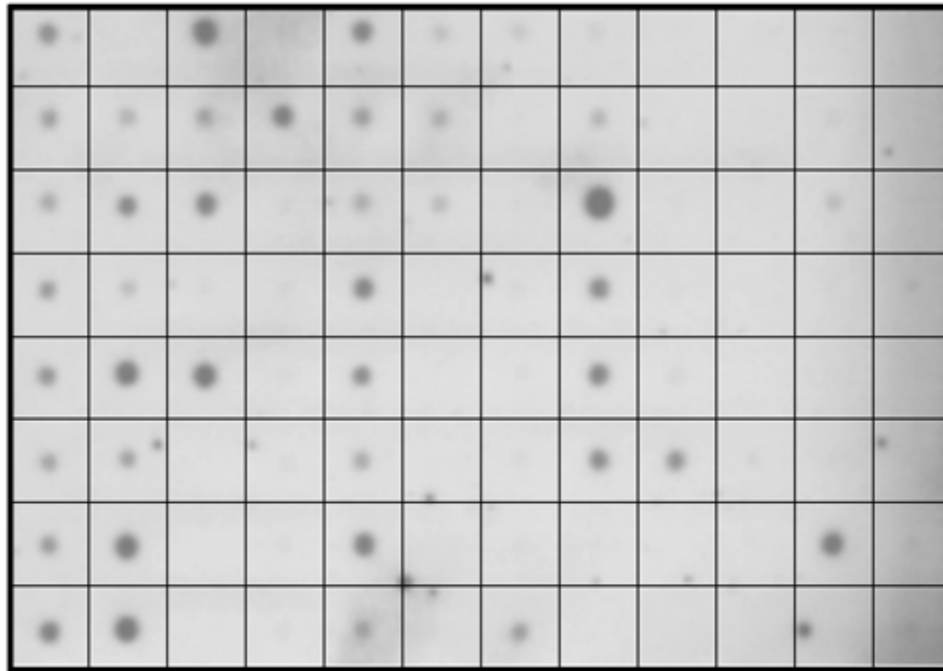


The American Journal of Human Genetics, Volume 86

Supplemental Data

Mutations in *HPSE2* Cause Urofacial Syndrome

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	1	2	3	4	5	6	7	8	9	10	11	12
A	whole brain		substantia nigra	heart	esophagus	colon, transverse	kidney	lung	liver	leukemia HL-60	fetal brain	yeast total RNA
B	cerebral cortex	cerebellum right	nucleus accumbens	aceta	stomach	colon, descending	skeletal muscle	placenta	pancreas	HeLa S3	fetal heart	yeast tRNA
C	frontal lobe	corpus callosum	thalamus	atrium, left	duodenum	rectum	spleen	bladder	adrenal gland	Leukemia K-562	fetal kidney	<i>E. Coli</i> rRNA
D	parietal lobe	amygdala	pituitary gland	atrium, right	jejunum		thymus	uterus	thyroid	Leukemia MOLT-4	fetal liver	<i>E. Coli</i> DNA
E	occipital lobe	caudate nucleus	spinal cord	ventricle, left	ileum		peripheral blood leukocyte	prostate	salivary gland	Burkitt's lymphoma Raji	fetal spleen	poly r(A)
F	temporal lobe	hippocampus		ventricle, right	ileocecum		lymph node	testis	mammary gland	Burkitt's lymphoma Daudi	fetal thymus	human C _β -1 DNA
G	Pa ^u of cerebral cortex	medulla oblongata		inter-ventricular septum	appendix		bone marrow	ovary		colorectal adeno carcinoma SW 480	fetal lung	human DNA 100ng
H	pons	putamen		apex of the heart	colon, ascending		trachea			lung carcinoma A549		human DNA 500ng

* Paracentral gyrus

Figure S1. *HPSE2* RNA Distribution Profiling by Dot Blot Analysis

The human multiple tissue RNA dot-blot indicating expression of *HPSE2* in a number of tissues, notably adult brain, bladder, uterus, prostate and testis.

Table S1. Sequence of Primers for Amplification of Exon-Intron Boundaries and Break-Point Deletion Boundaries in *HPSE2*

Fragment	Oligonucleotide	Size (bp)
Primers for PCR and Sequence Analysis		
<i>HPSE2</i> exon 1	Forward: cactagcgagaccagtagga Reverse: ggcttgagggggttacta	394
<i>HPSE2</i> exon 2	Forward: gccctcaggagtaggaaga Reverse: ctccgctccccaataaa	293
<i>HPSE2</i> exon 3	Forward: ggagttggagagccttctga Reverse: cagacagatgtgtaccccaaaa	399
<i>HPSE2</i> exon 4	Forward: agtgggaagctcatagaaagg Reverse: ttctggccagggtactaga	378
<i>HPSE2</i> exon 5	Forward: aaaggcagagagatctgtgga Reverse: gggtgaagccactatggaaa	400
<i>HPSE2</i> exon 6	Forward: tcagtttattcctttgatttaggg Reverse: ttttctggaggatgaagga	243
<i>HPSE2</i> exon 7	Forward: gcaacagagacctgggcta Reverse: tgggactttgtgtcttttcc	250
<i>HPSE2</i> exon 8	Forward: cccctgaaaacaggaaatca Reverse: gcagaataatcagcaacacca	300
<i>HPSE2</i> exon 9	Forward: ttggtgactggagattggtg Reverse: tggaaacaaggcatgatcaaa	295
<i>HPSE2</i> exon 10	Forward: agtgatttctggcccgtgt Reverse: ggtgattccagaggcaaaaa	382
<i>HPSE2</i> exon 11	Forward: tagggtctatggtggccaag Reverse: cctactccatcccactgagc	400
<i>HPSE2</i> exon 12	Forward: tgcagctgtgtgtgtatcag Reverse: ggctggttctaggatgtct	377
<i>HPSE2</i> exon 12b	Forward: ctcaccatgcttctggtt Reverse: gcacagtcaaacacgagttca	334
Primers for Exon8-9 Deletion Breakpoint Analysis		
<i>HPSE2</i> 5' exon 8	Forward: cgcccttatcaggtcacat	
<i>HPSE2</i> 3' exon 9	Reverse: gtccggcaaatgtaagcaat	

All primers amplified at an annealing temperature of 60°C