

**Supplemental Table 3: Statistical summary of behavioral data for *Dlx5/6-Mecp2<sup>fl/y</sup>* mice**

Behavioral Paradigm	Age (wks)	Measurement	Statistical Test	Comparison	Statistics	df, residual	p	Figure
<i>Dlx5/6-Mecp2<sup>fl/y</sup></i> Grooming	12	percent grooming time (%)	One-way ANOVA	Genotype	F = 1.375	3, 47	0.2619	4b
			Tukey's post hoc	no post tests $p > 0.05$				
<i>Dlx5/6-Mecp2<sup>fl/y</sup></i> Holeboard	12	number of holes with 2 or more sequential nose pokes	Kruskal-Wallis		H = 14.92	3	0.0019	4c
			Dunn's post-hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.05 > 0.05 < 0.05 < 0.01	
<i>Dlx5/6-Mecp2<sup>fl/y</sup></i> Hot Plate	12	time to hindlimb response (sec)	One-way ANOVA	Genotype	F = 2.920	3, 60	0.0413	S11a
			Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 > 0.05 > 0.05 > 0.05 < 0.05	
<i>Dlx5/6-Mecp2<sup>fl/y</sup></i> Tail Flick	12	time to tail flick response (sec)	One-way ANOVA	Genotype	F = 1.225	3, 60	0.3084	S11b
			Tukey's post hoc	no post tests $p > 0.05$				
<i>Dlx5/6-Mecp2<sup>fl/y</sup></i> Open Field Assay: Exploratory Activity	5	total distance traveled (cm)	One-way ANOVA	Genotype	F = 2.325	3, 60	0.0839	S9b
	19	total distance traveled (cm)	One-way ANOVA	Genotype	F = 3.100	3, 60	0.0333	4h
<i>Dlx5/6-Mecp2<sup>fl/y</sup></i> Footslip	5	# slips per 100 beam breaks	One-way ANOVA	Genotype	F = 26.20	3, 56	< 0.0001	S9c
	22	# slips per 100 beam breaks	One-way ANOVA	Genotype	F = 33.31	3, 60	< 0.0001	4d
<i>Dlx5/6-Mecp2<sup>fl/y</sup></i> Wire Hang	9	latency to fall (sec)	One-way ANOVA	Genotype	F = 4.912	3, 60	0.0041	S9d
	19	latency to fall (sec)	One-way ANOVA	Genotype	F = 9.318	3, 60	< 0.0001	4e
<i>Dlx5/6-Mecp2<sup>fl/y</sup></i> Dowel walk	9	number of side touches	One-way ANOVA	Genotype	F = 5.784	3, 60	0.0015	S9e
	19	number of side touches	One-way ANOVA	Genotype	F = 32.91	3, 60	< 0.0001	4f
<i>Dlx5/6-Mecp2<sup>fl/y</sup></i> Accelerating Rotarod	5	latency to fall (sec)	Two-way ANOVA	Genotype	F = 6.070	3	0.0011	S9a
			Repeated measure	Trial	F = 95.21	7	< 0.0001	
				Interaction	F = 1.060	21	0.3895	
				Subjects	F = 9.069	60	< 0.0001	
				Residual		308		
			Bonferroni post hoc	WT vs. Cre			> 0.05	
			Trial 1	WT vs. Flox			> 0.05	
				WT vs. CKO			> 0.05	
				Cre vs. Flox			> 0.05	
				Cre vs. CKO			> 0.05	

		Flox vs. CKO			> 0.05
	Bonferroni post hoc Trial 2	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 > 0.05 > 0.05 > 0.05 > 0.05
	Bonferroni post hoc Trial 3	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 > 0.05 > 0.05 > 0.05 > 0.05
	Bonferroni post hoc Trial 4	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 > 0.05 > 0.05 > 0.05 > 0.05
	Bonferroni post hoc Trial 5	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 > 0.05 > 0.05 > 0.05 > 0.05
	Bonferroni post hoc Trial 6	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 > 0.05 > 0.05 > 0.05 > 0.05
	Bonferroni post hoc Trial 7	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 > 0.05 > 0.05 > 0.05 > 0.05
	Bonferroni post hoc Trial 8	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 > 0.05 > 0.05 > 0.05 > 0.05
latency to fall (sec)	One-way ANOVA Trial 1	Genotype	F = 0.4410	3, 60	0.7245
	Tukey's post hoc	no post tests p > 0.05			
latency to fall (sec)	One-way ANOVA Trial 2	Genotype	F = 3.290	3, 60	0.0266
	Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.05 > 0.05 > 0.05 > 0.05
latency to fall (sec)	One-way ANOVA Trial 3	Genotype	F = 7.426	3, 60	0.0003
	Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 < 0.05 < 0.001 > 0.05 < 0.05 > 0.05
latency to fall (sec)	One-way ANOVA Trial 4	Genotype	F = 3.534	3, 60	0.0199
	Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.05 > 0.05 > 0.05 > 0.05
latency to fall (sec)	One-way ANOVA Trial 5	Genotype	F = 3.202	3, 60	0.0295
	Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.05 > 0.05 > 0.05 > 0.05
latency to fall (sec)	One-way ANOVA Trial 6	Genotype	F = 2.917	3, 60	0.0414
	Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.05 > 0.05 > 0.05 > 0.05
latency to fall (sec)	One-way ANOVA Trial 7	Genotype	F = 3.137	3, 60	0.0319
	Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox			> 0.05 > 0.05 < 0.05 > 0.05

			Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05	
	latency to fall (sec)	One-way ANOVA Trial 8	Genotype	F = 7.585	3, 60	0.0002	
		Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.001 > 0.05 < 0.001 < 0.01	
19	latency to fall (sec)	Two-way ANOVA Repeated measure	Genotype Trial Interaction Subjects Residual	F = 13.40 F = 96.94 F = 1.454 F = 14.26	3 7 21 60 420	< 0.0001 < 0.0001 0.0895 < 0.0001	4g
		Bonferroni post hoc Trial 1	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.05 > 0.05 > 0.05 > 0.05	
		Bonferroni post hoc Trial 2	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.001 > 0.05 < 0.001 > 0.05	
		Bonferroni post hoc Trial 3	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 < 0.05 < 0.001 > 0.05 < 0.001 > 0.05	
		Bonferroni post hoc Trial 4	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.001 > 0.05 < 0.001 < 0.01	
		Bonferroni post hoc Trial 5	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.001 > 0.05 < 0.001 < 0.01	
		Bonferroni post hoc Trial 6	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.001 > 0.05 < 0.001 < 0.01	
		Bonferroni post hoc Trial 7	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.001 > 0.05 < 0.001 < 0.01	
		Bonferroni post hoc Trial 8	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.001 > 0.05 < 0.001 < 0.001	
	latency to fall (sec)	One-way ANOVA Trial 1	Genotype	F = 3.812	3, 60	0.0144	
		Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.01 > 0.05 > 0.05 > 0.05	
	latency to fall (sec)	One-way ANOVA Trial 2	Genotype	F = 5.815	3, 60	0.0015	
		Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.001 > 0.05 < 0.01 > 0.05	
	latency to fall (sec)	One-way ANOVA Trial 3	Genotype	F = 9.019	3, 60	< 0.0001	
		Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.001 > 0.05 < 0.01 > 0.05	
	latency to fall (sec)	One-way ANOVA Trial 4	Genotype	F = 10.21	3, 60	< 0.0001	
		Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO			> 0.05 > 0.05 < 0.001	

				Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 < 0.01 < 0.01	
		latency to fall (sec)	One-way ANOVA Trial 5	Genotype	F = 13.77	3, 60	< 0.0001	
			Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.001 > 0.05 < 0.001 < 0.01	
		latency to fall (sec)	One-way ANOVA Trial 6	Genotype	F = 11.29	3, 60	< 0.0001	
			Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.001 > 0.05 < 0.001 < 0.01	
		latency to fall (sec)	One-way ANOVA Trial 7	Genotype	F = 10.41	3, 60	< 0.0001	
			Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.001 > 0.05 < 0.001 < 0.01	
		latency to fall (sec)	One-way ANOVA Trial 8	Genotype	F = 11.78	3, 60	< 0.0001	
			Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.001 > 0.05 < 0.001 < 0.01	
<i>Dlx5/6-Mecp2<sup>fl/y</sup></i> Nest building	18	nesting score	Two-way ANOVA Repeated measure	Genotype Time Interaction Subjects Residual	F = 20.16 F = 27.83 F = 5.723 F = 3.391	3 2 6 60 120	< 0.0001 < 0.0001 < 0.0001 < 0.0001	4i
			Bonferroni post hoc 24 hours	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.001 > 0.05 < 0.001 < 0.001	
			Bonferroni post hoc 48 hours	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.001 > 0.05 < 0.001 < 0.001	
			Bonferroni post hoc 72 hours	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 > 0.05 > 0.05 < 0.001 < 0.001	
		nesting score	One-way ANOVA 24 hours	Genotype	F = 12.15	3, 60	< 0.0001	
			Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.001 > 0.05 < 0.001 < 0.001	
		nesting score	One-way ANOVA 48 hours	Genotype	F = 26.31	3, 60	< 0.0001	
			Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.001 > 0.05 < 0.001 < 0.001	
		nesting score	One-way ANOVA 72 hours	Genotype	F = 6.818	3, 60	0.0005	
			Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.01 > 0.05 < 0.01 < 0.01	
<i>Dlx5/6-Mecp2<sup>fl/y</sup></i> Partition test	6	interaction time (sec)	Two-way ANOVA Repeated measure	Genotype Trial Interaction Subjects Residual	F = 0.6453 F = 214.8 F = 2.714 F = 4.634	3 2 6 60 120	0.5890 < 0.0001 0.0166 < 0.0001	S9f
			Bonferroni post hoc Familiar 1st encounter	WT vs. Cre WT vs. Flox WT vs. CKO			> 0.05 > 0.05 > 0.05	

			Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 > 0.05		
		Bonferroni post hoc Novel	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 > 0.05 > 0.05 > 0.05 > 0.05		
		Bonferroni post hoc Familiar 2nd encounter	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 > 0.05 > 0.05 > 0.05 > 0.05		
	interaction time (sec)	One-way ANOVA 1st Familiar Tukey's post hoc	Genotype	F = 2.997	3, 60	0.0376		
			WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 > 0.05 > 0.05 > 0.05 < 0.05		
	interaction time (sec)	One-way ANOVA Novel Tukey's post hoc	Genotype	F = 0.8340	3, 60	0.4807		
			no post tests p > 0.05					
	interaction time (sec)	One-way ANOVA 2nd Familiar Tukey's post hoc	Genotype	F = 0.1745	3, 60	0.9133		
			no post tests p > 0.05					
18	interaction time (sec)	Two-way ANOVA Repeated measure	Genotype Trial Interaction Subjects Residual	F = 11.62 F = 232.5 F = 3.787 F = 3.787	3 2 6 60 120	< 0.0001 < 0.0001 0.0017 < 0.0001	4j	
		Bonferroni post hoc Familiar 1st encounter	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 > 0.05 > 0.05 > 0.05 > 0.05		
		Bonferroni post hoc Novel	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.001 > 0.05 < 0.001 < 0.05		
		Bonferroni post hoc Familiar 2nd encounter	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.05 > 0.05 < 0.05 > 0.05		
	interaction time (sec)	One-way ANOVA 1st Familiar Tukey's post hoc	Genotype	F = 5.20	3, 60	0.0029		
			WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.05 > 0.05 < 0.01 > 0.05		
	interaction time (sec)	One-way ANOVA Novel Tukey's post hoc	Genotype	F = 15.33	3, 60	< 0.0001		
			WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 < 0.05 < 0.001 > 0.05 < 0.001 < 0.05		
	interaction time (sec)	One-way ANOVA 2nd Familiar Tukey's post hoc	Genotype	F = 5.536	3, 60	0.002		
			WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.01 > 0.05 < 0.05 > 0.05		
<i>Dlx5/6-Mecp2<sup>-fl/y</sup></i> 3-Chamber Habituation phase	30	total time in left chamber (sec)	One-way ANOVA Tukey's post hoc	Genotype	F = 0.2489	3, 28	0.8614	S9g
			no post tests p > 0.05					
		total time in center chamber (sec)	One-way ANOVA Tukey's post hoc	Genotype	F = 1.440	3, 28	0.2521	S9q
			no post tests p > 0.05					
		total time in right chamber (sec)	One-way ANOVA Tukey's post hoc	Genotype	F = 0.5298	3, 28	0.6655	S9q
			no post tests p > 0.05					
		interaction time inanimate left cage (sec)	One-way ANOVA Tukey's post hoc	Genotype	F = 1.148	3, 28	0.3468	S9h
			no post tests p > 0.05					
		interaction time inanimate right cage (sec)	One-way ANOVA Tukey's post hoc	Genotype	F = 1.384	3, 28	0.2682	S9h
			no post tests p > 0.05					

<i>Dlx5/6-Mecp2<sup>+/y</sup></i> 3-Chamber Social phase	30	total time in chamber with inanimate empty cage (sec)	One-way ANOVA	Genotype	F = 2.161	3, 28	0.1150	S9i	
			Tukey's post hoc	no post tests $p > 0.05$					
		total time in center chamber (sec)	One-way ANOVA	Genotype	F = 0.7285	3, 28	0.5436	S9i	
			Tukey's post hoc	no post tests $p > 0.05$					
		total time in chamber with stranger mouse (sec)	One-way ANOVA	Genotype	F = 1.841	3, 28	0.1626	S9i	
		Tukey's post hoc	no post tests $p > 0.05$						
		interaction time with inanimate empty cage (sec)	One-way ANOVA	Genotype	F = 0.4299	3, 28	0.7332	4k	
			Tukey's post hoc	no post tests $p > 0.05$					
		interaction time with stranger mouse(sec)	One-way ANOVA	Genotype	F = 9.229	3, 28	0.0002	4k	
			Tukey's post hoc	WT vs. Cre			> 0.05		
				WT vs. Flox			> 0.05		
				WT vs. CKO			< 0.05		
				Cre vs. Flox			> 0.05		
				Cre vs. CKO			< 0.001		
				Flox vs. CKO			< 0.01		
<i>Dlx5/6-Mecp2<sup>+/y</sup></i> Resident-intruder	32	total aggressive behavior time (sec)	One-way ANOVA	Genotype	F = 0.9589	3, 28	0.4258	4l	
			Tukey's post hoc	no post tests $p > 0.05$					
<i>Dlx5/6-Mecp2<sup>+/y</sup></i> Prepulse inhibition (PPI)	7	maximum response to 120 dB (A.U.)	One-way ANOVA	Genotype	F = 26.12	3, 60	< 0.0001	4m	
			Tukey's post hoc	WT vs. Cre			> 0.05		
				WT vs. Flox			< 0.05		
				WT vs. CKO			< 0.001		
				Cre vs. Flox			< 0.01		
				Cre vs. CKO			< 0.001		
				Flox vs. CKO			< 0.001		
			% prepulse inhibition	Two-way ANOVA	Genotype	F = 1.473	3	0.2235	4n
					Prepulse level	F = 40.15	2	< 0.0001	
					Interaction	F = 0.3914	6	0.8839	
					Residual		180		
				Bonferroni post hoc 74 (+4) dB	WT vs. Cre			> 0.05	
					WT vs. Flox			> 0.05	
					WT vs. CKO			> 0.05	
					Cre vs. Flox			> 0.05	
			Cre vs. CKO			> 0.05			
			Flox vs. CKO			> 0.05			
		Bonferroni post hoc 78 (+8) dB	WT vs. Cre			> 0.05			
			WT vs. Flox			> 0.05			
			WT vs. CKO			> 0.05			
			Cre vs. Flox			> 0.05			
			Cre vs. CKO			> 0.05			
			Flox vs. CKO			> 0.05			
		Bonferroni post hoc 82 (+12) dB	WT vs. Cre			> 0.05			
			WT vs. Flox			> 0.05			
			WT vs. CKO			> 0.05			
			Cre vs. Flox			> 0.05			
			Cre vs. CKO			> 0.05			
			Flox vs. CKO			> 0.05			
		% prepulse inhibition 74 (+4) dB	One-way ANOVA	Genotype	F = 0.1384	3, 60	0.9366		
			Tukey's post hoc	no post tests $p > 0.05$					
		% prepulse inhibition 78 (+8) dB	One-way ANOVA	Genotype	F = 0.3024	3, 60	0.8235		
			Tukey's post hoc	no post tests $p > 0.05$					
		% prepulse inhibition 82 (+12) dB	One-way ANOVA	Genotype	F = 1.842	3, 60	0.1493		
			Tukey's post hoc	no post tests $p > 0.05$					
	24	maximum response to 120 dB (A.U.)	One-way ANOVA	Genotype	F = 10.68	3, 60	< 0.0001	S9j	
			Tukey's post hoc	WT vs. Cre			> 0.05		
				WT vs. Flox			< 0.001		
				WT vs. CKO			< 0.001		
				Cre vs. Flox			< 0.01		
				Cre vs. CKO			< 0.05		
				Flox vs. CKO			> 0.05		
			% prepulse inhibition	Two-way ANOVA	Genotype	F = 28.90	3	< 0.0001	S9k
					Prepulse level	F = 185.1	2	< 0.0001	
					Interaction	F = 1.837	6	0.0942	
					Residual		180		
				Bonferroni post hoc 74 (+4) dB	WT vs. Cre			< 0.01	
					WT vs. Flox			> 0.05	
					WT vs. CKO			< 0.001	
					Cre vs. Flox			> 0.05	
			Cre vs. CKO			< 0.001			
			Flox vs. CKO			< 0.001			
		Bonferroni post hoc 78 (+8) dB	WT vs. Cre			> 0.05			
			WT vs. Flox			< 0.01			
			WT vs. CKO			< 0.001			
			Cre vs. Flox			> 0.05			
			Cre vs. CKO			< 0.05			
			Flox vs. CKO			> 0.05			
		Bonferroni post hoc 82 (+12) dB	WT vs. Cre			> 0.05			
			WT vs. Flox			< 0.001			
			WT vs. CKO			< 0.001			
			Cre vs. Flox			> 0.05			
			Cre vs. CKO			> 0.05			
			Flox vs. CKO			> 0.05			

		% prepulse inhibition	One-way ANOVA 74 (+4) dB Tukey's post hoc	Genotype	F = 10.56	3, 60	< 0.0001 > 0.05 > 0.05 < 0.001 > 0.05 < 0.05 < 0.01				
		% prepulse inhibition	One-way ANOVA 78 (+8) dB Tukey's post hoc	Genotype	F = 8.131	3, 60	0.0001 > 0.05 < 0.05 < 0.001 > 0.05 < 0.05 > 0.05				
		% prepulse inhibition	One-way ANOVA 82 (+12) dB Tukey's post hoc	Genotype	F = 19.02	3, 60	< 0.0001 < 0.01 < 0.001 < 0.001 < 0.05 < 0.01 > 0.05				
<i>Dlx5/6-Mecp2<sup>+/y</sup></i> Light-dark	5	time in light side (sec)	One-way ANOVA	Genotype	F = 5.242	3, 60	0.0028	S10a			
			Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 < 0.05 > 0.05 < 0.01 > 0.05				
		number of entries into light side	One-way ANOVA	Genotype	F = 3.930	3, 60	0.0126	S10b			
			Tukey's post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 > 0.05 < 0.05 < 0.05 > 0.05				
	14	time in light side (sec)	One-way ANOVA	Genotype	F = 0.9938	3, 60	0.4020	S10c			
		number of entries into light side	One-way ANOVA	Genotype	F = 2.161	3, 60	0.1020	S10d			
				no post tests $p > 0.05$							
<i>Dlx5/6-Mecp2<sup>+/y</sup></i> Open field assay	5	center distance (cm)	One-way ANOVA	Genotype	F = 1.614	3, 60	0.1956	S10e			
		ratio center to total distance	One-way ANOVA	Genotype	F = 1.862	3, 60	0.1457	S10f			
	16	center distance (cm)	One-way ANOVA	Genotype	F = 2.421	3, 60	0.0747	S10g			
		ratio center to total distance	One-way ANOVA	Genotype	F = 2.490	3, 60	0.0689	S10h			
					no post tests $p > 0.05$						
	<i>Dlx5/6-Mecp2<sup>+/y</sup></i> Olfactory recognition	11	sniffing time (s)	Two-way ANOVA	Genotype	F = 1.434	3	0.2418	S7c		
Repeated measure				Trial	F = 93.80	2	< 0.0001				
				Interaction	F = 0.9710	6	0.4479				
				Subjects	F = 1.782	60	0.0038				
			Residual			120					
		Bonferroni post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO				> 0.05 > 0.05 > 0.05 > 0.05 > 0.05 > 0.05				
		Bonferroni post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO				> 0.05 > 0.05 > 0.05 > 0.05 > 0.05 > 0.05				
		Bonferroni post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO				> 0.05 > 0.05 > 0.05 > 0.05 > 0.05 > 0.05				
		Bonferroni post hoc	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO				> 0.05 > 0.05 > 0.05 > 0.05 > 0.05 > 0.05				
		sniffing time (s)	One-way ANOVA	Genotype	F = 0.1940	3, 60	0.9001				
				no post tests $p > 0.05$							
	sniffing time (s)	One-way ANOVA	Genotype	F = 1.176	3, 60	0.3263					
				no post tests $p > 0.05$							
	sniffing time (s)	One-way ANOVA	Genotype	F = 1.859	3, 60	0.1462					
				no post tests $p > 0.05$							
<i>Dlx5/6-Mecp2<sup>+/y</sup></i> Olfactory habituation	11	sniffing time (s)	Two-way ANOVA	Genotype	F = 1.179	3	0.3252	S7d			
			Repeated measure	Trial	F = 90.92	1	< 0.0001				
				Interaction		F = 1.006		3		0.3965	
				Subjects		F = 1.122		60		0.3289	
				Residual				60			
				Bonferroni post hoc		WT vs. Cre				> 0.05	

		Day 1	WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 > 0.05 > 0.05 > 0.05
		Bonferroni post hoc Day 2	WT vs. Cre WT vs. Flox WT vs. CKO Cre vs. Flox Cre vs. CKO Flox vs. CKO			> 0.05 > 0.05 > 0.05 > 0.05 > 0.05 > 0.05
	sniffing time (s)	One-way ANOVA Day 1	Genotype	F = 1.176	3, 60	0.3263
		Tukey's post hoc	no post tests p > 0.05			
	sniffing time (s)	One-way ANOVA Day 2	Genotype	F = 0.07456	3, 60	0.9734
		Tukey's post hoc	no post tests p > 0.05			