

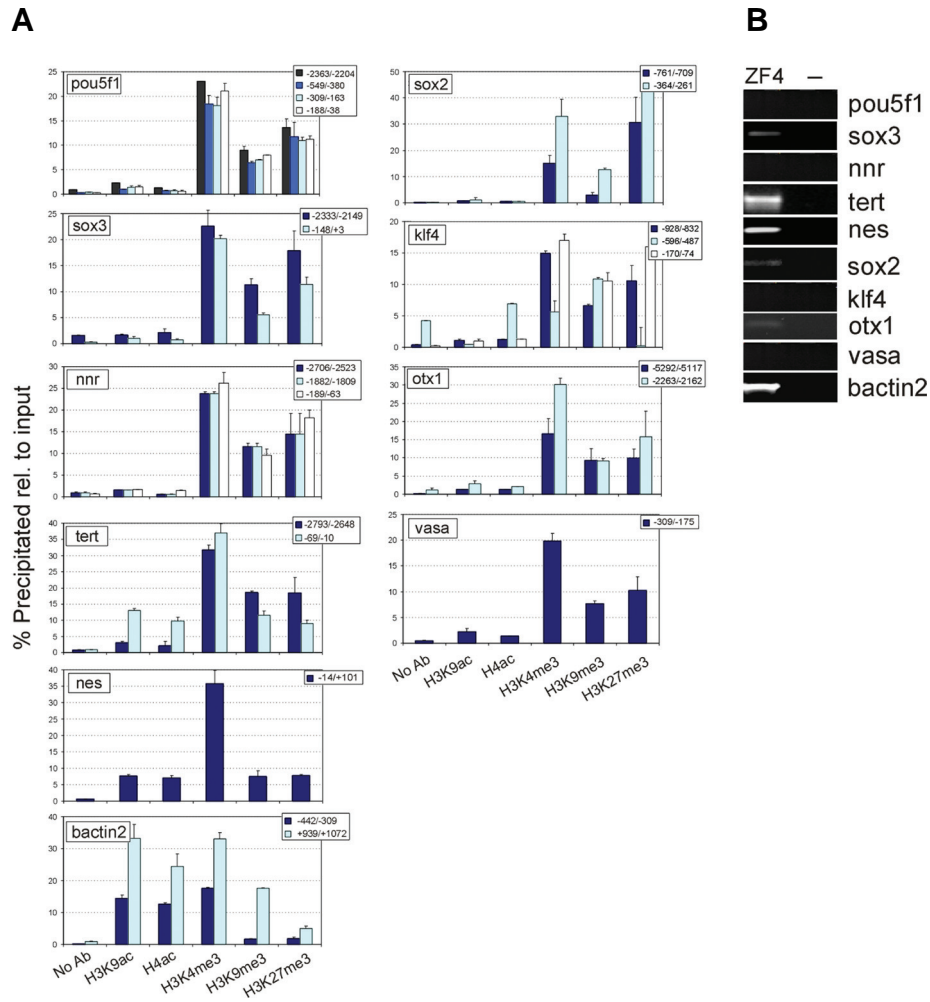
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SUPPLEMENTARY MATERIAL

corresponding to:

**Chromatin states of developmentally-regulated genes
revealed by DNA and histone methylation patterns
in zebrafish embryos**

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SUPPLEMENTARY TABLE 1

CHIP-PCR PRIMERS USED IN THIS STUDY

Gene	Forward primer (F) 5' 3'	Reverse primer (R) 5' 3'	Position rel. to TSS (nt)	Annealing temp. (°C)
<i>bact2</i>	F1: ATTGTTTGTATTACGGTATTTTCG		-442	60
	R1: GAGTTACAAGTGGCAGAATG		-309	
	F2: ACTATGAACTGAACCGACTG		+939	60
	R2: CTGCGATCAATTACACAACC		+1072	
<i>klf4</i>	F1: ATCTGATAGGCTACAACACTAC		-113	60
	R1: TGGCTGGATGTCTACC		-17	
	F2: CTGCACGAAGTTTCACTGGACAGAG		-539	60
	R2: ATGGATATGAGATTCGTTGGATGTTTTTCC		-430	
	F3: CAAATGTTAATTGAGCCGGAGTTGGACG		-921	60
R3: CATTGCTGTGAGTTTCACCTCTTCATTCCG		-815		
<i>mlc2</i>	F1: GGCATCTGGGGTGGGTTA		-74	60
	R1: GGTGGGTTTTGACTTTAGCA		+1	
	F2: CAGCAGGAGGAGAGGGTTTC		-449	60
	R2: ATCATTGGGTGCCAGGATA		-327	
	F3: ACTTCTCTTCTTGATCTTCTTAG		-1228	60
	R3: GAGCGAGGCATTATGTCC		-1099	
<i>nes</i>	F4: GCTCAAACAGTCCCTTACG		-1540	60
	R4: GCTATTGGAGTCTTGAATGG		-1426	
	F: TGTCTATGAAAGCAGGGTCGT		-14	55
	R: CTGTGAAGAAATGGGGCACT		+101	
<i>nnr</i>	F1: ACTGTAAGGGCCCTCGAACA		-189	60
	R1: CCTCCCTCATTGTGCTGTTGT		-63	
	F2: CACAGCCGACAGAGAAATATG		-1882	60
	R2: TTGACTGCCGTGCCATC		-1809	
	F3: ACAAGGCTGATGAAGGTGAC		-2706	60
R3: GAGAAACTGAGGTGAAACTGC		-2523		
<i>otx1</i>	F1: GATGTTCTACCTGTGGATTG		-127	60
	R1: CTAAGAGCGTAGGACACC		-26	
	F2: CCCTCTTTGACCAAACATAACAG		-3156	60
	R2: ATTCTGCCTTAATCTCCCTCTG		-2981	
<i>pou5f1</i>	F1: GATACACCTCGCGTTCCCAAACATGTC		-188	60
	R1: TTGCTAATCAATCGGAGTTGGAGGCAG		-38	
	F2: CGTTGCGCATATTGCATAAGTGTITTTCC		-309	60
	R2: CGTCATTTTGTCAATTCCTGCCCTC		-163	
	F3: GATCTACTGTACTTTTTTCTGATCCAC		-549	60
	R3: GTAATATGTACTTAATGAGCTGTCCTTG		-380	
<i>sox2</i>	F4: CATCGTACTCTGGATCTGGAAGC		-2263	60
	R4: TAGGAGCTCCACGAGACGCATC		-2204	
	F1: TGCTGACCGTCCGTAACC		-141	60
	R1: ACAACCATTCATAGAGCGACTG		-28	
<i>sox3</i>	F2: GGCTTTTGTGCTGCTTTTGT		-786	60
	R2: AGGTAGTTTTGTTTCGGCTGTT		-726	
	F: TGTTATGCTGTCAATCCAATCAC		-148	60
R: GCTCAAACCTCTGGTCAAGTAAAG		+3		
<i>tert</i>	F1: GCGTGTGCTTATCTGGGAGT		-69	60
	R1: CGTGCTGGGGAGTTCTATT		-10	
	F2: ACTGTTGGGGAAAACCTGCAC		-2793	60
	R2: TGCTGGAGGACTGGAACTTT		-2648	
<i>vasa</i>	F: ACAATGCTAGTCCAATTAACAC		-309	55
	R: TCTCAAACGACAACCTAACG		-175	

SUPPLEMENTARY TABLE 2

BISULFITE SEQUENCING PRIMERS USED IN THIS STUDY

Gene	Forward primer (F) 5' 3' Reverse primer (R) 5' 3'	Position rel. to TSS (nt)	Annealing temp. (°C)
<i>klf4</i>	F: AGATAAATTGATTTTTTTTGTAAATTTATAT R: ATTTAACTAAATATCTACCTATCCCATTAT	-279 / -1	55
<i>otx1</i>	F: AAAGGTGTTTTTTTGTATTTTTGA R: AAATAACTAATCCCCTTAAAATTACATT	-1032 / -860	54
<i>pou5f1</i>	F: TGTTTTTTTTATTTTTTAAATTTTTTG R: TACTTTCACCTACATTTTTACTATTCTTTT	-618 / -536	55
<i>sox2</i>	F: TTTATAGTTATTGTTTGTGGTTTTG R: ATCAACTCCTAATACTTTTTAAACAAATTA	-397 / -218 CpG island	55
<i>sox3</i>	F: AATAATATTTAAGAGTAGTTTGAAAAGTAA R: TTAAAAAATCAATATTAACACATC	-11401 / -1184	52
<i>tert</i>	F: ATAGTAGGATAGGGTTTTGGTTTTG R: CCTTCAATTCTCAAAAATTAAGT	-1186 / -954 CpG island	54
<i>vasa</i>	F: AATTGGGAATTTTAGTAGTATATTGATAGT R: TTTAATTTAAAACCTCATTAACTAAATCA	-369 / -163	54

SUPPLEMENTARY TABLE 3

RT-PCR PRIMERS USED IN THIS STUDY

Gene	Forward primer (F) 5' 3' Reverse primer (R) 5' 3'	Annealing temp. (°C)
<i>bact2</i>	F: CCCTTGACTTTGAGCAGGAG R: ACAGGTCCTTACGGATGTCG	60
<i>klf4</i>	F: ATGCTGACTCCACCATCCTC R: CTGCAGTGGTAGGGCTTCTC	60
<i>mlc2/mlc2f</i>	F: ACGACCTTAGGGACGTGTTG R: CTTGAAGGCAGACACGATGA	60
<i>nnr</i>	F: CACAAAGGTGCTCTTGTGGA R: CGTCTGGGTTTACAGTGACA	60
<i>nes</i>	F: TGGACAGCGAGGGCCTGAGA R: GCAGACTGCGGGATGAGGCG	60
<i>otx1</i>	F: TACATTTACGCGCTCACAGC R: GCTGACGACATTTAGCACGA	60
<i>pou5f1</i>	F: GCCGAAACTCCGAGAACCC R: GCACTTCACGAAGTACGACTCTAG	60
<i>sox2</i>	F: CATGACCAACTCGCAGACC R: GCTTTGCTGCGAATAGGAC	60
<i>sox3</i>	F: GACTGACGCCGAGAAGAGAC R: CATGTGCGTGTAGTCCATCC	60
<i>tert</i>	F: GCTGGGTGTTGAGTGGTTTT R: CACTGCACTATTGGGGACCT	60
<i>vasa</i>	F: GCATACGGGACCTGTGTACG R: TCTTCCAGGAGTAGCACACAG	60