

Table S3. Top 60 endoderm-enriched transcripts

UniGene	Veg>An fold change	Name	Animal cap	Average expression normalized to stage 11				Fold change from stage 11			Predicted regulation <sup>†</sup>	Regulation validated by RT-PCR <sup>‡</sup>	
				Vegetal	Equator	Egg	Stage 18	Stage 11	Nodal-	Mixer-	Sox17-		
XI.368	170.6	Cerberus	0.01	2.01	0.43	0.01	0.02	1.00	n/a	-3.5	+1.1	+N +M OS	+
XI.16875	106.1	Mixer-b	0.02	2.49	0.155	0.03	0.04	0.867	-6.7	+1.6	-1.2	+N -M OS	+
XI.3793	100.61	Xenf*	0.02	2.19	0.14	0.02	0.05	0.99	-3.2	-1.4	1.0	+N 0 M OS	+
XI.824	100.2	Mix.1	0.02	1.83	0.46	0.02	0.02	0.88	-2.5	+2.4	1.0	+N -M OS	+
XI.215	95.33	?	0.03	2.39	0.16	0.02	0.06	0.96	-2.5	-1.1	-1.3	+N 0 M OS	+/-
XI.5999	94.63	?	0.05	5.19	0.14	0.07	0.72	1.07	-6.3	-2.1	-2.7	+N +M +S	+
XI.1108	85.65	PAPC	0.02	2.02	0.97	0.03	0.87	1.04	-9.2	1.0	-1.4	+N 0 M OS	
XI.44	82.9	XSox17β*	0.05	3.05	0.15	0.02	0.25	0.98	-3.7	-1.1	+1.6	+N 0 M -S	+/-
XI.7252	81.24	Germes	0.15	11.77	0.14	8.49	0.28	1.25	-1.1	-2.0	-1.4	ON -M OS	
XI.183	79.93	Gata-6	0.04	3.33	0.34	0.04	0.76	0.99	-5.8	-1.5	1.0	+N +M OS	+/-
XI.25780	74.27	Vg1	0.07	5.05	0.14	3.58	0.07	1.10	+1.2	+1.2	-1.1	ON 0 M OS	
XI.397	71.29	Bix2	0.05	3.23	0.67	0.05	0.05	0.97	-4.6	+3.2	-3.7	+N -M +S	+
XI.212	70.74	Frzb-1*	0.03	2.02	0.50	0.03	0.04	0.96	-4.4	-1.4	-1.3	+N 0 M OS	+/-
XI.6392	69.28	Vito	0.03	2.32	0.36	0.03	2.27	1.01	-2.9	-1.7	-2.8	+N +M +S	+
XI.3831	64.04	XSox17-alpha 1	0.05	3.05	0.18	0.06	0.48	1.07	-3.1	-1.1	+1.4	+N 0 M OS	+/-
XI.579	62.31	Gata-5b	0.07	4.05	0.17	0.07	0.35	1.07	-7.1	-1.7	-1.1	+N +M OS	+/-
XI.34912	58.35	Mig30	0.07	4.37	0.44	0.09	0.17	1.11	-4.0	-1.1	-1.1	+N 0 M OS	+
XI.3534	56.53	?	0.08	4.66	0.16	0.07	3.02	1.00	-5.9	-4.5	-1.9	+N +M +S	+
XI.1082	52.2	FoxA4b/fkh1	0.02	1.14	0.62	0.03	0.14	0.98	-2.7	+1.4	-2.0	+N 0 M +S	+
XI.46947	50.5	Pinhead-like	0.03	1.73	0.61	0.04	0.06	0.93	-2.7	-1.6	-1.1	+N +M OS	+
XI.49	49.55	Xwnt-8	0.03	1.60	0.93	0.04	0.26	0.98	-1.3	-1.2	-1.8	ON 0 M +S	+
XI.656	48.14	Cml-A	0.03	1.36	0.80	0.04	0.23	1.06	-5.9	-3.0	-1.6	+N +M +S	
XI.2554	47.3	?	0.06	2.91	0.33	0.06	0.46	0.83	-6.9	-1.3	-1.2	+N 0 M OS	+/-
XI.21726	46.33	?	0.10	4.69	0.27	0.06	0.11	0.90	-6.9	+1.3	-4.5	+N 0 M +S	
XI.6024	44.89	Darmin/Endocut	0.09	3.86	0.16	0.10	4.99	0.98	-8.9	-5.8	-1.4	+N +M OS	+/-
XI.23586	44.67	cDNA 14E5	0.06	2.61	0.54	0.07	1.63	1.06	-4.8	-2.9	-1.4	+N +M OS	
XI.23480	43.06	Pinhead-like	0.03	1.45	0.65	0.03	0.25	1.03	-1.5	-1.9	-1.3	+N +M OS	+
XI.1775	41.53	VegT	0.03	1.24	0.97	0.69	0.03	1.04	-1.5	+1.3	-1.4	+N 0 M OS	
XI.670	40.08	DEADSouth	0.11	4.40	0.15	2.38	0.48	0.99	+1.1	+1.4	1.0	ON 0 M OS	
XI.441	39.37	FoxA4d/pintallavis	0.04	1.71	0.79	0.05	0.27	1.06	-2.2	+1.4	-2.2	+N 0 M +S	+
XI.15455	39.21	Hnf1b/XLFB3	0.14	5.51	0.15	0.18	1.99	0.91	-4.1	-2.1	-2.7	+N +M +S	+
XI.8924	38.95	Gap-junction protein	0.05	2.06	0.29	0.08	4.56	1.00	-5.3	-3.0	-2.5	+N +M +S	+
XI.457	38.67	Derriere	0.04	1.53	0.84	0.02	0.07	0.98	-1.1	+1.5	-1.3	ON -M OS	
XI.14891	37.04	?	0.13	4.98	0.13	2.61	0.17	0.92	+1.3	+1.7	+1.2	ON -M OS	+
XI.311	36.18	Dazl	0.13	4.56	0.16	2.77	0.29	1.10	+1.3	+2.0	-1.2	ON -M OS	
XI.34915	35.39	Foxc1-A	0.04	1.57	0.77	0.04	0.49	0.86	-2.9	-2.1	-1.8	+N +M +S	+
XI.46324	33.06	?	0.12	3.95	0.80	3.15	0.16	0.82	-1.1	+2.4	-1.4	ON -M OS	
XI.38	32.87	Xpat-A	0.11	3.52	0.12	0.85	0.82	0.93	+1.1	+1.2	1.0	ON 0 M OS	
XI.989	32.8	Xnr3	0.11	3.64	0.69	0.15	0.14	0.98	-2.0	+2.9	+2.7	+N -M -S	+
XI.578	31.65	GATA-5a	0.14	4.55	0.17	0.11	0.58	0.92	-5.1	-1.5	+1.1	+N +M OS	-
XI.4709	31.02	?	0.23	7.16	0.35	4.87	0.21	1.06	-1.1	+2.4	-2.0	ON -M +S	+
XI.16410	30.46	?	0.14	4.25	0.33	1.04	0.27	1.06	-1.5	+1.6	-1.1	+N -M OS	-
XI.2967	29.76	?	0.07	2.07	0.63	0.04	0.33	0.89	-1.5	+1.9	-1.3	+N -M OS	+
XI.25471	28.83	Deadend	0.22	6.42	0.31	10.10	0.26	0.94	+1.5	+1.9	1.0	-N -M OS	
XI.3378	25.44	Endodermin	0.10	2.44	0.60	0.03	2.86	1.16	-1.5	-2.8	-2.3	+N +M +S	+
XI.399	24.08	Bix4	0.07	1.70	0.52	0.09	0.13	0.86	-2.6	+1.8	-2.0	+N -M +S	+
XI.4522	22.22	Xiro3	0.08	1.81	0.55	0.11	0.64	0.92	-4.8	-1.5	-1.7	+N +M +S	
XI.483	22.03	Mespo	0.10	2.12	1.60	0.11	1.77	1.12	-1.6	-5.3	1.0	+N +M OS	
XI.7094	21.76	?	0.22	4.75	0.57	1.55	0.28	1.08	+1.3	+1.7	-1.1	ON -M OS	
XI.7969	21.17	Zic3-A	0.06	1.19	1.18	0.03	0.20	1.06	-1.5	-1.3	-1.7	+N 0 M +S	
XI.373	21.11	Eomesodermin	0.10	2.09	1.18	0.04	0.06	1.14	-3.7	+3.8	+1.2	+N -M OS	+
XI.8950	20.14	MGC68423	0.14	2.76	0.57	0.08	5.47	1.16	-1.5	-3.1	-1.1	+N +M OS	
XI.5876	18.69	MGC84761	0.21	3.88	0.90	0.23	1.91	1.12	-2.4	-3.2	+1.2	+N +M OS	
XI.3873	18.32	?	0.26	4.82	0.51	0.96	1.20	0.99	1.0	+1.2	-1.5	ON 0 M +S	+
XI.16891	18.15	?	0.23	4.19	0.37	6.76	0.29	1.02	+1.1	+2.1	-1.1	ON -M OS	+
XI.4935	17.94	?	0.24	4.26	0.50	1.47	0.29	0.91	-1.2	+1.5	-1.2	ON -M OS	
XI.46208	16.61	MGC81667	0.17	2.84	0.66	0.35	0.46	1.00	-1.4	+1.2	-1.3	ON 0 M OS	
XI.10408	15.29	?	0.30	4.52	0.45	0.78	1.66	0.98	1.0	-1.1	+1.3	ON 0 M OS	+
XI.1061	15.08	Gata4	0.11	1.70	0.15	0.08	0.17	0.91	-5.4	-1.8	-3.6	+N +M +S	+
XI.3004	15.01	Otx2	0.12	1.81	0.69	0.06	0.83	1.09	-3.4	+1.6	-1.5	+N -M +S	
XI.13033	14.7	MGC82744	0.19	2.83	0.65	0.04	0.61	1.06	-2.1	-1.6	-1.2	+N +M OS	

Nodal-, injected with 1 ng Cerberus-short RNA; Mixer-, injected with 40 ng Mixer antisense morpholino oligo; Sox17-, injected with 20 ng of each Sox17a1, Sox17a2 and Sox17b antisense morpholino oligo.

<sup>†</sup>When the same Unigene sequence was present more than twice on the array, the average values are presented.<sup>‡</sup>Predicted regulation based on a greater than 1.4-fold change from control.

+, positively regulated; -, negatively regulated; 0, not regulated; N, Nodal regulation; M, Mixer regulation; S, Sox17 regulation.

<sup>\*</sup>Indicates if the regulation predicted from the array has been validated, either in this study or published. +, validated; +/-, same trend but was not more than 1.4-fold changed in one or more samples; -, not validated in one or more samples.