Supplementary Table S6: Increased expression of genes regulating synaptic signal transduction in the cancerous prostate of nicotine-treated TRAMP mice

SAM-based analysis comparing gene expression in the cancerous prostate of nicotine-treated versus untreated animals (reference group)

Gene Name	Gene ID	Gene Name	Fold Change	FDR or q-value(%)
amphiphysin	10403796	Amph	2.605910617	10.5
ankyrin repeat and sterile alpha motif domain containing 1B	10365682	Anks1b	2.223828912	11.6
bassoon	10596880	Bsn	1.621655534	9.3
cerebellin 1 precursor protein; similar to precerebellin-1	10580469	Cbln1	1.896906804	14.1
cholinergic receptor, nicotinic, alpha polypeptide 4	10490559	Chrna4	1.710195671	18.7
cholinergic receptor, nicotinic, beta polypeptide 2 (neuronal)	10499643	Chrnb2	2.151887416	8.9
cytoplasmic FMR1 interacting protein 2	10385391	Cyfip2	1.849650381	15.2
Fas apoptotic inhibitory molecule 2	10432492	Faim2	1.698617007	11.3
gamma-aminobutyric acid (GABA) B receptor, 2; similar to ortholog of human G protein-coupled receptor 51 GPR51	10512807	Gabbr2	1.553464421	20.6
gamma-aminobutyric acid (GABA) A receptor, subunit alpha 2; similar to Gamma-aminobutyric-acid receptor subunit alpha-2 precursor (GABA(A) receptor subunit alpha-2)	10530406	Gabra2	1.501235592	25
gamma-aminobutyric acid (GABA) A receptor, subunit beta 1	10522324	Gabrb1	1.729684369	11.6
gamma-aminobutyric acid (GABA) A receptor, subunit beta 3	10553773	Gabrb3	3.07055831	10.9
gamma-aminobutyric acid (GABA) A receptor, subunit gamma 2	10385283	Gabrg2	1.736988738	14.1
gamma-aminobutyric acid (GABA) A receptor, subunit theta	10600069	Gabrq	1.60251671	16.3
growth associated protein 43	10439514	Gap43	1.702087731	18.7
glycine receptor, alpha 2 subunit	10607792	Glra2	1.97611321	25
glycine receptor, beta subunit	10498907	Glrb	1.55357598	20.6
G protein-coupled receptor 156	10435661	Gpr156	1.5288707	14.1
glutamate receptor, ionotropic, AMPA2 (alpha 2)	10498885	Gria2	2.476505114	15.2
glutamate receptor, ionotropic, AMPA4 (alpha 4); hypothetical protein LOC100044208	10590663	Gria4	2.213330969	15.2
glutamate receptor, ionotropic, delta 1	10414137	Grid1	1.541426822	17.4
glutamate receptor, ionotropic, kainate 2 (beta 2)	10368999	Grik2	2.441053983	15.2
glutamate receptor ionotropic, NMDA3A	10512919	Grin3a	1.626067786	22.3
leucine-rich repeat LGI family, member 1; predicted gene 3888	10462912	Lgi1	1.841380534	15.2
membrane associated guanylate kinase, WW and PDZ domain containing 2	10519913	Magi2	1.784087285	10.9
neuroligin 1	10497505	Nlgn1	1.703579412	25
piccolo (presynaptic cytomatrix protein); hypothetical protein LOC100044163	10519770	Pclo	1.974999927	10.9
RIMS binding protein 2	10534021	Rimbp2	1.92373543	11.6
regulating synaptic membrane exocytosis 2	10423855	Rims2	1.68542847	17.4
secretory carrier membrane protein 5	10593927	Scamp5	1.754386967	14.1
septin 3	10425726	SEPT3	2.080400659	15.2
synaptosomal-associated protein 25	10476512	Snap25	1.96892342	15.2
synaptic vesicle glycoprotein 2 a	10494372	Sv2a	2.282395172	11.3
synaptic vesicle glycoprotein 2 b	10564646	Sv2b	2.43014534	11.3
SV2 related protein	10532784	Svop	1.583684553	14.1
synapsin I	10603843	Syn1	2.192080531	10.9
synapsin II	10540880	Syn2	2.577647527	10.5
synaptogyrin 1	10425335	Syngr1	1.637383883	11.3
synaptophysin	10598359	Syp	2.060606172	11.3
synaptotagmin I	10372324	Syt1	3.69464769	11.3
synaptotagmin XI; similar to synaptotagmin XI	10499431	Syt11	1.966051073	15.2
synaptotagmin II	10350077	Syt2	1.76861717	8.4
synaptotagmin V	10559580	Syt5	2.058930597	10.9
synaptotagmin IX	10556067	Syt9	2.073449629	10.9
unc-13 homolog A (C. elegans)	10579554	Unc13a	2.01193626	10.7