

**Table 1. Genes with >20 fold expression differences in the endoderm vs surrounding tissue of the genital tubercle at E12.5.**

<b>Gene symbol</b>	<b>Gene Name</b>	<b>Molecular Function</b>	<b>t-value</b>	<b>Fold Change</b>
Foxa2	Forkhead box A2	Transcription factor	6.85	<b>156.3</b>
Krt8	Keratin complex 2, basic, gene 8	Structural molecule	6.928	<b>154.83</b>
Shh	Sonic hedgehog	Signaling	6.694	<b>142.07</b>
Clca3	Chloride channel calcium activated 3	Signaling	6.158	<b>140.34</b>
Mal2	Mal, T-cell differentiation protein 2	Signaling	6.786	<b>127.77</b>
Foxa1	Forkhead box A1	Transcription factor	6.397	<b>116.6</b>
Gstt3	Glutathione S-transferase, theta 3	Catalytic activity	6.64	<b>113.67</b>
Ripk4	Receptor-interacting serine-threonine kinase 4	Catalytic activity	6.135	<b>84.24</b>
Cldn3	Claudin 3	Structural molecule	6.01	<b>83.58</b>
Bnipl	BCL2/adenovirus E1B 19kD interacting protein like	Signaling	6.058	<b>77.35</b>
Cxcl15	Chemokine (C-X-C motif) ligand 15	Signaling	5.252	<b>72.22</b>
	CDNA clone MGC:58416	Unknown	5.813	<b>61.57</b>
	IMAGE:6707555, complete cds			
Cyp3a41a	Cytochrome P450, family 3, subfamily a, polypeptide 41a	Catalytic activity	5.479	<b>61.11</b>
Krt6a	Keratin complex 2, basic, gene 6a	Structural molecule	5.652	<b>54.67</b>
Anxa8	Annexin A8	Signaling	5.252	<b>52.14</b>
Ces3	Carboxylesterase 3	Catalytic activity	5.593	<b>51.31</b>
Aldoa	Aldolase 1 A	Catalytic activity	5.324	<b>50.35</b>
Cacna1b	Calcium channel, voltage-dependent, N type, alpha 1B subunit	Signaling	5.235	<b>49.47</b>
C1qa	Complement component 1, q subcomponent, alpha polypeptide	Signaling	5.423	<b>45.42</b>
Arhgef33	Rho guanine nucleotide exchange factor (GEF) 33	Signaling	4.777	<b>45.21</b>
Il17re	Interleukin 17 receptor E	Signaling	4.665	<b>45.13</b>
Dennd1c	DENN/MADD domain containing 1C	Catalytic activity	5.129	<b>42.07</b>
Cldn7	Claudin 7	Structural molecule	4.848	<b>41.67</b>
Upk1b	Uroplakin 1B	Signaling	4.946	<b>41.21</b>
Hoxb13	Homeo box B13	Transcription factor	4.651	<b>40.43</b>
Crygc	Crystallin, gamma C	Structural molecule	4.906	<b>39.1</b>
Fabp1	Fatty acid binding protein 1, liver	Catalytic activity	5.108	<b>38.68</b>
Krt19	Keratin complex 1, acidic, gene 19	Structural molecule	4.332	<b>38.53</b>
Akap10	A kinase (PRKA) anchor protein 10	Signaling	4.99	<b>38.3</b>
3110037L02Rik	RIKEN cDNA 3110037L02 gene	Unknown	5.075	<b>38.21</b>
Dbnidd2	Dysbindin (dystrobrevin binding protein 1) domain containing 2	Signaling	5.082	<b>37.49</b>
	clone:A330061J11	Unknown	4.909	<b>35.56</b>
S100a6	S100 calcium binding protein A6 (calcyclin)	Signaling	4.459	<b>35.24</b>
2610528J11Rik	RIKEN cDNA 2610528J11 gene	Unknown	4.59	<b>34.53</b>
Sez6l2	Seizure related 6 homolog (mouse)-like 2	Signaling	4.987	<b>34.51</b>
	Transcribed locus	Unknown	4.84	<b>32.96</b>
Entpd3	Ectonucleoside triphosphate diphosphohydrolase 3	Catalytic activity	4.742	<b>32.71</b>
Ano9	Anoctamin 9	Signaling	4.619	<b>32.32</b>
Fgf4	Fiberblast growth factor 4	Signaling	4.563	<b>32.16</b>

Sox7	SRY-box containing gene 7	Transcription factor	4.875	<b>32.15</b>
Ccl2	Chemokine (C-C motif) ligand 2	Signaling	4.431	<b>31.24</b>
Macc1	Metastasis associated in colon cancer 1	Signaling	4.832	<b>31.12</b>
Gls2	Glutaminase 2 (liver, mitochondrial)	Catalytic activity	4.796	<b>30.88</b>
	Transcribed locus	Unknown	4.798	<b>30.82</b>
Eps8l3	ESP8-like 3	Signaling	4.349	<b>30.72</b>
Gpr1	G protein-coupled receptor 1	Signaling	4.605	<b>30.68</b>
Cab39l	Calcium binding protein 39-like	Signaling	4.707	<b>30.58</b>
Pcdh17	Protocadherin 17	Structural Molecule	4.477	<b>30.48</b>
H2-D1	Histocompatibility 2, D region locus 1	Signaling	4.767	<b>30.32</b>
4930403O15Rik	RIKEN cDNA 4930403O15 gene	Unknown	4.596	<b>30.11</b>
Slc16a12	Solute carrier family 16 (monocarboxylic acid transporters), member 12	Signaling	4.461	<b>30.06</b>
Fbxw2	F-box and WD-40 domain protein 2	Signaling	4.378	<b>29.93</b>
Drd1a	Dopamine receptor D1A	Signaling	4.413	<b>29.57</b>
Spata16	Spermatogenesis associated 16	Signaling	4.364	<b>29.43</b>
		Unknown	4.751	<b>28.9</b>
Il16	Interleukin 16	Signaling	4.655	<b>28.62</b>
Dmd	Dystrophin, muscular dystrophy	Structural molecule	4.501	<b>28.21</b>
	Transcribed locus	Unknown	4.478	<b>27.69</b>
Klrd1	Killer cell lectin-like receptor, subfamily D, member 1	Signaling	4.424	<b>27.5</b>
Cpa6	Carboxypeptidase A6	Catalytic activity	4.708	<b>27.31</b>
	Transcribed locus	Unknown	4.533	<b>26.96</b>
Smc2	SMC2 structural maintenance of chromosomes 2-like 1 (yeast)	Catalytic activity	4.641	<b>26.81</b>
Plxnb3	Plexin B3		4.54	<b>26.77</b>
Hsd17b2	Hydroxysteroid (17-beta) dehydrogenase 2	Catalytic activity	4.563	<b>26.46</b>
Cspp1	Centrosome and spindle pole associated protein 1	Structural Molecule	4.327	<b>26.45</b>
8030498B09Rik	RIKEN cDNA 8030498B09 gene	Unknown	4.459	<b>26.34</b>
Sox2	SRY-box containing gene 2	Transcription factor	4.465	<b>26.13</b>
Acpp	Acid phosphatase, prostate	Catalytic activity	4.511	<b>26.12</b>
A630095E13Rik	RIKEN cDNA A630095E13	Unknown	4.599	<b>25.64</b>
2310045N14Rik	RIKEN cDNA 2310045N14 gene	Unknown	4.565	<b>25.08</b>
Elavl3	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 3 (Hu antigen C)	Signaling	4.382	<b>24.75</b>
Mpeg1	Macrophage expressed gene 1	Signaling	4.341	<b>24.2</b>
R3hdm1	R3H domain (binds single-stranded nucleic acids)	Signaling	4.331	<b>23.75</b>
Tbc1d8	TBC1 domain family, member 8	Catalytic activity	4.422	<b>23.35</b>
Asb14	Ankyrin repeat and SOCS box-containing protein 14	Signaling	4.419	<b>23.03</b>
Arhgef19	Rho guanine nucleotide exchange factor (GEF) 19	Signaling	4.396	<b>23.02</b>
C030048H21Rik	RIKEN cDNA C030048H21	Unknown	4.392	<b>23.02</b>
Krt7	Keratin complex 2, basic, gene 7	Structural molecule	4.361	<b>22.49</b>
Wwc2	WW, C2 and coiled-coil domain containing 2	Signaling	4.371	<b>22.41</b>
4930558F17Rik	RIKEN cDNA 4930558F17	Unknown	4.383	<b>22.3</b>
	Transcribed locus	Unknown	4.419	<b>22.27</b>
Rara	Retinoic acid receptor, alpha	Transcription factor	4.36	<b>22.01</b>

Ear3	Eosinophil-associated, ribonuclease A family, member 3	Catalytic activity	4.347	<b>21.79</b>
Cldn6	Claudin 6	Structural molecule	4.331	<b>21.63</b>
Fam46c	Family with sequence similarity 46, member C		-4.966	<b>-34.48</b>
Hbb-b1/ Hbb-b2	Hemoglobin, beta adult major chain /// hemoglobin, beta adult minor chain		-4.96	<b>-35.71</b>
Slc4a1	Solute carrier family 4 (anion exchanger), member 1		-5.08	<b>-38.46</b>
Hbb-y	Hemoglobin Y, beta-like embryonic chain		-4.518	<b>-90.90</b>
Hbb-bh1	Hemoglobin Z, beta-like embryonic chain		-5.002	<b>-104.16</b>