

Table S3. Significant ANOVA effects involving genotype (Geno) and sex variables from the rotarod test in 4-6 and 12-14 months old *Gnptg*^{-/-} and WT mice.

<u>Test (Age)</u>	<u>Effect</u>	<u>F Statistics</u>
Rotarod		
Stationary (4-6 mo)	Geno	$F_{(1,16)}=6.27, p=0.024$
	Geno x Trials	$F_{(2,32)}=7.85, p=0.003$
	Sex x Trials	$F_{(2,32)}=4.17, p=0.030$
	Trial 1	$F_{(1,16)}=9.38, p=0.007$
Constant Speed (4-6 mo)	Geno	$F_{(1,16)}=10.87, p=0.005$
	Session 1, Trial 2	$F_{(1,16)}=11.71, p=0.004$
	Session 2, Trial 2	$F_{(1,16)}=4.76, p=0.044$
	Session 3, Trial 1	$F_{(1,16)}=6.82, p=0.019$
Accelerating (4-6 mos)	Geno	$F_{(1,16)}=21.61, p=0.0003$
	Geno x Session	$F_{(2,32)}=7.46, p=0.002$
	Geno x Sex x Trials	$F_{(1,16)}=11.01, p=0.004$
	Session 1, Trial 2	$F_{(1,16)}=20.86, p=0.0003$
	Session 2, Trial 1	$F_{(1,16)}=8.04, p=0.012$
	Session 2, Trial 2	$F_{(1,16)}=17.03, p=0.0008$
	Session 3, Trial 1	$F_{(1,16)}=36.73, p<0.00005$
	Session 3, Trial 1	$F_{(1,16)}=8.90, p=0.009$
Constant Speed (12-14 mos)	Geno	$F_{(1,15)}=21.96, p=0.0003$
	Session 1, Trial 2	$F_{(1,15)}=22.42, p=0.0003$
	Session 2, Trial 1	$F_{(1,15)}=5.54, p=0.033$
	Session 2, Trial 2	$F_{(1,15)}=11.65, p=0.004$
Accelerating (12-14 mos)	Geno	$F_{(1,15)}=28.17, p=0.0001$
	Geno x Sex x Trials x Sessions	$F_{(2,30)}=4.71, p=0.017$
	Session 1, Trial1	$F_{(1,15)}=9.78, p=0.007$
	Session 1, Trial 2	$F_{(1,15)}=16.71, p=0.001$
	Session 2, Trial 1	$F_{(1,15)}=14.57, p=0.002$
	Session 2, Trial 2	$F_{(1,15)}=20.64, p=0.0004$
	Session 3, Trial 1	$F_{(1,15)}=12.31, p=0.003$
	Session 3, Trial 2	$F_{(1,15)}=39.41, p<0.00005$