

Tissue expression pattern for human *TRPC3* is shown graphically (A). Values (log₂) are indicated for one probe set (B). Expression in the cerebellum is highlighted. Known transcript isoforms of human *TRPC3* are shown (C). The canonical transcript is indicated. Transcripts targeted by individual probe sets in A & B are shown (D).

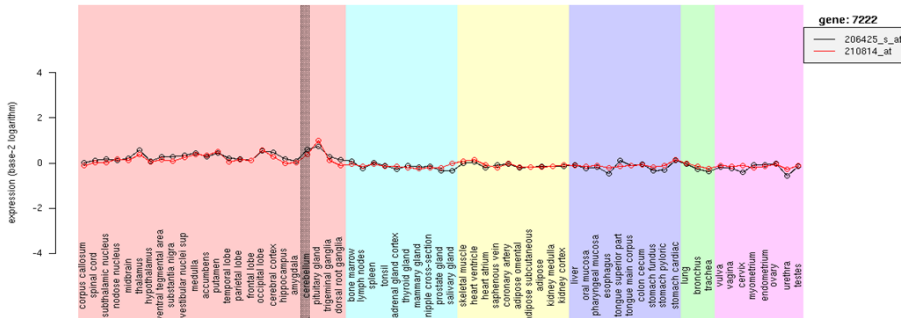
Data in A and B were obtained from COXPRESdb (<http://coxpresdb.jp/>).

Reference: Obayashi T, Okamura Y, Ito S, Tadaka S, Motoike IN, Kinoshita K. (2013) COXPRESdb: a database of comparative gene coexpression networks of eleven species for mammals. *Nucleic Acids Res.* 41, D1014-20.

Data in C and D were obtained from Ensembl (<http://www.ensembl.org/>).

Reference: Flicek P, Amodè MR, Barrell D, Beal K, Billis K, et al. Ensembl 2014 *Nucleic Acids Research* 2014 42 Database issue:D749-D755

A.



B.

Species	Hsa
Symbol*	TRPC3
Entrez Gene ID	7222
Affy probe ID	210814_at
pituitary gland	0.9843
occipital lobe	0.5648
putamen	0.5044
cerebellum	0.3858
thalamus	0.3787
medulla	0.3715
accumbens	0.34
cerebral cortex	0.2842
vestibular nuclei sup	0.252
nodose nucleus	0.1737
ventral tegmental area	0.1614
parietal lobe	0.1608
stomach cardiac	0.1534
heart ventricle	0.1501
trigeminal ganglia	0.1308
frontal lobe	0.1279
midbrain	0.1241
substantia nigra	0.0867
skeletal muscle	0.0864
temporal lobe	0.0585
hypothalamus	0.0554
amygdala	0.0213
subthalamic nucleus	0.0168
spinal cord	0.0117
hippocampus	-0.005
lung	-0.0145
salivary gland	-0.0247
coronary artery	-0.0312
spleen	-0.037
bone marrow	-0.0515
ovary	-0.0654
colon cecum	-0.0923
heart atrium	-0.0942
kidney cortex	-0.095
vulva	-0.0996
tongue main corpus	-0.1036
dorsal root ganglia	-0.104
corpus callosum	-0.1084
pharyngeal mucosa	-0.1113
cervix	-0.1157
liver	-0.1168
testes	-0.1267
stomach pyloric	-0.1271
lymph nodes	-0.1353
bronchus	-0.1355
tongue superior part	-0.1359
adrenal gland cortex	-0.1413
kidney medulla	-0.1415
tonsil	-0.1433
oral mucosa	-0.1515
vagina	-0.1586
endometrium	-0.1605
stomach fundus	-0.1638
adipose subcutaneous	-0.1712
adipose omental	-0.1725
adipose	-0.1944
thyroid gland	-0.2047
nipple cross-section	-0.2068
prostate gland	-0.2102
myometrium	-0.2184
saphenous vein	-0.2203
esophagus	-0.2283
trachea	-0.2413
mammary gland	-0.2418
urethra	-0.2826

C.

Transcript	TRPC3-001	TRPC3-002	TRPC3-003	TRPC3-004	TRPC3-005
Ensembl Gene ID	ENSG00000138741	ENSG00000138741	ENSG00000138741	ENSG00000138741	ENSG00000138741
Ensembl Transcript ID	ENST00000264811	ENST00000379645	ENST00000502968	ENST00000506449	ENST00000513531
Length (bp)	3675	3548	619	2700	2382
Protein ID	ENSP00000264811	ENSP00000368966	ENSP00000422214	ENSP00000423866	ENSP00000426899
Length (aa)	848	921	93	276	793
Biotype	Protein coding	Protein coding	Protein coding	Nonsense mediated	Protein coding
Exon Chr Start (bp)		122872621	122871694		
Exon Chr End (bp)		122872909	122872029		
Exon Chr Start (bp)	122853426	122853426	122853915	122853426	122853426
Exon Chr End (bp)	122854612	122854197	122854197	122854268	122854193
Exon Chr Start (bp)				122851926	
Exon Chr End (bp)				122851983	
Exon Chr Start (bp)	122846173	122846173		122846173	122846173
Exon Chr End (bp)	122846361	122846361		122846361	122846361
Exon Chr Start (bp)	122835935	122835935		122835935	122835935
Exon Chr End (bp)	122836099	122836099		122836099	122836099
Exon Chr Start (bp)	122833032	122833032		122833032	122833032
Exon Chr End (bp)	122833248	122833248		122833248	122833248
Exon Chr Start (bp)	122831309	122831309		122831309	122831309
Exon Chr End (bp)	122831542	122831542		122831542	122831542
Exon Chr Start (bp)	122828458	122828458		122828458	122828458
Exon Chr End (bp)	122828722	122828722		122828722	122828722
Exon Chr Start (bp)	122825477	122825477		122825477	122825477
Exon Chr End (bp)	122825672	122825672		122825672	122825672
Exon Chr Start (bp)	122824007	122824007		122824007	122824007
Exon Chr End (bp)	122824216	122824216		122824216	122824216
Exon Chr Start (bp)	122820767	122820767		122820767	122820767
Exon Chr End (bp)	122820850	122820850		122820850	122820850
Exon Chr Start (bp)	122803509	122803509		122803509	122803509
Exon Chr End (bp)	122803584	122803584		122803584	122803584
Exon Chr Start (bp)	122800182	122800183		122800871	122800891
Exon Chr End (bp)	122801033	122801033		122801033	122801033

D.

206425_s_at Probe set		
TRPC3 Transcripts Represented: TRPC3-001, TRPC3-002, TRPC3-004, TRPC3-005		
Genomic location (strand)	Length	Ensembl ID
4:122800523-122800547(-)	25	HG-Focus:206425_s_at:105:395; HG-U133A:206425_s_at:494:625; HG-U133A_2:206425_s_at:373:605; HG-U133_Plus_2:206425_s_at:1093:1009;
4:122800573-122800597(-)	25	HG-Focus:206425_s_at:340:187; HG-U133A:206425_s_at:673:295; HG-U133A_2:206425_s_at:621:285; HG-U133_Plus_2:206425_s_at:642:479;
4:122800582-122800606(-)	25	HG-Focus:206425_s_at:169:407; HG-U133A:206425_s_at:552:653; HG-U133A_2:206425_s_at:284:635; HG-U133_Plus_2:206425_s_at:544:1059;
4:122800604-122800628(-)	25	HG-Focus:206425_s_at:71:39; HG-U133A:206425_s_at:256:57; HG-U133A_2:206425_s_at:706:55; HG-U133_Plus_2:206425_s_at:537:99;
4:122800682-122800706(-)	25	HG-Focus:206425_s_at:99:203; HG-U133A:206425_s_at:187:319; HG-U133A_2:206425_s_at:264:309; HG-U133_Plus_2:206425_s_at:6:513;
4:122800768-122800792(-)	25	HG-Focus:206425_s_at:39:429; HG-U133A:206425_s_at:160:691; HG-U133A_2:206425_s_at:498:669; HG-U133_Plus_2:206425_s_at:403:1123;
4:122800855-122800879(-)	25	HG-Focus:206425_s_at:367:325; HG-U133A:206425_s_at:14:515; HG-U133A_2:206425_s_at:298:499; HG-U133_Plus_2:206425_s_at:228:637;
4:122800868-122800892(-)	25	HG-Focus:206425_s_at:328:261; HG-U133A:206425_s_at:535:417; HG-U133A_2:206425_s_at:150:403; HG-U133_Plus_2:206425_s_at:157:673;
4:122800900-122800924(-)	25	HG-Focus:206425_s_at:408:231; HG-U133A:206425_s_at:283:365; HG-U133A_2:206425_s_at:580:353; HG-U133_Plus_2:206425_s_at:672:587;
4:122800948-122800972(-)	25	HG-Focus:206425_s_at:221:211; HG-U133A:206425_s_at:380:385; HG-U133A_2:206425_s_at:207:371; HG-U133_Plus_2:206425_s_at:383:625;
4:122800985-122801009(-)	25	HG-Focus:206425_s_at:60:133; HG-U133A:206425_s_at:508:15; HG-U133A_2:206425_s_at:8:13; HG-U133_Plus_2:206425_s_at:785:23;

210814_at Probe set		
TRPC3 Transcripts Represented: TRPC3-001, TRPC3-002		
Genomic location (strand)	Length	Ensembl ID
4:122800223-122800247(-)	25	HG-U133A:210814_at:266:651; HG-U133A_2:210814_at:529:631; HG-U133_Plus_2:210814_at:1131:1053;
4:122800276-122800300(-)	25	HG-U133A:210814_at:152:217; HG-U133A_2:210814_at:697:227; HG-U133_Plus_2:210814_at:971:393;
4:122800293-122800317(-)	25	HG-U133A:210814_at:679:575; HG-U133A_2:210814_at:50:559; HG-U133_Plus_2:210814_at:447:935;
4:122800301-122800325(-)	25	HG-U133A:210814_at:48:503; HG-U133A_2:210814_at:196:489; HG-U133_Plus_2:210814_at:720:817;
4:122800315-122800339(-)	25	HG-U133A:210814_at:556:695; HG-U133A_2:210814_at:337:673; HG-U133_Plus_2:210814_at:150:1133;
4:122800334-122800358(-)	25	HG-U133A:210814_at:319:317; HG-U133A_2:210814_at:657:307; HG-U133_Plus_2:210814_at:74:513;
4:122800349-122800373(-)	25	HG-U133A:210814_at:51:377; HG-U133A_2:210814_at:191:365; HG-U133_Plus_2:210814_at:938:607;
4:122800356-122800380(-)	25	HG-U133A:210814_at:233:135; HG-U133A_2:210814_at:475:131; HG-U133_Plus_2:210814_at:502:237;
4:122800403-122800427(-)	25	HG-U133A:210814_at:663:253; HG-U133A_2:210814_at:540:247; HG-U133_Plus_2:210814_at:434:425;
4:122800408-122800432(-)	25	HG-U133A:210814_at:215:87; HG-U133A_2:210814_at:12:87; HG-U133_Plus_2:210814_at:1120:151;
4:122800422-122800446(-)	25	HG-U133A:210814_at:150:637; HG-U133A_2:210814_at:636:617; HG-U133_Plus_2:210814_at:1120:1027;