

Table S2. Ventral enriched genes

Unigene ID	Gene title	Dorsal bud average	Ventral bud average	Fold enrichment in ventral bud*
XI.24589	Transmembrane 4 superfamily member 4	4.3	212.7	22.99
XI.14821	LOC495168	56.3	959.6	15.65
XI.24486	Transmembrane 4 superfamily member 3	2.8	82.7	10.62
XI.5099	LOC495168	24.7	221.2	7.46
XI.5040	Inter-alpha trypsin inhibitor, heavy chain 3	16.2	147.7	6.95
XI.5040	Inter-alpha trypsin inhibitor, heavy chain 3	29.3	197.5	5.76
XI.16348	MGC116540	7.3	69.4	5.65
XI.866	Sonic hedgehog	3.2	46.3	5.62
XI.3229	MGC86518	11.0	83.9	5.25
XI.1122	Serum retinol binding protein	125.7	675.1	5.17
XI.14976	Protein kinase C alpha	30.4	182.3	5.14
XI.194	Lipocalin	6.1	56.3	5.09
XI.11405	Calcium ATPase at 60A	28.8	171.9	5.09
XI.534	Serotransferrin B	28.5	159.6	4.76
XI.5569	LOC100049721	8.8	60.0	4.35
XI.903	Alpha-1-antiproteinase	28.2	144.1	4.34
XI.6263	Myosin light chain, phosphorylatable, fast skeletal muscle	35.3	174.6	4.34
XI.424	Polysomal ribonuclease 1	34.3	168.1	4.28
XI.14846	LOC100037012	5.3	43.0	4.19
XI.1191	Connexin 30	36.5	173.6	4.18
XI.1424	LOC100127277	100.5	426.4	4.04
XI.13857	Transcribed locus	9.1	57.0	4.04
XI.1464	Myosin, heavy polypeptide 4, skeletal muscle	13.0	72.4	4.03
XI.18670	MGC115605	21.6	105.6	3.98
XI.2151	Creatine kinase, mitochondrial 1 (ubiquitous)	66.3	277.0	3.89
XI.1055	MGC53335	16.4	81.6	3.82
XI.2200	Transcribed locus	72.0	288.1	3.74
XI.1056	Myosin light chain, alkali, fast skeletal muscle	30.2	123.5	3.51
XI.26470	Fibrinogen, A alpha polypeptide	74.7	277.8	3.48
XI.6266	Embryonic epidermal lectin	185.2	657.9	3.46
XI.2142	Fast troponin I	19.6	84.8	3.45
XI.18975	LOC495296	12.2	58.6	3.40
XI.9073	Transcribed locus	10.4	52.2	3.38
XI.1055	MGC53335	16.8	71.7	3.29
XI.280	Heparin cofactor II	29.7	113.5	3.27
XI.5066	Protein C	13.5	60.2	3.26
XI.9006	Myeloperoxidase, peroxidase 2'	49.5	176.8	3.25
XI.1501	Transcribed locus	50.5	178.7	3.22
XI.23713	Transcribed locus	115.3	386.5	3.21
XI.1464	Myosin, heavy polypeptide 4, skeletal muscle	24.0	93.1	3.21
XI.1642	Cytokeratin type II	62.4	215.9	3.20
XI.14834	Transcribed locus	3.2	25.7	3.13
XI.4801	Riboflavin-binding protein	72.2	241.3	3.12
XI.5486	Similar to IgGfC-binding protein precursor (FcgammaBP)	68.7	229.9	3.12
XI.2142	Fast troponin I	21.0	80.7	3.11
XI.1501	Transcribed locus	135.8	432.3	3.07
XI.12925	LOC495841	27.8	99.6	3.04
XI.5482	MGC83069	382.2	1136.2	2.93
XI.7895	MGC64421	75.6	235.7	2.93
XI.25215	Similar to oncomodulin	4.8	28.0	2.86
XI.5860	Creatine kinase, muscle	22.5	78.6	2.85
XI.23949	LOC495173	21.6	74.9	2.82
XI.23751	LOC495026	16.6	61.0	2.82
XI.21150	MGC68589	37.8	120.5	2.81
XI.578	GATA-5a	23.3	79.4	2.80
XI.2142	Fast troponin I	23.3	78.3	2.77
XI.3454	Similar to heterogeneous nuclear ribonucleoprotein H3 isoform a isoform 6	300.6	844.7	2.76
XI.9653	Similar to Parvalbumin	18.4	64.3	2.74
XI.879	Twist homolog 1	10.8	43.0	2.72
XI.7590	XDCoH	36.7	113.0	2.71
XI.10475	LOC495033	42.7	126.5	2.65
XI.10642	Transcribed locus	2.5	19.6	2.61
XI.26215	Alpha-1-microglobulin/bikunin precursor	457.6	1201.3	2.60
XI.5846	MGC80184	6.7	30.0	2.57

XI.5860	Creatine kinase, muscle	32.9	97.3	2.57
XI.16704	MGC115198	75.1	203.8	2.55
XI.6748	Glutamine fructose-6-phosphate transaminase 1	30.9	91.1	2.54
XI.6005	CDNA clone 12F11	27.4	82.3	2.54
XI.22590	Transcribed locus	47.8	133.4	2.53
XI.5011	B fibrinopeptide	9.9	37.6	2.52
XI.14940	Transcribed locus	38.2	108.6	2.52
XI.14726	MGC53945	9.7	37.0	2.51
XI.13814	Transcribed locus	4.7	24.3	2.50
XI.5611	MGC80262	6.0	27.6	2.50
XI.5846	Similar to actin alpha	13.4	45.0	2.44
XI.24572	Fast skeletal troponin C alpha	15.1	48.7	2.42
XI.5967	MGC80750	18.2	55.6	2.40
XI.24530	Larval beta II globin	97.4	244.9	2.39
XI.12727	LOC398669	11.0	38.2	2.39
XI.23849	MGC85263	61.6	158.3	2.38
XI.1642	Cytokeratin type II	160.3	390.3	2.36
XI.888	Forkhead box A1	51.0	131.5	2.35
XI.24267	Similar to plasminogen	30.4	82.8	2.34
XI.302	Ephrin-B1	54.9	139.7	2.33
XI.549	Putative alanine:glyoxylate aminotransferase	181.9	435.1	2.33
XI.6256	MGC64326	15.0	45.7	2.29
XI.6048	X-epilectin	20.8	59.0	2.29
XI.14135	Similar to hydroxysteroid (17-beta) dehydrogenase 5	33.9	88.7	2.28
XI.4788	MGC68535	3.3	19.0	2.28
XI.1032	Fast skeletal troponin C beta	12.9	40.7	2.28
XI.6171	Similar to protein kinase C and casein kinase substrate in neurons 3	15.1	45.6	2.27
XI.13962	Transcribed locus	58.1	143.0	2.27
XI.12750	LOC495373	3.9	20.1	2.26
XI.25752	MGC115155	57.0	139.0	2.24
XI.1685	Anterior gradient 2	8.5	30.3	2.24
XI.2924	MGC53311	74.3	177.5	2.24
XI.12563	Angiopoietin-like 2	7.3	27.5	2.23
XI.526	Matrix metalloproteinase 9	14.7	43.5	2.21
XI.5324	LOC398539	19.1	53.1	2.20
XI.9800	LOC495178	12.4	38.1	2.19
XI.21567	MGC69046	54.4	128.7	2.17
XI.313	Similar to tropomyosin	12.7	38.4	2.17
XI.1605	Envoplakin	12.4	37.6	2.16
XI.9959	Degenerative spermatocyte homolog, lipid desaturase	14.8	42.5	2.15
XI.1279	MGC80920	8.0	27.8	2.15
XI.5021	Similar to complement component factor h	121.0	269.5	2.14
XI.22702	Fumarylacetoacetate hydrolase	23.8	61.3	2.13
XI.7213	Epid21	30.3	75.0	2.13
XI.12414	Similar to poly (ADP-ribose) polymerase family, member 12	28.7	71.2	2.11
XI.13506	Transcribed locus	18.2	49.0	2.11
XI.5114	Transcribed locus	8.0	27.2	2.10
XI.4591	Lactate dehydrogenase 2, B chain	106.1	231.8	2.09
XI.19041	LOC398539	16.8	45.1	2.07
XI.3362	Troponin T3, skeletal, fast	30.7	73.8	2.07
XI.18233	MGC84148	125.9	267.8	2.05
XI.10868	Galectin family xgalectin-VIa	14.7	40.2	2.04
XI.1217	Hepatic nuclear factor 4	20.1	51.0	2.04
XI.17370	Galectin family xgalectin-IVa	46.6	104.3	2.02
XI.7590	XDCoH	117.7	246.5	2.01
XI.1127	MGC64542	1528.6	3075.1	2.01
XI.23949	LOC495173	41.9	94.1	2.00
XI.6256	MGC64326	12.7	35.4	2.00
XI.7590	XDCoH	114.1	237.2	1.99
XI.5082	MGC68521	9.2	28.1	1.98
XI.41820	Ets2 repressor factor (Erf)	9.6	29.0	1.98
XI.20560	Transcribed locus	11.1	31.8	1.98
XI.4128	LOC100037197	2.0	13.8	1.96
XI.23954	Transcribed locus	13.3	35.9	1.96
XI.10470	LOC100158309	6.0	21.5	1.96
XI.41820	Ets2 repressor factor (Erf)	57.2	121.4	1.95

XI.25047	Transcribed locus	8.6	26.5	1.95
XI.16602	Transcribed locus	5.3	19.8	1.93
XI.2503	MGC89895	60.3	126.1	1.93
XI.13563	MGC80391	30.9	69.4	1.93
XI.16754	MGC131044	28.9	65.3	1.93
XI.11387	MGC82702	539.9	1045.9	1.92
XI.6748	Glutamine fructose-6-phosphate transaminase 1	20.8	49.2	1.91
XI.3881	Elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 1	243.0	470.0	1.90
XI.10783	Kallikrein B, plasma (Fletcher factor) 1	1.8	12.8	1.89
XI.26184	MGC64396	7.3	23.1	1.89
XI.12772	Transcribed locus	67.9	137.2	1.88
XI.25993	MGC84072	63.1	127.9	1.88
XI.3153	Similar to oncomodulin	7.6	23.5	1.87
XI.15894	Similar to periplakin	12.2	32.1	1.86
XI.1126	MGC64611	1778.4	3324.5	1.86
XI.1500	Villin	25.8	57.5	1.86
XI.13909	LOC496348	33.4	70.8	1.85
XI.289	Neuregulin 1	6.3	20.8	1.84
XI.13260	Transcribed locus	112.3	213.4	1.82
XI.3915	Transcribed locus	19.5	42.9	1.75
XI.21934	FK506 binding protein 1B	20.9	45.2	1.75
XI.5846	MGC80184	8.4	23.3	1.74
XI.23810	Surfactant protein C	1.6	11.3	1.72
XI.15841	LOC734942	7.8	22.0	1.72
XI.5116	Transcribed locus	3.9	15.2	1.71
XI.15870	Transcribed locus	3.1	13.6	1.69
XI.15700	Similar to calsequestrin 2 (cardiac muscle)	1.3	10.6	1.68
XI.21921	Similar to myozenin 1	2.5	12.2	1.63

*Fold enrichment is adjusted to correct for unrealistically high ratios when denominator approaches zero. The ratio used to determine fold difference was VPB/(DPB+5).