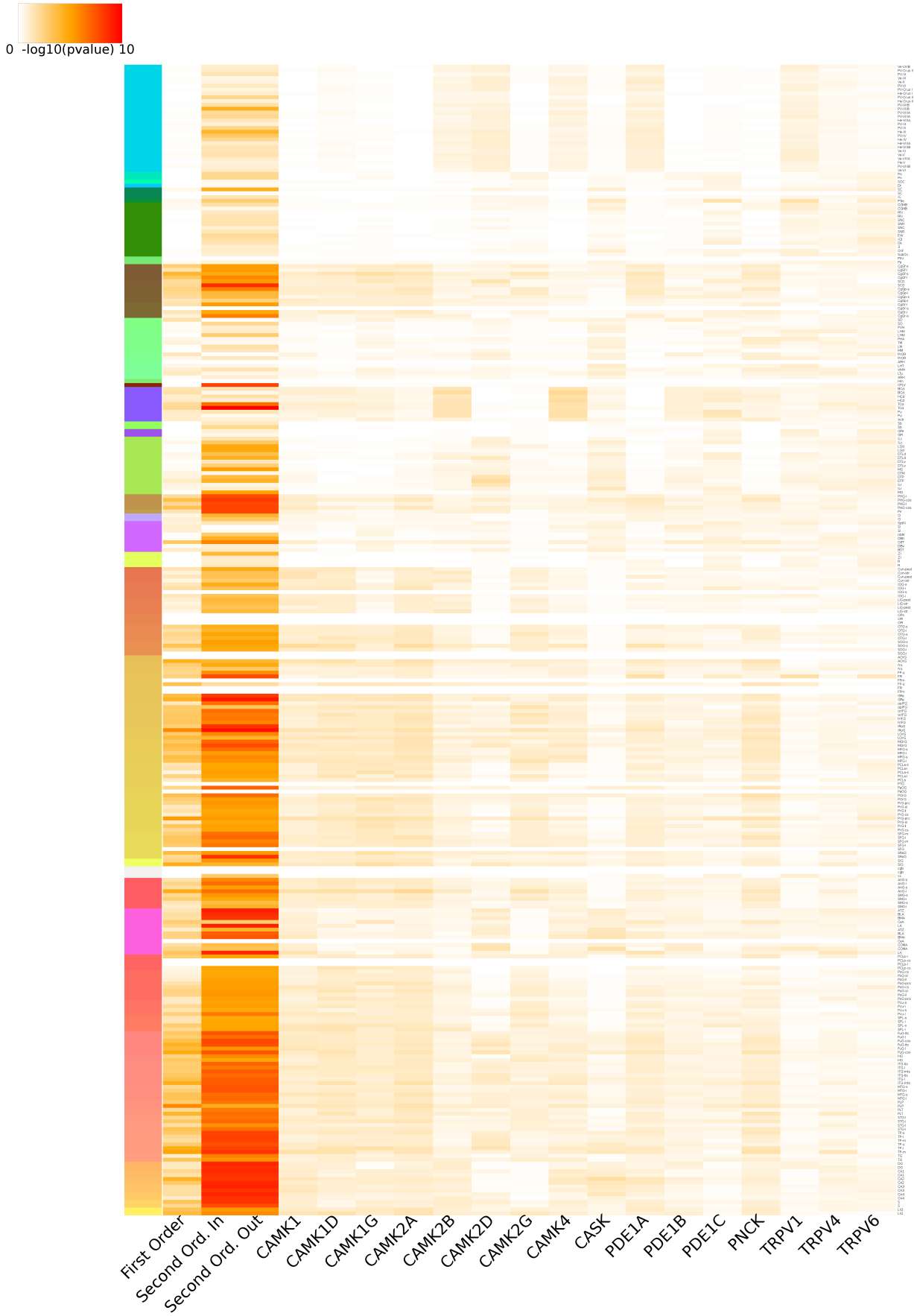


0 -log₁₀(pvalue) 10



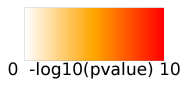
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Supplementary Data 4 Case 2. Pain related genes in human gene-set of pain-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.



A

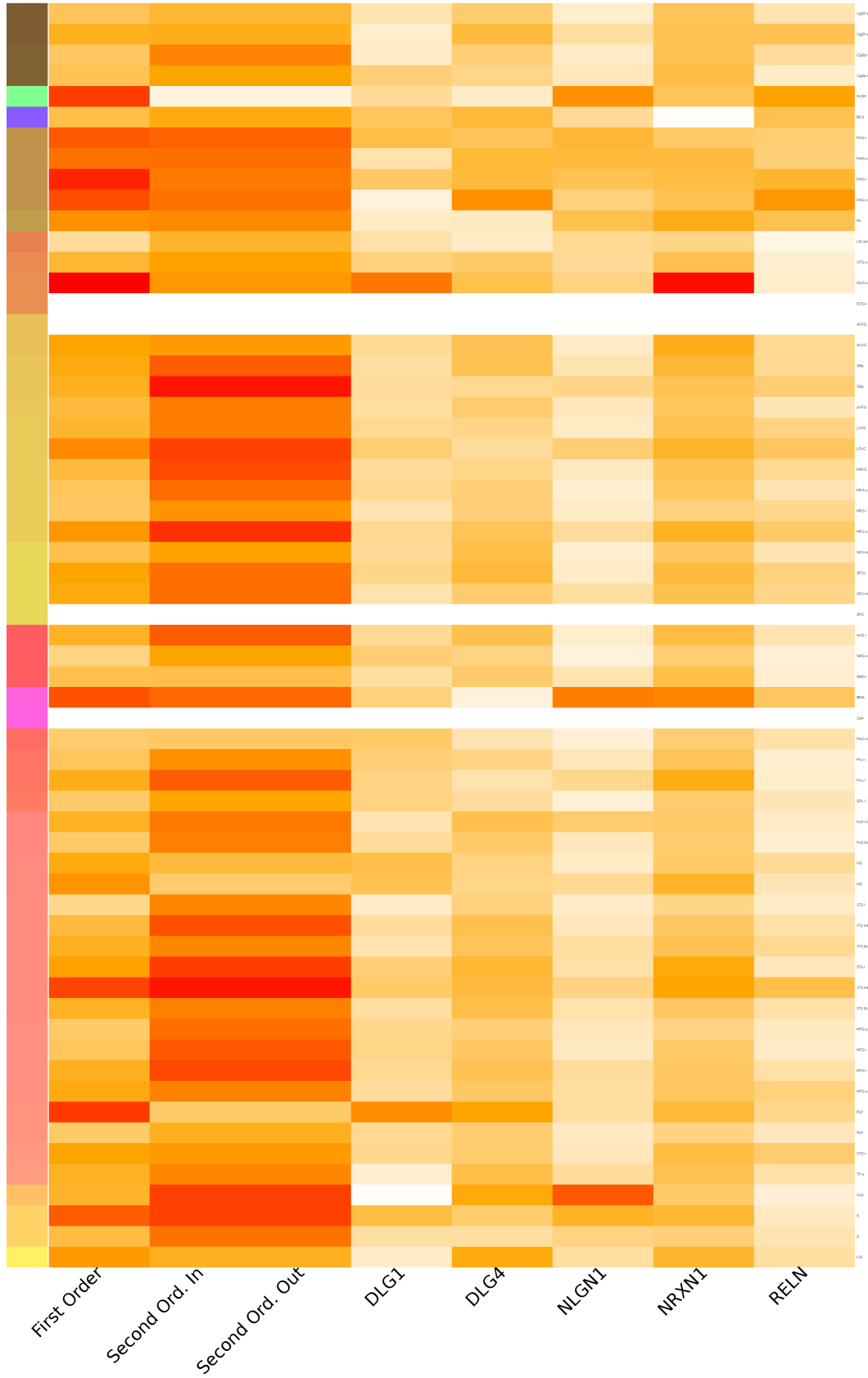
Supplementary Data 4 Case 5. Calmodulin binding gene-set of pain-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.



A

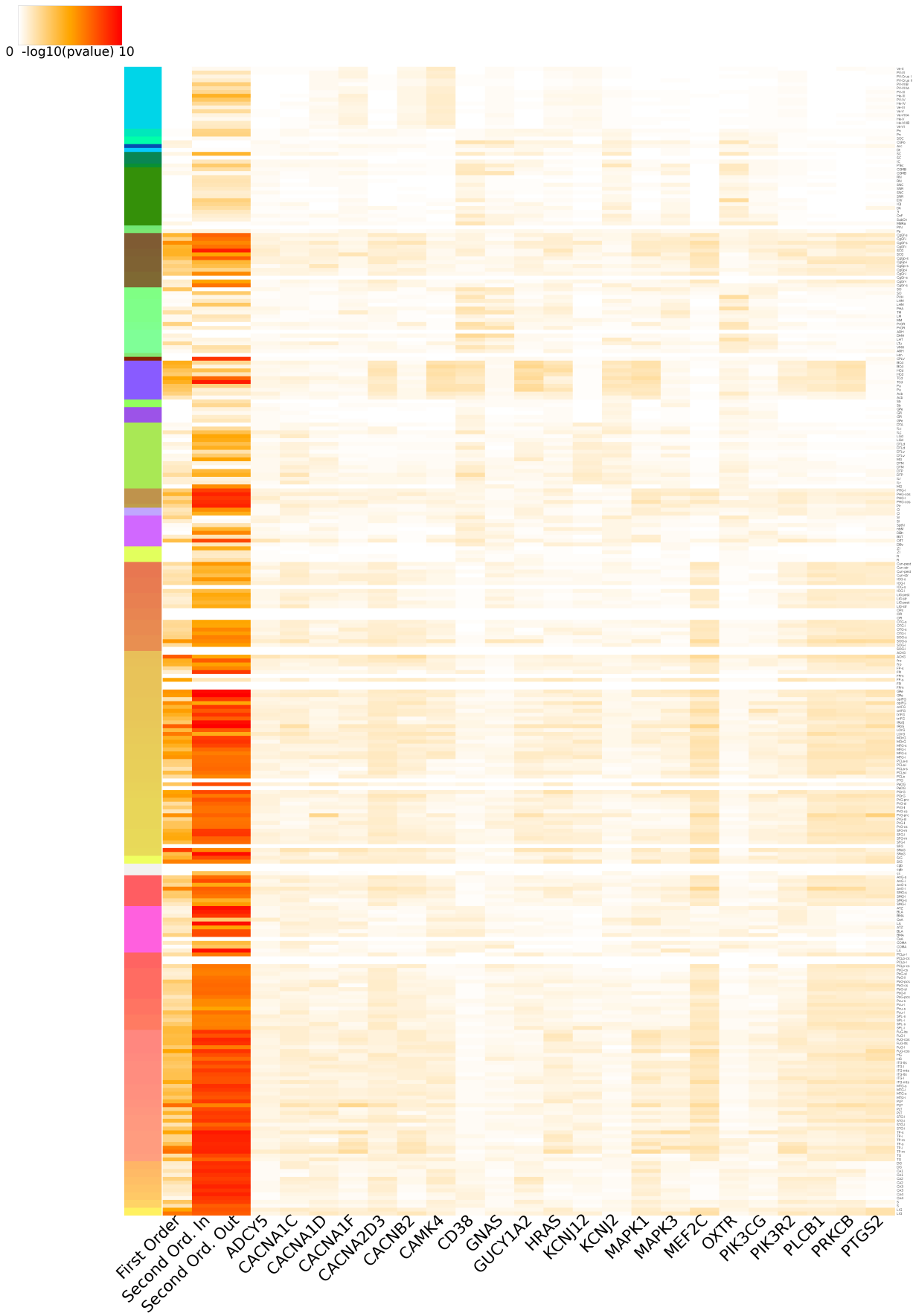
Supplementary Data 4 Case 8. Autdb Human Modulation of synaptic transmission BP gene-set of autism-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.

0 -log₁₀(pvalue) 10



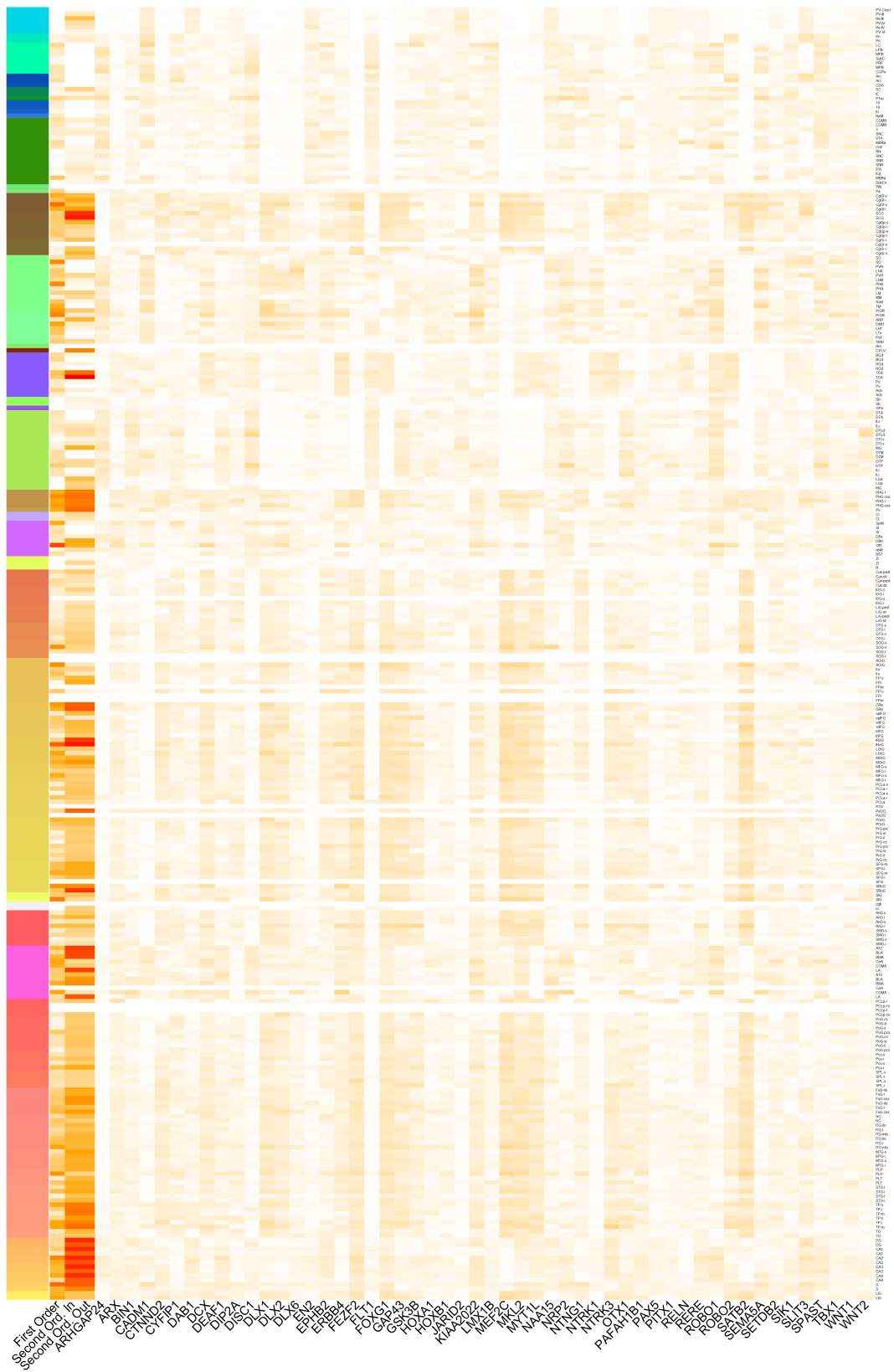
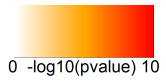
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Supplementary Data 4 Case 9. Autdb Human Receptor localization to synapse BP gene-set of autism-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.



A

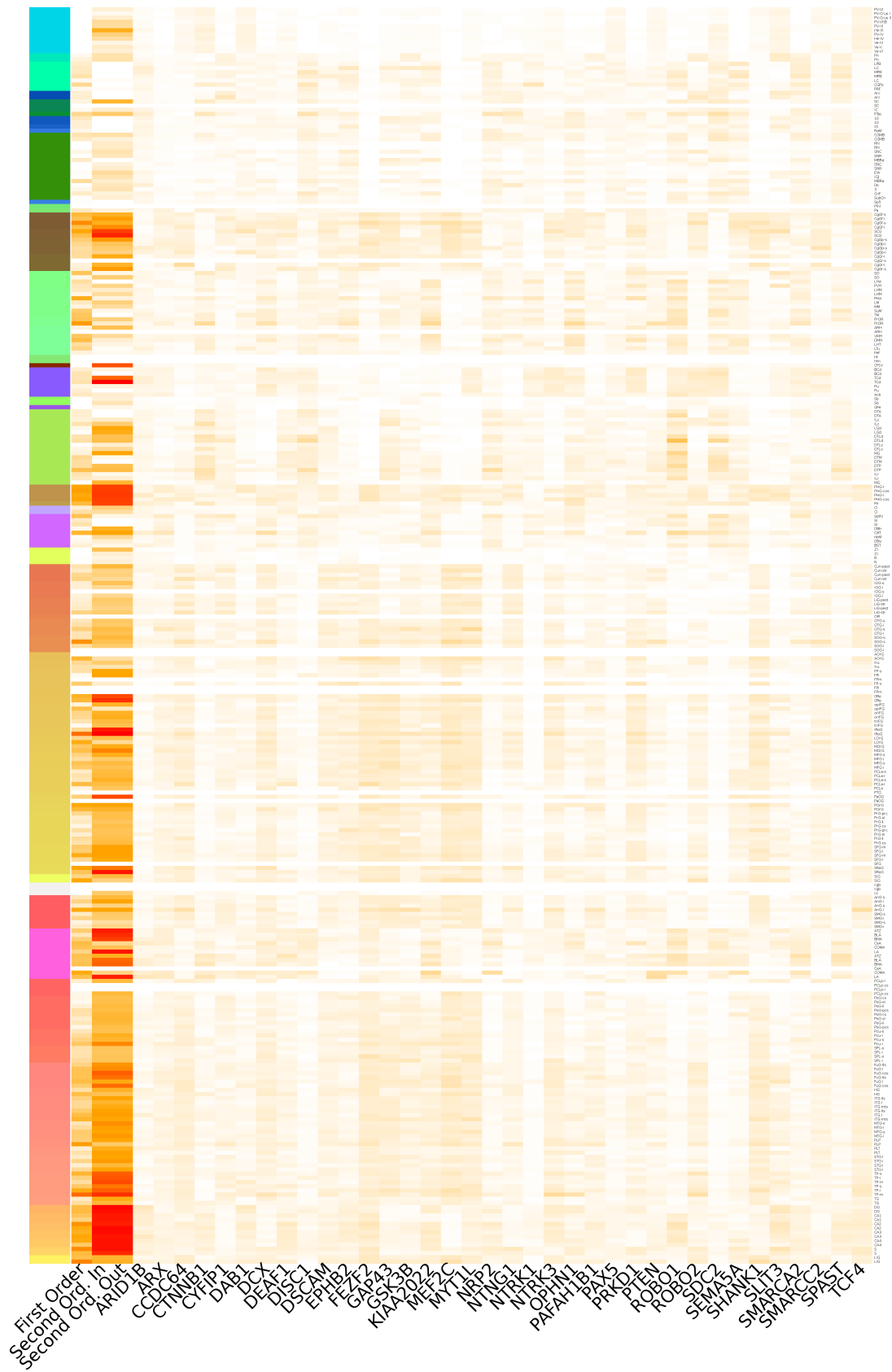
Supplementary Data 4 Case 13. Autdb Human Oxytocin signaling pathway KEGG gene-set of autism-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.



A

Supplementary Data 4 Case 14. 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.

0 -log₁₀(pvalue) 10



A

Supplementary Data 4 Case 15. Autdb Human Neurogenesis 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.

0 -log₁₀(pvalue) 10



A

Supplementary Data 4 Case 17. Autdb Human Neuroligin INTERPRO gene-set of autism-QTLs. Heatmap of average log-scaled p-values of first and second order effects as well as single gene effects.

