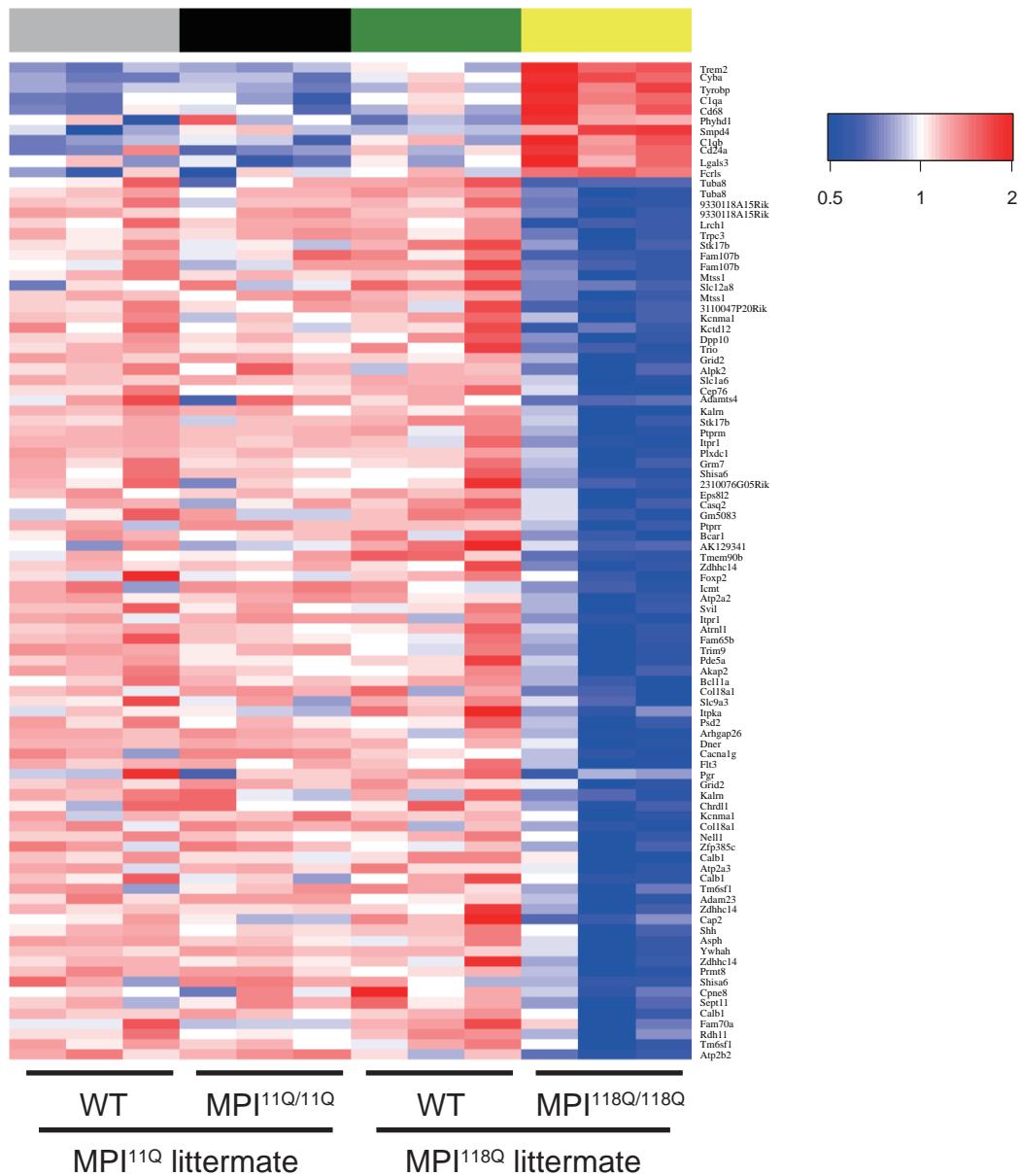
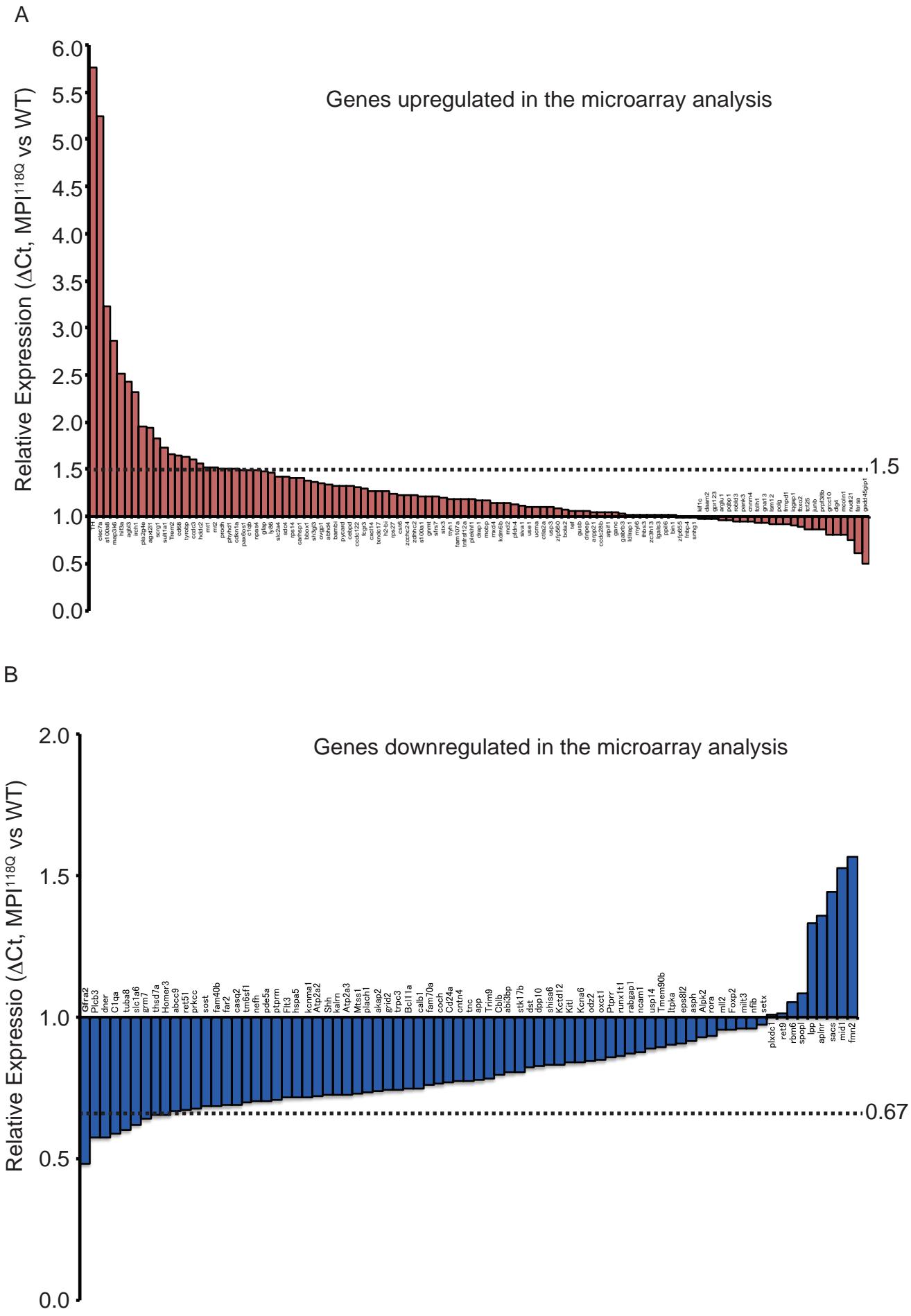


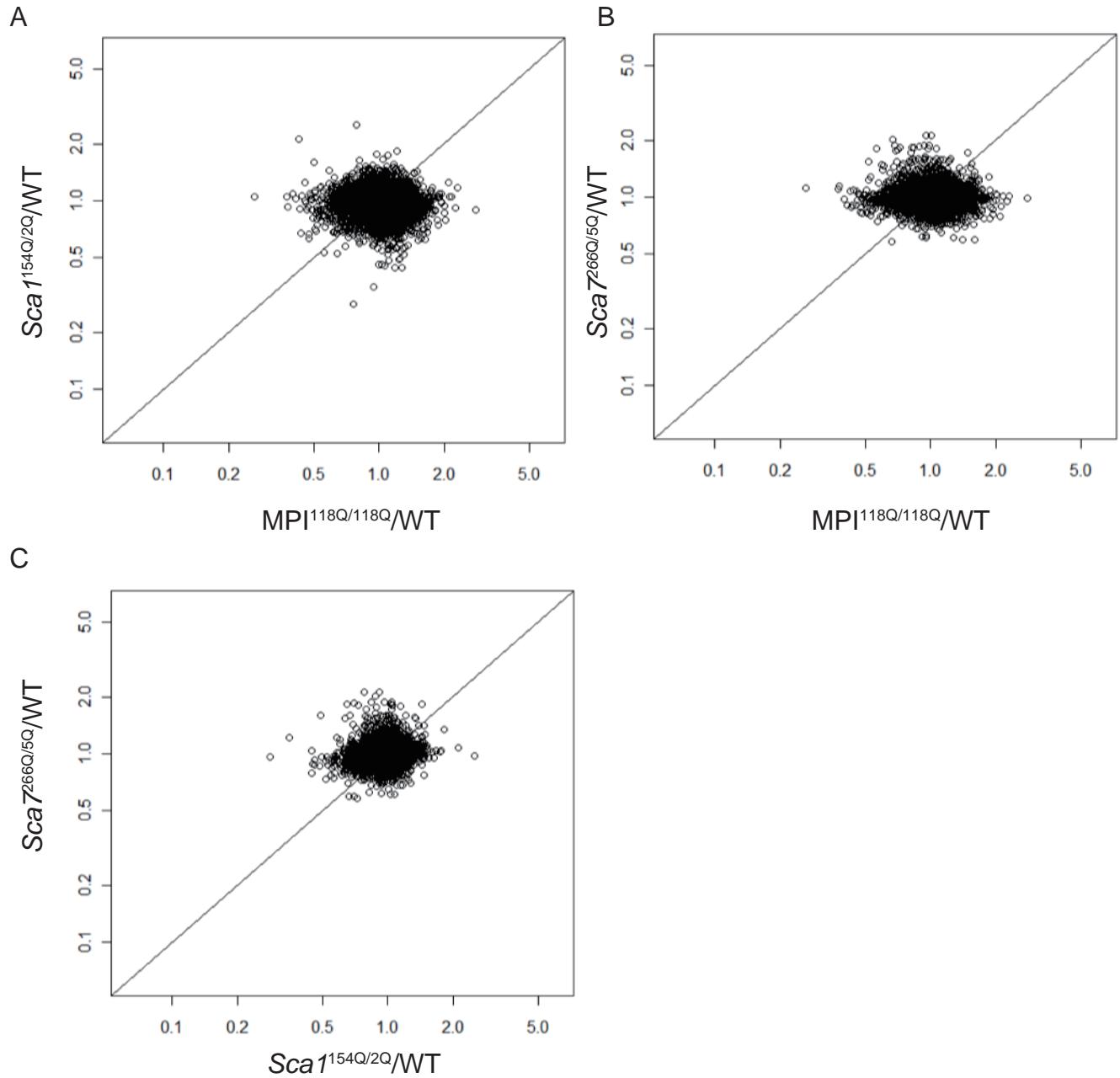
Supplemental Figure 1



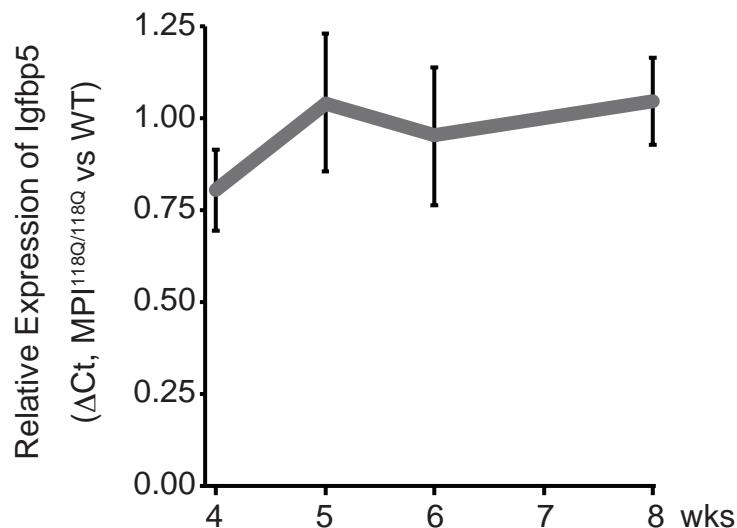
Supplemental Figure 2



Supplemental Figure 3



Supplemental Figure 4

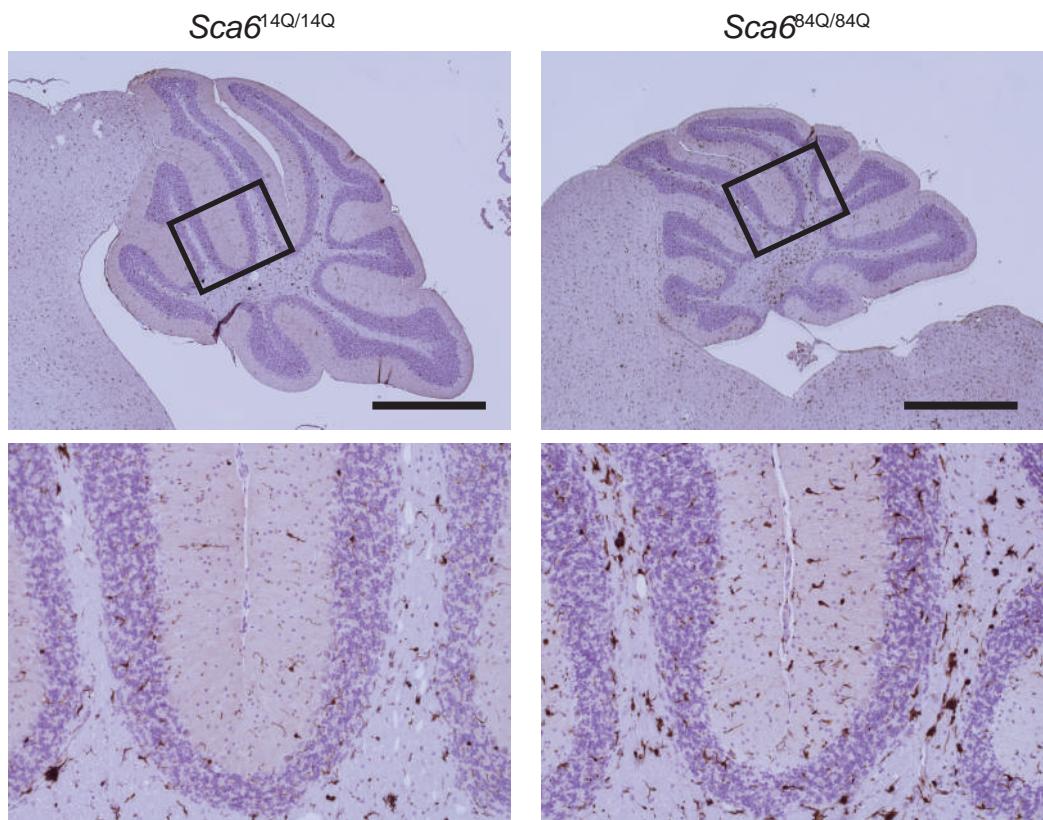


Supplemental Figure 5

Sca1

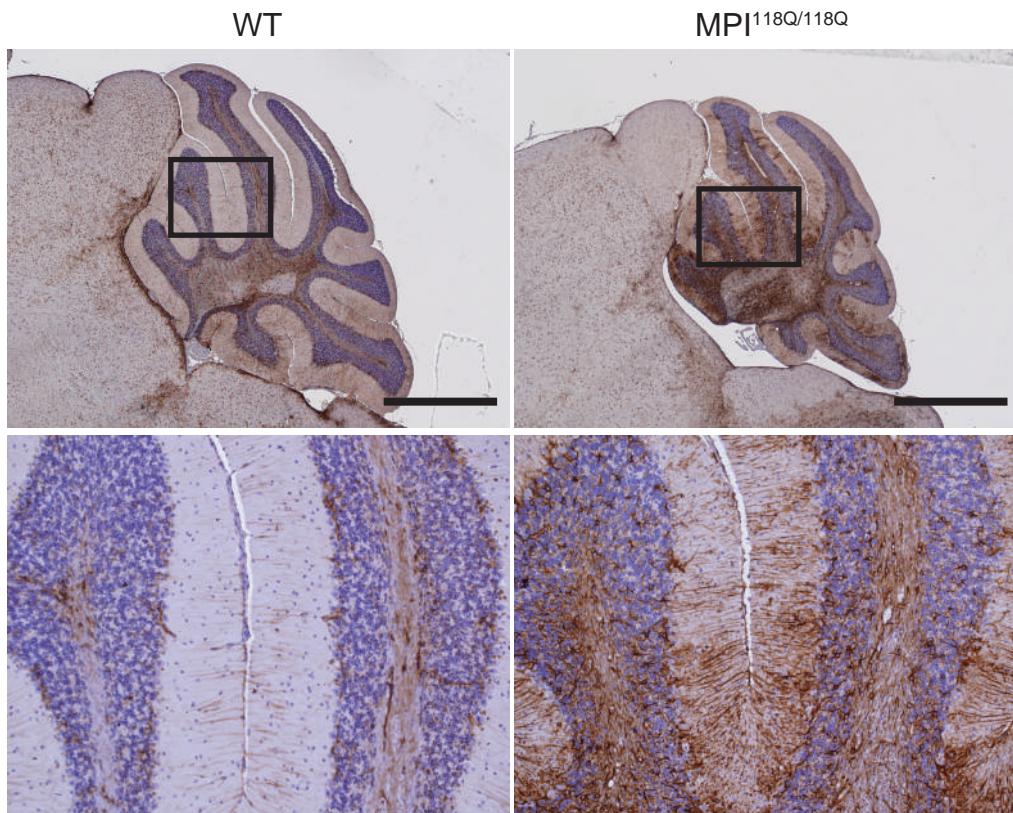
Gene Ontology term	P-value
BEHAVIOR	< 0.001
RHODOPSIN_LIKE_RECECTOR_ACTIVITY	< 0.001
LOCOMOTORY_BEHAVIOR	< 0.001
PEPTIDE_RECECTOR_ACTIVITY	< 0.001
POSITIVE_REGULATION_OF_TRANSLATION	< 0.001
G_PROTEIN_COUPLED_RECECTOR_ACTIVITY	< 0.001
EXTRACELLULAR_SPACE	< 0.001
DIGESTION	0.004
CHEMOKINE_RECECTOR_BINDING	0.001
LIPASE_ACTIVITY	0.001
POSITIVE_REGULATION_OF_CYTOKINE_BIOSYNTHETIC_PROCESS	< 0.001
RESPONSE_TO_EXTERNAL_STIMULUS	< 0.001
CHEMOKINE_ACTIVITY	0.001
AMINE_RECECTOR_ACTIVITY	0.001
G_PROTEIN_COUPLED_RECECTOR_PROTEIN_SIGNALING_PATHWAY	< 0.001
SECOND_MESSENGER_MEDIATED_SIGNALING	< 0.001
G_PROTEIN_COUPLED_RECECTOR_BINDING	< 0.001
INFLAMMATORY_RESPONSE	< 0.001
FEEDING_BEHAVIOR	0.012
DEFENSE_RESPONSE	< 0.001
CATION_HOMEOSTASIS	0.001
CARBOXYLESTERASE_ACTIVITY	0.004
RESPONSE_TO_WOUNDING	< 0.001
INTERLEUKIN_BINDING	0.006
CELLULAR_CATION_HOMEOSTASIS	0.001
GLYCOSAMINOGLYCAN_BINDING	0.005
RNA_HELICASE_ACTIVITY	< 0.001
ATP_DEPENDENT_HELICASE_ACTIVITY	< 0.001
RESPONSE_TO_HYPOXIA	< 0.001
GOLGI_MEMBRANE	< 0.001
NUCLEAR_HORMONE_RECECTOR_BINDING	0.004
HORMONE_RECECTOR_BINDING	< 0.001
TRANSPORT_VESICLE	< 0.001
RNA_SPLICING_VIA_TRANSESTERIFICATION_REACTIONS	< 0.001
NUCLEAR_PORE	0.005
DNA_DIRECTED_RNA_PolyMERASEII_HOLOENZYME	< 0.001

Supplemental Figure 6

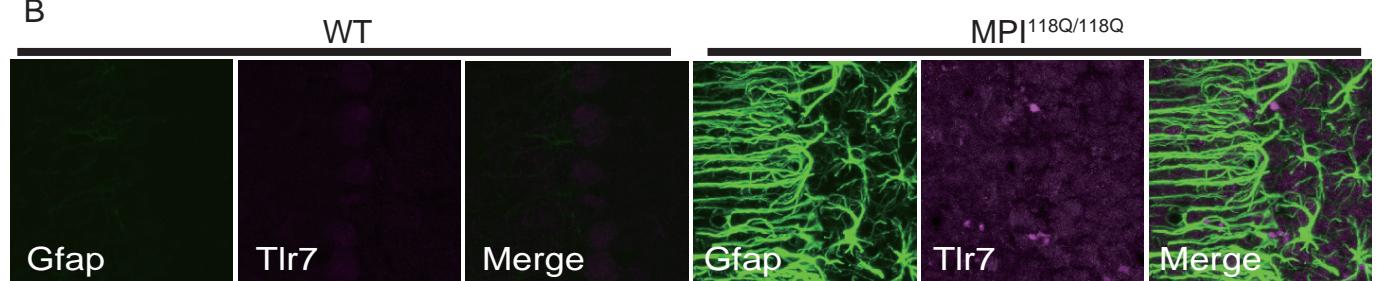


Supplemental Figure 7

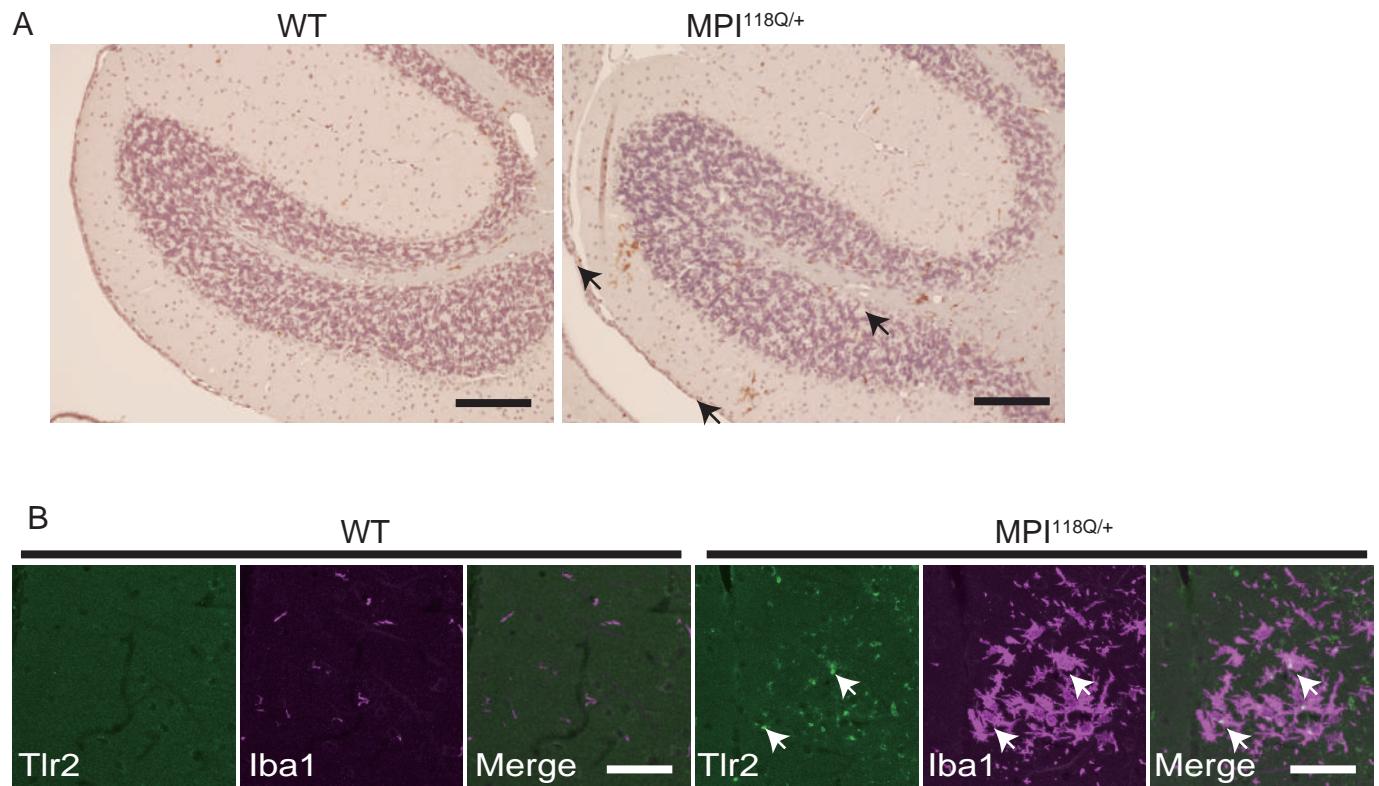
A



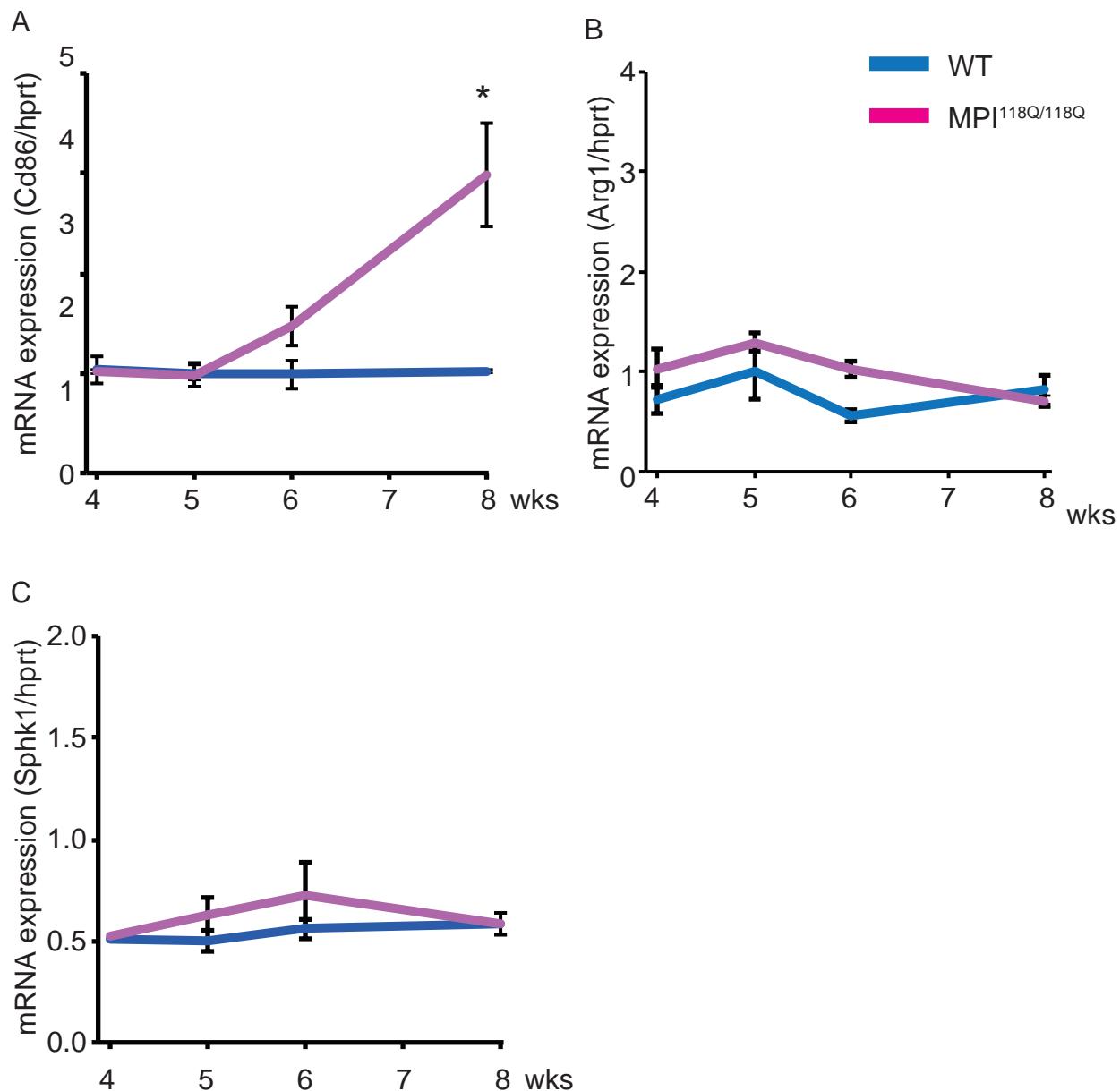
B



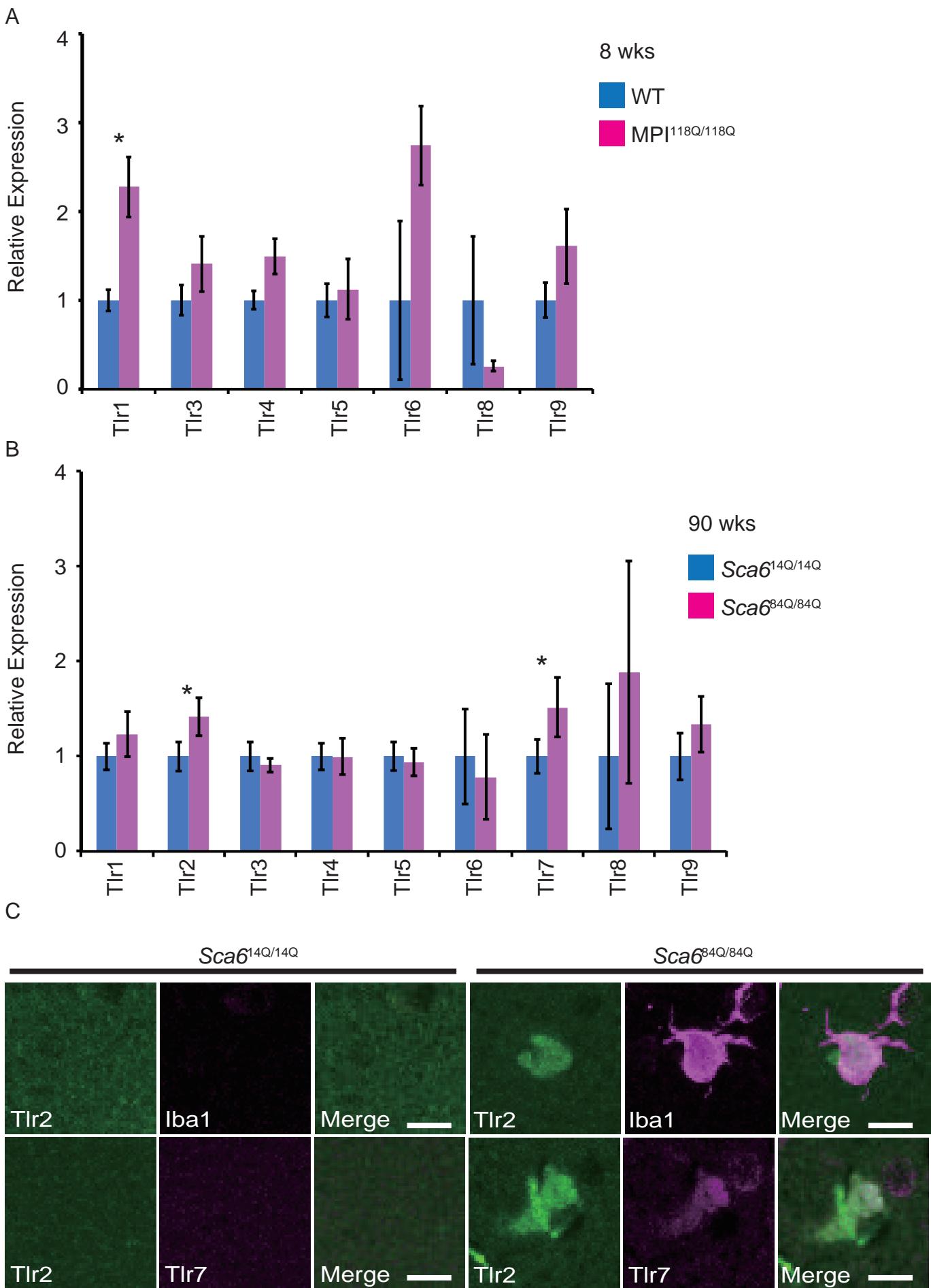
Supplemental Figure 8



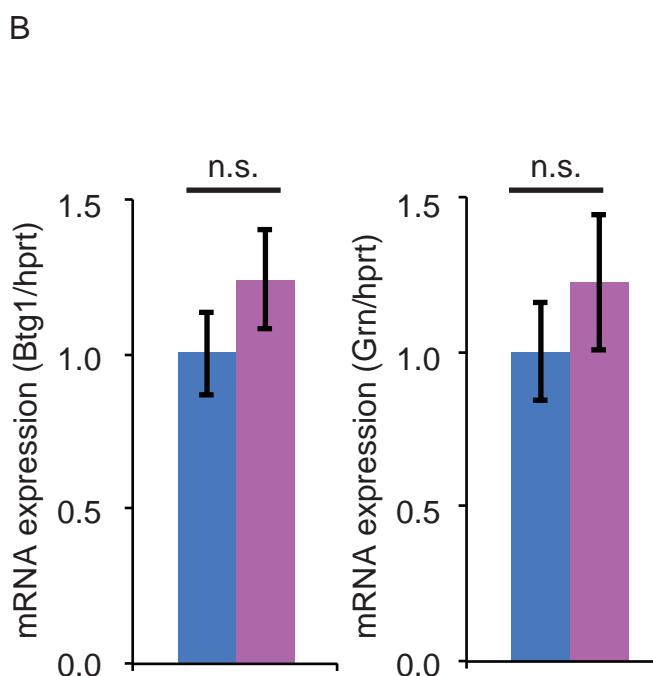
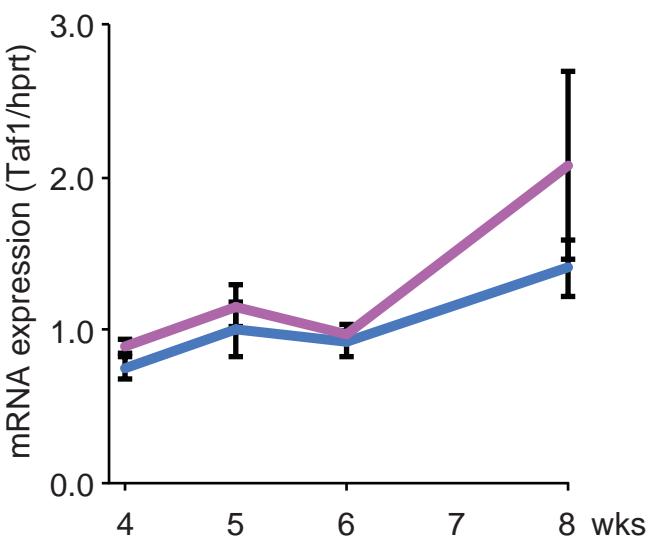
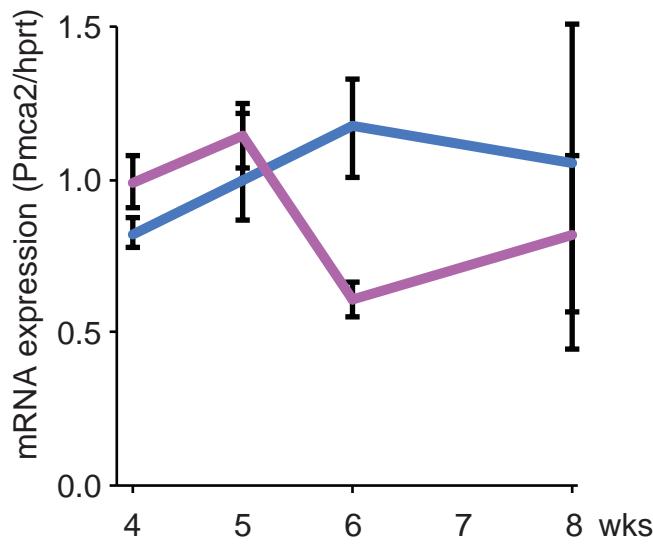
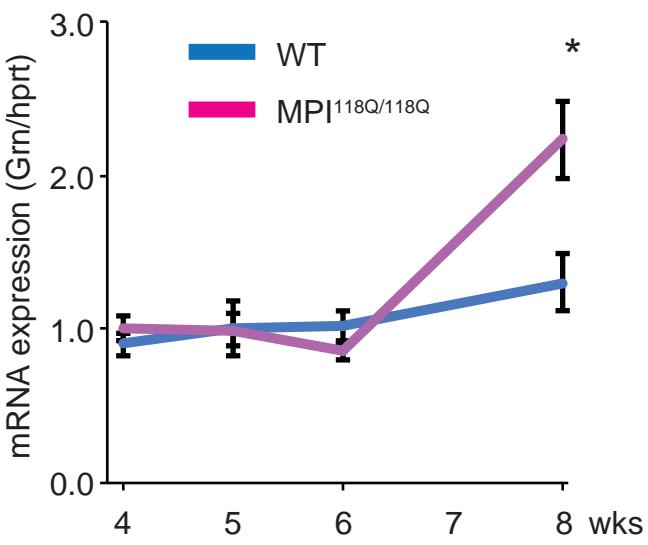
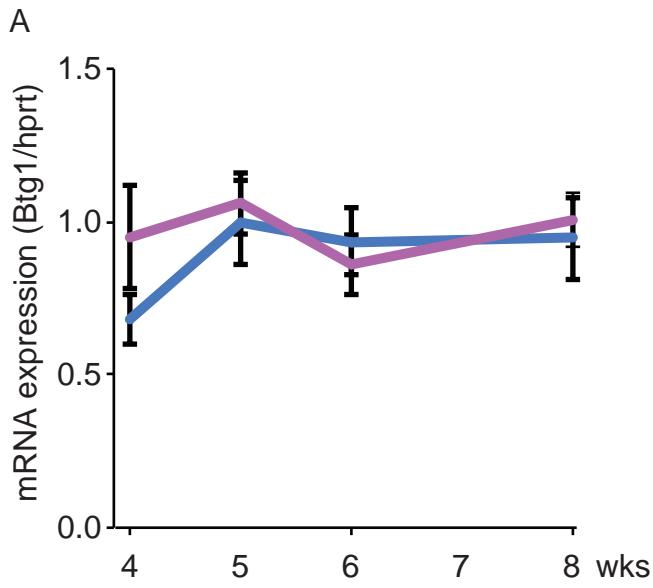
Supplemental Figure 9



Supplemental Figure 10



Supplemental Figure 11

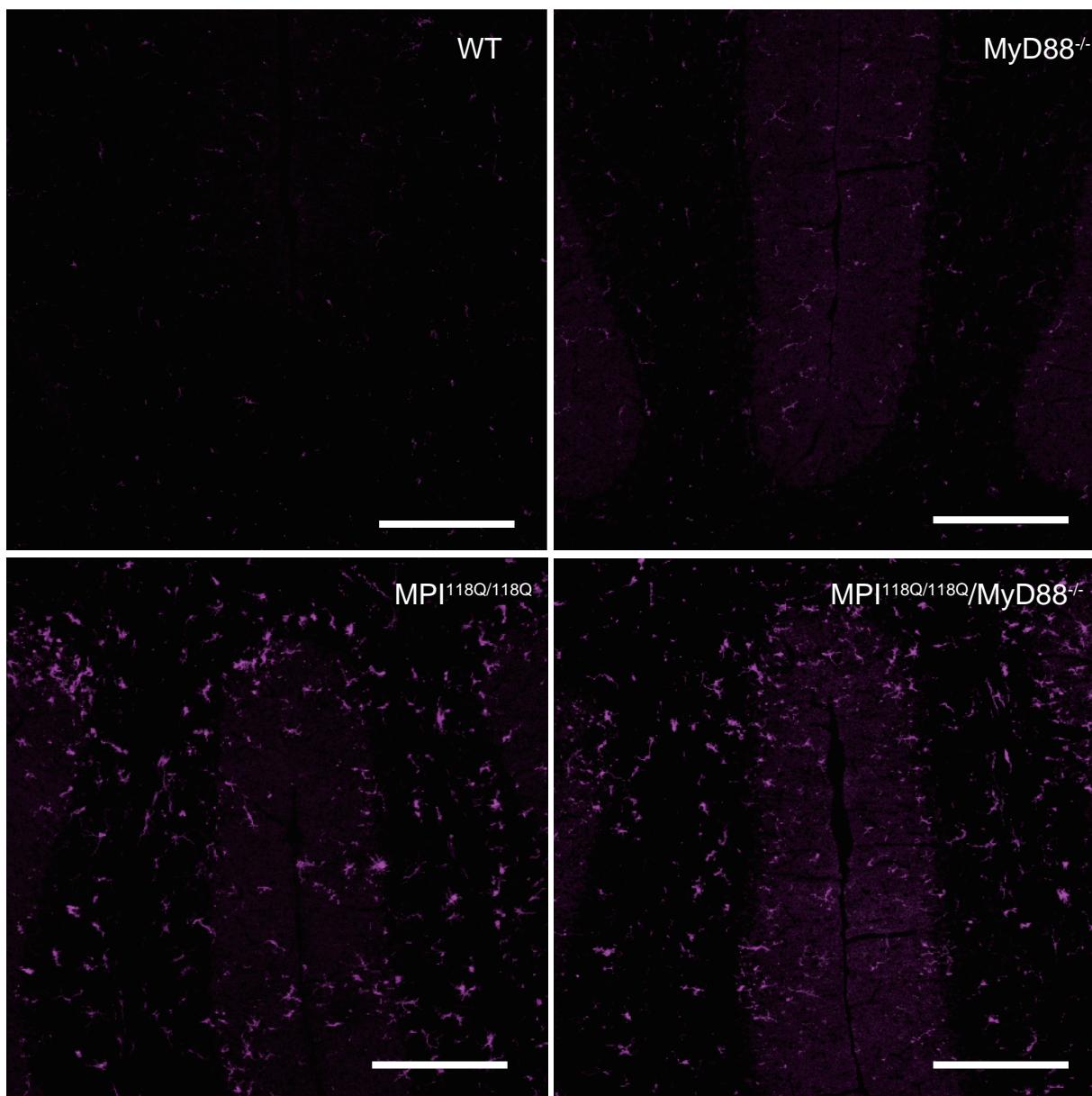


90 wks

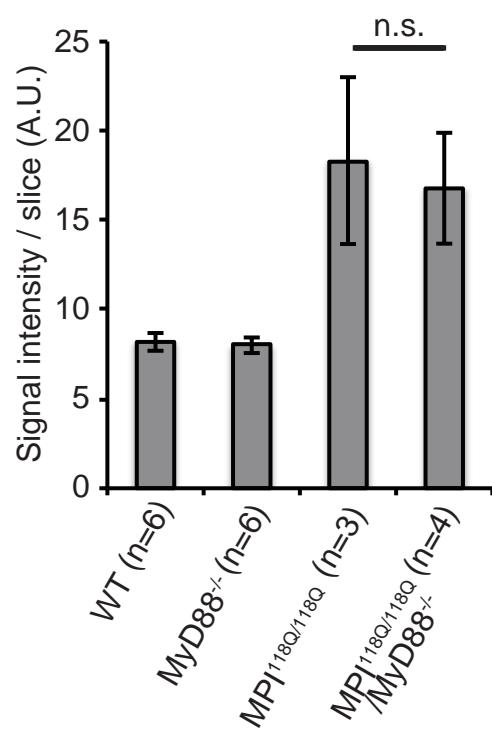
- $Sca6^{14Q/14Q}$
- $Sca6^{84Q/84Q}$

Supplemental Figure 12

A

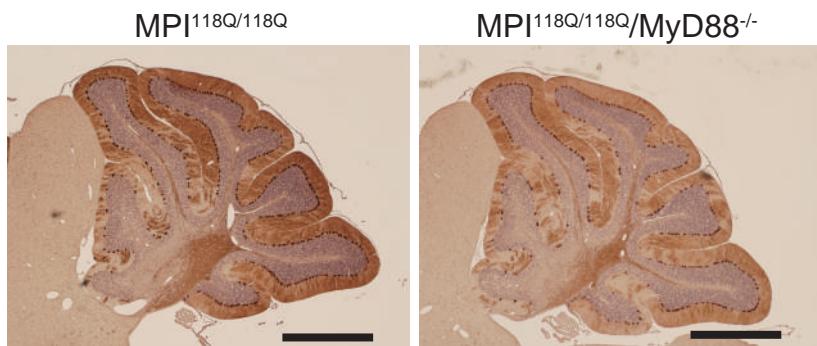


B



Supplemental Figure 13

A



B

