

**Table S1. Downregulated genes**

Gene name	Gene description	Chr. location			Fold changes
Tubule	Whole testis				
<i>Ddx3y</i>	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	Y	-157.6	-724.1	
<i>Uty</i>	ubiquitously transcribed tetratricopeptide repeat gene, Y chromosome	Y	-34.3	-4.0	
<i>Eif2s3y</i>	eukaryotic translation initiation factor 2, subunit 3, structural gene Y-linked	Y		-27.9	-97.0
<i>Jarid1d</i>	jumonji, AT rich interactive domain 1D (Rbp2 like)	Y	-22.6	-5.3	
<i>Nxf2</i>	nuclear RNA export factor 2	X	-16.0	-12.1	
<i>Tuba3</i>	tubulin, alpha 3	6	-9.2	-19.7	
<i>Dst</i>	dystonin	1	-9.2	-4.3	
<i>Clca1</i>	chloride channel calcium activated 1	3	-7.5	-4.6	
<i>Alcam</i>	activated leukocyte cell adhesion molecule	16	-5.7	-2.1	
<i>Apod</i>	apolipoprotein D	16	-5.3	-2.8	
<i>Kctd14</i>	potassium channel tetramerisation domain containing 14	7	-5.3	-2.3	
<i>Slc6a4</i>	solute carrier family 6 (neurotransmitter transporter, serotonin), member 4	11	-5.3	-2.1	
<i>1190002H23Rik</i>	RIKEN cDNA 1190002H23 gene	14	-4.6	-4.0	
<i>Jam2</i>	junction adhesion molecule 2	16	-4.6	-2.6	
<i>Scara5</i>	scavenger receptor class A, member 5 (putative)	14	-4.6	-2.6	
<i>Ube1y1</i>	ubiquitin-activating enzyme E1, Chr Y 1	Y	-3.7	-7.0	
<i>9630031F12Rik</i>	RIKEN cDNA 9630031F12 gene	5	-3.5	-3.0	
<i>Rab3b</i>	RAB3B, member RAS oncogene family	4	-3.5	-2.1	
<i>Nfkbiz</i>	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta	16	-3.2		-2.5
<i>Plod2</i>	procollagen lysine, 2-oxoglutarate 5-dioxygenase 2	9	-3.2	-2.1	
<i>Morc1</i>	microrchidia 1	16	-3.0	-7.0	
<i>BC022960</i>	cDNA sequence BC022960	X	-3.0	-3.0	
<i>Trim7</i>	tripartite motif protein 7	11	-3.0	-2.1	
<i>Cxcr4</i>	chemokine (C-X-C motif) receptor 4	1	-2.8	-2.8	
<i>Dusp15</i>	dual specificity phosphatase-like 15	2	-2.8	-2.0	
<i>Apoa2</i>	apolipoprotein A-II	1	-2.6	-4.6	
<i>Id4</i>	inhibitor of DNA binding 4	13	-2.6	-3.2	
<i>Cd83</i>	CD83 antigen	13	-2.6	-2.5	
<i>Ehd1</i>	EH-domain containing 1	19	-2.6	-2.3	
<i>3230401M21Rik</i>	RIKEN cDNA 3230401M21 gene	18	-2.5	-2.3	
<i>MGI:1916782</i>	homeobox only domain	5	-2.5	-2.1	
<i>Bcl7c</i>	B-cell CLL/lymphoma 7C	7	-2.5	-2.0	
<i>Dtymk</i>	deoxythymidylate kinase	1	-2.3	-2.8	
<i>Cp</i>	ceruloplasmin	3	-2.3	-2.5	
<i>Foxq1</i>	forkhead box Q1	13	-2.3	-2.1	
<i>Tyro3</i>	TYRO3 protein tyrosine kinase 3	2	-2.3	-2.0	
<i>Hells</i>	helicase, lymphoid specific	19	-2.1	-7.0	
<i>Ris2</i>	retroviral integration site 2	8	-2.1	-2.6	
<i>Gadd45b</i>	growth arrest and DNA-damage-inducible 45 beta	10	-2.1	-2.5	
<i>Edn1</i>	endothelin 1	13	-2.1	-2.3	
<i>Stk4</i>	serine/threonine kinase 4	2	-2.1	-2.3	
<i>Galnt7</i>	UDP-N-acetyl-alpha-D-galactosamine: polypeptide N-acetylgalactosaminyltransferase 7			8	-2.1 -2.0
<i>Rarres2</i>	retinoic acid receptor responder (tazarotene induced) 2	6	-2.1	-2.0	
<i>Zcchc3</i>	zinc finger, CCHC domain containing 3	2	-2.0	-3.2	
<i>Ctnna1</i>	catenin (cadherin associated protein), alpha-like 1	4	-2.0	-2.3	
<i>Plagl1</i>	pleiomorphic adenoma gene-like 1	10	-2.0	-2.3	
<i>1300007B12Rik</i>	RIKEN cDNA 1300007B12 gene	1	-2.0	-2.1	
<i>4930588M11Rik</i>	RIKEN cDNA 4930588M11 gene	3	-2.0	-2.1	