

TMT	Experiment	Ubqln2	Tissue	Age (months)	Sex	MS Run ID	MS Instrument
1	KO Old Brain	KO	Brain	12-16	Male	m07953-62	Obitrap Fusion
2	KO Young Brain	KO	Brain	5-6	Male	a01805-16	Obitrap Lumos
3	KO Lumb SpC	KO	Lumbar Spinal Cord	5-6	Male	a01833-44	Obitrap Lumos
4	KO Hippo	KO	Hippocampus	4-4.5	Male	m11795-806	Obitrap Fusion
5	KI Hippo	KI	Hippocampus	4-5	Male	m09995-10006	Obitrap Fusion
6	KI SpC	KI	Spinal Cord	4-5	Male	m10008-19	Obitrap Fusion
7	Tg Hippo	WT-hTg and Mut-hTg	Hippocampus	2	8M 1F	m14899-10	Obitrap Fusion
8	Tg Lumb SpC	WT-hTg and Mut-hTg	Lumbar Spinal Cord	2	8M 1F	m14925-36	Obitrap Fusion

TMT_1: *Ubqln2* KO Old Brain:

TMT label	Animal ID	Sample	Sex	Neuromotor testing age (days)	Neuromotor testing weight (g)	Tissue harvest age (days)	<i>Ubqln2</i>
126	5114-461	WT_1	M	314	31.5	365	wt/y
127N	5114-460	WT_2	M	314	37	365	wt/y
127C	5114-463	WT_3	M	314	37.4	365	wt/y
128N	5114-394	WT_4	M	448	33.4	497	wt/y
128C	5114-395	WT_5	M	448	32.4	497	wt/y
129N	5114-449	KO_1	M	321	35.1	370	ko/y
129C	5114-445	KO_2	M	321	37.5	370	ko/y
130N	5114-446	KO_3	M	321	32.6	370	ko/y
130C	5114-385	KO_4	M	448	31.3	497	ko/y
131	5114-388	KO_5	M	448	31	497	ko/y

TMT_2_and_3: *Ubqln2* KO Young (Brain and Lumbar Spinal Cord):

TMT label	Animal ID	Sample	Sex	Neuromotor testing age (days)	Neuromotor testing weight (g)	Tissue harvest age (days)	<i>Ubqln2</i>
126	5114-728	WT_1	M	137	28	143	wt/y
127N	5114-738	WT_2	M	137	30.5	143	wt/y
127C	5114-741	WT_3	M	137	29.8	143	wt/y
128N	5114-743	WT_4	M	137	31.3	143	wt/y
128C	5114-712	KO_1	M	170	26.6	176	ko/y
129N	5114-718	KO_2	M	165	26	171	ko/y
129C	5114-731	KO_3	M	137	31.5	143	ko/y
130N	5114-732	KO_4	M	137	27.9	143	ko/y
130C	5114-737	KO_5	M	137	30.1	143	ko/y
131	5114-742	KO_6	M	137	31.8	143	ko/y

TMT_4: *Ubqln2* KO Hippocampus:

TMT Label	Animal ID	Sample	Sex	Age (days)	<i>Ubqln2</i>	Hippocampus
126	5114-919	WT_1	M	106	wt/y	Right
127N	5114-918	WT_2	M	106	wt/y	Right
127C	5114-877	WT_3	M	131	wt/y	Right
128N	5114-922	KO_1	M	106	ko/y	Right
128C	5114-920	KO_2	M	106	ko/y	Right
129N	5114-919	WT_1	M	106	wt/y	Left
129C	5114-918	WT_2	M	106	wt/y	Left
130N	5114-922	KO_1	M	106	ko/y	Left
130C	5114-920	KO_2	M	106	ko/y	Left
131	5114-878	KO_3	M	131	ko/y	Left

TMT_5: *Ubqln2* KI Hippocampus:

TMT Label	Animal ID	Sample	Sex	Age (days)	<i>Ubqln2</i>	Hippocampus
126	289067	WT_1	M	132	wt	Left
127N	292049	WT_2	M	112	wt	Left
127C	289790	WT_3	M	121	wt	Left
128N	290262	KI_1	M	114	P520T	Left
128C	290260	KI_2	M	114	P520T	Left
129N	289067	WT_4	M	132	wt	Right
129C	292049	WT_5	M	112	wt	Right
130N	289790	WT_6	M	121	wt	Right
130C	290262	KI_3	M	114	P520T	Right
131	290260	KI_4	M	114	P520T	Right

TMT_6: *Ubqln2* KI Spinal Cord:

TMT Label	Animal ID	Sample	Sex	Age (days)	<i>Ubqln2</i>	Spinal Cord
126	289067	WT_1	M	132	wt	Lumbar
127N	292049	WT_2	M	112	wt	Lumbar
127C	289790	WT_3	M	121	wt	Lumbar
128N	290262	KI_1	M	114	P520T	Lumbar
128C	290260	KI_2	M	114	P520T	Lumbar
129N	289067	WT_4	M	132	wt	Cervical
129C	292049	WT_5	M	112	wt	Cervical
130N	289790	WT_6	M	121	wt	Cervical
130C	290262	KI_3	M	114	P520T	Cervical
131	290260	KI_4	M	114	P520T	Cervical

TMT_7_and_8: *Ubqln2* hTg (Hippocampus and Lumbar Spinal Cord):

TMT label	Animal ID	Sample	Sex	Age (days)	<i>Ubqln2</i>
126	1194	WT_Tg_1	M	60	WT_hTg
127N	1197	WT_Tg_2	M	60	WT_hTg
127C	1191	WT_Tg_3	F	60	WT_hTg
128N	1178	Mut_Tg_1	M	63	P497S_hTg
128C	1182	Mut_Tg_2	M	63	P497S_hTg
129N	1183	Mut_Tg_3	M	63	P497S_hTg
129C	1179	WT_1	M	63	WT
130N	1180	WT_2	M	63	WT
130C	1181	WT_3	M	63	WT