

Table S1. Significant ANOVA effects involving genotype (Geno) and sex variables from the sensorimotor battery and rotarod test in 1-month and 4-5 months old *Gnptab*^{-/-} and WT mice.

<u>Test (Age)</u>	<u>Effect</u>	<u>F Statistics</u>
Sensorimotor Battery		
Platform (1 mo)	Geno	$F_{(1,24)}=5.66, p=0.026$
Pole (1 mo)	Geno	$F_{(1,24)}=15.15, p=0.0007$
Inverted Screen (1 mo)	Geno	$F_{(1,24)}=6.18, p=0.020$
Platform (4-5 mos)	Geno	$F_{(1,23)}=19.10, p=0.0002$
Pole (4-5 mos)	Geno	$F_{(1,23)}=16.59, p=0.0005$
Inverted Screen (4-5 mos)	Geno	$F_{(1,23)}=230.88, p<0.00005$
Ledge (4-5 mos)	Geno Sex Geno x Sex	$F_{(1,23)}=14.28, p=0.001$ $F_{(1,23)}=5.74, p=0.025$ $F_{(1,23)}=4.70, p=0.041$
Rotarod		
Stationary (1 mo)	Geno Sex Geno x Trials Trial 1	$F_{(1,22)}=12.29, p=0.002$ $F_{(1,22)}=5.70, p=0.026$ $F_{(2,44)}=9.32, p=0.0004$ $F_{(1,22)}=15.67, p=0.0007$
Constant Speed (1 mo)	Geno x Sessions Session 1, Trial 1 Session 1, Trial 2	$F_{(2,44)}=4.04, p=0.024$ $F_{(1,22)}=4.48, p=0.046$ $F_{(1,22)}=6.03, p=0.022$
Stationary (4-5 mos)	Geno Trial 1 Trial 2 Trial 3	$F_{(1,21)}=35.22, p<0.00005$ $F_{(1,21)}=18.39, p=0.0003$ $F_{(1,21)}=19.61, p=0.0002$ $F_{(1,21)}=17.87, p=0.0004$
Constant Speed (4-5 mos)	Geno Session 1, Trial 1 Session 1, Trial 2 Session 2, Trial 1 Session 2, Trial 2 Session 3, Trial 1 Session 3, Trial 2	$F_{(1,21)}=31.91, p<0.00005$ $F_{(1,21)}=12.83, p=0.002$ $F_{(1,21)}=14.16, p=0.001$ $F_{(1,21)}=38.80, p<0.00005$ $F_{(1,21)}=26.62, p<0.00005$ $F_{(1,21)}=16.21, p=0.0006$ $F_{(1,21)}=18.60, p=0.0003$
Accelerating (4-5 mos)	Geno Geno x Trials Session 1, Trial 1 Session 1, Trial 2 Session 2, Trial 1 Session 2, Trial 2 Session 3, Trial 1 Session 3, Trial 2	$F_{(1,21)}=38.65, p<0.00005$ $F_{(1,21)}=8.15, p=0.010$ $F_{(1,21)}=20.58, p=0.0002$ $F_{(1,21)}=33.70, p<0.00005$ $F_{(1,21)}=33.25, p<0.00005$ $F_{(1,21)}=28.75, p<0.00005$ $F_{(1,21)}=12.54, p=0.002$ $F_{(1,21)}=29.43, p<0.00005$