

Table S2 Up-regulated genes

Gene name	Gene description	Chr. location	Fold changes	
			Tubule	Whole testis
<i>Xist</i>	inactive X specific transcripts	X	48.5	27.9
<i>Klk16</i>	kallikrein 16	7	24.3	7.5
<i>Asb12</i>	ankyrin repeat and SOCS box-containing protein 12	X	17.1	2.5
<i>Sult1e1</i>	sulfotransferase family 1E, member 1	5	14.9	7.0
<i>Klk6</i>	kallikrein 6	7	14.9	4.0
<i>Col9a3</i>	procollagen, type IX, alpha 3	2	13.0	4.6
<i>Rhbg</i>	Rhesus blood group-associated B glycoprotein	3	12.1	3.7
<i>Klk27</i>	kallikrein 27	7	9.8	4.9
<i>Myh6</i>	myosin, heavy polypeptide 6, cardiac muscle, alpha	14	9.8	3.0
<i>D16Bwg1494e</i>	DNA segment, Chr 16, Brigham & Women's Genetics 1494 expressed	16	9.2	4.0
<i>FHOS2</i>	formin-family protein FHOS2	18	9.2	3.2
<i>Snrpn</i>	small nuclear ribonucleoprotein N	7	9.2	2.8
<i>Klk24</i>	kallikrein 24	7	8.6	7.0
<i>Cps1</i>	carbamoyl-phosphate synthetase 1	1	8.0	8.6
<i>Stom</i>	stomatin	2	8.0	2.3
<i>Klk22 III Klk9</i>	kallikrein 22 /// kallikrein 9	7	7.5	6.5
<i>Svs5</i>	seminal vesicle secretion 5	2	7.5	3.2
<i>Htatip2</i>	HIV-1 tat interactive protein 2, homolog (human)	7	7.5	2.3
<i>Glb1</i>	galactosidase, beta 1	9	7.0	2.5
<i>Klk21</i>	kallikrein 21	7	6.5	6.5
<i>Thrsp</i>	thyroid hormone responsive SPOT14 homolog (Rattus)	7	6.5	4.9
<i>Abcb1a</i>	ATP-binding cassette, sub-family B (MDR/TAP), member 1A	5	6.5	2.8
<i>RIKEN cDNA 1100001H23</i>	1100001H23Rik	6	6.5	6.5
<i>Slc39a8</i>	solute carrier family 39 (metal ion transporter), member 8	3	6.1	4.3
<i>Akr1c12</i>	aldo-keto reductase family 1, member C12	13	6.1	2.0
<i>Spp1</i>	secreted phosphoprotein 1	5	5.7	5.3
<i>Gpx7</i>	glutathione peroxidase 7	4	5.7	2.3
<i>Anxa3</i>	annexin A3	5	5.7	2.0
<i>Asb9</i>	ankyrin repeat and SOCS box-containing protein 9	--	5.3	2.5
<i>Masp1</i>	mannan-binding lectin serine peptidase 1	16	4.9	2.6
<i>Klk1</i>	kallikrein 1	7	4.6	5.7
<i>A930025J12Rik</i>	RIKEN cDNA A930025J12 gene	5	4.6	4.0
<i>Hsd17b3</i>	hydroxysteroid (17-beta) dehydrogenase 3	--	4.0	2.1
<i>Ephx1</i>	epoxide hydrolase 1, microsomal	1	3.7	2.3
<i>Rcn1</i>	reticulocalbin 1	2	3.7	2.1
<i>LOC544986</i>	similar to hypothetical protein LOC67055	14	3.5	3.2
<i>Kit</i>	kit oncogene	5	3.5	2.0
<i>Vnn1</i>	vanin 1	10	3.2	4.0
<i>Mbp</i>	myelin basic protein	18	3.2	2.8
<i>Hsd3b1</i>	hydroxysteroid dehydrogenase-1, delta<5>-3-beta	3	3.2	2.5
<i>Akr1c13</i>	aldo-keto reductase family 1, member C13	13	3.2	2.3
<i>Itih2</i>	inter-alpha trypsin inhibitor, heavy chain 2	2	3.2	2.3
<i>Pcolce</i>	procollagen C-endopeptidase enhancer protein	5	3.2	2.0
<i>Rdh11</i>	retinol dehydrogenase 11	12	3.0	3.7
<i>Wnt5a</i>	wingless-related MMTV integration site 5A	14	3.0	2.8
<i>4933407N01Rik</i>	RIKEN cDNA 4933407N01 gene	11	3.0	2.3
<i>Plxnd1</i>	Plexin D1 (Plxnd1), mRNA	6	3.0	2.3
<i>Txk</i>	TXK tyrosine kinase	5	3.0	2.3
<i>Zfp185</i>	zinc finger protein 185	X	3.0	2.0
<i>Tnfrsf12a</i>	tumor necrosis factor receptor superfamily, member 12a	17	2.8	2.8
<i>Tcn2</i>	transcobalamin 2	11	2.8	2.6
<i>Plp1</i>	proteolipid protein (myelin) 1	X	2.8	2.5
<i>MGI:1889205</i>	plasma glutamate carboxypeptidase	15	2.8	2.1
<i>Cd36</i>	CD36 antigen	5	2.8	2.0
<i>Slc39a8</i>	solute carrier family 39 (metal ion transporter), member 8	3	2.6	5.7
<i>Synpo</i>	synaptopodin	18	2.6	3.5
<i>Bscl2</i>	Bernardinelli-Seip congenital lipodystrophy 2 homolog (human)	19	2.6	3.0
<i>Frzb</i>	frizzled-related protein	2	2.6	2.5
<i>Car4</i>	carbonic anhydrase 4	11	2.6	2.1
<i>Cyp2d22</i>	cytochrome P450, family 2, subfamily d, polypeptide 22	--	2.6	2.1
<i>Pcolce</i>	procollagen C-endopeptidase enhancer protein	5	2.6	2.1
<i>Txndc5</i>	thioredoxin domain containing 5	13	2.6	2.1
<i>2310016C16Rik</i>	RIKEN cDNA 2310016C16 gene	13	2.6	2.0
<i>Myadm</i>	myeloid-associated differentiation marker	7	2.6	2.0
<i>Pld3</i>	phospholipase D family, member 3	7	2.6	2.0
<i>Olig1</i>	oligodendrocyte transcription factor 1	16	2.5	2.6
<i>Hfe</i>	hemochromatosis	13	2.5	2.5
<i>Tceal3</i>	transcription elongation factor A (SII)-like 3	X	2.5	2.5
<i>4632428N05Rik</i>	RIKEN cDNA 4632428N05 gene	10	2.5	2.3
<i>Ctsp2</i>	cytidine 5'-triphosphate synthase 2	X	2.5	2.3
<i>Trp53inp1</i>	transformation related protein 53 inducible nuclear protein 1	4	2.5	2.3
<i>Sesn3</i>	sestrin 3	9	2.5	2.1
<i>Ndrq4</i>	N-myc downstream regulated gene 4	8	2.5	2.0
<i>septin 6</i>	37504	X	2.5	2.5
<i>Dnaja4</i>	DnaJ (Hsp40) homolog, subfamily A, member 4	9	2.3	4.0
<i>Slc25a29</i>	solute carrier family 25, member 29	12	2.3	2.8
<i>Bbox1</i>	butyrobetaine (gamma), 2-oxoglutarate dioxygenase 1	2	2.1	5.3
<i>Atp6v0e2</i>	ATPase, H+ transporting, lysosomal, V0 subunit E isoform 2	6	2.1	2.3
<i>Dspg3</i>	dermatan sulphate proteoglycan 3	10	2.1	2.3
<i>Mdfic</i>	MyoD family inhibitor domain containing	6	2.1	2.0
<i>9530028C05</i>	hypothetical protein 9530028C05	6	2.0	5.3
<i>A130022J15Rik</i>	RIKEN cDNA A130022J15 gene	6	2.0	2.8
<i>Acacb</i>	acetyl-Coenzyme A carboxylase beta	5	2.0	2.8
<i>Dap</i>	death-associated protein	15	2.0	2.8
<i>Utx</i>	ubiquitously transcribed tetratricopeptide repeat gene, X chromosome	X	2.0	2.8
<i>Vcam1</i>	vascular cell adhesion molecule 1	3	2.0	2.8
<i>Gpx3</i>	glutathione peroxidase 3	11	2.0	2.6
<i>Sc5d</i>	sterol-C5-desaturase homolog	9	2.0	2.5
<i>Tmem71</i>	ransmembrane protein 71	15	2.0	2.5
<i>Fkbp9</i>	FK506 binding protein 9	6	2.0	2.1
<i>Acsl6</i>	acyl-CoA synthetase long-chain family member 6	11	2.0	2.0
<i>Actn3</i>	actinin alpha 3	19	2.0	2.0
<i>Lmo2</i>	LIM domain only 2	2	2.0	2.0