Table 1: Fifty genes whose expression levels were most strongly negatively correlated with the expression of *COMT* by brain area

Rank	Prefrontal	Cerebellum	Temporal	Pons
1	*UBP1*	*ARHGEF12*	*PSMC1*	*PRELID1*
2	*CADPS2*	*TMEM106C*	*CADPS2*	*EEF2K*
3	*NKRF*	*CNST*	*CCNB1*	*CAMSAP2*
4	*UBE3A*	*SNAP91*	*AGBL1*	*AAGAB*
5	*CCDC28A*	*CDS1*	*CYP4X1*	*ARHGEF12*
6	*RUSC1*	*GLE1*	*RAD1*	*FLOT2*
7	*CAMSAP1L1*	*MAP1B*	*RFC2*	*RARS*
8	*ABCA5*	*RUNDC3B*	*CCDC25*	*GPC5*
9	*GRSF1*	*RGS17*	*TRAF5*	*RAB11FIP5*
10	*ELOVL4*	*CELSR3*	*TMEM70*	*PRPF19*
11	*RAB11FIP5*	*RUSC1*	*INPP5A*	*HARS*
12	*RAB3GAP1*	*TTC19*	*IRX5*	*ARHGAP44*
13	*SCAMP1*	*CAMSAP2*	*SLC30A9*	*DNAJC5*
14	*LZTFL1*	*MSS51*	*RARS*	*BCAP31*
15	*SH3BGRL2*	*RNF150*	*HNRNPU*	*SRPRB*

Table 1: *(Top 50 negatively correlated genes continued)*

Rank	Prefrontal	Cerebellum	Temporal	Pons
16	WDR69	PRKCE	PDE1A	CPEB3
17	KPNA4	SYT4	ZNF622	CDS1
18	RARS	SUZ12	SUPT16H	LUZP1
19	GABARAPL1	GFOD1	MPP3	NETO2
20	GPIAP1	FAM117B	TTC21B	ARPC5L
21	DENR	RIMKLB	CDKN3	AMER1
22	SDAD1	SERBP1	CAMSAP2	UBP1
23	PPP2CA	MYCBP2	ARL15	B4GALNT1
24	OPTN	CPEB3	UBP1	YAF2
25	DNAJA2	ZYG11B	RAD9B	ELOVL4
26	SH3GL2	ZNF398	DMAC1	ST3GAL3
27	PJA2	SCN2A	ABCA5	RALBP1
28	MYCBP2	ZNF540	FAM13B	AUNIP
29	NEFM	BSN	RUSC1	PRKCE
30	MGC35154	LIN9	BEST4	KIAA0319
31	CCNB1	EDC4	CUL3	RUNDC3B

Table 1: *(Top 50 negatively correlated genes continued)*

Rank	Prefrontal	Cerebellum	Temporal	Pons
32	*NME5*	*RARS*	*USP15*	*PDXK*
33	*SMARCA2*	*NRIP3*	*LRCH1*	*INSM2*
34	*KIF21A*	*P3H3*	*LMO7*	*OPRL1*
35	*SPATA18*	*MMS19*	*CASC1*	*SUPV3L1*
36	*PSMC1*	*GPR135*	*SH3GL2*	*KIAA1217*
37	*MATR3*	*PLEKHA5*	*PLA2R1*	*TMEM74B*
38	*PREPL*	*SPIRE1*	*SHH*	*MTFP1*
39	*SEL1L*	*DENND1B*	*TLK1*	*FBXW7*
40	*VPS36*	*CNOT6*	*TCEAL4*	*CAPZA2*

Table 1: *(Top 50 negatively correlated genes continued)*

Rank	Prefrontal	Cerebellum	Temporal	Pons
41	*MCF2*	*WDFY1*	*HSF2*	*PSMC1*
42	*SAE1*	*CHD9*	*RET*	*CLASP1*
43	*HSF2*	*KDM2B*	*EIF2B3*	*TTC19*
44	*SNAP91*	*SNAPC4*	*UBE2D2*	*CNOT4*
45	*SYT4*	*STK36*	*POLR3C*	*C6orf106*
46	*C14ORF169*	*PHKA2*	*PDS5B*	*KIAA0100*
47	*ARHGEF3*	*CDK13*	*CHSY3*	*POLR3A*
48	*CADPS*	*ARPP21*	*WSCD2*	*PLCB1*
49	*PRR23B*	*SETDB2*	*GFM1*	*EMC9*
50	*IFITM5*	*FAM13A*	*CALB1*	*FBXO31*