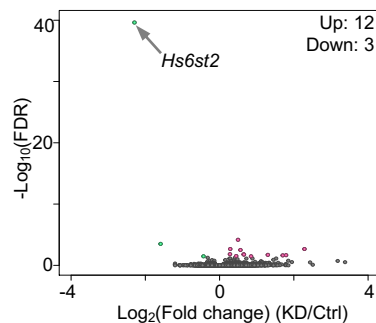


A

		Total read pairs	Uniquely mapped read pairs	Mapping percentage
Cerebral Cortex	WT replicate 1	28,102,665	24,318,003	86.53%
	WT replicate 2	27,102,919	24,154,095	89.12%
	WT replicate 3	32,585,954	29,405,609	90.24%
	WT replicate 4	23,894,007	21,564,796	90.25%
	KO replicate 1	24,242,859	21,094,974	87.02%
	KO replicate 2	22,746,125	20,286,938	89.19%
	KO replicate 3	23,093,721	21,058,733	91.19%
	Hippocampus	WT replicate 1	31,441,920	28,075,316
WT replicate 2		25,410,893	22,790,990	89.69%
WT replicate 3		33,556,029	30,038,272	89.52%
WT replicate 4		31,606,315	28,258,328	89.41%
KO replicate 1		33,575,705	29,892,918	89.03%
KO replicate 2		36,942,357	32,913,726	89.09%
KO replicate 3		50,485,261	44,736,419	88.61%
KO replicate 4		31,343,042	27,833,110	88.80%

B**C**

Symbol	Log2FC	FDR
Hs6st2	-2.29	2.36E-40
Slc5a3	0.49	6.77E-05
Gm22486	-1.58	0.00031366
Hspa5	0.28	0.00215617
Ciita	2.28	0.00215617
Dnajb1	0.56	0.00309162
Dnaja1	0.27	0.014895
Serpinh1	0.64	0.0160723
Fos	0.65	0.01694837
Parp14	1.30	0.0194798
H2-Q6	1.79	0.02166806
Hspa1b	1.70	0.02358706
Jun	0.44	0.03001848
Adora2a	0.84	0.03336295
Fam214a	-0.43	0.03336295

Supplementary Figure S5. RNA-seq results of *Hs6st2* KO mice. **(A)** Statistics of sequencing and mapping. **(B)** The volcano plot of the cerebral cortex RNA-seq data. **(C)** The differentially expressed genes in the cerebral cortex of *Hs6st2* KO mice.