neutral endopeptidase 4	217.721818	-3.374218543	0.207 -16.304	9.2798E-60	2.85703E-58
AGAP001106	AGAP001106	Disconnected protein	138.711785	-3.372689615	0.3356 -10.05	9.14746E-24	7.98686E-23
AGAP006396	AGAP006396	phospholipase B, plb1	9.53579431	-3.368509407	0.7363 -4.575	4.76107E-06	1.23551E-05
AGAP009751	ANCE2	angiotensin-converting enzyme 2	1390.42849	-3.364251639	0.1747 -19.261	1.14528E-82	6.74354E-81
AGAP004203	Vg	vitellogenin	80.8811125	-3.3527186	0.2805 -11.954	6.1595E-33	8.04836E-32
AGAP012851	AGAP012851	Aldo-keto reductase family 1, member C3	2689.50054	-3.350926014	0.1899 -17.65	1.02133E-69	4.0771E-68 Oenocytoids
AGAP002091	AGAP002091	phosphoribosylformylglycinamidine synthase	5133.69277	-3.339265688	0.2779 -12.015	2.95805E-33	3.91402E-32
AGAP011460	AGAP011460	salivary cysteine-rich protein	213.407015	-3.339086963	0.2451 -13.625	2.84728E-42	5.17842E-41
AGAP012351	nan	nan	408.858941	-3.338581709	0.2222 -15.026	4.99819E-51	1.18909E-49
AGAP012341	AGAP012341	nan	12.32807	-3.337645667	0.5395 -6.1861	6.16677E-10	2.36263E-09
AGAP009551	AGAP009551	sulfotransferase (Sult)	13.6902857	-3.332394949	0.5482 -6.079	1.20905E-09	4.51642E-09
AGAP011223	AGAP011223	nan	5276.54106	-3.326940033	0.1604 -20.743	1.42583E-95	1.04943E-93
AGAP002868	CYP6P1	cytochrome P450	143.40991	-3.323546926	0.2199 -15.112	1.34727E-51	3.28824E-50
AGAP004936	AGAP004936	nan	58521.4869	-3.319925676	0.169 -19.649	5.84364E-86	3.69483E-84 Prohemocytes
AGAP007028	AGAP007028	glucosyl/glucuronosyl transferases	366.712893		0.1607 -20.644	1.11306E-94	8.06629E-93
AGAP011106	AGAP011106	nan Niacotulalusosamina 6 nhosphata daasatulasa (Saursai IniBratKP/Tr	136.410365	-3.303921891	0.3272 -10.099	5.60304E-24	4.94717E-23
AGAP002347 AGAP007598	AGAP002347 AGAP007598	N-acetylglucosamine-6-phosphate deacetylase [Source:UniProtKB/Tr nan	2255.65884 25.3472269	-3.301828055 -3.275270777	0.2075 -15.909 0.4455 -7.3524	5.44952E-57 1.94707E-13	1.59441E-55 9.61391E-13
	AGAP007598 AGAP028204		17.4900863		0.5608 -5.8298		
AGAP028204 AGAP003580	AGAP028204 AGAP003580	Alpha-mannosidase [Source:UniProtKB/TrEMBL;Acc:A0A1S4HD42] nan	14020.0337	-3.269261159 -3.260376232	0.1855 -17.58	5.54826E-09 3.48911E-69	1.93522E-08 1.36962E-67
AGAP003580 AGAP001124	AGAP003580	Aminomethyltransferase [Source:UniProtKB/TrEMBL;Acc:Q7PWZ1]	357.536681	-3.244512534	0.2845 -11.404	3.99122E-30	4.71193E-29
AGAP001124 AGAP003542	AGAP003542	Epoxide hydrolase 2, cytoplasmic	310.598056		0.2424 -13.347	1.22987E-40	2.10283E-39
AGAP028901		y Eukaryotic small subunit ribosomal RNA [Source:RFAM;Acc:RF01960	15.2663413	-3.225831598	0.712 -4.5309	5.87297E-06	1.50843E-05
AGAP005869	AGAP005869	nan	38.8862209	-3.221163782	0.4054 -7.9458	1.9295E-15	1.09439E-14
AGAP004107	AGAP004107	nan	5.57585964	-3.218920578	0.7526 -4.2769	1.89541E-05	4.56554E-05
AGAP006224	AGAP006224	aldehyde oxidase	290.449108	-3.21716727	0.2071 -15.537	1.94911E-54	5.21663E-53
AGAP004731	AGAP004731	secretory phospholipase A2	1220.10474		0.2474 -13.001	1.20116E-38	1.91799E-37
AGAP028056	AGAP028056	nan	73.6524111	-3.200180676	0.2355 -13.588	4.69321E-42	8.3899E-41
AGAP001856	PER	period circadian protein	1765.52282	-3.184496564	0.1698 -18.755	1.76032E-78	9.26479E-77
AGAP028649	AGAP028649	nan	161.09642	-3.178349482	0.2017 -15.76	5.86927E-56	1.65058E-54
AGAP012394	AGAP012394	peptide-methionine (S)-S-oxide reductase	4493.91225	-3.172243861	0.2496 -12.711	5.12128E-37	7.7444E-36 Granulocytes
AGAP004160	AGAP004160	nan	172.689128	-3.163101787	0.3344 -9.4595	3.09405E-21	2.417E-20
AGAP004531	AGAP004531	cathepsin B precursor	6.10946575		0.7386 -4.2768	1.8958E-05	4.56554E-05
AGAP011051	AGAP011051	aldehyde reductase	295.973218	-3.158326014	0.2415 -13.078	4.37039E-39	7.08665E-38
AGAP000033	AGAP000033	Protein retinal degeneration B	370.801971	-3.15519594	0.2017 -15.645	3.58205E-55	9.78158E-54
AGAP008304	AGAP008304	3',5'-cyclic-nucleotide phosphodiesterase	1039.83173	-3.153481463	0.2119 -14.884	4.16668E-50	9.57421E-49
AGAP007633	AGAP007633	solute carrier family 36 (proton-coupled amino acid transporter)	14609.7054		0.1572 -20.017	3.92245E-89	2.54851E-87
AGAP012280	AGAP012280	nan	266.11271	-3.145504714	0.192 -16.387	2.37033E-60	7.41891E-59
AGAP001554	AGAP001554	nan 	202.090158 1718.10723	-3.126662248	0.1992 -15.695 0.7941 -3.9364	1.63043E-55 8.27201E-05	4.53105E-54
AGAP028956 AGAP005009	AGAP005009	y Eukaryotic small subunit ribosomal RNA [Source:RFAM;Acc:RF01960 Pyrroline-5-carboxylate reductase [Source:UniProtKB/TrEMBL;Acc:Q]	2617.04663	-3.125931303 -3.123263198	0.2089 -14.953	1.49041E-50	0.000185284 3.50154E-49
AGAP003009 AGAP011476	AGAP003009 AGAP011476	nan	2017.04865	-3.116272616	0.489 -6.3723	1.49041E-30 1.86267E-10	7.47049E-10
AGAP001470	AGAP002720	cathepsin O	881.741456	-3.106508609	0.2002 -15.519	2.58646E-54	6.82551E-53
AGAP010885	AGAP010885	nan	421.508745	-3.105294624	0.2845 -10.915	9.8121E-28	1.02825E-26
AGAP003587	AGAP003587	sodium-independent sulfate anion transporter	1718.75882		0.1639 -18.901	1.12606E-79	6.16781E-78
AGAP011462	AGAP011462	nan	4.86235738		0.7421 -4.1723	3.015E-05	7.09398E-05
AGAP006725	COEAE3H	carboxylesterase alpha esterase	407.087548		0.2244 -13.779	3.41677E-43	6.43788E-42
AGAP004095	AGAP004095	nan	174.525564		0.2239 -13.736	6.14185E-43	1.14127E-41
AGAP001635	AGAP001635	sodium-coupled monocarboxylate transporter 2	204.45657	-3.07551775	0.1827 -16.835	1.35364E-63	4.53832E-62
AGAP005223	AGAP005223	Lipocln_cytosolic_FA-bd_dom domain-containing protein [Source:Ur	165.007244	-3.065980036	0.2315 -13.242	5.00596E-40	8.39167E-39
AGAP007589	AGAP007589	glucosyl/glucuronosyl transferases	621.720554	-3.057865242	0.1706 -17.921	8.02864E-72	3.42253E-70
AGAP003500	AGAP003500	Lipase [Source:UniProtKB/TrEMBL;Acc:Q7QH37]	9.20282967		0.5388 -5.6644	1.47533E-08	4.92876E-08
AGAP005456	CPR15	cuticular protein RR-1 family 15	34.5987538	-3.035623721	0.321 -9.4572	3.16299E-21	2.46677E-20
AGAP000313	AGAP000313	alanine-glyoxylate aminotransferase 2-like	4145.07087	-3.034879671	0.1817 -16.704	1.22334E-62	4.00178E-61
AGAP013365	AGAP013365	nan	6527.8282	-3.031818519	0.1594 -19.022	1.11373E-80	6.32073E-79 Granulocytes
AGAP013453	AGAP013453	nan	12.7575822	-3.029051293	0.5309 -5.705	1.16354E-08	3.92613E-08
AGAP008289	AGAP008289	nan	10.3311855		0.6155 -4.9139	8.92716E-07	2.49934E-06
AGAP010633	nan	nan	1204.37305		0.2197 -13.756	4.65989E-43	8.72119E-42
AGAP008225	AGAP008225 AGAP013231	trehalose 6-phosphate phosphatase Nitrilase homolog 2	5167.64302 559.870424	-3.021205186 -3.018276405	0.2138 -14.128 0.2323 -12.995	2.54971E-45 1.31212E-38	5.11082E-44
AGAP013231							2.08809E-37
AGAP011104		nan	427.715002	-3.01468997	0.2914 -10.346	4.36944E-25	4.06764E-24
AGAP011104	AGAP011104	cytochrome P450	15 0112/00	-3 012627712	0 5612 _5 2704	7 856775 00	2 44349F-07
AGAP008214	CYP6M4	cytochrome P450	15.9113498		0.5612 -5.3704	7.85622E-08	2.44349E-07
AGAP008214 AGAP001597	CYP6M4 AGAP001597	nan	4.84873071	-3.010538762	0.771 -3.905	9.42364E-05	0.000209535
AGAP008214 AGAP001597 AGAP008013	CYP6M4 AGAP001597 AGAP008013	nan nan	4.84873071 7263.01289	-3.010538762 -3.010012835	0.771 -3.905 0.2617 -11.5	9.42364E-05 1.31937E-30	0.000209535 1.58543E-29
AGAP008214 AGAP001597 AGAP008013 AGAP003490	CYP6M4 AGAP001597 AGAP008013 AGAP003490	nan nan alanine-glyoxylate aminotransferase	4.84873071 7263.01289 795.275596	-3.010538762 -3.010012835 -3.007138647	0.771 -3.905 0.2617 -11.5 0.1399 -21.496	9.42364E-05 1.31937E-30 1.6813E-102	0.000209535 1.58543E-29 1.4943E-100 Oenocytoids
AGAP008214 AGAP001597 AGAP008013 AGAP003490 AGAP001410	CYP6M4 AGAP001597 AGAP008013 AGAP003490 AGAP001410	nan nan alanine-glyoxylate aminotransferase nan	4.84873071 7263.01289 795.275596 15.4557166	-3.010538762 -3.010012835 -3.007138647 -2.998600332	0.771 -3.905 0.2617 -11.5 0.1399 -21.496 0.4252 -7.0526	9.42364E-05 1.31937E-30 1.6813E-102 1.75558E-12	0.000209535 1.58543E-29 1.4943E-100 Oenocytoids 8.14747E-12
AGAP008214 AGAP001597 AGAP008013 AGAP003490	CYP6M4 AGAP001597 AGAP008013 AGAP003490	nan nan alanine-glyoxylate aminotransferase	4.84873071 7263.01289 795.275596	-3.010538762 -3.010012835 -3.007138647	0.771 -3.905 0.2617 -11.5 0.1399 -21.496	9.42364E-05 1.31937E-30 1.6813E-102	0.000209535 1.58543E-29 1.4943E-100 Oenocytoids
AGAP008214 AGAP001597 AGAP008013 AGAP003490 AGAP001410 AGAP000690	CYP6M4 AGAP001597 AGAP008013 AGAP003490 AGAP001410 AGAP000690	nan nan alanine-glyoxylate aminotransferase nan nan	4.84873071 7263.01289 795.275596 15.4557166 279.405826	-3.010538762 -3.010012835 -3.007138647 -2.998600332 -2.984546954	0.771 -3.905 0.2617 -11.5 0.1399 -21.496 0.4252 -7.0526 0.242 -12.332	9.42364E-05 1.31937E-30 1.6813E-102 1.75558E-12 6.07351E-35	0.000209535 1.8543E-29 1.4943E-100 Oenocytoids 8.14747E-12 8.5785E-34
AGAP008214 AGAP001597 AGAP008013 AGAP003490 AGAP001410 AGAP000690 AGAP012350	CYP6M4 AGAP001597 AGAP008013 AGAP003490 AGAP001410 AGAP000690 nan	nan nan alanine-glyoxylate aminotransferase nan nan	4.84873071 7263.01289 795.275596 15.4557166 279.405826 1796.16641 79.806766	-3.010538762 -3.010012835 -3.007138647 -2.998600332 -2.984546954 -2.983440327	0.771 -3.905 0.2617 -11.5 0.1399 -21.496 0.4252 -7.0526 0.242 -12.332 0.1652 -18.064	9.42364E-05 1.31937E-30 1.6813E-102 1.75558E-12 6.07351E-35 6.09658E-73	0.000209535 1.58543E-29 1.4943E-100 Oenocytoids 8.14747E-12 8.5785E-34 2.70924E-71
AGAP008214 AGAP001597 AGAP008013 AGAP003490 AGAP001410 AGAP000690 AGAP012350 AGAP012350	CYP6M4 AGAP001597 AGAP008013 AGAP003490 AGAP001410 AGAP000690 nan AGAP009029	nan nan alanine-glyoxylate aminotransferase nan nan Protein real-time [Source:UniProtKB/TrEMBL;Acc:A0A1S4GZW6]	4.84873071 7263.01289 795.275596 15.4557166 279.405826 1796.16641 79.806766	-3.010538762 -3.010012835 -3.007138647 -2.998600332 -2.984546954 -2.983440327 -2.981978623	0.771 -3.905 0.2617 -11.5 0.1399 -21.496 0.4252 -7.0526 0.242 -12.332 0.1652 -18.064 0.279 -10.689	9.42364E-05 1.31937E-30 1.6813E-102 1.75558E-12 6.07351E-35 6.09658E-73 1.14734E-26	0.000209535 1.58543E-29 1.4943E-100 Oenocytoids 8.14747E-12 8.5785E-34 2.70924E-71 1.14746E-25
AGAP008214 AGAP001597 AGAP008013 AGAP003490 AGAP003490 AGAP001410 AGAP000690 AGAP009029 AGAP009029 AGAP008712	CYP6M4 AGAP001597 AGAP008013 AGAP003490 AGAP001410 AGAP000690 nan AGAP009029 AGAP008712	nan nan alanine-glyoxylate aminotransferase nan nan Protein real-time [Source:UniProtKB/TrEMBL;Acc:A0A1S4GZW6] Solute carrier organic anion transporter family member [Source:UniF	4.84873071 7263.01289 795.275596 15.4557166 279.405826 1796.16641 79.806766 112.559908	-3.010538762 -3.010012835 -3.007138647 -2.998600332 -2.984546954 -2.983440327 -2.981978623 -2.978096348	0.771 -3.905 0.2617 -11.5 0.1399 -21.496 0.4252 -7.0526 0.242 -12.332 0.1652 -8.064 0.279 -10.689 0.2888 -10.313	9.42364E-05 1.31937E-30 1.6813E-102 1.75558E-12 6.07351E-35 6.09658E-73 1.14734E-26 6.15574E-25	0.000209535 1.58543E-29 1.4943E-100 Oenocytoids 8.14747E-12 8.5785E-34 2.70924E-71 1.14746E-25 5.6634E-24
AGAP008214 AGAP001597 AGAP008013 AGAP003490 AGAP003490 AGAP001410 AGAP00690 AGAP006912 AGAP008712 AGAP011648	CYP6M4 AGAP001597 AGAP008013 AGAP003490 AGAP001410 AGAP000690 nan AGAP009029 AGAP008712 AGAP011648	nan nan alanine:glyoxylate aminotransferase nan nan Protein real-time [Source:UniProtKB/TrEMBL;Acc:A0A1S4GZW6] Solute carrier organic anion transporter family member [Source:UniF nan	4.84873071 7263.01289 795.275596 15.4557166 279.405826 1796.16641 79.806766 112.559908 11.7237491	-3.010538762 -3.010012835 -3.007138647 -2.998600332 -2.984546954 -2.983440327 -2.981978623 -2.978096348 -2.97673365	0.771 -3.905 0.2617 -11.5 0.1399 -21.496 0.4252 -7.0526 0.242 -12.332 0.1652 -8.064 0.279 -10.689 0.2888 -10.313 0.5862 -5.0782	9.42364E-05 1.31937E-30 1.6813E-102 1.75558E-12 6.07351E-35 6.09658E-73 1.14734E-26 6.15574E-25 3.81005E-07	0.000209535 1.58543E-29 1.4943E-100 Oenocytoids 8.14747E-12 8.5785E-34 2.70924E-71 1.14746E-25 5.6634E-24 1.11163E-06
AGAP008214 AGAP001597 AGAP008013 AGAP003490 AGAP003490 AGAP001410 AGAP000690 AGAP009029 AGAP009029 AGAP008712 AGAP011648 AGAP01968 AGAP012352 AGAP005175	CYP6M4 AGAP001597 AGAP008013 AGAP003490 AGAP001410 AGAP000690 nan AGAP0009029 AGAP008712 AGAP011648 CLIPA9 AGAP012352 AGAP012352	nan nan alanine-glyoxylate aminotransferase nan nan Protein real-time [Source:UniProtKB/TrEMBL;Acc:A0A1S4GZW6] Solute carrier organic anion transporter family member [Source:UniF nan CLIP-domain serine protease	4.84873071 7263.01289 795.275596 15.4557166 279.405826 1796.16641 79.806766 112.559908 11.7237491 10945.0038 5006.94598 23704.2072	-3.010538762 -3.01012835 -3.007138647 -2.98600332 -2.984546954 -2.984546954 -2.98140327 -2.981978623 -2.978096348 -2.97763365 -2.971260035 -2.971260035 -2.97282005 -2.959842964	0.771 -3.905 0.2617 -11.5 0.1399 -21.496 0.4252 -7.0526 0.242 -12.332 0.1652 -18.064 0.279 -10.689 0.2888 -10.313 0.5862 -5.0782 0.2474 -12.012 0.2158 -13.947	9.42364E-05 1.31937E-30 1.6813E-102 1.75558E-12 6.07351E-33 6.09658E-73 1.14734E-26 6.15574E-25 3.81005E-07 3.06453E-33 3.27275E-44 8.40361E-43	0.000209535 1.58543E-29 1.4943E-100 Oenocytoids 8.14747E-12 8.5785E-34 2.70924E-71 1.14746E-25 5.6634E-24 1.1163E-06 4.04922E-32 Dividing Granulocytes 0.54416E-43 Dividing Granulocytes 1.54932E-41
AGAP008214 AGAP001597 AGAP008013 AGAP003490 AGAP001410 AGAP000690 AGAP012350 AGAP009029 AGAP008712 AGAP011648 AGAP01968 AGAP012352 AGAP005175 AGAP028439	CYP6M4 AGAP001597 AGAP008013 AGAP008013 AGAP003490 AGAP000690 nan AGAP009029 AGAP0080712 AGAP011648 CLIPA9 AGAP012352 AGAP002175 AGAP028439	nan nan alanine-glyoxylate aminotransferase nan nan Protein real-time [Source:UniProtKB/TrEMBL;Acc:AOA1S4GZW6] Solute carrier organic anion transporter family member [Source:UniF nan CLIP-domain serine protease Niemann-Pick C2 protein acetyl-CoA carboxylase / biotin carboxylase nan	4.84873071 7263.01289 795.275596 15.4557166 279.405826 1796.16641 112.559908 112.559908 11.7237491 10945.0038 5006.94598 23704.2072 5256.99719	-3.010538762 -3.01012835 -3.007138647 -2.98600322 -2.984546954 -2.983440327 -2.981978623 -2.97806348 -2.97673365 -2.971260035 -2.970282005 -2.950842964 -2.953650419	0.771 -3.905 0.2617 -11.5 0.1399 -21.496 0.4252 -7.0526 0.242 -12.332 0.1652 -18.064 0.279 -10.689 0.2888 -10.313 0.5862 -5.0782 0.2474 -12.012 0.213 -13.447 0.2158 -13.714 0.1848 -15.982	9.42364E-05 1.31937E-30 1.6813E-102 1.75558E-12 6.07351E-35 6.09658E-73 1.14734E-26 6.15574E-25 3.81005E-07 3.06453E-33 3.27275E-44 8.40361E-43 1.71359E-57	0.000209535 1.58543E-29 1.4943E-100 Oenocytoids 8.14747E-12 8.5785E-34 2.70924E-71 1.14746E-25 5.6634E-24 1.11163E-06 4.04922E-32 Dividing Granulocytes 6.34416E-43 Dividing Granulocytes 1.54932E-41 5.09267E-56 Granulocytes
AGAP008214 AGAP001597 AGAP008013 AGAP003490 AGAP003490 AGAP001410 AGAP001900 AGAP012350 AGAP0029 AGAP001908 AGAP010968 AGAP010968 AGAP012352 AGAP02175 AGAP028439 AGAP001600	CYP6M4 AGAPO01597 AGAPO08013 AGAP003490 AGAP003490 AGAP000690 nan AGAP009029 AGAP008712 AGAP011648 CLIPA9 AGAP011648 CLIPA9 AGAP012352 AGAP028439 AGAP001600	nan nan alanine-glyoxylate aminotransferase nan nan Protein real-time [Source:UniProtKB/TrEMBL;Acc:A0A1S4GZW6] Solute carrier organic anion transporter family member [Source:UniF nan CLIP-domain serine protease Niemann-Pick C2 protein acetyl-CoA carboxylase / biotin carboxylase nan Ser/Thr protein phosphatase/nucleotidase	4.84873071 7263.01289 795.275596 15.4557166 279.405826 1796.16641 798.086766 112.559908 11.7237491 10945.0038 5006.94598 23704.2072 5256.99719 104.140397	-3.010538762 -3.001012835 -3.007138647 -2.998600332 -2.984546954 -2.981978623 -2.978096348 -2.97767365 -2.971260035 -2.970282005 -2.959842964 -2.953650419 -2.953650419	0.771 -3.905 0.2617 -11.5 0.1399 -21.496 0.4252 -7.0526 0.2422 -12.332 0.1652 -18.064 0.279 -10.689 0.2888 -10.313 0.5862 -5.0782 0.213 -13.044 0.2474 -12.012 0.213 -13.714 0.1848 -15.982 0.5897 -11.37	9.42364E-05 1.31937E-30 1.6813E-102 1.75558E-12 6.07351E-35 6.09658E-73 1.14734E-26 6.15574E-25 3.81005E-07 3.06453E-33 3.27275E-44 8.40361E-43 1.71359E-57	0.000209535 1.58543E-29 1.4943E-100 Oenocytoids 8.14747E-12 8.5785E-34 2.70924E-71 1.14746E-25 5.6634E-24 1.11163E-06 4.04922E-32 Dividing Granulocytes 6.34416E-43 Dividing Granulocytes 1.54932E-41 5.09267E-56 Granulocytes 6.9262E-29
AGAP008214 AGAP008013 AGAP008490 AGAP003490 AGAP001410 AGAP00590 AGAP012350 AGAP009029 AGAP009029 AGAP01848 AGAP011648 AGAP012953	CYP6M4 AGAP001597 AGAP008013 AGAP003490 AGAP003490 AGAP000690 nan AGAP009029 AGAP001608 CLIPA9 AGAP011648 CLIPA9 AGAP012352 AGAP028439 AGAP001600 AGAP012953	nan nan alainine:glyoxylate aminotransferase nan nan Protein real-time [Source:UniProtKB/TrEMBL;Acc:AOA1S4GZW6] Solute carrier organic anion transporter family member [Source:UniF nan CLIP-domain serine protease Niemann-Pick C2 protein acetyl-CoA carboxylase / biotin carboxylase nan Ser/Thr protein phosphatase/nucleotidase epidermal retinal dehydrogenase	4.84873071 7253.01289 795.275596 15.4557166 279.405826 1796.16641 79.806766 112.559908 11.7237491 10945.0038 5006.94598 23704.2072 5256.99719 104.140397 1187.39227	-3.010538762 -3.01012835 -3.007138647 -2.99860032 -2.984546954 -2.98178623 -2.978096348 -2.97673365 -2.971260035 -2.97028005 -2.959842964 -2.955842964 -2.955850419 -2.952857152 -2.924249174	0.771 -3.905 0.2617 -11.5 0.1399 -21.496 0.4252 -7.0526 0.242 -12.332 0.1525 18.064 0.279 10.689 0.2888 10.313 0.5862 5.0782 0.2474 -12.012 0.213 -13.947 0.2158 -13.714 0.2848 -15.982 0.2597 -11.37 0.9192 -14.85	9.42364E-05 1.31937E-30 1.6813E-102 6.07351E-35 6.09658E-73 1.14734E-26 6.15574E-25 3.81005E-07 3.06453E-33 3.27275E-44 8.40361E-43 1.71359E-57 5.91826E-30 6.99271E-50	0.000209535 1.58543E-29 1.4943E-100 Oenocytoids 8.14747E-12 8.5785E-34 2.70924E-71 1.14746E-25 5.6634E-24 1.1163E-06 4.04922E-32 Dividing Granulocytes 1.54932E-41 5.09267E-56 Granulocytes 6.9262E-29 1.59899E-48
AGAP008214 AGAP008013 AGAP008013 AGAP0008013 AGAP001410 AGAP000690 AGAP012350 AGAP008712 AGAP008712 AGAP011648 AGAP011648 AGAP012352 AGAP005175 AGAP005175 AGAP028439 AGAP012953 AGAP012953	CYP6M4 AGAP001597 AGAP008013 AGAP008013 AGAP008013 AGAP00801410 AGAP009029 AGAP009029 AGAP009029 AGAP001648 CLIPA9 AGAP011648 CLIPA9 AGAP012352 AGAP005175 AGAP005175 AGAP005175 AGAP005193 man	nan nan alainine-glyoxylate aminotransferase nan nan Protein real-time [Source:UniProtKB/TrEMBL;Acc:A0A1S4GZW6] Solute carrier organic anion transporter family member [Source:UniF nan CLIP-domain serine protease Niemann-Pick C2 protein acetyl-CoA carboxylase / biotin carboxylase nan Ser/Thr protein phosphatase/nucleotidase epidermal retinal dehydrogenase nan	4.84873071 7253.01289 795.275596 15.4557166 279.405826 1796.16641 79.806766 112.559908 11.7237491 10945.0038 5006.94598 23704.2072 5256.99719 104.140397 104.140397 1187.39227 136.457476	-3.010538762 -3.01012835 -3.007138647 -2.998600322 -2.984546954 -2.983440327 -2.981978623 -2.978096348 -2.97673365 -2.971260035 -2.97028005 -2.959842964 -2.953650419 -2.952627152 -2.940686527	0.771 -3.905 0.2617 -11.5 0.1399 -21.496 0.4252 -7.0526 0.242 -12.332 0.1652 -18.064 0.279 -10.689 0.2788 -10.313 0.5862 -5.0782 0.2474 -12.012 0.213 -13.947 0.2158 -13.714 0.1848 -15.982 0.2927 -11.37 0.19282 -14.855 0.2337 -12.582	9.42364E-05 1.31937E-30 1.6813E-102 1.75558E-12 6.09558E-73 1.14734E-26 6.15574E-25 3.81005E-07 3.06453E-33 3.27275E-44 8.40361E-43 1.71359E-57 5.91826E-30 2.65475E-36	0.000209535 1.58543E-29 1.4943E-100 Oenocytoids 8.14747E-12 8.5785E-34 2.70924E-71 1.14746E-25 5.6634E-24 1.1163E-06 4.04922E-32 Dividing Granulocytes 6.34416E-43 Dividing Granulocytes 1.54932E-41 5.09267E-56 Granulocytes 6.9262E-29 1.59899E-48 3.90178E-35
AGAP008214 AGAP008013 AGAP008490 AGAP003490 AGAP001410 AGAP00590 AGAP012350 AGAP009029 AGAP009029 AGAP01848 AGAP011648 AGAP012953	CYP6M4 AGAP001597 AGAP008013 AGAP003490 AGAP003490 AGAP000690 nan AGAP009029 AGAP001608 CLIPA9 AGAP011648 CLIPA9 AGAP012352 AGAP028439 AGAP001600 AGAP012953	nan nan alainine:glyoxylate aminotransferase nan nan Protein real-time [Source:UniProtKB/TrEMBL;Acc:AOA1S4GZW6] Solute carrier organic anion transporter family member [Source:UniF nan CLIP-domain serine protease Niemann-Pick C2 protein acetyl-CoA carboxylase / biotin carboxylase nan Ser/Thr protein phosphatase/nucleotidase epidermal retinal dehydrogenase	4.84873071 7253.01289 795.275596 15.4557166 279.405826 1796.16641 79.806766 112.559908 11.7237491 10945.0038 5006.94598 23704.2072 5256.99719 104.140397 1187.39227	-3.010538762 -3.01012835 -3.007138647 -2.998600322 -2.984546954 -2.983440327 -2.981978623 -2.978096348 -2.97673365 -2.971260035 -2.97028005 -2.959842964 -2.953650419 -2.952627152 -2.940686527	0.771 -3.905 0.2617 -11.5 0.1399 -21.496 0.4252 -7.0526 0.242 -12.332 0.1525 18.064 0.279 10.689 0.2888 10.313 0.5862 5.0782 0.2474 -12.012 0.213 -13.947 0.2158 -13.714 0.2848 -15.982 0.2597 -11.37 0.9192 -14.85	9.42364E-05 1.31937E-30 1.6813E-102 6.07351E-35 6.09658E-73 1.14734E-26 6.15574E-25 3.81005E-07 3.06453E-33 3.27275E-44 8.40361E-43 1.71359E-57 5.91826E-30 6.99271E-50	0.000209535 1.58543E-29 1.4943E-100 Oenocytoids 8.14747E-12 8.5785E-34 2.70924E-71 1.14746E-25 5.6634E-24 1.1163E-06 4.04922E-32 Dividing Granulocytes 1.54932E-41 5.09267E-56 Granulocytes 6.9262E-29 1.59899E-48

AGAP003962 AGAP009922									
	AGAP003962	WSCD family member AGAP003962	21.0022062	-2.917402552	0 3655	7 9829	1.42915E-15	8.17985E-15	
	AGAP009922	salivary purine nucleosidase	430.34796	-2.915677883			2.05101E-85	1.28817E-83	
AGAP003993	AGAP003993	nan	6.7600248	-2.911199701			0.00026348	0.00055002	
AGAP006369	CPR144	cuticular protein RR-2 family 144	19.9078638		0.5092		1.09544E-08	3.70561E-08	
AGAP003453	AGAP003453	nan	5931.74076	-2.909971112			4.57113E-67	1.66917E-65	
				-2.909484598					
AGAP009128 AGAP008596	AGAP009128 AGAP008596	mitochondrial carnitine/acylcarnitine carrier protein long-chain-fatty-acidCoA ligase ACSBG	2204.91283		0.1843		3.85496E-56	1.10053E-54 2.64124E-32	
		· · ·	10721.8263	-2.903218293 -2.888483883	0.241		1.98212E-33		
AGAP005674	AGAP005674	nan	2631.86204		0.2026		3.98509E-46	8.19729E-45	
AGAP003015	AGAP003015			-2.883968137		12.329	6.3048E-35	8.87855E-34	
AGAP006740	AGAP006740	dolichyl-phosphate mannosyltransferase polypeptide 2, regulatory si	1307.9002	-2.880732197			7.08769E-31	8.57165E-30	
AGAP007752	AGAP007752	nan	40.4594783	-2.87946621			4.09318E-16	2.41919E-15	
AGAP002610	AGAP002610	nan	5.03221191	-2.863640478		-3.9771	6.97499E-05	0.000157619	
AGAP005301	AGAP005301	nan	45.0072735	-2.856312215			1.63972E-14	8.73252E-14	
AGAP008213	CYP6M3	cytochrome P450	104.606549	-2.852590248	0.3069	-9.2951	1.47038E-20	1.10819E-19	
AGAP008207	CYP6Y2	cytochrome P450	86.035535	-2.847535037			2.96365E-31	3.65452E-30	
AGAP008783	AGAP008783	Arginase [Source:UniProtKB/TrEMBL;Acc:A0A1S4H002]	1167.31795		0.1847		1.54982E-53	4.01123E-52	
AGAP008892	AGAP008892	nan	417.908217	-2.843210636	0.2159	13.169	1.3275E-39	2.18643E-38	
AGAP010142	Dat	dopamine N-acetyltransferase	2530.63992	-2.838286283	0.1599	17.747	1.82768E-70	7.58525E-69	
AGAP002789	AGAP002789	nan	5.70084052	-2.837506957	0.6762	-4.196	2.71662E-05	6.41919E-05	
AGAP003303	AGAP003303	nan	109.004999	-2.836879562	0.2309	12.288	1.04903E-34	1.46197E-33	
AGAP002672	AGAP002672	nan	668.892011	-2.835433553	0.1838	-15.429	1.04764E-53	2.72647E-52	
AGAP006699	AGAP006699	hairy and enhancer of split, invertebrate	858.698334	-2.832903216	0.1086	-26.077	6.587E-150	1.0699E-147	
AGAP012387	TOLL6	TOLL-like receptor 6	77.3245835	-2.828099213	0.3668	7.7112	1.24652E-14	6.70671E-14	
AGAP001590	AGAP001590	nan	302.039014	-2.823836965	0.2181		2.37916E-38	3.76076E-37	
AGAP013189	AGAP013189	nan	3067.58971	-2.817727508	0.1822	-15.466	5.85753E-54	1.53715E-52	
AGAP008632	AGAP008632	alpha-aminoadipic semialdehyde synthase	3981.68771	-2.812682021			1.96282E-69		Dividing Granulocytes
AGAP011459	AGAP011459	nan	33.1253239	-2.812048835			8.00967E-19	5.47598E-18	bittang bitanalocytes
AGAP008288	TIM	timeless	7798.30818	-2.805276006			1.5406E-101	1.3315E-99	
AGAP004270	AGAP004270	hexosaminidase	24.5336753		0.4168		1.98595E-11	8.53933E-11	
AGAP028177	AGAP028177	nan	7.9695215	-2.79499991		4.5894	4.446E-06	1.15774E-05	
			63.4230335			-4.5694		2.99192E-13	
AGAP009330	AGAP009330	Troponin C isoform 4"		-2.788674109			5.86569E-14		
AGAP008208	CYP6Y1	cytochrome P450	263.444328	-2.785155 -2.784010858	0.2155		3.36308E-38	5.27181E-37	
AGAP000262	AGAP000262	nan	12.6655084				1.62755E-06	4.43795E-06	
AGAP007601	AGAP007601	nan	537.939718	-2.781081293		12.614	1.76954E-36	2.61298E-35	
AGAP013770	AGAP013770	nan	73.4854943	-2.780319016	0.364		2.18759E-14	1.15523E-13	
AGAP001520	AGAP001520	protein phosphatase 1, regulatory (inhibitor) subunit 3	3229.13407	-2.778218252	0.153		1.01454E-73	4.5514E-72	
AGAP003849	AGAP003849	nan	13.1587734	-2.777089907			1.28833E-06	3.54997E-06	
AGAP029107	AGAP029107	nan	1012.84628	-2.772678791	0.237		1.29917E-31	1.6147E-30	
AGAP005496	LRIM12	leucine-rich immune protein (Short)	203.283658	-2.766593335	0.3225	-8.5793	9.54397E-18	6.18389E-17	
AGAP028029	AGAP028029	nan	5.02626872	-2.762000872	0.7591	-3.6384	0.000274325	0.000570386	
AGAP011714	nan	nan	439.767191	-2.761655121	0.1904	-14.505	1.12542E-47	2.46572E-46	
AGAP006158	AGAP006158	nan	36.2486886	-2.760644472	0.3219	-8.5766	9.76845E-18	6.32498E-17	
AGAP008009	AGAP008009	RYK receptor-like tyrosine kinase [Source:UniProtKB/TrEMBL;Acc:AO/	4.41505268	-2.760315422	0.7329	-3.7665	0.000165534	0.000355562	
AGAP005103	AGAP005103	nan	477.425162	-2.759866256	0.2061	13.394	6.57512E-41	1.13689E-39	
AGAP004976	PPO8	prophenoloxidase 8	43.90878	-2.747668438	0.2434	11.287	1.5251E-29	1.74369E-28	
AGAP007801	AGAP007801	vrille	2468.89931	-2.747094542			1.2181E-227	5.738E-225	
AGAP028400	AGAP028400	nan	5.69646929	-2.744756716			0.000313127	0.000645648	
AGAP008142	nan	nan	22.9964762	-2.744114338	0.4755		7.8605E-09	2.69679E-08	
AGAP001480	AGAP001480	nan	1445.71215	-2.743518159		-28.277	6.6421E-176	1.7879E-173	
AGAP012295	CYP9L1	cytochrome P450	635.65781		0.1749		2.67983E-55	7.36056E-54	
AGAP005776	PDH	pigment dispersing hormone	28.7151958	-2.738428116	0.5075		6.83162E-08	2.13823E-07	
AGAP002641	AGAP002641	nan	9.02264866	-2.729059706		-4.312	1.61757E-05	3.92154E-05	
AGAP004534	AGAP004534	cathepsin B precursor	86.8145119		0.2043		1.10832E-40	1.9019E-39	
AGAP007094	AGAP007094	nan	7.26679985	-2.727472848		4.5451	5.49007E-06	1.41587E-05	
AGAP000968	AGAP000968	nan	94.3562328	-2.725815367			4.12248E-32	5.22015E-31	
AGAP002341	AGAP002341	nan	1003.57572	-2.723399398	0.1967		1.29596E-43	2.48155E-42	
	AGAP002541		44.4004595	-2.720632296	0.3134		3.91329E-18	2.58898E-17	
AGAP007339	AGAP002341 AGAP007339	troponin C, isoform 3					8.43178E-50		
		fatty acid synthase, animal type	33667.3064	-2.719926417		-14.837	0.431/01-30	1.92338E-48	
AGAP007339	AGAP007339				0.1833	-14.837 -34.228	9.2256E-257	1.92338E-48 7.9013E-254	Granulocytes
AGAP007339 AGAP009176	AGAP007339 AGAP009176	fatty acid synthase, animal type	33667.3064 9070.62516	-2.719926417	0.1833 0.0793	-34.228			Granulocytes
AGAP007339 AGAP009176 AGAP000167	AGAP007339 AGAP009176 AGAP000167	fatty acid synthase, animal type Lipid storage droplets surface-binding protein 2	33667.3064 9070.62516	-2.719926417 -2.714439432	0.1833 0.0793 0.2536	-34.228 -10.698	9.2256E-257	7.9013E-254	Granulocytes
AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP013400	AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP013400	fatty acid synthase, animal type Lipid storage droplets surface-binding protein 2 ANK_REP_REGION domain-containing protein [Source:UniProtKB/Trf nan	33667.3064 9070.62516 68.6841714 5086.33564	-2.719926417 -2.714439432 -2.713220433 -2.703161119	0.1833 0.0793 0.2536 0.1731	-34.228 -10.698 -15.612	9.2256E-257 1.0417E-26 6.00712E-55	7.9013E-254 1.04292E-25 1.62624E-53	Granulocytes
AGAP007339 AGAP009176 AGAP000167 AGAP010269	AGAP007339 AGAP009176 AGAP000167 AGAP010269	fatty acid synthase, animal type Lipid storage droplets surface-binding protein 2 ANK_REP_REGION domain-containing protein [Source:UniProtKB/Trf	33667.3064 9070.62516 68.6841714 5086.33564 138.026837	-2.719926417 -2.714439432 -2.713220433	0.1833 0.0793 0.2536 0.1731 0.4011	-34.228 -10.698 -15.612 -6.7332	9.2256E-257 1.0417E-26	7.9013E-254 1.04292E-25	Granulocytes
AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP013400 AGAP005739	AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP013400 nan	fatty acid synthase, animal type Lipid storage droplets surface-binding protein 2 ANK_REP_REGION domain-containing protein [Source:UniProtKB/Trf nan nan	33667.3064 9070.62516 68.6841714 5086.33564	-2.719926417 -2.714439432 -2.713220433 -2.703161119 -2.700610582 -2.699881035	0.1833 0.0793 0.2536 0.1731 0.4011 0.1583	-34.228 -10.698 -15.612 -6.7332	9.2256E-257 1.0417E-26 6.00712E-55 1.66021E-11	7.9013E-254 1.04292E-25 1.62624E-53 7.17472E-11	Granulocytes
AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP013400 AGAP005739 AGAP007647 AGAP007647	AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP013400 nan AGAP007647 AGAP007647	fatty acid synthase, animal type Lipid storage droplets surface-binding protein 2 ANK_REP_REGION domain-containing protein [Source:UniProtKB/Trf nan nan synaptic vesicle protein	33667.3064 9070.62516 68.6841714 5086.33564 138.026837 3027.80365 31.6579558	-2.719926417 -2.714439432 -2.713220433 -2.703161119 -2.700610582 -2.699881035 -2.699466121	0.1833 0.0793 0.2536 0.1731 0.4011 0.1583 0.3022	-34.228 -10.698 -15.612 -6.7332 -17.054 -8.9333	9.2256E-257 1.0417E-26 6.00712E-55 1.66021E-11 3.27409E-65 4.13507E-19	7.9013E-254 1.04292E-25 1.62624E-53 7.17472E-11 1.14241E-63 2.87927E-18	Granulocytes
AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP013400 AGAP005739 AGAP007647 AGAP004157 AGAP004157	AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP013400 nan AGAP007647 AGAP004157 COEJHE2E	fatty acid synthase, animal type Lipid storage droplets surface-binding protein 2 ANK_REP_REGION domain-containing protein [Source:UniProtKB/Trf nan nan	33667.3064 9070.62516 68.6841714 5086.33564 138.026837 3027.80365 31.6579558 258.838753	-2.719926417 -2.714439432 -2.713220433 -2.703161119 -2.700610582 -2.699881035 -2.699466121 -2.687648621	0.1833 · 0.0793 · 0.2536 · 0.1731 · 0.4011 · 0.1583 · 0.3022 · 0.3022 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2	-34.228 -10.698 -15.612 -6.7332 -17.054 -8.9333 -9.5594	9.2256E-257 1.0417E-26 6.00712E-55 1.66021E-11 3.27409E-65 4.13507E-19 1.18386E-21	7.9013E-254 1.04292E-25 1.62624E-53 7.17472E-11 1.14241E-63 2.87927E-18 9.45181E-21	Granulocytes
AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP013400 AGAP005739 AGAP007647 AGAP007647 AGAP005834 AGAP009218	AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP013400 nan AGAP007647 AGAP004157 COEIHE2E AGAP009218	fatty acid synthase, animal type Lipid storage droplets surface-binding protein 2 ANK_REP_REGION domain-containing protein [Source:UniProtKB/Trf nan nan synaptic vesicle protein carboxylesterase nan	33667.3064 9070.62516 68.6841714 5086.33564 138.026837 3027.80365 31.6579558 258.838753 526.027122	-2.719926417 -2.714439432 -2.713220433 -2.703161119 -2.700610582 -2.699881035 -2.699466121 -2.687648621 -2.686723095	0.1833 · 0.0793 · 0.2536 · 0.1731 · 0.4011 · 0.1583 · 0.3022 · 0.2812 · 0.2812 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5865 · 0.5	-34.228 -10.698 -15.612 -6.7332 -17.054 -8.9333 -9.5594 -4.5807	9.2256E-257 1.0417E-26 6.00712E-55 1.66021E-11 3.27409E-65 4.13507E-19 1.18386E-21 4.63322E-06	7.9013E-254 1.04292E-25 1.62624E-53 7.17472E-11 1.14241E-63 2.87927E-18 9.45181E-21 1.20446E-05	Granulocytes
AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP013400 AGAP0075739 AGAP007647 AGAP0075834 AGAP005834 AGAP009218 AGAP002503	AGAP007339 AGAP00176 AGAP000167 AGAP010269 AGAP01269 AGAP007647 AGAP007647 AGAP004157 COEJHE2E AGAP009218 AGAP002503	fatty acid synthase, animal type Lipid storage droplets surface-binding protein 2 ANK_REP_REGION domain-containing protein [Source:UniProtKB/Trf nan nan synaptic vesicle protein carboxylesterase nan 4-coumarate:CoA ligase	33667.3064 9070.62516 68.6841714 5086.33564 138.026837 3027.80365 31.6579558 258.838753 526.027122 3661.11725	-2.719926417 -2.714439432 -2.713220433 -2.703161119 -2.700610582 -2.699881035 -2.699466121 -2.687648621 -2.687648621 -2.686723095 -2.686283431	0.1833 · 0.0793 · 0.2536 · 0.1731 · 0.4011 · 0.1583 · 0.3022 · 0.2812 · 0.2812 · 0.5865 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1765 · 0.1	-34.228 -10.698 -15.612 -6.7332 -17.054 -8.9333 -9.5594 -4.5807 -15.218	9.2256E-257 1.0417E-26 6.00712E-55 1.66021E-11 3.27409E-65 4.13507E-19 1.18386E-21 4.63322E-06 2.68018E-52	7.9013E-254 1.04292E-25 1.62624E-53 7.17472E-11 1.14241E-63 2.87927E-18 9.45181E-21 1.20446E-05 6.67989E-51	Granulocytes
AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP01269 AGAP005739 AGAP007647 AGAP004157 AGAP004157 AGAP00418 AGAP002503 AGAP002503 AGAP010969	AGAP007339 AGAP00176 AGAP00167 AGAP010269 AGAP01269 AGAP01450 COEIHE2E AGAP004157 COEIHE2E AGAP002503 AGAP002503 AGAP010969	fatty acid synthase, animal type Lipid storage droplets surface-binding protein 2 ANK_REP_REGION domain-containing protein [Source:UniProtKB/Trf nan nan synaptic vesicle protein carboxylesterase nan 4-coumarate:CoA ligase Roundabout 1	33667.3064 9070.62516 68.6841714 5086.33564 138.026837 3027.80365 31.6579558 258.838753 526.027122 3661.11725 62.0145588	-2.719926417 -2.714439432 -2.713220433 -2.703161119 -2.700610582 -2.699881035 -2.699466121 -2.687648621 -2.686723095 -2.686283431 -2.682168675	0.1833 · 0.0793 · 0.2536 · 0.1731 · 0.4011 · 0.1583 · 0.3022 · 0.2812 · 0.2812 · 0.5865 · 0.1765 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.2699 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.269 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 · 0.268 ·	-34.228 -10.698 -15.612 -6.7332 -17.054 -8.9333 -9.5594 -4.5807 -15.218 -9.9381	9.2256E-257 1.0417E-26 6.00712E-55 1.66021E-11 3.27409E-65 4.13507E-19 1.18386E-21 4.63322E-06 2.68018E-52 2.84093E-23	7.9013E-254 1.04292E-25 1.62624E-53 7.17472E-11 1.14241E-63 2.87927E-18 9.45181E-21 1.20446E-05 6.67989E-51 2.41774E-22	Granulocytes
AGAP007339 AGAP009176 AGAP010269 AGAP010269 AGAP013400 AGAP005739 AGAP007647 AGAP004157 AGAP004157 AGAP005834 AGAP002503 AGAP010569 AGAP012216	AGAP007339 AGAP00176 AGAP00167 AGAP010269 AGAP01269 AGAP007647 AGAP007647 AGAP004157 COEJHE2E AGAP002503 AGAP012503 AGAP012216	fatty acid synthase, animal type Lipid storage droplets surface-binding protein 2 ANK_REP_REGION domain-containing protein [Source:UniProtKB/Trf nan nan synaptic vesicle protein carboxylesterase nan 4-coumarate:CoA ligase Roundabout 1 sterol O-acyltransferase	33667.3064 9070.62516 68.6841714 5086.33564 138.026837 3027.80365 31.6579558 258.838753 526.027122 3661.11725 662.0145588 169.461239	-2.719926417 -2.714439432 -2.713220433 -2.703161119 -2.700310582 -2.699881035 -2.699466121 -2.687648621 -2.68672095 -2.686283431 -2.68228431 -2.682168675 -2.681926554	0.1833 · 0.0793 · 0.2536 · 0.1731 · 0.4011 · 0.1583 · 0.3022 · 0.2812 · 0.2812 · 0.5865 · 0.1765 · 0.2699 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2115 · 0.2	-34.228 -10.698 -15.612 -6.7332 -17.054 -8.9333 -9.5594 -4.5807 -15.218 -9.9381 -12.682	9.2256E-257 1.0417E-26 6.00712E-55 1.66021E-51 3.27409E-65 4.13507E-19 1.18386E-21 4.63322E-06 2.68018E-52 2.84093E-23 7.48376E-37	7.9013E-254 1.04292E-25 1.62624E-53 7.17472E-11 1.14241E-63 2.87927E-18 9.45181E-21 1.20446E-05 6.67989E-51 2.41774E-22 1.11735E-35	Granulocytes
AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP013400 AGAP007647 AGAP007647 AGAP007834 AGAP009218 AGAP009218 AGAP002503 AGAP010969 AGAP012216 AGAP007738	AGAP007339 AGAP00176 AGAP00167 AGAP010269 AGAP010269 AGAP01740 AGAP007647 AGAP007647 AGAP007647 AGAP002503 AGAP002503 AGAP010969 AGAP012216 AGAP007738	fatty acid synthase, animal type Lipid storage droplets surface-binding protein 2 ANK_REP_REGION domain-containing protein [Source:UniProtKB/Trf nan nan synaptic vesicle protein carboxylesterase nan 4-coumarate:CoA ligase Roundabout 1 sterol O-acyltransferase nan	33667.3064 9070.62516 68.6841714 5086.33564 138.026837 3027.80365 258.838753 526.027122 3661.11725 62.0145588 62.0145588 169.461239 221.051401	-2.719926417 -2.714439432 -2.713220433 -2.703161119 -2.700610582 -2.699881035 -2.69946121 -2.687648621 -2.686748621 -2.686283431 -2.682186675 -2.681226554 -2.681722654	0.1833 · · · · · · · · · · · · · · · · · ·	34.228 -10.698 -15.612 -6.7332 -17.054 -8.9333 -9.5594 -4.5807 -15.218 -9.9381 -12.682 -12.311	9.2256E-257 1.0417E-26 6.00712E-55 1.66021E-11 3.27409E-65 4.13507E-19 1.18386E-21 4.63322E-06 2.68018E-52 2.84093E-23 7.48376E-37 7.92426E-35	7.9013E-254 1.04292E-25 1.62624E-53 7.17472E-11 1.1424IE-63 2.87927E-18 9.45181E-21 1.20446E-05 6.67989E-51 2.41774E-22 1.11735E-35 1.11093E-33	Granulocytes
AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP013400 AGAP0075739 AGAP007647 AGAP0075834 AGAP002518 AGAP002503 AGAP012503 AGAP012516 AGAP007738 AGAP005740	AGAP007339 AGAP00176 AGAP00167 AGAP010269 AGAP013400 nan AGAP007647 AGAP007647 AGAP007507 COEJHE2E AGAP002503 AGAP002503 AGAP012506 AGAP012216 AGAP007738 nan	fatty acid synthase, animal type Lipid storage droplets surface-binding protein 2 ANK_REP_REGION domain-containing protein [Source:UniProtKB/Trf nan nan synaptic vesicle protein carboxylesterase nan 4-coumarate:CoA ligase Roundabout 1 sterol O-acyltransferase nan nan	33667.3064 9070.62516 68.6841714 5086.33564 138.026837 3027.80365 31.6579558 528.838753 526.027122 3661.11725 62.0145588 169.461239 221.051401 41.0247269	-2.719926417 -2.714439432 -2.713220433 -2.703161119 -2.700610582 -2.699881035 -2.689264521 -2.687648621 -2.687648621 -2.68272095 -2.682283431 -2.682168675 -2.681926554 -2.681926554 -2.68192654 -2.68192654	0.1833 · 0.0793 · 0.2536 · 0.1731 · 0.4011 · 0.1583 · 0.3022 · 0.2812 · 0.2812 · 0.2812 · 0.2865 · 0.1765 · 0.2699 · 0.2115 · 0.2699 · 0.2115 · 0.2178 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4357 · 0.4577 · 0.4577 · 0.4577 · 0.4577 · 0.4577 · 0.45777 · 0.45777 · 0.45777 · 0.45777 · 0.45777 · 0.457777 · 0.45777777 · 0.45777777777777777777777777777777777777	34.228 10.698 15.612 6.7332 17.054 8.9333 9.5594 4.5807 15.218 9.9381 12.682 12.311 6.1371	9.2256E-257 1.0417E-26 6.00712E-55 1.66021E-11 3.27409E-65 4.13507E-19 1.18386E-21 4.63322E-06 2.68018E-52 2.84093E-23 7.84376E-37 7.92426E-35 8.40181E-10	7.9013E-254 1.04292E-25 1.62624E-53 7.17472E-11 1.14241E-63 2.87927E-18 9.45181E-21 1.20446E-05 6.67989E-51 2.41774E-22 1.11735E-35 1.11093E-33 3.18525E-09	Granulocytes
AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP013400 AGAP005739 AGAP004157 AGAP004157 AGAP004157 AGAP002503 AGAP002503 AGAP010969 AGAP012216 AGAP005740 AGAP005740 AGAP002268	AGAP007339 AGAP001376 AGAP00167 AGAP010269 AGAP013400 nan AGAP007647 AGAP007647 AGAP004157 COEIHE2E AGAP002503 AGAP010969 AGAP010969 AGAP012216 AGAP007738 nan AGAP002268	fatty acid synthase, animal type Lipid storage droplets surface-binding protein 2 ANK_REP_REGION domain-containing protein [Source:UniProtKB/Trf nan nan synaptic vesicle protein carboxylesterase nan 4-coumarate:CoA ligase Roundabout 1 sterol O-acyltransferase nan nan	33667.3064 9070.62516 68.6841714 5086.33564 138.026837 3027.80365 21.6579558 258.838753 526.027122 3661.11725 3661.11725 3661.11725 3661.41725 92.0145588 169.461239 221.051401 41.0247269	-2.719926417 -2.714439432 -2.713220433 -2.703161119 -2.700610582 -2.699861035 -2.699466121 -2.687648621 -2.686723095 -2.686283431 -2.68128655 -2.681926554 -2.681926554 -2.673648343 -2.664891922	0.1833 · · · · · · · · · · · · · · · · · ·	34.228 10.698 15.612 6.7332 17.054 8.9333 9.5594 4.5807 15.218 9.9381 12.682 12.311 6.1371 13.149	9.2256E-257 1.0417E-26 6.00712E-55 4.16021E-11 3.27409E-65 4.13507E-19 1.18386E-21 4.63322E-06 4.63322E-06 2.68018E-52 2.84093E-23 7.48376E-37 7.92426E-35 8.40181E-10 1.72456E-39	7.9013E-254 1.04292E-25 1.62624E-53 7.17472E-11 1.14241E-63 2.87927E-18 9.45181E-21 1.20446E-05 6.67989E-51 2.41774E-22 1.11735E-35 1.11093E-33 3.18525E-09 2.83049E-38	Granulocytes
AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP013400 AGAP007647 AGAP007647 AGAP007647 AGAP007834 AGAP009218 AGAP009218 AGAP009218 AGAP01969 AGAP012216 AGAP007738 AGAP007738 AGAP005740 AGAP002268 AGAP003934	AGAP007339 AGAP00176 AGAP000167 AGAP010269 AGAP010269 AGAP01740 AGAP007647 AGAP007647 AGAP007647 AGAP002503 AGAP002503 AGAP002503 AGAP010216 AGAP007738 nan AGAP002268 AGAP0023934	fatty acid synthase, animal type Lipid storage droplets surface-binding protein 2 ANK_REP_REGION domain-containing protein [Source:UniProtKB/Trf nan nan synaptic vesicle protein carboxylesterase nan 4-coumarate:CoA ligase Roundabout 1 sterol O-acyltransferase nan nan nan man Battenin [Source:UniProtKB/TrEMBL;Acc:Q7Q2B1]	33667.3064 9070.62516 68.6841714 5086.33564 138.026837 3027.80365 258.838753 526.027122 3661.11725 62.0145588 169.461239 221.051401 41.0247269 81.051401 810.701736	-2.719926417 -2.714439432 -2.7031220433 -2.703161119 -2.700610582 -2.699861035 -2.699466121 -2.687648621 -2.687648621 -2.68172648 -2.681926554 -2.681722644 -2.676483433 -2.66481922 -2.661543747	0.1833 · 0.0793 · 0.2536 · 0.1731 · 0.4586 · 0.3022 · 0.3865 · 0.3686 · 0.3686 · 0.2689 · 0.2178 · 0.2178 · 0.2178 · 0.2178 · 0.2178 · 0.2178 · 0.2277 · 0.4357 · 0.2027 · 0.0961 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9661 · 0.9	34.228 10.698 15.612 6.7332 17.054 8.9333 9.5594 4.5807 15.218 9.9381 12.682 12.311 6.1371 13.149 -27.689	9.2256E-257 1.0417E-26 6.00712E-55 1.66021E-11 3.27409E-65 4.13507E-19 1.18386E-21 4.63322E-06 2.86018E-52 2.84093E-23 7.48376E-37 7.48376E-37 7.92426E-35 8.40181E-10 1.72456E-39 9.5586E-169	7.9013E-254 1.04292E-25 1.62624E-53 7.17472E-11 1.14241E-63 2.87927E-18 9.45181E-21 1.20446E-05 6.67989E-51 2.41774E-22 1.11735E-35 1.11093E-33 3.18525E-09 2.83049E-38 2.1441E-166	Granulocytes
AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP013400 AGAP007647 AGAP007647 AGAP007647 AGAP009218 AGAP002503 AGAP002503 AGAP012216 AGAP007738 AGAP007738 AGAP005740 AGAP002268 AGAP003934 AGAP003934	AGAP007339 AGAP00176 AGAP000167 AGAP010269 AGAP01269 AGAP007647 AGAP007647 AGAP007547 AGAP002518 AGAP002503 AGAP010959 AGAP0102516 AGAP002216 AGAP002268 AGAP003934 AGAP003934	fatty acid synthase, animal type Lipid storage droplets surface-binding protein 2 ANK_REP_REGION domain-containing protein [Source:UniProtKB/Trf nan nan synaptic vesicle protein carboxylesterase nan 4-coumarate:CoA ligase Roundabout 1 sterol O-acyltransferase nan nan nan Battenin [Source:UniProtKB/TrEMBL;Acc:Q7Q2B1] P37NB protein	33667.3064 9070.62516 68.6841714 5086.33564 138.026837 3027.80365 31.6579558 258.38753 526.027122 3661.11725 62.0145588 169.461239 221.051401 41.0247269 4372.36981 810.701736	-2.719926417 -2.714439432 -2.713220433 -2.703161119 -2.700610582 -2.699881035 -2.699466121 -2.687648621 -2.686728095 -2.686283431 -2.68212664 -2.68122654 -2.68122654 -2.661543747 -2.660769671	0.1833 · 0.0793 · 0.2536 · 0.1731 · 0.4011 · 0.1583 · 0.3022 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2813 · 0.2699 · 0.2115 · 0.2699 · 0.2115 · 0.2699 · 0.2178 · 0.2697 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2027 · 0.2	34.228 10.698 15.612 6.7332 17.054 8.9333 9.5594 4.5807 15.218 9.9381 12.682 12.311 6.1371 13.149 27.689 14.834	9.2256E-257 1.0417E-26 6.00712E-55 1.66021E-11 3.27409E-65 4.13507E-19 1.18386E-21 4.63322E-06 2.68018E-52 2.84093E-23 7.48376E-37 7.92426E-35 8.40181E-10 1.72456E-39 9.5586E-169 8.88369E-50	7.9013E-254 1.04292E-25 1.62624E-53 7.17472E-11 1.14241E-63 2.87927E-18 9.45181E-21 1.20446E-05 6.67989E-51 2.41774E-25 1.11735E-35 1.11093E-33 3.18525E-09 2.83049E-38 2.1441E-166 2.0167E-48	Granulocytes
AGAP007339 AGAP009176 AGAP00167 AGAP010269 AGAP01269 AGAP007647 AGAP007647 AGAP007547 AGAP002503 AGAP002503 AGAP002503 AGAP010969 AGAP012216 AGAP007738 AGAP005740 AGAP005740 AGAP003934 AGAP001127 AGAP00127	AGAP007339 AGAP00176 AGAP00167 AGAP010269 AGAP01269 AGAP007647 AGAP007647 AGAP007517 COEJHE2E AGAP00218 AGAP002503 AGAP012216 AGAP012216 AGAP007738 nan AGAP002268 AGAP003934 AGAP001127 CYP302A1	fatty acid synthase, animal type Lipid storage droplets surface-binding protein 2 ANK_REP_REGION domain-containing protein [Source:UniProtKB/Trf nan nan synaptic vesicle protein carboxylesterase nan 4-coumarate:CoA ligase Roundabout 1 sterol O-acyltransferase nan nan Battenin [Source:UniProtKB/TrEMBL;Acc:Q7Q2B1] P37NB protein cytochrome P450	33667.3064 9070.62516 68.6841714 5086.33564 138.026837 3027.80365 31.6579558 258.338753 526.027122 661.11725 62.0145588 169.461239 221.051401 41.0247269 4372.36981 810.701736 576.584241 80.4973131	-2.719926417 -2.714439432 -2.713220433 -2.703161119 -2.700610582 -2.699466121 -2.687648621 -2.686723095 -2.682283431 -2.682168675 -2.681926554 -2.673648343 -2.673648343 -2.664891922 -2.661543747 -2.660769671 -2.660769671	0.1833 · 0.0793 · 0.2536 · 0.1731 · 0.4011 · 0.1583 · 0.3022 · 0.2812 · 0.3022 · 0.2812 · 0.2812 · 0.2812 · 0.2812 · 0.2815 · 0.2699 · 0.2115 · 0.2699 · 0.2115 · 0.2097 · 0.2097 · 0.2097 · 0.20961 · 0.1794 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2698 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.	34.228 10.698 15.612 6.7332 17.054 8.9333 9.5594 4.5807 15.218 9.9381 12.682 12.311 6.1371 13.149 14.834 9.8275	9.2256E-257 1.0417E-26 6.00712E-55 1.66021E-11 3.27409E-65 4.13507E-19 1.18386E-21 4.63322E-06 2.68018E-52 2.84093E-23 7.48376E-37 7.92426E-35 8.40181E-10 1.72456E-39 9.5588E-169 8.88369E-50 8.56846E-23	7.9013E-254 1.04292E-25 1.62624E-53 7.17472E-11 1.14241E-63 2.87927E-18 9.45181E-21 1.20446E-05 6.67989E-51 2.41774E-22 1.11735E-35 1.11093E-33 3.18252E-09 2.83049E-38 2.1441E-166 2.0167E-48 7.15E-22	Granulocytes
AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP01740 AGAP00747 AGAP00747 AGAP00747 AGAP009218 AGAP009218 AGAP009218 AGAP019216 AGAP012216 AGAP007738 AGAP007738 AGAP007738 AGAP002268 AGAP003934 AGAP003934 AGAP00392	AGAP007339 AGAP00176 AGAP00167 AGAP010269 AGAP010269 AGAP0174 AGAP007647 AGAP007647 AGAP007647 AGAP002503 AGAP002503 AGAP002503 AGAP01969 AGAP012216 AGAP007738 nan AGAP002268 AGAP003241 AGAP00180	fatty acid synthase, animal type Lipid storage droplets surface-binding protein 2 ANK_REP_REGION domain-containing protein [Source:UniProtKB/Trf nan nan nan synaptic vesicle protein carboxylesterase nan 4-coumarate:CoA ligase Roundabout 1 sterol O-acyltransferase nan nan Battenin [Source:UniProtKB/TrEMBL;Acc:Q7Q2B1] P37NB protein cytochrome P450 phosphoribosylaminoimidazole carboxylase	33667.3064 9070.62516 68.6841714 5086.33564 138.026837 3027.80365 258.838753 526.027122 3661.11725 3661.11725 3661.11725 3661.41725 92.0145588 169.461239 221.051401 41.0247269 4372.36981 810.701736 576.584241 5773.79183	-2.719926417 -2.714439432 -2.713220433 -2.703161119 -2.700610582 -2.69946121 -2.687648621 -2.687648621 -2.686723055 -2.68623431 -2.681722644 -2.673648343 -2.664891922 -2.661543747 -2.6615072672 -2.66150726 -2.6619201	0.1833 · 0.0793 · 0.2536 · 0.1731 · 0.4011 · 0.1583 · 0.3022 · 0.2865 · 0.1765 · 0.2699 · 0.2115 · 0.2699 · 0.2178 · 0.2699 · 0.2178 · 0.2698 · 0.2277 · 0.9661 · 0.4357 · 0.0961 · 0.1794 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2698 · 0.2247 · 0.2688 · 0.2247 · 0.2688 · 0.2247 · 0.2688 · 0.2247 · 0.2688 · 0.2247 · 0.2688 · 0.2247 · 0.2688 · 0.2247 · 0.2688 · 0.2247 · 0.2688 · 0.2247 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2688 · 0.2	34.228 10.698 15.612 6.7332 17.054 4.5807 15.218 9.9381 12.682 12.311 6.1371 13.149 27.689 14.834 9.8275 11.792	9.2256E-257 1.0417E-26 6.00712E-55 1.66021E-11 3.27409E-65 4.13507E-19 1.18386E-21 4.63322E-06 2.86018E-52 7.48376E-37 7.92426E-35 8.40181E-10 1.72456E-39 9.5586E-169 8.858846E-23 4.28269E-32	7.9013E-254 1.04292E-25 1.62624E-53 7.17472E-11 1.14241E-63 2.87927E-18 9.45181E-21 1.20446E-05 6.67989E-51 2.41774E-22 1.11735E-35 1.11093E-33 3.18525E-09 2.83049E-38 2.1441E-166 2.0167E-48 7.15E-22 5.41574E-31	Granulocytes
AGAP007339 AGAP009176 AGAP000167 AGAP010269 AGAP013400 AGAP007647 AGAP007647 AGAP007647 AGAP009218 AGAP009218 AGAP002503 AGAP012216 AGAP007738 AGAP007738 AGAP007738 AGAP002268 AGAP00334 AGAP00334 AGAP001127 AGAP00392	AGAP007339 AGAP00176 AGAP000167 AGAP010269 AGAP010269 AGAP007647 AGAP007647 AGAP007503 AGAP002503 AGAP002503 AGAP012216 AGAP002218 AGAP002268 AGAP003934 AGAP003934 AGAP001127 CYP302A1 AGAP00180	fatty acid synthase, animal type Lipid storage droplets surface-binding protein 2 ANK_REP_REGION domain-containing protein [Source:UniProtKB/Trf nan nan synaptic vesicle protein carboxylesterase nan 4-coumarate:CoA ligase Roundabout 1 sterol O-acyltransferase nan nan nan nan Sattenin [Source:UniProtKB/TrEMBL;Acc:Q7Q2B1] P37NB protein cytochrome P450 phosphoribosylaminoimidazole carboxylase rhythmically expressed gene 2 protein	33667.3064 9070.62516 68.6841714 5086.33564 138.026837 9027.80365 31.657958 258.838753 526.027122 5461.11725 62.0145588 169.461239 221.051401 41.0247269 4372.36981 410.247269 4372.36981 576.584241 80.4973131 5773.79183 313.42621	-2.719926417 -2.714439432 -2.713220433 -2.703161119 -2.700610582 -2.699846121 -2.6897648621 -2.687648621 -2.686723095 -2.6812684313 -2.682168675 -2.681926554 -2.681926554 -2.66132747 -2.661343747 -2.66136707 -2.6649011 -2.649095701	0.1833 · 0.0793 · 0.2596 · 0.1791 · 0.4011 · 0.1583 · 0.3022 · 0.3022 · 0.3022 · 0.3022 · 0.1765 · 0.2699 · 0.2115 · 0.2699 · 0.2115 · 0.2027 · 0.0961 · 0.4357 · 0.2027 · 0.0961 · 0.1794 · 0.2087 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2247 · 0.2248 · 0.2248 · 0.2247 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2248 · 0.2288 · 0.2248 · 0.2288 · 0.2288 · 0.2288 · 0.2288 · 0.2288 · 0.2288 · 0.2288 · 0.2288 · 0.2288 · 0.2288 · 0.2288 · 0.2288 · 0.2	34.228 10.698 15.612 6.7332 17.054 4.89333 9.5594 4.5807 15.218 9.9381 12.682 12.311 6.1371 13.149 27.689 14.834 9.8275 11.792 11.995	9.2256E-257 1.0417E-26 6.00712E-55 1.66021E-11 3.27409E-65 4.13507E-19 1.18386E-92 2.84093E-23 2.84093E-23 7.48376E-37 7.92426E-35 8.40181E-10 1.72456E-39 9.5588E-169 8.88369E-50 8.56846E-23 4.28269E-32 3.77261E-33	7.9013E-254 1.04292E-25 1.62624E-53 7.17472E-11 1.14241E-63 2.87927E-18 1.20446E-05 6.67989E-51 2.41774E-22 1.11735E-35 1.11093E-33 3.18525E-09 2.83049E-38 2.1441E-166 2.0167E-48 7.15E-22 5.41574E-31 4.96393E-32	Granulocytes
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protein-like protein nan nan Late trypsin nan	33667.3064 9070.62516 68.6841714 5086.33564 138.026837 3027.80365 258.338753 526.027122 62.0145588 169.461239 221.051401 41.0247269 4372.36981 810.701736 576.584241 80.4973131 5773.79183 313.42621 53.4834947 1841.38919 9.33884706 20.2503579	-2.719926417 -2.71420433 -2.71322043 -2.703161119 -2.700610582 -2.699861035 -2.689264521 -2.687648621 -2.6872685 -2.682283431 -2.68272644 -2.68122654 -2.681926554 -2.661543747 -2.660769671 -2.661543747 -2.661543747 -2.661543747 -2.660759671 -2.661930701 -2.64950914 -2.64516117 -2.64159965 -2.64044595	0.1833 · 0.0793 · 0.2536 · 0.1731 · 0.4011 · 0.1583 · 0.3022 · 0.2812 · 0.2812 · 0.2812 · 0.2813 · 0.2699 · 0.2115 · 0.2017 · 0.2603 · 0.4357 · 0.2027 · 0.2603 · 0.4357 · 0.2603 · 0.2247 · 0.2603 · 0.2247 · 0.2603 · 0.2247 · 0.2603 · 0.2243 · 0.2243 · 0.2243 · 0.2243 · 0.2243 · 0.2243 · 0.2243 · 0.2243 · 0.2243 · 0.2243 · 0.2243 · 0.2243 · 0.2243 · 0.2243 · 0.2243 · 0.2243 · 0.2243 · 0.2243 · 0.2243 · 0.2243 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1.11093E-33 3.18525E-09 2.83049E-38 2.1441E-166 2.0167E-48 7.15E-22 5.41574E-31 3.82631E-20 3.0159E-102 2.07692E-06 4.93078E-12	Granulocytes
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carboxylesterase nan 4-coumarate:CoA ligase Roundabout 1 sterol O-acyltransferase nan nan Battenin [Source:UniProtKB/TrEMBL;Acc:Q7Q2B1] P37NB protein cytochrome P450 phosphoribosylaminoimidazole carboxylase rhythmically expressed gene 2 protein alpha-tocopherol transfer protein-like protein nan nan putative calcitonin receptor 1 nan 1-acyl-sn-glycerol-3-phosphate acyltransferase alpha 4-coumarate:CoA ligase isoform 2 [Source:UniProtKB/TrEMBL;Acc:Q7 nan putative calcitonin receptor 1 nan 4-coumarate:CoA ligase isoform 2 [Source:UniProtKB/TrEMBL;Acc:Q7 nan decaprenyl-diphosphate synthase subunit 1	33667.3064 9070.62516 68.684114 5086.33564 138.026837 3027.80365 31.657958 258.838753 526.027122 62.0145588 169.461239 221.051401 41.0247269 4372.36981 810.701736 576.584241 80.4973131 5773.79183 313.42621 53.4834947 1841.38919 9.33984706 20.2503579 84.2787943 79.1578349 6245.8815 370.072892 107.348715 370.72892 107.348715 370.72892 107.348715 370.72892 107.348715 370.72892	-2.719926417 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[Source:UniProtKB/Trf nan nan synaptic vesicle protein carboxylesterase nan 4-coumarate:CoA ligase Roundabout 1 sterol O-acyltransferase nan nan Battenin [Source:UniProtKB/TrEMBL;Acc:Q7Q2B1] P37NB protein cytochrome P450 phosphoribosylaminoimidazole carboxylase rhythmically expressed gene 2 protein alpha-tocopherol transfer protein-like protein nan Late trypsin nan yellow protein Potassium channel subfamily K, invertebrate [Source:UniProtKB/TrEP nan 1-acyl-sn-glycerol-3-phosphate acyltransferase alpha 4-coumarate:CoA ligase isoform 2 [Source:UniProtKB/TrEMBL;Acc:Q7 nan 1-acyl-sn-glycerol-3-phosphate subunit 1 nan	33667.3064 9070.62516 68.6841714 5086.33564 138.026837 3027.80365 31.6579558 258.338753 256.027122 62.0145588 169.461239 221.051401 41.0247269 4372.36981 810.701736 576.584241 80.4973131 577.379183 31.342621 53.4834947 1841.38919 9.33984706 0.2503579 84.2787943 79.1578349 6245.8815 370.072892 107.348715 379.2162407 1450.95555 756.12112 394.558751 36.9606393	-2.719926417 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7.92426E-35 8.40181E-10 1.72456E-39 9.5586E-169 8.85846E-23 4.28269E-32 4.28269E-32 4.28269E-32 4.3277E1-33 3.77261E-33 4.96717E-21 3.2013E-104 7.34118E-07 1.04729E-12 2.95951E-19 1.52893E-37 5.97309E-42 1.4188E-25 1.89803E-23 7.79382E-41 3.18945E-53 2.3612E-58 5.40774E-33 3.45261E-14 6.92004E-43	7.9013E-254 1.04292E-25 1.62624E-53 7.17472E-11 1.14241E-63 2.87927E-18 9.45181E-21 1.20446E-05 6.67989E-51 1.1093E-33 1.11093E-33 2.83049E-38 2.1441E-166 2.0167E-48 7.15E-22 5.41574E-31 4.96393E-32 3.0159E-102 2.07692E-06 1.06175E-40 3.855261E-24 1.06175E-40 1.06175E-40 1.06175E-40 1.0557E-22 1.34233E-39 8.18741E-52 7.17575E-57 7.08572E-32 1.78917E-13 1.28082E-41	
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animal type Lipid storage droplets surface-binding protein 2 ANK_REP_REGION domain-containing protein [Source:UniProtKB/Trf nan nan synaptic vesicle protein carboxylesterase nan 4-coumrate:CoA ligase Roundabout 1 sterol O-acyltransferase nan nan nan nan nan nan nan na	33667.3064 9070.62516 68.6841714 5086.33564 138.026837 9077.80365 31.6579558 258.838753 526.027122 62.0145588 169.461239 221.051401 41.0247269 4372.36981 430.701736 576.584241 80.4973131 53.4834947 1841.38919 9.33984706 20.2503579 84.2787943 79.1578349 6245.8815 370.072892 07.348715 792.162407 1450.95555 756.12112 394.558751 36.9606393 20.711143 31.9498117	-2.719926417 -2.71420433 -2.7032043 -2.703161119 -2.700610582 -2.69981035 -2.699466121 -2.68764821 -2.68764821 -2.68723095 -2.68122644 -2.68122644 -2.68122644 -2.631264481922 -2.661543747 -2.66164891922 -2.66452914 -2.641690951 -2.644905271 -2.64161995 -2.64044595 -2.64044595 -2.634037214 -2.631611082 -2.631610182 -2.631610182 -2.631610182 -2.631610182 -2.631610182 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[Source:UniProtKB/Trf nan nan synaptic vesicle protein carboxylesterase nan 4-coumarate:CoA ligase Roundabout 1 sterol O-acyltransferase nan nan Battenin [Source:UniProtKB/TrEMBL;Acc:Q7Q2B1] P37NB protein cytochrome P450 phosphoribosylaminoimidazole carboxylase rhythmically expressed gene 2 protein alpha-tocopherol transfer protein-like protein nan Late trypsin nan yellow protein Potassium channel subfamily K, invertebrate [Source:UniProtKB/TrEP nan 1-acyl-sn-glycerol-3-phosphate acyltransferase alpha 4-coumarate:CoA ligase isoform 2 [Source:UniProtKB/TrEMBL;Acc:Q7 nan 1-acyl-sn-glycerol-3-phosphate subunit 1 nan	33667.3064 9070.62516 68.6841714 5086.33564 138.026837 3027.80365 31.6579558 258.338753 256.027122 62.0145588 169.461239 221.051401 41.0247269 4372.36981 810.701736 576.584241 80.4973131 577.379183 31.342621 53.4834947 1841.38919 9.33984706 0.2503579 84.2787943 79.1578349 6245.8815 370.072892 107.348715 379.2162407 1450.95555 756.12112 394.558751 36.9606393	-2.719926417 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4.13507E-19 1.18386E-21 4.63322E-06 2.68018E-52 7.48376E-37 7.92426E-35 8.40181E-10 1.72456E-39 9.5586E-169 8.85846E-23 4.28269E-32 4.28269E-32 4.28269E-32 4.3277E1-33 3.77261E-33 4.96717E-21 3.2013E-104 7.34118E-07 1.04729E-12 2.95951E-19 1.52893E-37 5.97309E-42 1.4188E-25 1.89803E-23 7.79382E-41 3.18945E-53 2.3612E-58 5.40774E-33 3.45261E-14 6.92004E-43	7.9013E-254 1.04292E-25 1.62624E-53 7.17472E-11 1.14241E-63 2.87927E-18 9.45181E-21 1.20446E-05 6.67989E-51 1.1093E-33 1.11093E-33 2.83049E-38 2.1441E-166 2.0167E-48 7.15E-22 5.41574E-31 4.96393E-32 3.0159E-102 2.07692E-06 1.06175E-40 3.855261E-24 1.06175E-40 1.06175E-40 1.06175E-40 1.0557E-22 1.34233E-39 8.18741E-52 7.17575E-57 7.08572E-32 1.78917E-13 1.28082E-41	Dividing Granulocytes

AGAP001524	AGAP001524	nan	71.7487177	-2.599672448	0.2849 -9.1264	7.07987E-20	5.16249E-19
AGAP008982	AGAP008982	CzcD (Cation-efflux system membrane protein) [Source:UniProtKB/Tr	356.806884	-2.599164944	0.229 -11.352	7.28096E-30	8.46838E-29
AGAP007029	AGAP007029	glucosyl/glucuronosyl transferases	527.444528	-2.597261687	0.1792 -14.493	1.35051E-47	2.93838E-46
AGAP010860	AGAP010860	sodium-dependent nutrient amino acid transporter 2	700.333353	-2.595959467	0.219 -11.855	2.03445E-32	2.61838E-31
AGAP008143	AGAP008143	nan	23.8458732	-2.595511659	0.4224 -6.145	7.99724E-10	3.03676E-09
AGAP007163	AGAP007163	3',5'-cyclic-nucleotide phosphodiesterase	313.285862	-2.594609145	0.1854 -13.993	1.73114E-44	3.38362E-43
AGAP012477	AGAP012477	gamma-butyrobetaine dioxygenase	43.7310946	-2.58874021	0.3542 -7.3092	2.68647E-13	1.31204E-12
AGAP011322	AGAP011322	fibulin 2	10.4308474	-2.588621121	0.6504 -3.9799	6.89343E-05	0.000155926
AGAP013537	AGAP013537	nan	15.564936		0.5132 -5.0394	4.66996E-07	1.34915E-06
AGAP006579	AGAP006579	nan	18.5285262		0.5121 -5.0505	4.40577E-07	1.27595E-06
AGAP006548	AGAP006548	glycine cleavage system H protein	3029.33721		0.2382 -10.854	1.91878E-27	1.99084E-26
AGAP002084	AGAP002084	glycerol-3-phosphate O-acyltransferase 3/4	1244.10441	-2.578332454	0.21 -12.279	1.1747E-34	1.62988E-33
AGAP012307	AGAP012307	Spondin-1	15732.9862		0.1781 -14.441	2.84551E-47	6.06505E-46
AGAP005581	AGAP005581	3-hydroxyisobutyrate dehydrogenase [Source:UniProtKB/TrEMBL;Act			0.1729 -14.836	8.61132E-50	1.95959E-48
AGAP001561	GPRNNA5	putative GPCR class a orphan receptor 5	39.8573453		0.3002 -8.5357	1.3925E-17	8.95477E-17
AGAP009364	AGAP009364	nan	32.8702336		0.4466 -5.7327	9.88478E-09	3.36798E-08
AGAP005783	AGAP005783	nan	129.288309		0.2169 -11.798	4.00764E-32	5.08156E-31
AGAP011427	nan	nan	197.796839		0.2501 -10.217	1.67081E-24	1.50054E-23
AGAP010632	nan	nan	559.977344		0.2491 -10.236	1.37148E-24	1.23643E-23
AGAP004600	nan	nan	197.437918	-2.544823074		4.99063E-62	1.61016E-60
AGAP007920	AGAP007920	glucuronosyltransferase	1090.97589		0.2074 -12.249	1.69933E-34	2.35087E-33
AGAP009763	AGAP009763	nan	108.051319	-2.535435227		5.26959E-24	4.65711E-23
AGAP002449	AGAP002449	3-OH androgenic UDPGT	10.2672766		0.4894 -5.1807	2.21103E-07	6.60646E-07
AGAP002156	GPRGNR1	putative gonadotrophin releasing hormone receptor 1	1190.95674		0.2038 -12.439	1.60396E-35	2.31053E-34
AGAP003759	AGAP003759	juvenile hormone-inducible protein	900.466307		0.2116 -11.969	5.16558E-33	6.7873E-32 Granulocytes
AGAP006698	AGAP006698	nan	20.9079053	-2.523103693	0.371 -6.8001	1.04529E-11	4.59101E-11
AGAP009472	ABCG20	ATP-binding cassette transporter (ABC transporter) family G member	63.036108	-2.517693555	0.275 -9.1558	5.39325E-20	3.95407E-19
AGAP003472 AGAP010887	CPR113	cuticular protein RR-2 family 113	16.3552987	-2.515612185		1.49864E-06	4.10428E-06
AGAP010887 AGAP009757	ANCE7	angiotensin-converting enzyme 7	10.4647292		0.5018 -4.9994	5.75158E-07	1.64598E-06
AGAP003737	AGAP003422	endoplasmic reticulum metallopeptidase 1	125.955835		0.2339 -10.725	7.80256E-27	7.87866E-26
	AGAP005422 AGAP006741	nan	578.501361		0.2433 -10.296	7.37979E-25	6.75E-24
AGAP006741 AGAP002250	AGAP008741 AGAP002250	calcium/calmodulin-dependent protein kinase kinase	527.504932				4.04642E-29
					0.2193 -11.418 0.1176 -21.292	3.41461E-30	4.04642E-29 1.1509E-98
AGAP012399	AGAP012399	maltase	3023.90855			1.356E-100	
AGAP006569	AGAP006569	acetyl-CoA synthetase	716.52121		0.1061 -23.592	4.6247E-123	5.8092E-121
AGAP007761	AGAP007761	Complement control protein	14.786335	-2.502881112		8.61892E-07	2.41807E-06
AGAP009312	AGAP009312	nan	9.586563	-2.493802194	0.551 -4.5257	6.02074E-06	1.54368E-05
AGAP011750	AGAP011750	alpha-N-acetylglucosaminidase	722.334084		0.2349 -10.618	2.45678E-26	2.42106E-25
AGAP009347	AGAP009347	FK506-binding protein 4/5	3624.89028		0.1689 -14.711	5.48884E-49	1.22247E-47
AGAP009556	AGAP009556	nan	559.315853		0.1965 -12.595	2.26295E-36	3.33114E-35
AGAP006819	AGAP006819	abhydrolase domain-containing protein 1/3	631.818128		0.2032 -12.156	5.29825E-34	7.24453E-33
AGAP002826	AGAP002826	nan	33.9130791		0.6566 -3.7611	0.000169195	0.00036293
AGAP009896	AGAP009896	proton-coupled amino acid transporter	69.8293157		0.2596 -9.5024	2.05032E-21	1.6232E-20
AGAP011509	COEunkn	carboxylesterase	420.334576		0.3092 -7.9515	1.84278E-15	1.04836E-14
AGAP000095	AGAP000095	anoctamin 5	4124.76665		0.0772 -31.844	1.5845E-222	6.7855E-220
AGAP008557	AGAP008557	AMP-binding domain protein	292.756205		0.1995 -12.293	9.84826E-35	1.37452E-33
AGAP000698	AGAP000698	nan	981.786796		0.0813 -30.098	5.1128E-199	1.661E-196 Granulocytes
AGAP002109	AGAP002109	solute carrier family 31 (copper transporter), member 1	5710.06577	-2.444179463		2.18898E-24	1.95844E-23
AGAP012813	AGAP012813	nan	152.580053		0.1883 -12.958	2.1264E-38	3.36687E-37
AGAP001884	AGAP001884	fumarate hydratase, class II	11280.3377		0.1692 -14.409	4.55178E-47	9.57194E-46 Oenocytoids
AGAP007662	AGAP007662	All-trans/9-cis	11.9938402	-2.436478461	0.4515 -5.3959	6.81775E-08	2.1346E-07
AGAP005617	AGAP005617	nan	3311.35222	-2.43499106	0.1134 -21.465	3.2861E-102	2.8665E-100
AGAP009609	AGAP009609	homogentisate 1,2-dioxygenase	22.0763605	-2.427578942	0.3998 -6.0727	1.25793E-09	4.69501E-09
AGAP001989	AGAP001989	nan	4244.17765	-2.419207125	0.2014 -12.009	3.18551E-33	4.20318E-32
AGAP003927	ILP5	Insulin-like peptide 5	32.0637047	-2.41812528	0.5408 -4.4711	7.78321E-06	1.969E-05
AGAP011197	AGAP011197	nan	15631.9393	-2.417966052	0.3117 -7.7563	8.74367E-15	4.78641E-14 Granulocytes
AGAP004802	AGAP004802	4-hydroxyphenylpyruvate dioxygenase [Source:UniProtKB/TrEMBL;A	135.189293	-2.413744061	0.2708 -8.914	4.92069E-19	3.41117E-18
AGAP012391	AGAP012391	nan	24.8363814	-2.412875336	0.3979 -6.0641	1.32681E-09	4.93677E-09
AGAP003579	AGAP003579	cadherin-87A	139.194367	-2.412126322	0.1743 -13.838	1.49847E-43	2.84045E-42
AGAP004620	AGAP004620	Envelysin	15.5825335	-2.411984736	0.4254 -5.6696	1.43097E-08	4.79074E-08
AGAP028196	AGAP028196	nan	266.574124	-2.409816791	0.2173 -11.09	1.404E-28	1.53982E-27
AGAP002891	GPRMGL4	putative metabotropic glutamate receptor 4	373.811128	-2.407173492	0.2192 -10.979	4.80847E-28	5.11871E-27
AGAP002738	SCRB5	Class B Scavenger Receptor (CD36 domain).	38.217221	-2.404354095		1.11032E-14	6.01859E-14
AGAP002761	AGAP002761	3-methylcrotonyl-CoA carboxylase beta subunit	1711.80514		0.2023 -11.881	1.4801E-32	1.91276E-31
AGAP000131	AGAP000131	nan	29.2004817		0.3135 -7.6688	1.73551E-14	9.23222E-14
AGAP011715	nan	nan	2052.03365		0.1053 -22.815	3.2285E-115	3.755E-113
AGAP008688	AGAP008688	nan	3288.38596		0.1915 -12.544	4.30178E-36	6.29302E-35
AGAP002925	AGAP002925	poly(U)-specific endoribonuclease	6803.74621		0.2459 -9.7675	1.55225E-22	1.28504E-21
AGAP007095	AGAP007095	nan	8.07568557		0.5705 -4.2069	2.58844E-05	6.13015E-05
AGAP011231	AGAP011231	fibrinogen	77.3634722		0.3923 -6.1117	9.85592E-10	3.71262E-09
AGAP000327	AGAP000327	tyrosine aminotransferase	1656.41281		0.2245 -10.679	1.2738E-26	1.27258E-25
AGAP003358	AGAP003358	Sugar transporter SWEET [Source:UniProtKB/TrEMBL;Acc:A0NDW1]	110.058707		0.3004 -7.9789	1.47585E-15	8.44202E-15
AGAP011052	nan	nan	857.99609		0.1623 -14.767	2.39414E-49	5.38309E-48
AGAP006637	AGAP006637	Oatp58Dc	12.5468924		0.6858 -3.4915	0.000480403	0.000965212
AGAP011830	AGAP011830	myo-inositol-1-phosphate synthase	34.555182	-2.389023549		3.97412E-10	1.55547E-09
AGAP003267	AGAP003267	nan	45.6408423		0.3007 -7.9344	2.11486E-15	1.19592E-14
AGAP011158	AGAP011158	Kynurenineoxoglutarate transaminase 3 isoform 1	2474.65055		0.1095 -21.769	4.5306E-105	4.3554E-103 Oenocytoids
AGAP007664	AGAP007664	coiled-coil domain-containing protein 34	27.849818	-2.384306765		5.19672E-10	2.00896E-09
		dynein, axonemal heavy chain	6.36055081	-2.380253171		0.000219288	0.000463625
	AGAP007675	dynein, axonemai neavy chain					
AGAP007675	AGAP007675 AGAP000238	nan					
AGAP007675 AGAP000238	AGAP000238	nan	703.056376	-2.380158991	0.2402 -9.9074	3.86679E-23	3.27305E-22
AGAP007675 AGAP000238 AGAP007781	AGAP000238 AGAP007781	nan eukaryotic translation initiation factor 4E-binding protein 1	703.056376 14699.8994	-2.380158991 -2.378865811	0.2402 -9.9074 0.0693 -34.312	3.86679E-23 5.16E-258	3.27305E-22 5.4014E-255
AGAP007675 AGAP000238 AGAP007781 AGAP012000	AGAP000238 AGAP007781 AGAP012000	nan eukaryotic translation initiation factor 4E-binding protein 1 fibrinogen and fibronectin	703.056376 14699.8994 4234.79495	-2.380158991 -2.378865811 -2.37771306	0.2402 -9.9074 0.0693 -34.312 0.1924 -12.361	3.86679E-23 5.16E-258 4.23122E-35	3.27305E-22 5.4014E-255 6.01242E-34 Oenocytoids
AGAP007675 AGAP000238 AGAP007781 AGAP012000 AGAP008012	AGAP000238 AGAP007781 AGAP012000 AGAP008012	nan eukaryotic translation initiation factor 4E-binding protein 1 fibrinogen and fibronectin nan	703.056376 14699.8994 4234.79495 596.141968	-2.380158991 -2.378865811 -2.37771306 -2.377128217	0.2402 -9.9074 0.0693 -34.312 0.1924 -12.361 0.2183 -10.888	3.86679E-23 5.16E-258 4.23122E-35 1.3098E-27	3.27305E-22 5.4014E-255 6.01242E-34 Oenocytoids 1.36349E-26
AGAP007675 AGAP000238 AGAP007781 AGAP012000 AGAP008012 AGAP000015	AGAP000238 AGAP007781 AGAP012000 AGAP008012 AGAP000015	nan eukaryotic translation initiation factor 4E-binding protein 1 fibrinogen and fibronectin nan proto-oncogene tyrosine-protein kinase ROS	703.056376 14699.8994 4234.79495 596.141968 56.839972	-2.380158991 -2.378865811 -2.37771306 -2.377128217 -2.376981853	0.2402 -9.9074 0.0693 -34.312 0.1924 -12.361 0.2183 -10.888 0.2965 -8.0166	3.86679E-23 5.16E-258 4.23122E-35 1.3098E-27 1.08705E-15	3.27305E-22 5.4014E-255 6.01242E-34 Oenocytoids 1.36349E-26 6.27132E-15
AGAP007675 AGAP000238 AGAP007781 AGAP012000 AGAP008012 AGAP008015 AGAP003005	AGAP000238 AGAP007781 AGAP012000 AGAP008012 AGAP000015 AGAP003005	nan eukaryotic translation initiation factor 4E-binding protein 1 fibrinogen and fibronectin nan proto-oncogene tyrosine-protein kinase ROS serine/threonine-protein kinase SIK	703.056376 14699.8994 4234.79495 596.141968 56.839972 567.698708	-2.380158991 -2.378865811 -2.37771306 -2.377128217 -2.376981853 -2.376750193	0.2402 -9.9074 0.0693 -34.312 0.1924 -12.361 0.2183 -10.888 0.2965 -8.0166 0.1422 -16.71	3.86679E-23 5.16E-258 4.23122E-35 1.3098E-27 1.08705E-15 1.10866E-62	3.27305E-22 5.4014E-255 6.01242E-34 Oenocytoids 1.36349E-26 6.27132E-15 3.63925E-61
AGAP007675 AGAP00238 AGAP007781 AGAP012000 AGAP008012 AGAP008015 AGAP003005 AGAP012742	AGAP000238 AGAP007781 AGAP012000 AGAP008012 AGAP000015 AGAP003005 AGAP012742	nan eukaryotic translation initiation factor 4E-binding protein 1 fibrinogen and fibronectin nan proto-oncogene tyrosine-protein kinase ROS serine/threonine-protein kinase SIK nan	703.056376 14699.8994 4234.79495 596.141968 56.839972 567.698708 8.2364549	-2.380158991 -2.378865811 -2.37771306 -2.377128217 -2.376981853 -2.376750193 -2.373141712	0.2402 -9.9074 0.0693 -34.312 0.1924 -12.361 0.2183 -10.888 0.2965 -8.0166 0.1422 -16.71 0.5079 -4.6725	3.86679E-23 5.16E-258 4.23122E-35 1.3098E-27 1.08705E-15 1.10866E-62 2.97616E-06	3.27305E-22 5.4014E-255 6.01242E-34 Oenocytoids 1.36349E-26 6.27132E-15 3.63925E-61 7.89368E-06
AGAP007675 AGAP00238 AGAP007781 AGAP012000 AGAP008012 AGAP000015 AGAP003005 AGAP012742 AGAP012645	AGAP000238 AGAP007781 AGAP012000 AGAP008012 AGAP000015 AGAP003005 AGAP012742 AGAP010645	nan eukaryotic translation initiation factor 4E-binding protein 1 fibrinogen and fibronectin nan proto-oncogene tyrosine-protein kinase ROS serine/threonine-protein kinase SIK nan nan	703.056376 14699.8994 4234.79495 596.141968 56.839972 567.698708 8.2364549 625.912603	-2.380158991 -2.378865811 -2.37771306 -2.377128217 -2.376981853 -2.376750193 -2.373141712 -2.372574179	0.2402 -9.9074 0.0693 -34.312 0.1924 -12.361 0.2133 -10.888 0.2965 -8.0166 0.1422 -16.71 0.5079 -4.6725 0.2409 -9.8491	3.86679E-23 5.16E-258 4.23122E-35 1.3098E-27 1.08705E-15 1.10866E-62 2.97616E-06 6.91789E-23	3.27305E-22 5.4014E-255 6.01242E-34 Oenocytoids 1.36349E-26 6.27132E-15 3.63925E-61 7.89368E-06 5.77778E-22
AGAP007675 AGAP00238 AGAP007781 AGAP012000 AGAP008012 AGAP000015 AGAP003005 AGAP012742 AGAP010645 AGAP006743	AGAP000238 AGAP007781 AGAP012000 AGAP008012 AGAP003005 AGAP012742 AGAP012742 AGAP010645 AGAP010645	nan eukaryotic translation initiation factor 4E-binding protein 1 fibrinogen and fibronectin nan proto-oncogene tyrosine-protein kinase ROS serine/threonine-protein kinase SIK nan nan nan	703.056376 14699.8994 4234.79495 596.141968 56.839972 567.698708 8.2364549 625.912603 1458.16669	-2.380158991 -2.378865811 -2.37771306 -2.377718217 -2.376981853 -2.376750193 -2.373141712 -2.372574179 -2.372151238	0.2402 -9.9074 0.0693 -34.312 0.1924 -12.361 0.2183 -10.888 0.2965 -8.0166 0.1422 -16.71 0.5079 -4.6725 0.2409 -9.8491 0.1901 -12.479	3.86679E-23 5.16E-258 4.23122E-35 1.3098E-27 1.08705E-15 1.10866E-62 2.97616E-06 6.91789E-23 9.73705E-36	3.27305E-22 5.4014E-255 6.01242E-34 Oenocytoids 1.36349E-26 6.27132E-15 3.63925E-61 7.89368E-06 5.77778E-22 1.41782E-34 Oenocytoids
AGAP007675 AGAP00238 AGAP007781 AGAP012000 AGAP008012 AGAP003005 AGAP003005 AGAP012742 AGAP01645 AGAP006743 AGAP005302	AGAP000238 AGAP012000 AGAP008012 AGAP008012 AGAP000015 AGAP003005 AGAP012742 AGAP01645 AGAP006743 AGAP005302	nan eukaryotic translation initiation factor 4E-binding protein 1 fibrinogen and fibronectin nan proto-oncogene tyrosine-protein kinase ROS serine/threonine-protein kinase SIK nan nan nan DIRAS family, GTP-binding Ras-like 2	703.056376 14699.8994 4234.79495 596.141968 568.39972 567.698708 8.2364549 625.912603 1458.16669 68.5889576	-2.380158991 -2.378865811 -2.37771306 -2.377128217 -2.376981853 -2.376750193 -2.373141712 -2.372574179 -2.372574179 -2.372574179	0.2402 -9.9074 0.0693 -34.312 0.1924 -12.361 0.2183 -10.888 0.2955 -8.0166 0.1422 -16.71 0.5079 -4.6725 0.2409 -9.8491 0.1901 -12.479 0.2906 -8.15	3.86679E-23 5.16E-258 4.23122E-35 1.3098E-27 1.08705E-15 1.10866E-62 2.97616E-06 6.91789E-23 9.73705E-36 3.63803E-16	3.27305E-22 5.4014E-255 6.01242E-34 Oenocytoids 1.36349E-26 6.27132E-15 3.63925E-61 7.89368E-06 5.77778E-22 1.41782E-34 Oenocytoids 2.15288E-15
AGAP007675 AGAP00238 AGAP00781 AGAP012000 AGAP008012 AGAP003005 AGAP003005 AGAP012742 AGAP010645 AGAP006743 AGAP006743 AGAP005302 AGAP001293	AGAP000238 AGAP007781 AGAP012000 AGAP008012 AGAP008012 AGAP003005 AGAP012742 AGAP012742 AGAP01645 AGAP005302 AGAP005302	nan eukaryotic translation initiation factor 4E-binding protein 1 fibrinogen and fibronectin nan proto-oncogene tyrosine-protein kinase ROS serine/threonine-protein kinase SIK nan nan nan DIRAS family, GTP-binding Ras-like 2 nan	703.056376 14699.8994 4234.79495 596.141968 56.839972 567.698708 8.2364549 625.912603 1458.16669 68.5889576 24.530601	-2.380158991 -2.378865811 -2.37771306 -2.377128217 -2.376981853 -2.376750193 -2.373141712 -2.372574179 -2.372151238 -2.368684796 -2.36509304	0.2402 -9.9074 0.0693 -34.312 0.1924 -12.361 0.2183 -10.888 0.2955 -8.0166 0.1422 -16.71 0.5079 -4.6725 0.2409 -9.8491 0.1901 -12.479 0.2906 -8.15 0.3108 -7.6086	3.86679E-23 5.16E-258 4.23122E-35 1.3098E-27 1.08705E-15 1.10866E-62 2.97616E-06 6.91789E-23 9.73705E-36 3.63803E-16 2.77013E-14	3.27305E-22 5.4014E-255 6.01242E-34 Oenocytoids 1.36349E-26 6.27132E-15 3.63925E-61 7.89368E-06 5.77778E-22 1.41782E-34 Oenocytoids 2.15288E-15 1.44825E-13
AGAP007675 AGAP00238 AGAP007781 AGAP012000 AGAP008012 AGAP000015 AGAP003005 AGAP012742 AGAP012742 AGAP01645 AGAP00543 AGAP0052302 AGAP001293 AGAP00293	AGAP000238 AGAP007781 AGAP012000 AGAP008012 AGAP003005 AGAP003005 AGAP010645 AGAP01645 AGAP005302 AGAP005302 AGAP001293 CPAP3-E	nan eukaryotic translation initiation factor 4E-binding protein 1 fibrinogen and fibronectin nan proto-oncogene tyrosine-protein kinase ROS serine/threonine-protein kinase SIK nan nan DIRAS family, GTP-binding Ras-like 2 nan cuticular protein	703.056376 14699.8994 4234.79495 596.141968 56.839972 56.639970 825.912603 1458.16669 68.5889576 24.530601 75.4477584	-2.380158991 -2.378865811 -2.3771306 -2.377128217 -2.376981853 -2.376750193 -2.37314712 -2.372574179 -2.372574179 -2.368684796 -2.36509304 -2.363863534	0.2402 -9.9074 0.0693 -34.312 0.1924 -12.361 0.2183 -10.888 0.2965 -8.0166 0.1422 -16.71 0.5079 -4.6725 0.2409 -9.8491 0.1901 -12.479 0.2906 -8.15 0.3108 -7.6086 0.3199 -9.9369	3.86679E-23 5.16E-258 4.23122E-35 1.3098E-27 1.08705E-15 1.10866E-62 2.97616E-06 6.91789E-23 9.73705E-36 3.63803E-16 2.77013E-14 2.87681E-23	3.27305E-22 5.4014E-255 6.01242E-34 Oenocytoids 1.36349E-26 6.27132E-15 3.63925E-61 7.89368E-06 5.77778E-22 1.41782E-34 Oenocytoids 2.15288E-15 1.44825E-13 2.44607E-22
AGAP007675 AGAP00238 AGAP007781 AGAP012000 AGAP008012 AGAP003005 AGAP003005 AGAP012742 AGAP01645 AGAP00645 AGAP006743 AGAP005302 AGAP005302 AGAP001293 AGAP009405	AGAP00238 AGAP07781 AGAP012000 AGAP008012 AGAP008012 AGAP003005 AGAP012742 AGAP010645 AGAP006743 AGAP006743 AGAP005302 AGAP001293 CPAP3-E OBP9	nan eukaryotic translation initiation factor 4E-binding protein 1 fibrinogen and fibronectin nan proto-oncogene tyrosine-protein kinase ROS serine/threonine-protein kinase SIK nan nan DIRAS family, GTP-binding Ras-like 2 nan cuticular protein odorant-binding protein 9	703.056376 14699.8994 4234.79495 596.141968 567.698708 8.2364549 625.912603 1458.16669 68.5889576 24.530601 75.4477584 136.522372	-2.380158991 -2.378865811 -2.37771306 -2.377128217 -2.376750193 -2.37741712 -2.372574179 -2.372574179 -2.368684796 -2.36503904 -2.36363534 -2.36363534	0.2402 -9.9074 0.0693 -34.312 0.1924 -12.361 0.2183 -10.888 0.2965 -8.0166 0.1422 -16.71 0.5079 -4.6725 0.2409 -9.8491 0.2906 -8.15 0.3108 -7.6086 0.2379 -9.369 0.2298 -10.276	3.86679E-23 5.16E-258 4.23122E-35 1.3098E-27 1.08705E-15 1.10866E-62 2.97616E-06 6.91789E-23 9.73705E-36 3.63803E-16 2.77013E-14 2.87681E-23 9.01486E-25	3.27305E-22 5.4014E-255 6.01242E-34 Oenocytoids 1.36349E-26 6.27132E-15 3.63925E-61 7.89368E-06 5.77778E-22 1.41782E-34 Oenocytoids 2.15288E-15 1.44825E-13 1.44825E-13 2.44607E-22 8.16625E-24
AGAP007675 AGAP00238 AGAP00781 AGAP012000 AGAP008012 AGAP003005 AGAP003005 AGAP012742 AGAP01645 AGAP006743 AGAP006743 AGAP005302 AGAP009405 AGAP009278 AGAP009381	AGAP000238 AGAP007781 AGAP012000 AGAP008012 AGAP003005 AGAP012742 AGAP012742 AGAP01645 AGAP005302 AGAP005302 AGAP005302 CPAP3-E OBP9 AGAP009381	nan eukaryotic translation initiation factor 4E-binding protein 1 fibrinogen and fibronectin nan proto-oncogene tyrosine-protein kinase ROS serine/threonine-protein kinase SIK nan nan nan DIRAS family, GTP-binding Ras-like 2 nan cuticular protein odorant-binding protein 9 Cellular retinaldehyde-binding protein [Source:UniProtKB/TrEMBL;AC	703.056376 14699.8994 4234.79495 596.141968 556.339972 567.698708 8.2364549 625.912603 1458.16669 68.5889576 24.530601 75.4477584 136.522372 25.722645	-2.380158991 -2.378865811 -2.377128217 -2.377128217 -2.376981853 -2.37650193 -2.373141712 -2.372574179 -2.372574179 -2.36864796 -2.36509304 -2.363863534 -2.363863534 -2.36120706 -2.359419209	0.2402 9.9074 0.0693 3.4.312 0.1924 1.2.361 0.2183 10.888 0.2965 8.0166 0.1422 -16.71 0.5079 4.6725 0.2409 9.8491 0.1901 -12.479 0.2906 8.15 0.3108 7.6086 0.2379 9.9369 0.2298 10.276	3.86679E-23 5.16E-258 4.23122E-35 1.3098E-27 1.08705E-15 1.10866E-62 9.73705E-36 9.73705E-36 3.63803E-16 2.77013E-14 2.87681E-23 9.01486E-25 2.93042E-06	3.27305E-22 5.4014E-255 6.01242E-34 Oenocytoids 1.36349E-26 6.27132E-15 3.63925E-61 7.89368E-06 5.77778E-22 1.41782E-34 Oenocytoids 2.15288E-15 1.44825E-13 2.44607E-22 8.16625E-24 7.77675E-06
AGAP007675 AGAP00238 AGAP00781 AGAP012000 AGAP008012 AGAP003005 AGAP012742 AGAP012742 AGAP01645 AGAP005302 AGAP002302 AGAP002302 AGAP00278 AGAP00278 AGAP00278 AGAP00278	AGAP000238 AGAP007781 AGAP012000 AGAP008012 AGAP008012 AGAP003005 AGAP012742 AGAP012742 AGAP01645 AGAP00543 AGAP005302 AGAP001293 CPAP3-E OBP9 AGAP009381 SRPN14	nan eukaryotic translation initiation factor 4E-binding protein 1 fibrinogen and fibronectin nan proto-oncogene tyrosine-protein kinase ROS serine/threonine-protein kinase SIK nan nan nan DIRAS family, GTP-binding Ras-like 2 nan cuticular protein odorant-binding protein 9 Cellular retinaldehyde-binding protein [Source:UniProtKB/TrEMBL;Ar serine protease inhibitor (serpin) 14	703.056376 14699.8994 4234.79495 596.141968 568.39972 567.698708 8.2364549 625.912603 1458.16669 68.5889576 24.530601 75.4477584 136.522372 25.722645 234.911196	-2.380158991 -2.378865811 -2.37771306 -2.377128217 -2.376981853 -2.376981853 -2.37541712 -2.372574179 -2.372151238 -2.368684796 -2.36509304 -2.36509304 -2.36386354 -2.361210706 -2.359105557	0.2402 -9.9074 0.0693 -34.312 0.1924 -12.361 0.2183 -10.888 0.2965 -8.0166 0.1422 -16.71 0.5079 -4.6725 0.2409 -9.8491 0.1901 -12.479 0.2906 -8.15 0.3108 -7.6086 0.2379 -9.9369 0.2298 -10.276 0.5046 -4.6756 0.5047 -4.6756	3.86679E-23 5.16E-258 4.23122E-35 1.3098E-27 1.08705E-15 1.10866E-62 9.3705E-36 9.73705E-36 3.63803E-16 3.63803E-16 2.77013E-14 2.87681E-23 9.01486E-25 9.293042E-06 7.67766E-28	3.27305E-22 5.4014E-255 6.01242E-34 Oenocytoids 1.36349E-26 6.27132E-15 3.63925E-61 7.89368E-06 5.77778E-22 1.41782E-34 Oenocytoids 2.15288E-15 1.44825E-13 2.44607E-22 8.16625E-24 7.77675E-06 8.08171E-27
AGAP007675 AGAP00238 AGAP00781 AGAP012000 AGAP008012 AGAP003005 AGAP003005 AGAP012742 AGAP01645 AGAP006743 AGAP006743 AGAP005302 AGAP009405 AGAP009278 AGAP009381	AGAP000238 AGAP007781 AGAP012000 AGAP008012 AGAP003005 AGAP012742 AGAP012742 AGAP01645 AGAP005302 AGAP005302 AGAP005302 CPAP3-E OBP9 AGAP009381	nan eukaryotic translation initiation factor 4E-binding protein 1 fibrinogen and fibronectin nan proto-oncogene tyrosine-protein kinase ROS serine/threonine-protein kinase SIK nan nan nan DIRAS family, GTP-binding Ras-like 2 nan cuticular protein odorant-binding protein 9 Cellular retinaldehyde-binding protein [Source:UniProtKB/TrEMBL;AC	703.056376 14699.8994 4234.79495 596.141968 556.339972 567.698708 8.2364549 625.912603 1458.16669 68.5889576 24.530601 75.4477584 136.522372 25.722645	-2.380158991 -2.378865811 -2.37771306 -2.377128217 -2.376981853 -2.376981853 -2.37541712 -2.372574179 -2.372151238 -2.368684796 -2.36509304 -2.36509304 -2.36386354 -2.361210706 -2.359105557	0.2402 9.9074 0.0693 3.4.312 0.1924 1.2.361 0.2183 10.888 0.2965 8.0166 0.1422 -16.71 0.5079 4.6725 0.2409 9.8491 0.1901 -12.479 0.2906 8.15 0.3108 7.6086 0.2379 9.9369 0.2298 10.276	3.86679E-23 5.16E-258 4.23122E-35 1.3098E-27 1.08705E-15 1.10866E-62 9.73705E-36 9.73705E-36 3.63803E-16 2.77013E-14 2.87681E-23 9.01486E-25 2.93042E-06	3.27305E-22 5.4014E-255 6.01242E-34 Oenocytoids 1.36349E-26 6.27132E-15 3.63925E-61 7.89368E-06 5.77778E-22 1.41782E-34 Oenocytoids 2.15288E-15 1.44825E-13 2.44607E-22 8.16625E-24 7.77675E-06

AGAP004106	AGAP004106	nan	155.190438	-2.355642662	0.2036 -11.568	5.97053E-31	7.2485E-30
AGAP002457	AGAP002457	nan	22.7808396	-2.355336707	0.4475 -5.2637	1.41202E-07	4.28979E-07
AGAP008582	AGAP008582	Alpha-mannosidase [Source:UniProtKB/TrEMBL;Acc:A0A1S4GYP5]	44.6842384	-2.352787645	0.251 -9.3718	7.13126E-21	5.47098E-20
AGAP006728	AGAP006728	nan	27.5540987	-2.352718202	0.42 -5.6017	2.12274E-08	6.99488E-08
AGAP000553	white	protein white	69.5525027	-2.350714155	0.3416 -6.882	5.90298E-12	2.64316E-11
AGAP009635	AGAP009635	nan	15.4947577	-2.344111236	0.536 -4.3735	1.22252E-05	3.01028E-05
AGAP006724	COEAE3G	carboxylesterase	47.2679065	-2.337800547	0.3693 -6.33	2.45154E-10	9.74511E-10
AGAP001717	AGAP001717	nan	21.0105193		0.4685 -4.9889	6.07266E-07	1.73313E-06
AGAP028648	AGAP028648	nan	510.247443	-2.333370386	0.2169 -10.758	5.43989E-27	5.52255E-26
AGAP010766	AGAP010766	nan	17.7400371	-2.332750466	0.4366 -5.3425	9.16865E-08	2.83299E-07
AGAP003238	AGAP003238	N-myc downstream regulated	1764.02464	-2.331890497	0.21 -11.103	1.21359E-28	1.33566E-27
AGAP007525	AGAP007525	coronin homolog	483.016816		0.1292 -18.034	1.06008E-72	4.66682E-71
AGAP009109	AGAP009109	nan	656.568432		0.1171 -19.894	4.56758E-88	2.92729E-86
AGAP005095	AGAP005095	actin beta/gamma 1	571.590763	-2.32903806	0.2336 -9.9721	2.01957E-23	1.7281E-22
AGAP009415	AGAP009415	lysophosphatidate acyltransferase	191.787636	-2.327522704	0.218 -10.675 0.5746 -4.0491	1.33206E-26	1.32797E-25
AGAP012052 AGAP009688	nan AGAP009688	nan Leucine-rich repeats and immunoglobulin-like domains protein 3	10.0520965 74.0276439	-2.325512702	0.2811 -8.2738	5.14087E-05 1.29807E-16	0.000117754 7.83919E-16
AGAP009088 AGAP011948	AGAP009088 AGAP011948	threonine 3-dehydrogenase	947.615608	-2.323011898		1.4782E-42	2.7041E-41
AGAP001948 AGAP009848	nan	nan	6.61977499	-2.318913746	0.6367 -3.6421	0.000270373	0.000562913
AGAP003030	AGAP003030	Pyruvate dehydrogenase E1 component subunit alpha [Source:UniPr	1193.86372	-2.313211468	0.1672 -13.835	1.57042E-43	2.97087E-42
AGAP011523	AGAP011523	nan	58.4287778		0.3869 -5.9779	2.26011E-09	8.20836E-09
AGAP013439	AGAP013439	nan	32.3701908	-2.311477393	0.3233 -7.1502	8.66827E-13	4.11197E-12
AGAP004119	AGAP004119	cGMP-specific 3', 5'-cyclic phosphodiesterase	135.308647		0.1737 -13.305	2.16381E-40	3.66642E-39
AGAP010508	AGAP010508	proton-coupled amino acid transporter	82.2617448	-2.306618937	0.2546 -9.0608	1.29533E-19	9.29737E-19
AGAP012019	AGAP012019	nan	257.54224	-2.306162464	0.1967 -11.723	9.77371E-32	1.21958E-30
AGAP012662	AGAP012662	omega-amidase	919.738534	-2.305791851		2.87909E-21	2.25657E-20
AGAP002663	AGAP002663	nan	76.0958659	-2.301545809	0.2791 -8.2454	1.64551E-16	9.89302E-16
AGAP011940	AGAP011940	nan	23493.8308		0.1589 -14.475	1.73554E-47	3.733E-46 Granulocytes
AGAP028892		y Eukaryotic large subunit ribosomal RNA [Source:RFAM;Acc:RF02543]	383.839363	-2.300185518	0.386 -5.9591	2.53662E-09	9.13512E-09
AGAP005564	AGAP005564	CP2 domain-containing protein [Source:UniProtKB/TrEMBL;Acc:A7U]	11.7002051	-2.299782375	0.4128 -5.5709	2.53403E-08	8.27777E-08
AGAP001659	AGAP001659	hexamerin	13.2905745	-2.298331936	0.4735 -4.8539	1.21073E-06	3.34497E-06
AGAP012954	AGAP012954	nan	72.053172	-2.294932598	0.296 -7.7532	8.95762E-15	4.89784E-14
AGAP005370	COEBE4C	carboxylesterase beta esterase	16.5310695	-2.291844587	0.4735 -4.8406	1.2946E-06	3.56517E-06
AGAP008704	AGAP008704	Juvenile hormone-inducible protein [Source:UniProtKB/TrEMBL;Acc:.		-2.28767662	0.2088 -10.957	6.12395E-28	6.48244E-27
AGAP004318	CLIPC3	CLIP-domain serine protease	1204.74386	-2.287218806	0.2052 -11.144	7.6366E-29	8.47402E-28
AGAP004262	TO3	takeout 3	29.1144885		0.3274 -6.9845	2.85881E-12	1.30805E-11
AGAP004202 AGAP006047	CYP4J9	cytochrome P450	102.844225	-2.284419971		6.18441E-31	7.4985E-30
AGAP011503	AGAP011503	nan	642.360089		0.2205 -10.351	4.13535E-25	3.85734E-24
AGAP011505	AGAP012577	nan	3224.89105	-2.281795555	0.2424 -9.4125	4.84298E-21	3.73369E-20
AGAP003578	AGAP012577 AGAP003578	aldehyde dehydrogenase (NAD+)	2418.49943	-2.281313782	0.0916 -24.907	6.3135E-137	9.4412E-135 Granulocytes
AGAP003578 AGAP004762	AGAP003378 AGAP004762	alpha-tocopherol transfer protein-like protein	85.5034718		0.2467 -9.2472	2.30543E-20	1.71967E-19
AGAP004782 AGAP001470	AGAP004782 AGAP001470	nan	17971.8688	-2.281133233		2.68319E-30	3.20385E-29 Granulocytes
AGAP001470 AGAP003168	AGAP001470 AGAP003168	Isocitrate dehydrogenase [NADP] [Source:UniProtKB/TrEMBL;Acc:Q7			0.1805 -12.604	1.99719E-36	2.94453E-35
AGAP003108 AGAP007334	AGAP003108	Tektin [Source:UniProtKB/TrEMBL;Acc:Q7QJ75]	29.2657475	-2.27501447	0.3021 -7.5315	5.01499E-14	2.57472E-13
AGAP007334 AGAP008889	ABCG15	ATP-binding cassette transporter (ABC transporter) family G member	182.714194	-2.265786564	0.2511 -9.0235	1.82163E-19	1.29619E-18
AGAP008885	AGAP003773	nan	703.878338		0.2323 -9.7522	1.80474E-22	1.47847E-21
AGAP003773 AGAP003301	AGAP003773	M-phase inducer phosphatase	714.854198	-2.260530545	0.2052 -11.019	3.10743E-28	3.34191E-27
AGAP003301 AGAP001116	AGAP003301 AGAP001116	D-amino-acid oxidase	916.292957		0.2032 -11.013	1.63119E-28	1.7807E-27
AGAP01110 AGAP012165	nan	nan	7.09811052		0.5328 -4.2386	2.24916E-05	5.36302E-05
AGAP012105 AGAP028764	aga-mir-34	nan	9.22155097	-2.25816415	0.4525 -4.99	6.03724E-07	1.72406E-06
AGAP028704 AGAP001657	AGAP001657	hexamerin	23.7940774	-2.25530474	0.3638 -6.1989	5.685E-10	2.18606E-09
AGAP001837 AGAP013540	AGAP001057 AGAP013540		99.607894	-2.255033994	0.2446 -9.2187	3.0078E-20	2.23298E-19
AGAP013340 AGAP007279	AGAP013340 AGAP007279	nan nan	293.691065	-2.250852654	0.2131 -10.561	4.51074E-26	4.381E-25
AGAP007279 AGAP011984	AGAP007279 AGAP011984	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosar	4104.57233	-2.248194125	0.1976 -11.378	5.38698E-30	6.33592E-29 Granulocytes
AGAP011984 AGAP008614	AGAP011984 AGAP008614	nan	116.770244	-2.242769973	0.2087 -10.747	6.12674E-27	6.21313E-26
AGAP003014 AGAP001987	AGAP003014 AGAP001987	nan	91.8940082		0.2601 -8.615		4.56387E-17
AGAP001987 AGAP009115	AGAP001987 AGAP009115	phosphatidylinositol phospholipase C, beta	121.799069	-2.241147168 -2.240868083	0.1531 -14.638	6.99526E-18 1.61471E-48	3.57934E-47
AGAP009115 AGAP029185	AGAP009115 AGAP029185	nan	6259.02738		0.2081 -10.768	4.85248E-27	4.94219E-26
AGAP023183	AGAP023185 AGAP007881	Steroid dehydrogenase	75.5187113	-2.240371307	0.2082 -10.76	5.31949E-27	5.40614E-26
AGAP007881 AGAP000128	AGAP007881 AGAP000128	MFS transporter, VNT family, synaptic vesicle glycoprotein 2	190.229327	-2.239006767	0.2558 -8.7539	2.0619E-18	1.37767E-17
AGAP003449	AGAP000128 AGAP003449	rootletin	132.804659		0.2285 -9.7942	1.1924E-22	9.8887E-22
AGAP010640	AGAP010640	nan	3865.77393	-2.238179986	0.183 -12.229	2.16425E-34	2.98527E-33
AGAP013036	AGAP010040 AGAP013036	nan	47.3192495	-2.236496656	0.28 -7.9881	1.37024E-15	7.85219E-15
AGAP009131	AGAP009131	nan	27.7632898	-2.234811024	0.3467 -6.4465	1.14452E-10	4.65967E-10
AGAP000156	AGAP000156	nan	28.4121895	-2.231484108	0.315 -7.0843	1.39724E-12	6.5133E-12
AGAP003328	AGAP003328	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex 6	105.32323	-2.230101589	0.3969 -5.6186	1.92548E-08	6.36714E-08
AGAP003328 AGAP007014							
		Amino oxidase domain-containing protein [Source:UniProtKB/TrFMI				4.41757F-07	1.27898E-06
	AGAP007014	Amino_oxidase domain-containing protein [Source:UniProtKB/TrEMI leucine-rich immune protein (Coil-less)	31.9757341	-2.225944393	0.4408 -5.05	4.41757E-07 4.66818E-21	1.27898E-06
AGAP013290 AGAP028564				-2.225944393		4.41757E-07 4.66818E-21 6.6206E-34	
AGAP013290	AGAP007014 LRIM27	leucine-rich immune protein (Coil-less)	31.9757341 401.682148	-2.225944393 -2.225568481	0.4408 -5.05 0.2364 -9.4164	4.66818E-21	1.27898E-06 3.60188E-20
AGAP013290 AGAP028564 AGAP012008	AGAP007014 LRIM27 AGAP028564 AGAP012008	leucine-rich immune protein (Coil-less) nan	31.9757341 401.682148 1831.46812 207.211918	-2.225944393 -2.225568481 -2.224442565 -2.219825262	0.4408 -5.05 0.2364 -9.4164 0.1833 -12.138 0.2262 -9.8122	4.66818E-21 6.6206E-34 9.97317E-23	1.27898E-06 3.60188E-20 8.97448E-33 8.30011E-22
AGAP013290 AGAP028564	AGAP007014 LRIM27 AGAP028564	leucine-rich immune protein (Coil-less) nan nan	31.9757341 401.682148 1831.46812	-2.225944393 -2.225568481 -2.224442565 -2.219825262	0.4408 -5.05 0.2364 -9.4164 0.1833 -12.138	4.66818E-21 6.6206E-34	1.27898E-06 3.60188E-20 8.97448E-33
AGAP013290 AGAP028564 AGAP012008 AGAP012053 AGAP009144	AGAP007014 LRIM27 AGAP028564 AGAP012008 AGAP012053 AGAP009144	leucine-rich immune protein (Coil-less) nan nan alpha,alpha-trehalase nan	31.9757341 401.682148 1831.46812 207.211918 4513.24466 360.441606	-2.225944393 -2.225568481 -2.224442565 -2.219825262 -2.219554737 -2.218211654	0.4408 -5.05 0.2364 -9.4164 0.1833 -12.138 0.2262 -9.8122 0.1444 -15.372 0.1419 -15.635	4.66818E-21 6.6206E-34 9.97317E-23 2.53072E-53 4.18545E-55	1.27898E-06 3.60188E-20 8.97448E-33 8.30011E-22 6.53202E-52 1.13963E-53
AGAP013290 AGAP028564 AGAP012008 AGAP012053 AGAP009144 AGAP004376	AGAP007014 LRIM27 AGAP028564 AGAP012008 AGAP012053 AGAP009144 AGAP004376	leucine-rich immune protein (Coil-less) nan nan alpha,alpha-trehalase	31.9757341 401.682148 1831.46812 207.211918 4513.24466 360.441606 454.806495	-2.225944393 -2.225568481 -2.224442565 -2.219825262 -2.219554737 -2.218211654 -2.217002701	0.4408 -5.05 0.2364 -9.4164 0.1833 -12.138 0.2262 -9.8122 0.1444 -15.372 0.1419 -15.635 0.2047 -10.829	4.66818E-21 6.6206E-34 9.97317E-23 2.53072E-53 4.18545E-55 2.51583E-27	1.27898E-06 3.60188E-20 8.97448E-33 8.30011E-22 6.53202E-52 1.13963E-53 2.59602E-26 Oenocytoids
AGAP013290 AGAP028564 AGAP012008 AGAP012053 AGAP009144	AGAP007014 LRIM27 AGAP028564 AGAP012008 AGAP012053 AGAP009144 AGAP004376 AGAP004306	leucine-rich immune protein (Coil-less) nan nan alpha,alpha-trehalase nan aldose 1-epimerase	31.9757341 401.682148 1831.46812 207.211918 4513.24466 360.441606 454.806495 6.12836441	-2.225944393 -2.225568481 -2.22442565 -2.219825262 -2.219554737 -2.218211654 -2.217002701 -2.215525833	0.4408 -5.05 0.2364 -9.4164 0.1833 -12.138 0.2262 -9.8122 0.1444 -15.372 0.1419 -15.635 0.2047 -10.829 0.593 -3.7362	4.66818E-21 6.6206E-34 9.97317E-23 2.53072E-53 4.18545E-55 2.51583E-27 0.000186819	1.27898E-06 3.60188E-20 8.97448E-33 8.30011E-22 6.53202E-52 1.13963E-53
AGAP013290 AGAP028564 AGAP012008 AGAP012053 AGAP009144 AGAP004376 AGAP004306	AGAP007014 LRIM27 AGAP028564 AGAP012008 AGAP012053 AGAP009144 AGAP004376	leucine-rich immune protein (Coil-less) nan an alpha,alpha-trehalase nan aldose 1-epimerase nan	31.9757341 401.682148 1831.46812 207.211918 4513.24466 360.441606 454.806495	-2.225944393 -2.225568481 -2.224442565 -2.219825262 -2.219554737 -2.218211654 -2.217002701 -2.215525833 -2.212906822	0.4408 -5.05 0.2364 -9.4164 0.1833 -12.138 0.2262 -9.8122 0.1444 -15.372 0.1419 -15.635 0.2047 -10.829	4.66818E-21 6.6206E-34 9.97317E-23 2.53072E-53 4.18545E-55 2.51583E-27	1.27898E-06 3.60188E-20 8.97448E-33 8.30011E-22 6.53202E-52 1.13963E-53 2.59602E-26 Oenocytoids 0.000398737
AGAP013290 AGAP028564 AGAP012008 AGAP012053 AGAP009144 AGAP004376 AGAP004306 AGAP004306	AGAP007014 LRIM27 AGAP028564 AGAP012008 AGAP012053 AGAP009144 AGAP004376 AGAP004306 AGAP006907	leucine-rich immune protein (Coil-less) nan alpha,alpha-trehalase nan aldose 1-epimerase nan Cat eye syndrome chromosome region, candidate 1a	31.9757341 401.682148 1831.46812 207.211918 4513.24466 360.441606 454.806495 6.12836441 1136.7432	-2.225944393 -2.225568481 -2.224442565 -2.219825262 -2.219554737 -2.218211654 -2.217002701 -2.215525833 -2.212906822	0.4408 -5.05 0.2364 9.4164 0.1833 -12.138 0.2262 9.8122 0.1444 -15.372 0.1419 -15.635 0.2047 -10.829 0.593 -3.7362 0.517 -18.921	4.66818E-21 6.6206E-34 9.97317E-23 2.53072E-53 4.18545E-55 2.51583E-27 0.000186819 7.64914E-80	1.27898E-06 3.60188E-20 8.97448E-33 8.30011E-22 6.53202E-52 1.13963E-53 2.59602E-26 Oenocytoids 0.000398737 4.21418E-78
AGAP013290 AGAP028564 AGAP012008 AGAP012053 AGAP009144 AGAP004376 AGAP004306 AGAP006907 AGAP010473	AGAP007014 LRIM27 AGAP028564 AGAP012008 AGAP012008 AGAP004376 AGAP004376 AGAP004306 AGAP006907 AGAP010473	leucine-rich immune protein (Coil-less) nan alpha,alpha-trehalase nan aldose 1-epimerase nan Cat eye syndrome chromosome region, candidate 1a Pleckstrin-like proteiny domain-containing family G member 5	31.9757341 401.682148 1831.46812 207.211918 4513.24466 360.441606 454.806495 6.12836441 1136.7432 18.2736161	-2.225944393 -2.225568481 -2.224442565 -2.219825262 -2.219554737 -2.218211654 -2.217002701 -2.21552833 -2.212906822 -2.212106507 -2.21206507	0.4408 -5.05 0.2364 -9.4164 0.233 -12.138 0.2262 -9.8122 0.1444 -15.372 0.1444 -15.372 0.2047 -10.829 0.593 -3.7362 0.117 -18.921 0.4326 -5.1137	4.66818E-21 6.6206E-34 9.97317E-23 2.53072E-53 4.18545E-55 2.51583E-27 0.000186819 7.64914E-80 3.1588E-07	1.27898E-06 3.60188E-20 8.97448E-33 8.30011E-22 6.53202E-52 1.13963E-53 2.59602E-26 Oenocytoids 0.000398737 4.21418E-78 9.2997E-07
AGAP013290 AGAP028564 AGAP012008 AGAP012053 AGAP009144 AGAP004376 AGAP004306 AGAP006907 AGAP010473 AGAP010473	AGAP007014 LRIM27 AGAP028554 AGAP012008 AGAP012008 AGAP009144 AGAP004376 AGAP004376 AGAP006907 AGAP010473 AGAP001473	leucine-rich immune protein (Coil-less) nan nan alpha,alpha-trehalase nan aldose 1-epimerase nan Cat eye syndrome chromosome region, candidate 1a Pleckstrin-like proteiny domain-containing family G member 5 mitochondrial sodium/hydrogen exchanger NHA2	31.9757341 401.682148 1831.46812 207.211918 4513.24466 360.441606 454.806495 6.12836441 1136.7432 18.2736161 498.561816	-2.225944393 -2.225568481 -2.224442565 -2.219825262 -2.219554737 -2.218211654 -2.217002701 -2.21552833 -2.212906822 -2.212106507 -2.21206507	0.4408 -5.05 0.2364 -9.4164 0.1833 -12.138 0.2262 -9.8122 0.1444 -15.372 0.1444 -15.372 0.1474 -15.635 0.2047 -10.829 0.533 -3.7362 0.117 -8.921 0.4326 -5.1137 0.2296 -9.6301	4.66818E-21 6.6206E-34 9.97317E-23 2.53072E-53 4.18545E-55 2.51583E-27 0.000186819 7.64914E-80 3.1588E-07 5.96462E-22	1.27898E-06 3.60188E-20 8.97448E-33 8.30011E-22 6.53202E-52 1.13963E-53 2.S9602E-26 Oenocytoids 0.000398737 4.21418E-78 9.2997E-07 4.8234E-21
AGAP013290 AGAP028564 AGAP012008 AGAP012053 AGAP009144 AGAP004376 AGAP004306 AGAP004306 AGAP006907 AGAP010473 AGAP002324 AGAP000299	AGAP007014 LRIM27 AGAP028564 AGAP012008 AGAP012008 AGAP004306 AGAP004306 AGAP004306 AGAP004306 AGAP004374 AGAP002324 AGAP002324	leucine-rich immune protein (Coil-less) nan alpha,alpha-trehalase nan aldose 1-epimerase nan Cat eye syndrome chromosome region, candidate 1a Pleckstrin-like proteiny domain-containing family G member 5 mitochondrial sodium/hydrogen exchanger NHA2 nan	31.9757341 401.682148 1831.46812 207.211918 4513.24466 360.441606 454.806495 6.12836441 1136.7432 18.2736161 498.561816 255.253733	-2.225944393 -2.225568481 -2.22442565 -2.219825262 -2.219524737 -2.218211654 -2.215525833 -2.212906822 -2.212068027 -2.210851099 -2.20821099	0.4408 -5.05 0.2364 -9.4164 0.1833 -12.138 0.2262 -9.8122 0.1444 -15.372 0.1444 -15.373 0.2047 -16.835 0.2047 -18.921 0.4326 -5.1137 0.2296 -9.6301 0.1263 -17.455	4.66818E-21 6.6206E-34 9.97317E-23 2.53072E-53 4.18545E-55 2.51583E-27 0.000186819 7.64914E-80 3.1588E-07 5.96462E-22 3.17072E-68	1.27898E-06 3.60188E-20 8.97448E-33 8.30011E-22 6.53202E-52 1.13963E-53 2.59602E-26 Oenocytoids 0.000398737 4.21418E-78 9.2997E-07 4.8234E-21 1.20449E-66
AGAP013290 AGAP028564 AGAP012008 AGAP012053 AGAP009144 AGAP004376 AGAP004376 AGAP006907 AGAP010473 AGAP002324 AGAP002299 AGAP012290 AGAP012290	AGAP007014 LRIM27 AGAP028554 AGAP012008 AGAP012008 AGAP004376 AGAP004376 AGAP004376 AGAP004376 AGAP004373 AGAP002324 AGAP002324 AGAP002290 SCRAL1	leucine-rich immune protein (Coil-less) nan alpha,alpha-trehalase nan aldose 1-epimerase nan Cat eye syndrome chromosome region, candidate 1a Pleckstrin-like proteiny domain-containing family G member 5 mitochondrial sodium/hydrogen exchanger NHA2 nan Class A Scavenger Receptor (SRCR domain) with Lysyl Oxidase domai	31.9757341 401.682148 1831.46812 207.211918 4513.24466 360.441606 454.806495 6.12836441 1136.7432 18.2736161 498.561816 255.253733 131.239237 14.0255715	-2.225944393 -2.225568481 -2.22442565 -2.219825262 -2.219554737 -2.218211654 -2.217002701 -2.212006827 -2.21206807 -2.210831099 -2.025293292 -2.20330671 -2.203704126	0.4408 -5.05 0.2364 -9.4164 0.1833 -12.138 0.262 -9.8122 0.1444 -15.372 0.1419 -15.373 0.2047 -10.829 0.593 -3.7362 0.117 -5.1137 0.4226 -5.1137 0.2296 -9.6301 0.1263 -17.455 0.188 -11.721 0.422 4.9831	4.66818E-21 6.6206E-34 9.97317E-23 2.53072E-53 4.18545E-55 2.51583E-27 0.000186819 7.64914E-80 3.1588E-07 5.96462E-22 3.17072E-88 1.00038E-31 6.25627E-07	1.27898E-06 3.60188E-20 8.97448E-33 8.30011E-22 6.53202E-52 1.13963E-53 2.259602E-26 Oenocytoids 0.000398737 4.21418E-78 9.2997E-07 4.8234E-21 1.20449E-66 1.24664E-30 1.78391E-06
AGAP013290 AGAP028564 AGAP012008 AGAP0012053 AGAP009144 AGAP004306 AGAP004306 AGAP004306 AGAP004307 AGAP002324 AGAP002324 AGAP00239 AGAP012290 AGAP004118 AGAP007790	AGAP007014 LRIM27 AGAP028564 AGAP012008 AGAP012008 AGAP009144 AGAP004376 AGAP004376 AGAP004376 AGAP0020374 AGAP002324 AGAP002324 AGAP002299 AGAP012290 SCRAL1 AGAP007790	leucine-rich immune protein (Coil-less) nan an alpha,alpha-trehalase nan aldose 1-epimerase nan Cat eye syndrome chromosome region, candidate 1a Pleckstrin-like proteiny domain-containing family G member 5 mitochondrial sodium/hydrogen exchanger NHA2 nan nan Class A Scavenger Receptor (SRCR domain) with Lysyl Oxidase domai Sodium/potassium-transporting ATPase subunit beta [Source:UniPro	31.9757341 401.682148 1831.46812 207.211918 4513.24466 360.441606 454.866495 6.12836441 1136.7432 18.2736161 498.561816 255.253733 131.239237 134.025715 5685.58683	-2.225944393 -2.225568481 -2.22442562 -2.214925262 -2.219554737 -2.218211654 -2.217002701 -2.215525833 -2.212906822 -2.2106507 -2.21031099 -2.205293292 -2.203350671 -2.202704126 -2.202668102	0.4408 -5.05 0.2364 -9.4164 0.1833 -12.138 0.2262 -9.8122 0.1444 -15.372 0.1414 -15.635 0.2047 -10.829 0.533 -3.7362 0.117 -18.921 0.4326 -9.6301 0.2296 -9.6301 0.1263 :17.455 0.482 +0.831 0.424 -4.931 0.106 -20.78	4.66818E-21 6.6206E-34 9.97317E-23 2.53072E-53 4.18545E-55 2.51583E-27 0.000186819 7.64914E-80 3.1588E-07 5.96462E-22 3.17072E-68 1.00038E-31 6.25627E-07 6.554492E-96	1.27898E-06 3.60188E-20 8.97448E-33 8.30011E-22 6.53202E-52 1.13963E-53 2.S9602E-26 Oenocytoids 0.000398737 4.21418E-78 9.2997E-07 4.8234E-21 1.20449E-66 1.24664E-30 1.78391E-06 4.85509E-94
AGAP013290 AGAP028564 AGAP012008 AGAP012053 AGAP009144 AGAP004376 AGAP004376 AGAP004306 AGAP000473 AGAP00224 AGAP00229 AGAP012290 AGAP01118 AGAP007790 AGAP001713	AGAP007014 LRIM27 AGAP028564 AGAP012008 AGAP012008 AGAP004305 AGAP004306 AGAP004306 AGAP004306 AGAP004306 AGAP002324 AGAP002324 AGAP002324 AGAP002329 SCRAL1 AGAP007790 AGAP007790	leucine-rich immune protein (Coil-less) nan alpha,alpha-trehalase nan aldose 1-epimerase nan Cat eye syndrome chromosome region, candidate 1a Pleckstrin-like proteiny domain-containing family G member 5 mitochondrial sodium/hydrogen exchanger NHA2 nan Class A Scavenger Receptor (SRCR domain) with Lysyl Oxidase domai Sodium/potassium-transporting ATPase subunit beta [Source:UniPro stearoyl-CoA desaturase (delta-9 desaturase)	31.9757341 401.682148 1831.46812 207.211918 4513.24466 360.441606 454.806495 6.12836441 1136.7432 18.2736161 498.561816 255.253733 131.239237 14.025715 5685.58683 24038.5132	-2.225944393 -2.225568481 -2.228442565 -2.21985262 -2.21985262 -2.219254737 -2.218211654 -2.21702701 -2.215525833 -2.21206507 -2.20350671 -2.203350671 -2.203350671 -2.20268102 -2.200516903	0.4408 -5.05 0.2364 -9.4164 0.1833 -12.138 0.2262 -9.8122 0.1444 -15.372 0.1444 -15.373 0.2047 -16.829 0.593 -3.7362 0.5147 -18.921 0.4326 -5.1137 0.2296 -9.6301 0.2263 -17.455 0.188 -11.721 0.424 -4.9831 0.166 -20.78 0.2207 -9.9689	4.66818E-21 6.6206E-34 9.97317E-23 2.53072E-53 4.18545E-55 2.51583E-27 0.000186819 7.64914E-80 3.1588E-07 5.96462E-22 3.17072E-68 1.00038E-31 6.25627E-07 6.54492E-96 2.08606E-23	1.27898E-06 3.60188E-20 8.97448E-33 8.30011E-22 6.53202E-52 1.13963E-53 2.59602E-26 Oenocytoids 0.000398737 4.21418E-78 9.2997E-07 4.8234E-21 1.20449E-66 1.24664E-30 1.78391E-06 4.85509E-94 1.78175E-22
AGAP013290 AGAP028564 AGAP012008 AGAP012053 AGAP004376 AGAP004376 AGAP004376 AGAP006907 AGAP00473 AGAP002324 AGAP00299 AGAP012290 AGAP001710 AGAP001713 AGAP003751	AGAP007014 LRIM27 AGAP028554 AGAP012008 AGAP012008 AGAP0029144 AGAP004376 AGAP004376 AGAP004376 AGAP0010473 AGAP002324 AGAP002324 AGAP002290 SCRAL1 AGAP007790 AGAP001713 CPAP1-C	leucine-rich immune protein (Coil-less) nan nan alpha,alpha-trehalase nan aldose 1-epimerase nan Cat eye syndrome chromosome region, candidate 1a Pleckstrin-like proteiny domain-containing family G member 5 mitochondrial sodium/hydrogen exchanger NHA2 nan nan Class A Scavenger Receptor (SRCR domain) with Lysyl Oxidase domai Sodium/potasium-transporting ATPase subunit beta (Source:UniPro stearoyl-CoA desaturase (delta-9 desaturase) cuticular protein	31.9757341 401.682148 1831.46812 207.211918 4513.24466 454.806495 6.12836441 1136.7432 18.2736161 498.561816 255.253733 131.239237 14.0255715 5685.58683 24038.5132 107.406582	-2.225944393 -2.225568481 -2.22442565 -2.219825262 -2.219554737 -2.218211654 -2.217002701 -2.215525833 -2.21206807 -2.210831099 -2.205293292 -2.203206610 -2.202704126 -2.202068102 -2.200516903 -2.19811333	0.4408 -5.05 0.2364 -9.4164 0.1833 -12.138 0.262 9.8122 0.1444 -15.372 0.1419 -15.635 0.2047 -10.829 0.593 -3.7362 0.117 -8.921 0.4326 -5.1137 0.2296 -9.6301 0.1263 -17.455 0.188 -1.721 0.442 4.9831 0.106 -20.78 0.2207 -9.0689 0.1952 -11.258	4.66818E-21 6.6206E-34 9.97317E-23 2.53072E-53 4.18545E-55 2.51583E-27 0.000186819 7.64914E-80 3.1588E-07 5.96462E-22 8.100038E-31 6.25627E-07 6.54492E-96 2.08606E-23 2.10985E-29	1.27898E-06 3.60188E-20 8.97448E-33 8.30011E-22 6.53202E-52 1.13963E-53 2.59602E-26 Oenocytoids 0.000398737 4.21418E-78 9.2997E-07 4.8234E-21 1.20449E-66 1.24664E-30 1.24664E-30 1.78391E-06 4.85509E-94 1.78175E-22 2.39481E-28
AGAP013290 AGAP028564 AGAP012008 AGAP0012053 AGAP009144 AGAP004306 AGAP004306 AGAP004306 AGAP000324 AGAP002324 AGAP002329 AGAP0021290 AGAP004118 AGAP007790 AGAP001713 AGAP003751 AGAP003751	AGAP007014 LRIM27 AGAP028554 AGAP012008 AGAP012008 AGAP009144 AGAP004376 AGAP004376 AGAP004376 AGAP004376 AGAP0010473 AGAP0010473 AGAP0012324 AGAP0012290 SCRAL1 AGAP007790 AGAP001713 CPAP1-C AGAP012679	leucine-rich immune protein (Coil-less) nan alpha,alpha-trehalase nan aldose 1-epimerase nan Cat eye syndrome chromosome region, candidate 1a Pleckstrin-like proteiny domain-containing family G member 5 mitochondrial sodium/hydrogen exchanger NHA2 nan nan Class A Scavenger Receptor (SRCR domain) with Lysyl Oxidase domai Sodium/potassium-transporting ATPase subunit beta [Source:UniPro stearoyl-CoA desaturase (delta-9 desaturase) cuticular protein nan	31.9757341 401.682148 1831.46812 207.211918 4513.24466 454.806495 6.12836441 1136.7432 18.2736161 498.561816 255.253733 131.239237 131.239237 14.0255715 5685.58683 24038.5132 107.406582 23.496382	-2.225944393 -2.225568481 -2.22442556 -2.219825262 -2.219825262 -2.219554737 -2.218211654 -2.217002701 -2.215525833 -2.212906820 -2.2101690 -2.2020516903 -2.2020516903 -2.19811333 -2.197140641	0.4408 -5.05 0.2364 -9.4164 0.1833 -12.138 0.2626 -9.8122 0.1444 -15.372 0.1414 -15.372 0.2427 -10.829 0.2947 -10.829 0.177 -18.921 0.4326 -5.1137 0.2296 -9.6301 0.1263 -17.455 0.188 -11.721 0.4424 -4.9831 0.424 -4.9831 0.424 -5.9458 0.1952 -11.258 0.4351 -5.0497	4.66818E-21 6.6206E-34 9.97317E-23 2.53072E-53 4.18545E-55 2.51583E-27 0.000186819 7.64914E-80 3.1588E-07 3.1588E-07 3.1588E-07 6.5647E-22 3.17072E-68 1.00038E-31 6.25627E-07 6.54492E-96 2.08666E-23 2.10985E-23 2.10985E-23 2.10985E-23	1.27898E-06 3.60188E-20 8.97448E-33 8.30011E-22 6.53202E-52 1.13963E-53 2.S9602E-26 Oenocytoids 0.000398737 4.21418E-78 9.2997E-07 4.8234E-21 1.20449E-66 1.24664E-30 1.78391E-06 4.85509E-94 1.78315E-22 2.39481E-28 1.28074E-06
AGAP013290 AGAP028564 AGAP012008 AGAP0012053 AGAP009144 AGAP004306 AGAP004306 AGAP004306 AGAP004306 AGAP00299 AGAP00299 AGAP00299 AGAP00299 AGAP00299 AGAP001713 AGAP007790 AGAP001713 AGAP012679 AGAP012275	AGAP007014 LRIM27 AGAP028564 AGAP012008 AGAP012008 AGAP004376 AGAP004376 AGAP004376 AGAP004376 AGAP004376 AGAP002324 AGAP002324 AGAP002324 AGAP002329 SCRAL1 AGAP007790 AGAP012679 AGAP012679 AGAP012679	leucine-rich immune protein (Coil-less) nan alpha,alpha-trehalase nan alcha,alpha-trehalase nan Cat eye syndrome chromosome region, candidate 1a Plecktrin-like proteiny domain-containing family G member 5 mitochondrial sodium/hydrogen exchanger NHA2 nan nan Class A Scavenger Receptor (SRCR domain) with Lysyl Oxidase domai Sodium/potassium-transporting ATPase subunit beta [Source:UniPro stearoyl-CoA desaturase (delta-9 desaturase) cuticular protein nan	31.9757341 401.682148 1831.46812 207.211918 4513.24466 360.441606 454.806495 6.12836441 1136.7432 18.2736161 498.561816 255.253733 131.239237 14.0255715 5685.58683 24038.5132 107.406582 23.4968382 113.518995	-2.225944393 -2.225568481 -2.224442565 -2.21985262 -2.219854737 -2.218211654 -2.217002701 -2.215525833 -2.212006822 -2.212106507 -2.203350671 -2.203350671 -2.203350671 -2.20268102 -2.200516903 -2.19811333 -2.199110641 -2.194105258	0.4408 -5.05 0.2364 -9.4164 0.1833 -12.138 0.2262 -9.8122 0.1444 -15.372 0.1444 -15.372 0.2047 -10.829 0.593 -3.7362 0.593 -3.7362 0.594 -19.53 0.2296 -9.6301 0.2296 -9.6301 0.1263 -17.455 0.188 -11.721 0.442 -4.9811 0.442 -4.9811 0.451 -20.78 0.2207 -9.9689 0.4351 -5.0497 0.2382 -9.216	4.66818E-21 6.6206E-34 9.97317E-23 2.53072E-53 4.18545E-55 2.51583E-27 0.0001886319 7.64914E-80 3.1588E-07 5.96462E-22 3.17072E-68 1.00038E-31 6.54492E-96 2.08606E-23 2.10985E-29 2.08606E-23 2.10985E-29	1.27898E-06 3.60188E-20 8.97448E-33 8.30011E-22 6.53202E-52 1.13963E-53 2.59602E-26 Oenocytoids 0.000398737 4.21418E-78 9.2997E-07 4.8234E-21 1.20449E-66 1.24664E-30 1.78391E-06 4.85509E-94 1.78175E-22 2.39481E-28 1.28074E-06 2.361E-19
AGAP013290 AGAP028564 AGAP012008 AGAP012053 AGAP009144 AGAP004376 AGAP004376 AGAP004376 AGAP004376 AGAP002224 AGAP002299 AGAP002299 AGAP001290 AGAP001713 AGAP001713 AGAP001751 AGAP012275 AGAP012275	AGAP007014 LRIM27 AGAP028564 AGAP012008 AGAP00208 AGAP004376 AGAP004376 AGAP004376 AGAP004376 AGAP001473 AGAP002324 AGAP002290 SCRAL1 AGAP001290 SCRAL1 AGAP001713 CPAP1-C AGAP012275 AGAP012275 AGAP012275	leucine-rich immune protein (Coil-less) nan nan alpha,alpha-trehalase nan aldse 1-epimerase nan Cat eye syndrome chromosome region, candidate 1a Pleckstrin-like proteiny domain-containing family G member 5 mitochondrial sodium/hydrogen exchanger NHA2 nan nan Class A Scavenger Receptor (SRCR domain) with Lysyl Oxidase domai Sodium/potassium-transporting ATPase subunit beta [Source:UniPro stearoyl-CoA desaturase (delta-9 desaturase) cuticular protein nan nan	31.9757341 401.682148 1831.46812 207.211918 4513.24466 360.441606 454.806495 6.12836441 1136.7432 18.2736161 498.561816 255.253733 14.0255715 5685.58683 131.239237 14.0255715 5685.58683 24038.5132 107.406582 23.4968382 113.518995 3830.83849	-2.225944393 -2.225568481 -2.22442565 -2.219825262 -2.219554737 -2.218211654 -2.21700701 -2.21525833 -2.212906822 -2.21206807 -2.203206810 -2.202704126 -2.202704126 -2.202068103 -2.19811333 -2.197140641 -2.19405252 -2.193460503	0.4408 -5.05 0.2364 -9.4164 0.1833 -12.138 0.262 9.8122 0.1444 -15.372 0.1419 -15.635 0.2047 -10.829 0.593 -3.7362 0.117 -18.921 0.4326 -5.1137 0.2296 -9.6301 0.1263 -17.455 0.442 4.9831 0.106 -20.78 0.442 4.9831 0.106 -20.78 0.452 -12.58 0.4351 -5.0497 0.2382 -9.2126 0.3456 -8.8845	4.66818E-21 6.6206E-34 9.97317E-23 2.53072E-53 4.18545E-55 2.51583E-27 0.000186819 7.64914E-80 3.1588E-07 5.96462E-22 3.17072E-68 1.00038E-31 6.54492E-96 6.54492E-96 6.54492E-96 2.08606E-23 2.10985E-29 4.42501E-07 6.318275E-20 6.47324E-19	1.27898E-06 3.60188E-20 8.97448E-33 8.30011E-22 6.53202E-52 1.13963E-53 2.59602E-26 Oenocytoids 0.000398737 4.21418E-78 9.2997E-07 4.8234E-21 1.20449E-66 1.24664E-30 1.78391E-06 4.85509E-94 1.78175E-22 2.39481E-28 1.28074E-06 2.361E-19 4.44817E-18 Megacytes
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AGAP013290 AGAP028564 AGAP012008 AGAP0012053 AGAP009144 AGAP004306 AGAP004306 AGAP004306 AGAP002324 AGAP002324 AGAP002324 AGAP002329 AGAP012299 AGAP0011713 AGAP001790 AGAP0012679 AGAP0012679 AGAP001283 AGAP001283 AGAP001283 AGAP001283	AGAP007014 LRIM27 AGAP028554 AGAP012008 AGAP012008 AGAP009144 AGAP004376 AGAP004376 AGAP004376 AGAP0010473 AGAP0010473 AGAP001290 SCRAL1 AGAP001290 SCRAL1 AGAP001713 CPAP1-C AGAP012679 AGAP01283 AGAP001283 AGAP002841 AGAP000576 LRIM5	leucine-rich immune protein (Coil-less) nan alpha,alpha-trehalase nan aldose 1-epimerase nan Cat eye syndrome chromosome region, candidate 1a Pleckstrin-like proteiny domain-containing family G member 5 mitochondrial sodium/hydrogen exchanger NHA2 nan nan Class A Scavenger Receptor (SRCR domain) with Lysyl Oxidase domai Sodium/potassium-transporting ATPase subunit beta [Source:UniPro stearoyl-CoA desaturase (delta-9 desaturase) cuticular protein nan nan nan nan solute carrier family 25 nan leucine-rich immune protein 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5.436228E-21 5.436228E-21 5.436228E-21 5.436228E-21 5.436228E-21 5.436228E-21 5.436228E-21 5.436228E-21 5.436228E-21 5.436228E-21 5.436228E-21 5.436228E-21 5.436228E-21 5.436228E-21 5.436228E-21 5.436228E-21 5.436228E-21 5.436228E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 5.44628E-21 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AGAP000023	AGAP000023	nan	18.0493725	-2.178246081 0.5402 -4.0324	5.52155E-05	0.000126075
AGAP002178	AGAP002178	homeobox protein homothorax	44.5424978	-2.174738692 0.2413 -9.0134		1.41832E-18
AGAP013476	AGAP013476	nan	14.4147151	-2.173877245 0.5294 -4.1062		9.31794E-05
AGAP006638	AGAP006638	Oatp58Dc	12.6633594	-2.170027724 0.5634 -3.8517	0.000117306	0.000257068
AGAP000571	CLIPC5	CLIP-domain serine protease	10.8570501	-2.165583685 0.5998 -3.6106	0.000305454	0.000630656
AGAP002377	AGAP002377	fatty-acid amide hydrolase 2	68.9084911	-2.163506379 0.3091 -6.9998	2.5633E-12	1.17684E-11
AGAP008311	AGAP008311	acylphosphatase	7988.93375	-2.161992961 0.2504 -8.6338		3.89722E-17
AGAP002419	CYP4D22	cytochrome P450	1923.83179	-2.160518349 0.0876 -24.671		3.1707E-132
AGAP004730	AGAP004730	phospholipase A2, venom	19.4809999	-2.159578666 0.3953 -5.463	4.68228E-08	1.49228E-07
AGAP001111	AGAP001111	nan	471.415494	-2.158151069 0.205 -10.528	6.44399E-26	6.20745E-25
AGAP007400	AGAP007400	nan	755.641709	-2.15537651 0.1853 -11.634	2.75536E-31	3.40213E-30
AGAP012320	OBP25	odorant-binding protein 25	77.2698096	-2.154520754 0.2584 -8.3378		4.64115E-16
AGAP000419	nan	nan	29.8116697	-2.1542553 0.3554 -6.0611		5.02273E-09
AGAP007843	nan	nan	2508.82842	-2.146932903 0.1011 -21.226		4.5212E-98
AGAP001264	AGAP001264	Plasma glutamate carboxypeptidase	9682.13789	-2.139077005 0.1423 -15.037	4.20384E-51	1.00775E-49 Granulocytes
AGAP028393	ssu rRNA	nan	17124.0786	-2.137588739 0.2965 -7.2087	5.65039E-13	2.71455E-12
AGAP000300	AGAP000300	Bifunctional pyrimidine biosynthesis protein (PyrABCN)	3883.62761	-2.13416748 0.0795 -26.828	1.5227E-158	2.9887E-156
AGAP000881	AGAP000881	aldehyde dehydrogenase family 7 member A1	4456.34368	-2.133098404 0.0716 -29.786		1.882E-192 Granulocytes
						5.95579E-06
AGAP002620	MISO	mating-induced stimulator of oogenesis MISO	13.3059206	-2.127162419 0.4494 -4.733		
AGAP001650	AGAP001650	cation transport regulator-like protein 2	1404.09983	-2.124739553 0.2002 -10.611		2.61406E-25
AGAP009285	AGAP009285	nan	575.172146	-2.12378252 0.1703 -12.471	1.07776E-35	1.56209E-34
AGAP028491	AQP2	aquaporin	2622.49654	-2.123261447 0.2287 -9.2834	1.64145E-20	1.23318E-19
AGAP003931	AGAP003931	nan	89.0536391	-2.12050679 0.2109 -10.056	8.66738E-24	7.57471E-23
AGAP006009	CPR30	cuticular protein RR-1 family 30	17.0728277	-2.119690384 0.3787 -5.5974		7.16284E-08
AGAP008113	AGAP008113	nan	1100.17195	-2.119589278 0.2139 -9.9107		3.16817E-22
AGAP000834	AGAP000834	nan	15.6386385	-2.118096973 0.4258 -4.9747		1.85962E-06
AGAP012900	AGAP012900	nan	109.39396	-2.11366951 0.2964 -7.1317	9.91026E-13	4.6729E-12
AGAP028653	AGAP028653	nan	16.7094924	-2.113573078 0.4028 -5.2473	1.54356E-07	4.67583E-07
AGAP012223	nan	nan	428.887679	-2.112026931 0.1719 -12.285		1.52267E-33
AGAP012034	AGAP012034		298.621047	-2.110518824 0.2595 -8.1338		2.45556E-15
		nan				
AGAP004742	AGAP004742	Pyruvate carboxylase [Source:UniProtKB/TrEMBL;Acc:A7UUW7]	9558.43452	-2.106403767 0.1597 -13.187		1.71205E-38 AM granulocytes
AGAP010066	AGAP010066	nan	558.200174	-2.104753471 0.2562 -8.2155	2.11199E-16	1.26491E-15
AGAP028470	AGAP028470	nan	8.91645284	-2.103492404 0.5561 -3.7827	0.000155167	0.000334515
AGAP006821	AGAP006821	acetyl-CoA acyltransferase 2	7478.7622	-2.098850418 0.1901 -11.042	2.40893E-28	2.60557E-27
AGAP013078	AGAP013078	Plasma glutamate carboxypeptidase precursor	71.6591333	-2.097192675 0.2216 -9.4634		2.32968E-20
AGAP001991	nan	nan	10.2003167	-2.094781512 0.586 -3.575		0.00071707
AGAP007315	AGAP007315	nan	753.192575	-2.09397512 0.2065 -10.139		3.30083E-23
AGAP004700	AGAP004700	nan	416.744629	-2.093142641 0.2482 -8.4324	3.38527E-17	2.12476E-16
AGAP000130	nan	nan	5.44505255	-2.092342209 0.5987 -3.4948	0.000474493	0.000953743
AGAP006278	AGAP006278	nan	13581.1932	-2.086522229 0.0655 -31.854	1.1709E-222	5.2528E-220 Granulocytes
AGAP008967	AGAP008967	calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodieste		-2.086261108 0.2924 -7.1353		4.55756E-12
AGAP013192	AGAP013192	venom allergen	17.0219767	-2.085497543 0.3864 -5.3973		2.11911E-07
AGAP005586	AGAP005586	nan	11.1820093	-2.085485398 0.5688 -3.6664		0.00051571
AGAP012006	AGAP012006	Protein phosphatase 1 regulatory subunit 16A [Source:UniProtKB/Trl	173.707427	-2.084268535 0.1802 -11.569	5.92785E-31	7.20598E-30
AGAP004890	AGAP004890	ribose-phosphate pyrophosphokinase	8852.92536	-2.083813712 0.158 -13.191	9.92841E-40	1.64386E-38
AGAP012435	AGAP012435	nan	15.6197647	-2.08339812 0.3835 -5.4323	5.56293E-08	1.7569E-07
AGAP000629	AGAP000629	nan	23.8618019	-2.083250723 0.3235 -6.4401		4.85561E-10
AGAP008717	AGAP008717	hydroxymethylglutaryl-CoA lyase	520.615658	-2.082417529 0.1793 -11.613		4.36088E-30
AGAP000090	AGAP000090	adenylate cyclase	1948.60327	-2.080296444 0.207 -10.049		8.12248E-23
AGAP003167	AGAP003167	NAD(P) transhydrogenase	1535.80979	-2.080269361 0.1178 -17.661	8.34232E-70	3.35868E-68
AGAP002992	AGAP002992	Carbonic anhydrase [Source:UniProtKB/TrEMBL;Acc:Q5TU56]	1392.54205	-2.079466438 0.1968 -10.566	4.27788E-26	4.15913E-25
AGAP011518	AGAP011518	nan	24.3270571	-2.077310625 0.3884 -5.349		2.73917E-07
AGAP008051	SAP1	sensory appendage protein 1	5638.92957	-2.076512063 0.2105 -9.8655		4.92804E-22
AGAP005507	nSyb	synaptic vesicle-associated integral membrane protein	79.0111676	-2.074773617 0.181 -11.465		2.37355E-29
AGAP006512	nan	nan	110.440291	-2.074064219 0.2843 -7.2943	3.00213E-13	1.46015E-12
AGAP009433	AGAP009433	arylformamidase	907.898295	-2.07304017 0.2937 -7.0572	1.6988E-12	7.89173E-12
AGAP001936	AGAP001936	phosphatidylinositol phospholipase C, beta	237.607847	-2.072051026 0.1885 -10.992		4.43212E-27
AGAP000129	AGAP000129	nan	69.638292	-2.071984736 0.1994 -10.391		2.55415E-24
AGAP013443	AGAP013443	Plasma glutamate carboxypeptidase	108.119815	-2.071928878 0.1693 -12.236		2.77031E-33
AGAP006132	AGAP006132	ganglioside-induced differentiation-associated-protein 1	111.53105	-2.070212766 0.1752 -11.814		4.19826E-31
AGAP002632	AGAP002632	nan	10674.1222	-2.068286741 0.2431 -8.5067	1.7888E-17	1.1433E-16 AM granulocytes
AGAP006731	nan	nan	8.65256326	-2.066824188 0.5161 -4.0043	6.21956E-05	0.000141294
AGAP003283	AGAP003283	atrial natriuretic peptide receptor A	24.3287584	-2.066317297 0.3369 -6.1331		3.26525E-09
AGAP005865	AGAP005865	fumarylacetoacetase	3370.03313	-2.063049793 0.1288 -16.022		2.67028E-56 Oenocytoids
AGAP010367	nan	nan	140.777242	-2.062172048 0.2229 -9.2509		1.66268E-19
AGAP007636	AGAP007636	phosphatidate phosphatase LPIN	2381.53633	-2.062107291 0.1664 -12.393	2.85874E-35	4.09304E-34
AGAP011317	AGAP011317	nan	7508.68761	-2.061480433 0.2178 -9.4641	2.96155E-21	2.31926E-20
AGAP006908	AGAP006908	nan	276.466364	-2.060194817 0.2114 -9.7458	1.92275E-22	1.57378E-21
AGAP002194	AGAP002194	1D-myo-inositol-triphosphate 3-kinase	1155.23353	-2.060069468 0.0836 -24.651		5.138E-132
AGAP011062	AGAP002194 AGAP011062	GLOBIN domain-containing protein [Source:UniProtKB/TrEMBL;Acc:(-2.059952927 0.2494 -8.26		8.77695E-16
AGAP005183	AGAP005183	nan	451.147516	-2.057479912 0.2324 -8.8523		5.84226E-18
AGAP000249	AGAP000249	mannosyl-glycoprotein endo-beta-N-acetylglucosaminidase	24190.3946	-2.05668358 0.1607 -12.796		2.67687E-36 Oenocytoids
AGAP009417	AGAP009417	nan	7.27352313	-2.052987884 0.5719 -3.5901	0.0003306	0.000679001
AGAP004232	AGAP004232	pellino	1462.74894	-2.050918804 0.258 -7.9499	1.86699E-15	1.06149E-14
AGAP009648	AGAP009648	2-oxo-4-hydroxy-4-carboxy-5-ureidoimidazoline decarboxylase	1149.88975	-2.046919414 0.2289 -8.9438		2.62743E-18
	AGAP009648 AGAP001690					
AGAP001690		lidii	12.1928332	-2.046676305 0.4324 -4.7336		5.94031E-06
AGAP002378	AGAP002378	Adenylosuccinate lyase [Source:UniProtKB/TrEMBL;Acc:Q7QBZ6]	3550.03286	-2.046063833 0.2044 -10.011		1.18045E-22
AGAP000768	AGAP000768	Septin 4 [Source:UniProtKB/TrEMBL;Acc:A0A1S4G9T6]	54.721443	-2.042753052 0.2127 -9.6045	7.65258E-22	6.1778E-21
AGAP001257	AGAP001257	UTPglucose-1-phosphate uridylyltransferase	7912.21303	-2.041670623 0.156 -13.084	4.06898E-39	6.63215E-38
AGAP003239	AGAP003239	nan	593.849156	-2.041349275 0.2561 -7.9721		8.89495E-15
AGAP000806	AGAP000806	Angiopoietin-like 1	4950.15451	-2.039105955 0.0944 -21.601		1.5971E-101
AGAP008138	AGAP008138	nan	8.29291267	-2.038910263 0.5414 -3.7663		0.000355723
AGAP007757	AGAP007757	Gustatory receptor [Source:UniProtKB/TrEMBL;Acc:Q7PIY0]	42.4383324	-2.038875842 0.2814 -7.2444		2.10027E-12
AGAP002068	AGAP002068	nan	111.485108	-2.034382171 0.2654 -7.6667		9.3693E-14
AGAP009786	AGAP009786	phosphoribosylamineglycine ligase / phosphoribosylglycinamide fo	3517.44325	-2.034314259 0.1794 -11.339	8.4086E-30	9.75583E-29
AGAP000481	AGAP000481	cyanogenic beta-glucosidase	308.242708	-2.033760652 0.1819 -11.183		5.54421E-28
AGAP007304	AGAP000481 AGAP007304	nan	12.5422352	-2.030801082 0.459 -4.4243		2.41499E-05
AGAP001065	AGAP001065	glycine hydroxymethyltransferase	6907.60554	-2.030513674 0.1874 -10.835		2.43383E-26
AGAP010733	AGAP010733	Vanin-like protein 1	976.750068	-2.023907092 0.1783 -11.35		8.60592E-29
AGAP012557	AGAP012557	nan	141.642617	-2.020568992 0.1793 -11.269	1.87319E-29	2.12875E-28
AGAP000366		nan	21.0535763	-2.018835092 0.3807 -5.3036		3.47765E-07
AGAP000198	AGAP000366					
					9.61601F-05	
	Cht5-5	Chitinase [Source:UniProtKB/TrEMBL;Acc:A0A1S4G846]	8.17446088	-2.017481331 0.5173 -3.9001		0.00021351
AGAP003586	Cht5-5 AGAP003586	Chitinase [Source:UniProtKB/TrEMBL;Acc:A0A1S4G846] Phosphate carrier, mitochondrial	8.17446088 5065.702	-2.017481331 0.5173 -3.9001 -2.017271645 0.2432 -8.2937	1.09798E-16	0.00021351 6.6693E-16
	Cht5-5	Chitinase [Source:UniProtKB/TrEMBL;Acc:A0A1S4G846]	8.17446088	-2.017481331 0.5173 -3.9001	1.09798E-16	0.00021351

AGAP010042	AGAP010042	solute carrier organic anion transporter family member	21.0389471	-2.013165455	0.3254 -6.1858	6.17889E-10	2.36631E-09
AGAP001515	AGAP001515	nan	423.014864	-2.012263574	0.2512 -8.0115	1.13334E-15	6.52239E-15
AGAP001200	AGAP001200	glycogen debranching enzyme	2019.46101	-2.008162939	0.1894 -10.605	2.82763E-26	2.77338E-25
AGAP004793	AGAP004793	ornithineoxo-acid transaminase	92.9537762	-2.006348426	0.2092 -9.5893	8.86788E-22	7.14054E-21
AGAP005662	AGAP005662	acyl-CoA dehydrogenase	10248.125	-2.004762998	0.177 -11.326	9.73147E-30	1.12079E-28
AGAP006513	nan	nan	210.228167	-2.004080989	0.1764 -11.364	6.3446E-30	7.39758E-29
AGAP002429	CYP314A1	cytochrome P450	38.4907408	-2.003366386	0.2933 -6.8304	8.46568E-12	3.74437E-11
AGAP001550	AGAP001550	sodium-coupled monocarboxylate transporter 1	198.112491	-2.001364547	0.2249 -8.8995	5.61224E-19	3.87631E-18