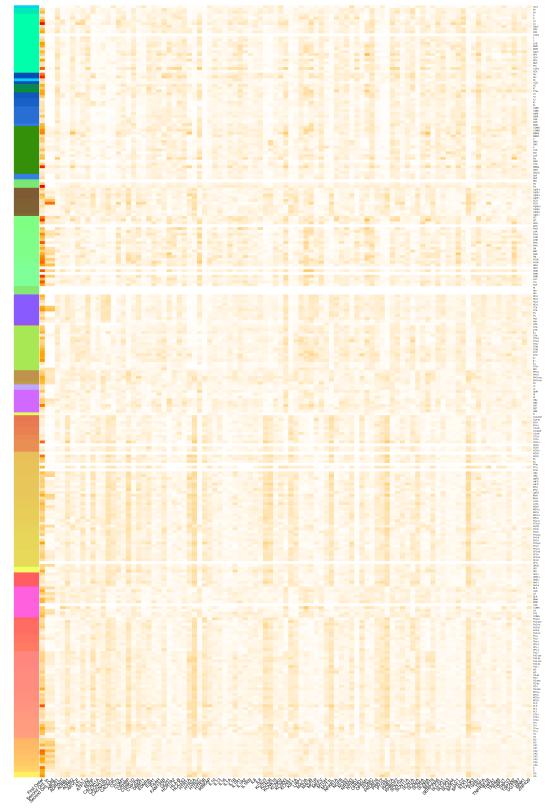
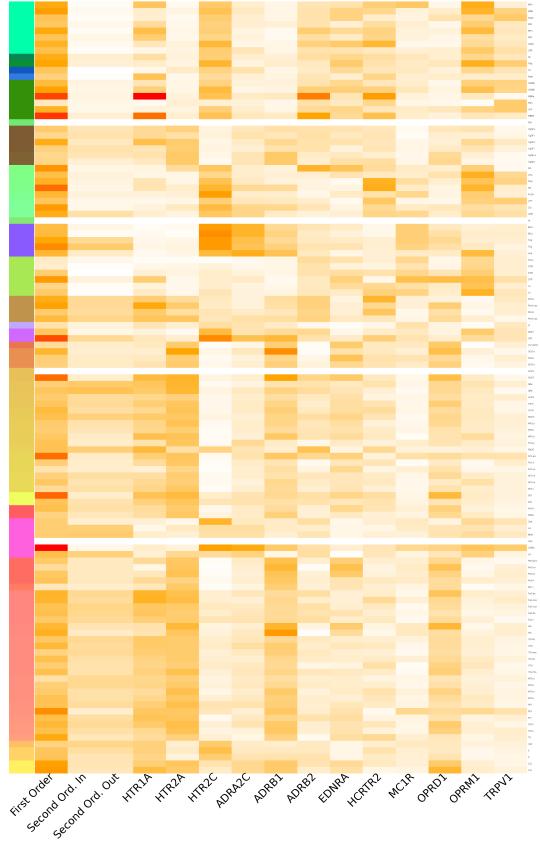


Supplementary Data 4 Case 1. SNPs suggested to affect human pain sensitivity gene-set of pain-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.

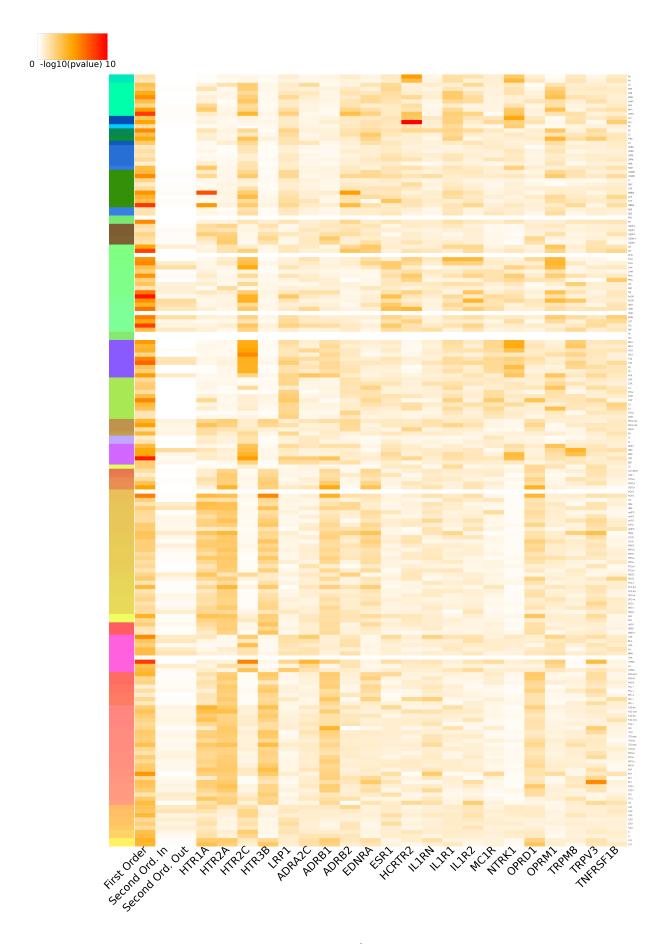




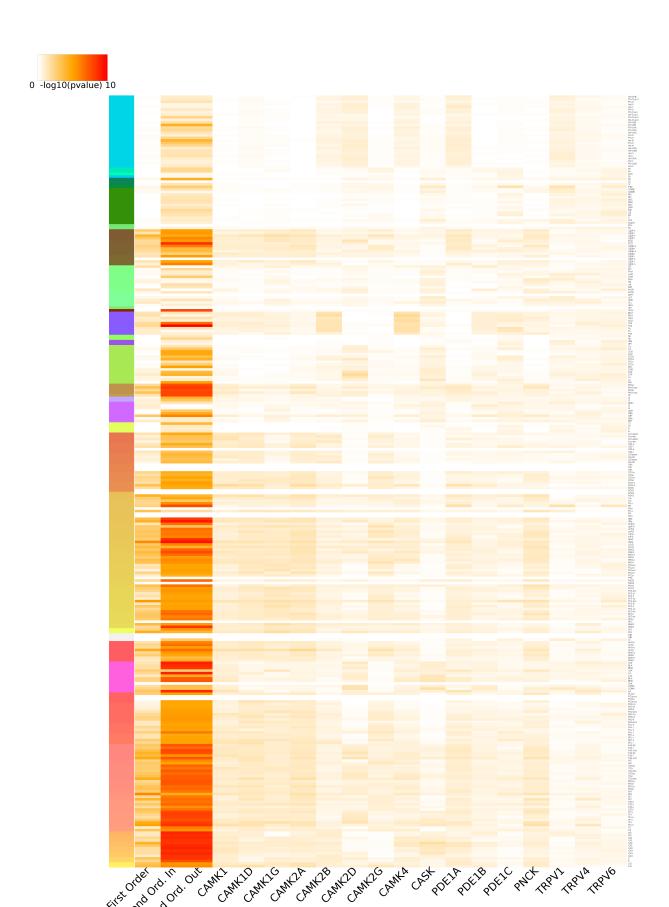




Supplementary Data 4 Case 3. Pain related genes in human Neuroactive ligand-receptor interaction gene-set of pain-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.

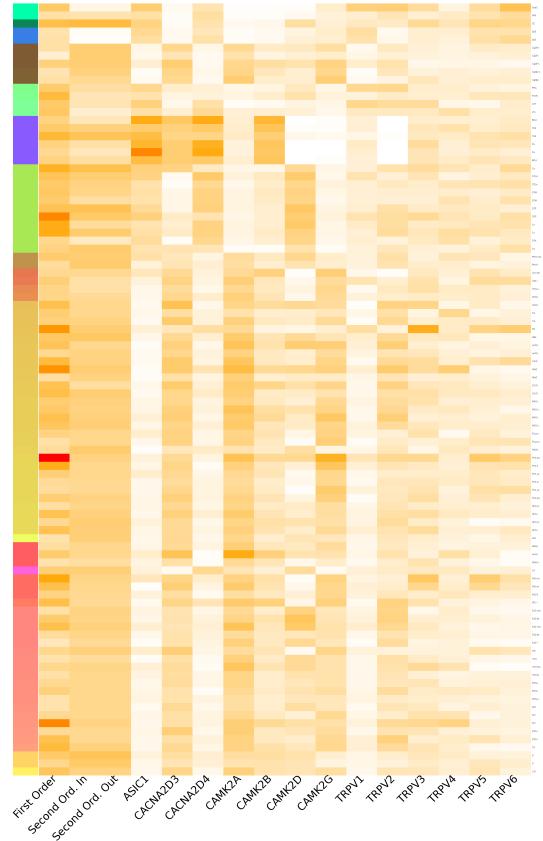


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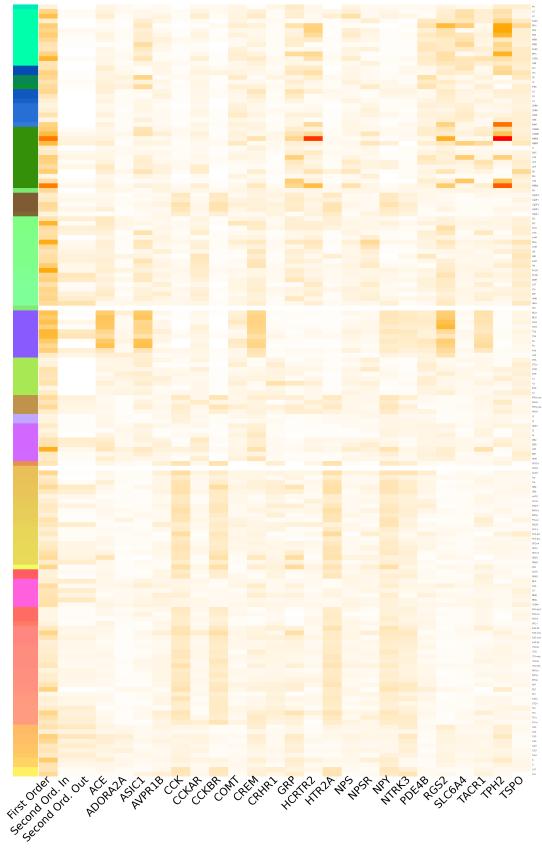
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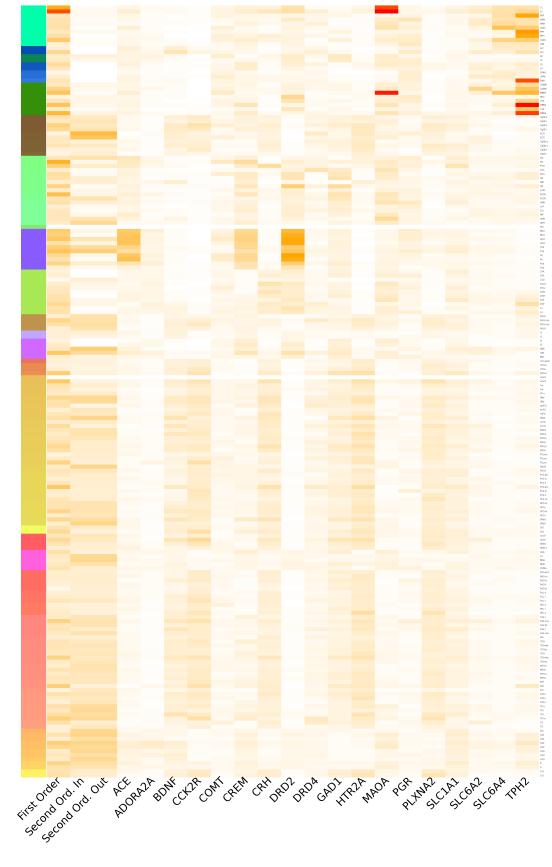
Supplementary Data 4 Case 6. Calcium ion transport gene-set of pain-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.





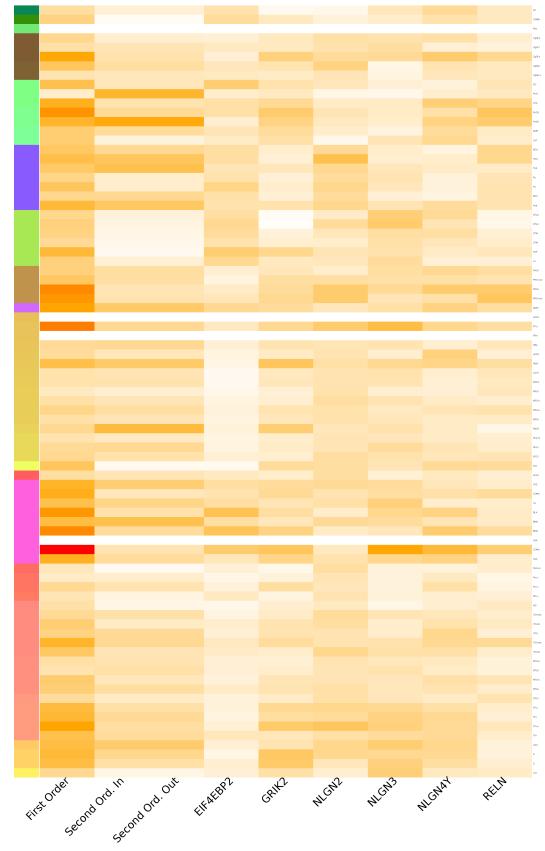
Supplementary Data 4 Case 7. Panic disorder gene-set of fear-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.





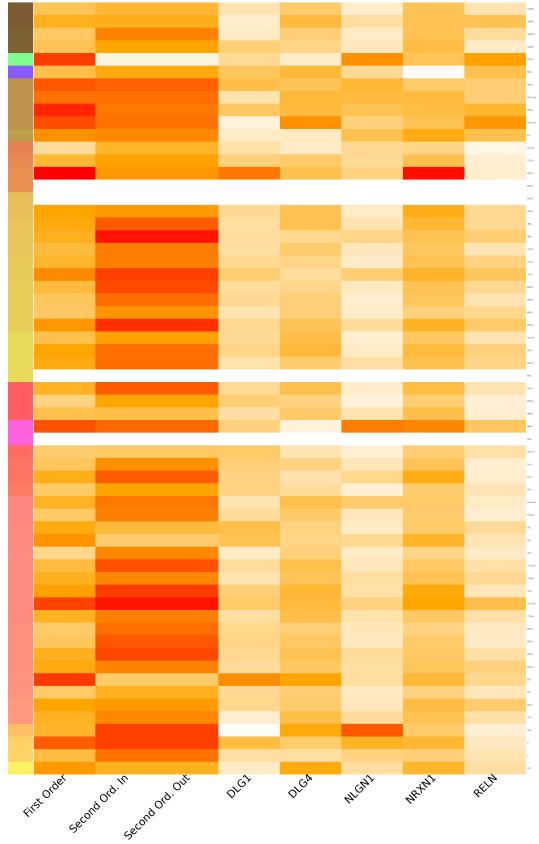
Supplementary Data 4 Case 8. Anxiety human personality traits gene-set of fear-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.





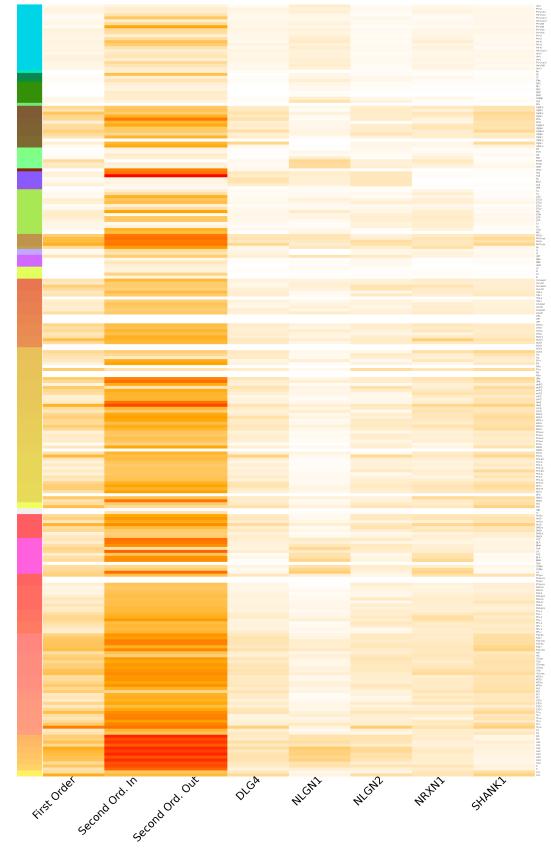
Supplementary Data 4 Case 9. Autdb Human Modulation of synaptic transmission BP gene-set of autism-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.





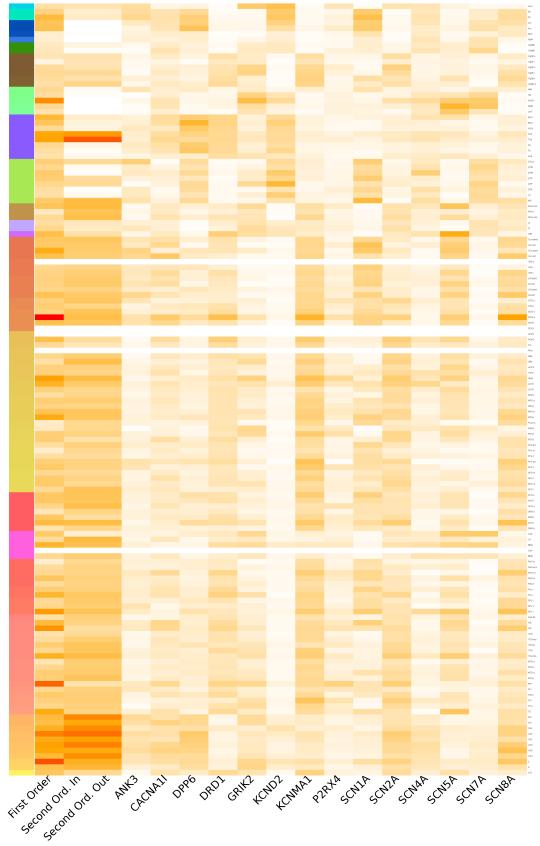
Supplementary Data 4 Case 10. Autdb Human Receptor localization to synapse BP gene-set of autism-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.



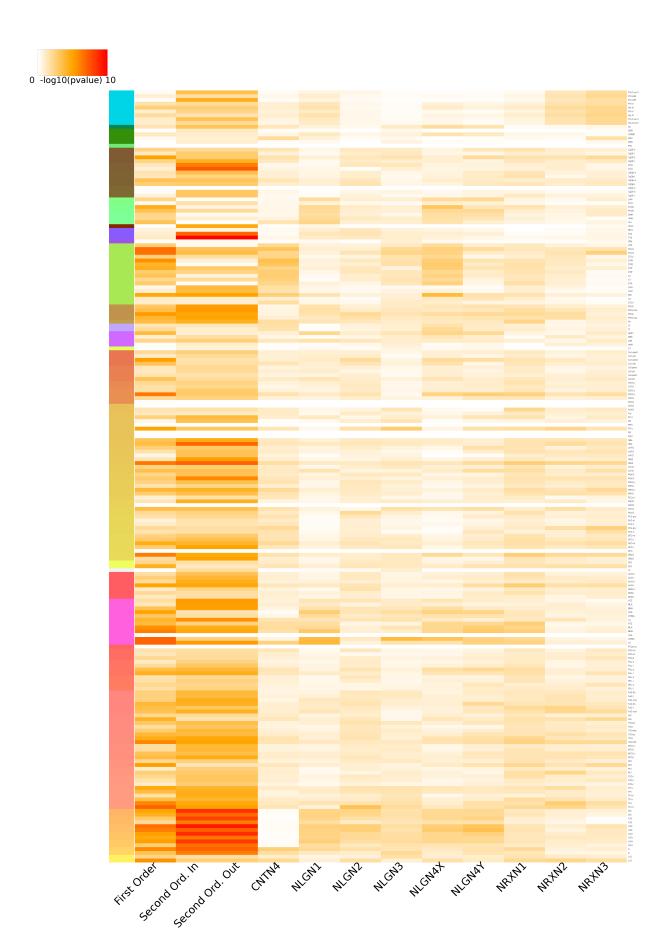


Supplementary Data 4 Case 11. Autdb Human Protein localization to synapse BP gene-set of autism-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.

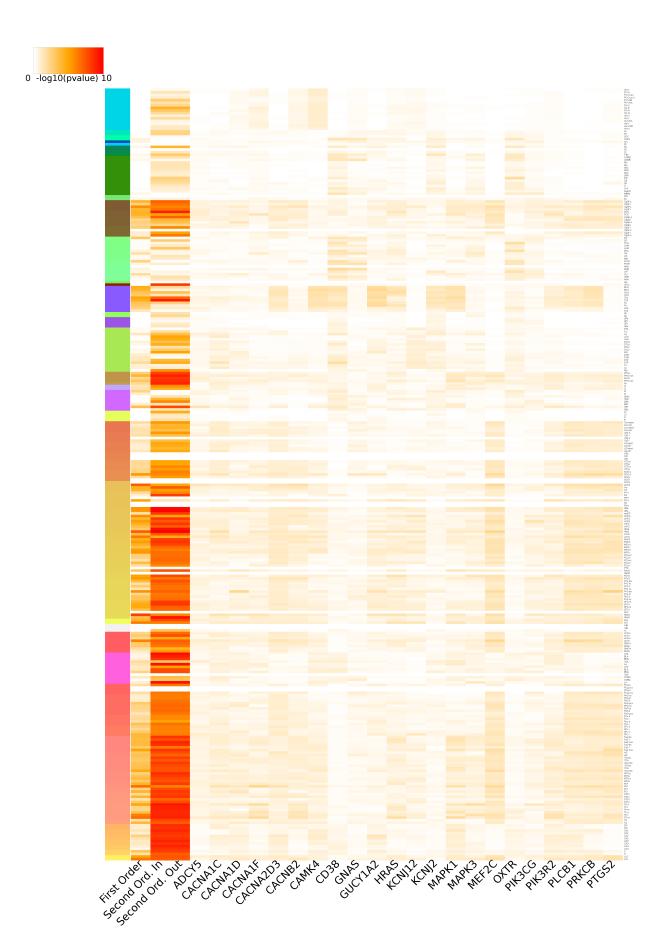




Supplementary Data 4 Case 12. Autdb Human Neuronal action potential BP gene-set of autism-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.



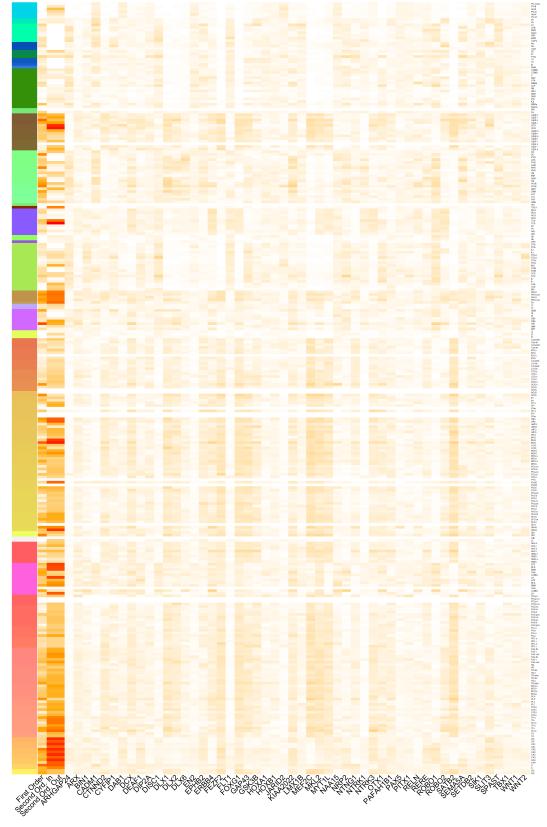
Supplementary Data 4 Case 13. Autdb Human Neuron cell-cell adhesion BP gene-set of autism-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.



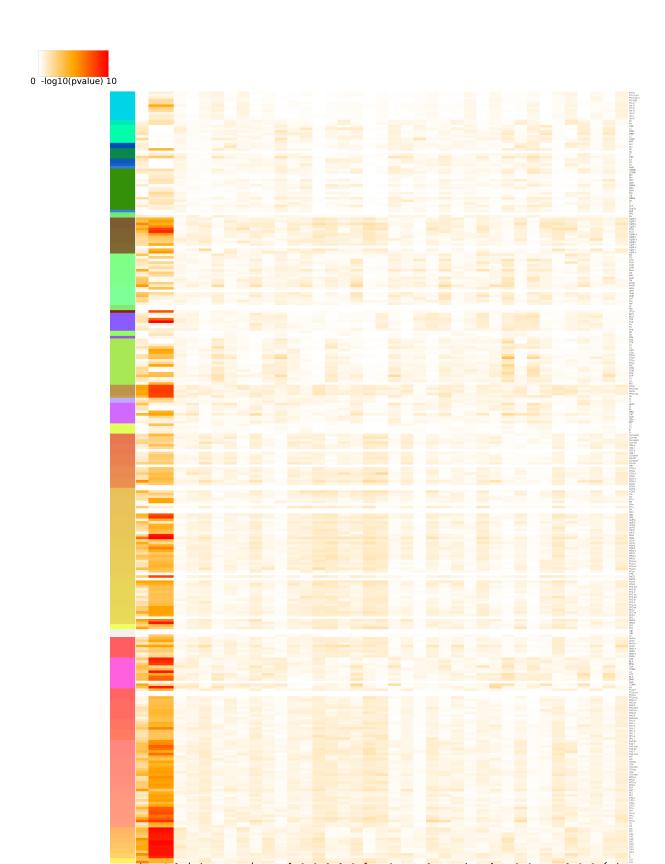
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Supplementary Data 4 Case 14. Autdb Human Oxytocin signaling pathway KEGG gene-set of autism-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.

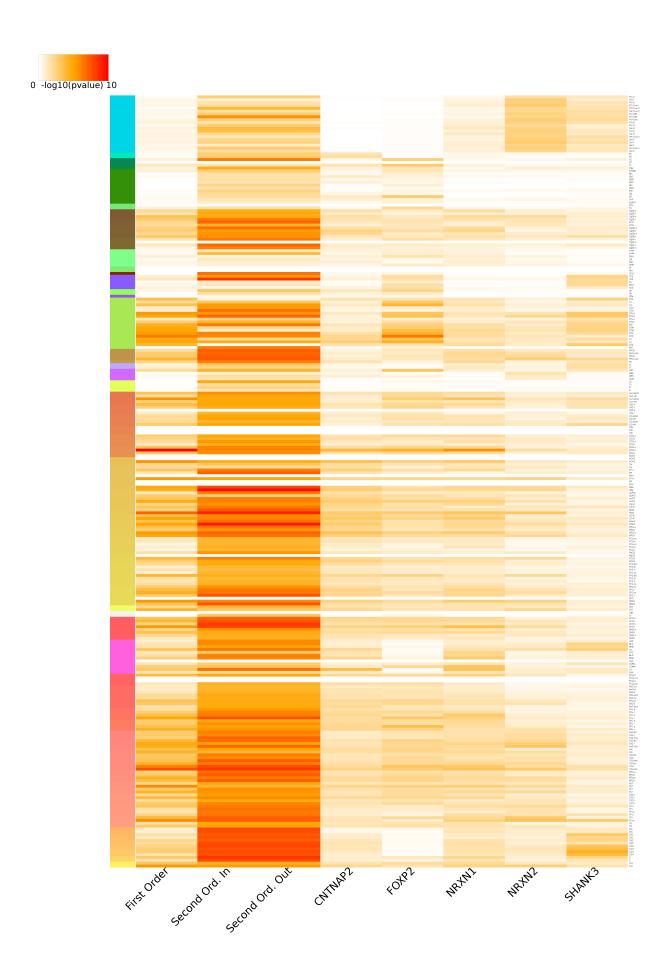




Supplementary Data 4 Case 15. Autdb Human Developmental protein keywords gene-set of autism-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.

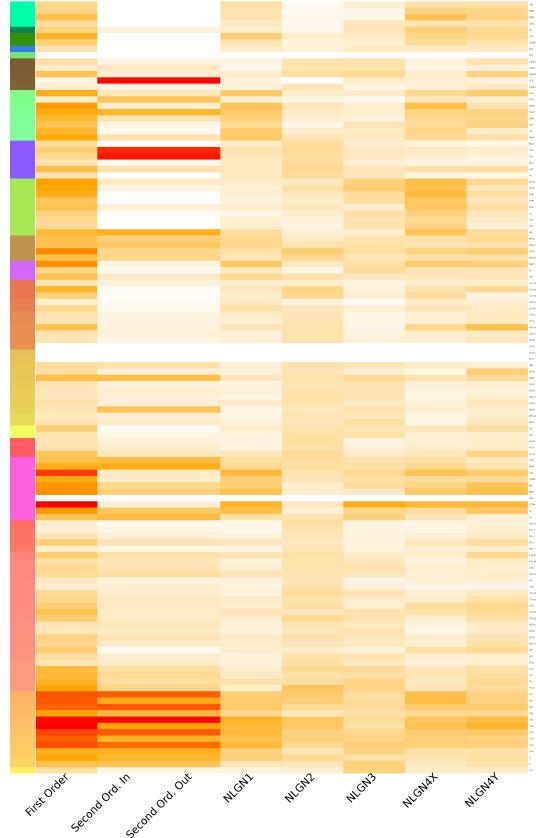


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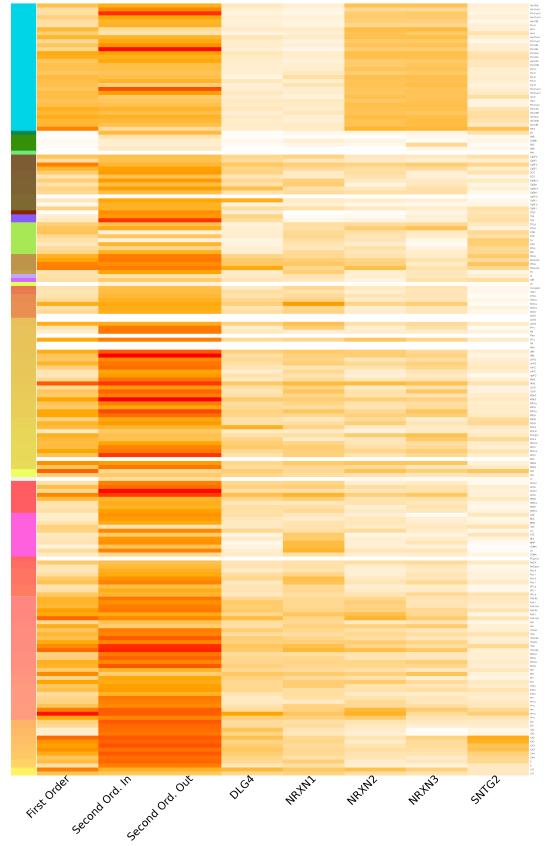


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Supplementary Data 4 Case 19. Autdb Human Neuroligin family protein binding MF gene-set of autism-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.