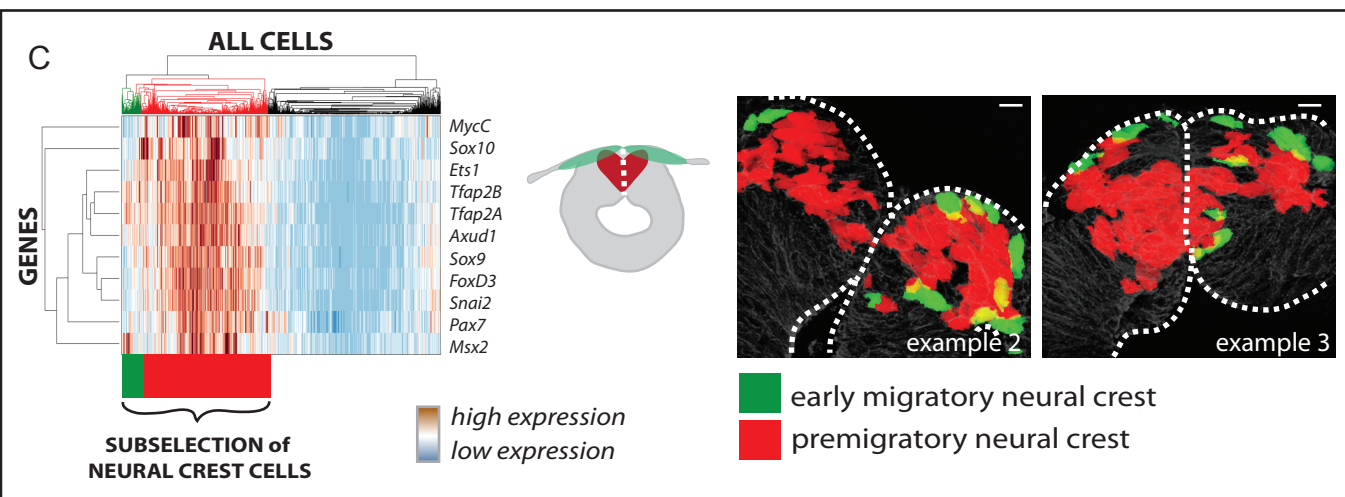
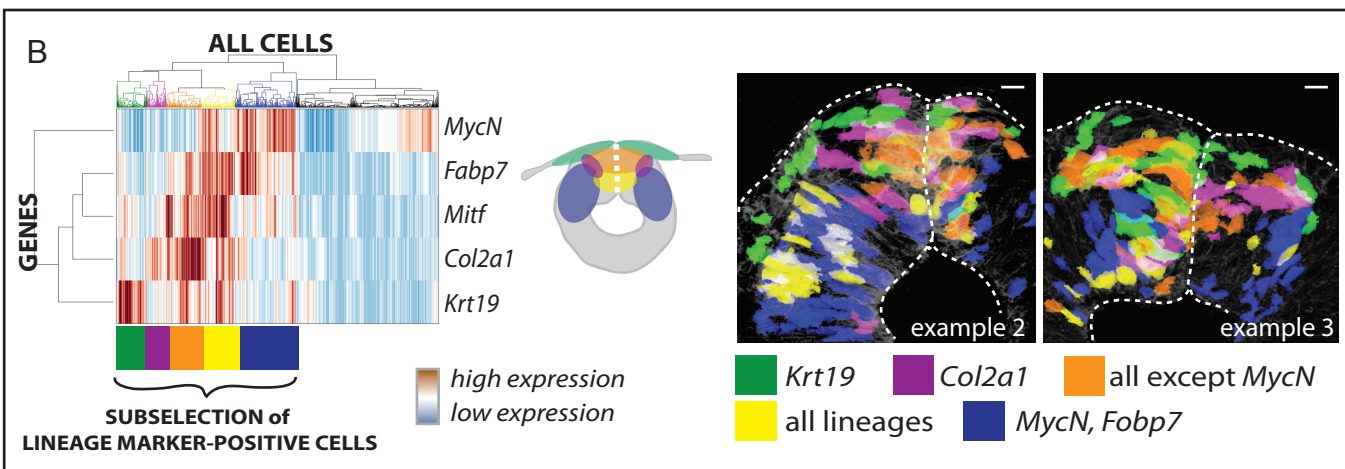
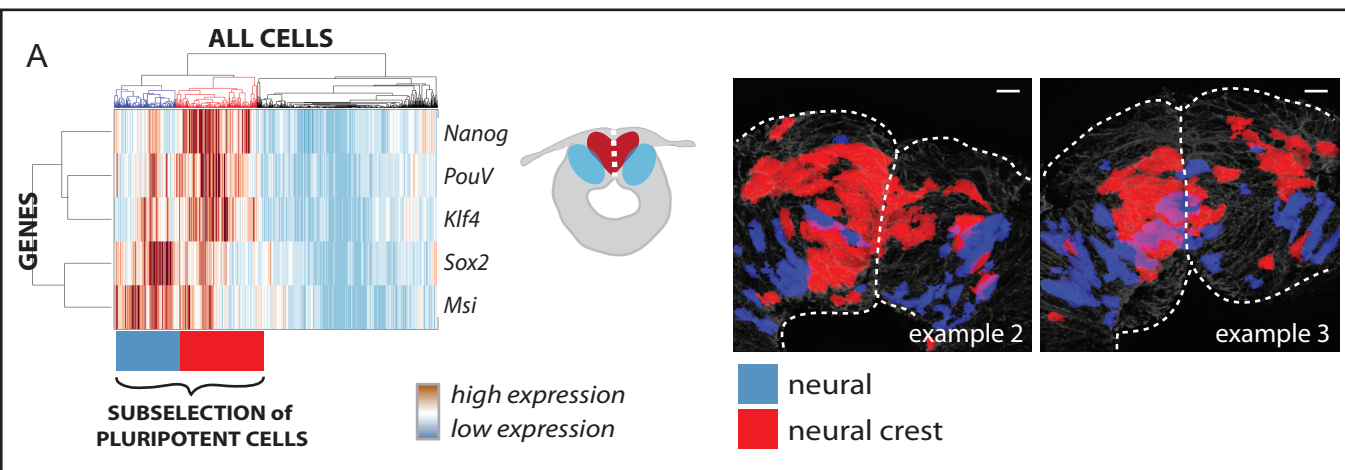


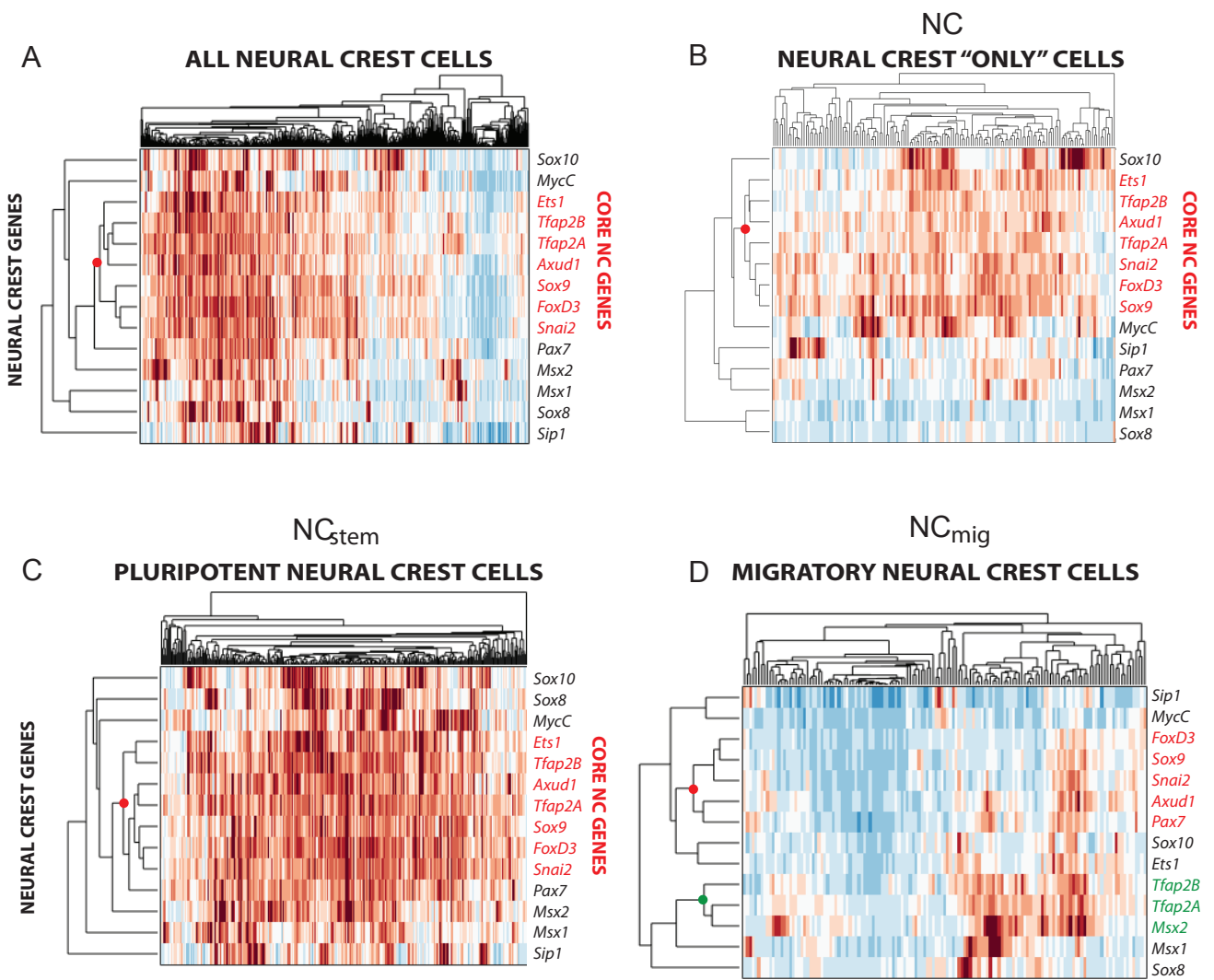
Supplementary Figure 1

RNA integrity and comparison between imaging methods A) RNA integrity is preserved after multiple rounds of rehybridization (eleven for this image with *Sip1*) as shown by comparison of the raw transcript images as well as the correlation plot (85% of transcripts are preserved). B-C) Spatial Genomic Analysis (SGA) can be performed using an epifluorescent microscope. Comparison of signal to noise ratio between a raw image taken by a spinning disc confocal microscope (A) and an epifluorescent microscope (B) before and after image processing (Laplacian of Gaussian filter) on the Alexa 488 channel that has the highest autofluorescence. The image processed epifluorescent data are comparable to those acquired by confocal microscopy as shown by the pixel values in the graphs. Scale bar 10 μ m.



Supplementary Figure 2

Reproducibility of the subclusters For each figure, all 1190 cells were clustered according to a subset of genes. A) The cells expressing pluripotency markers were selected for Figure 4A. Examples 2 and 3 show a similar spatial distribution of neural and neural crest stem cell populations as seen in Figure 4A. B) The cells expressing lineage specific markers were selected for Figure 4B. Examples 2 and 3 show a similar spatial distribution of the cell populations as seen in Figure 4A with the Collagen 2a1 expressing cells found lateral to the “all marker” expression zones, and the migrating cells are defined by expression of *Krt19*. C) The cells expressing neural crest markers were selected for Figure 4C. Examples 2 and 3 show a similar spatial distribution of migratory and premigratory neural crest cell populations as seen in Figure 4C. For the subcluster reproducibility analysis, five samples from three different embryos were compared and three representatives were chosen for the images (n=5). Scale bar 10µm.



Supplementary Figure 3

Identification of core neural crest genes in different subpopulations Genes with similar expression profiles are more closely clustered in the hierarchical tree. A) The dendrogram in Figure 5 is shown here together with the original heatmap in order to see how the expression of different genes is distributed among the neural crest cell populations. As shown separately in Panels B-D, this clustergram consists of all three different neural crest populations. B-C) The hierarchical clustering of neural crest genes in the NC population and in the NC_{stem} population, respectively, are similar to each other and to the dendrogram seen with the pooled data in A. Both populations show the highest similarity among the seven core NC genes (shown in red) and the α cluster (*Sox9*, *FoxD3* and *Snai2*). D) Migratory neural crest cells have a distinct expression profile and neural crest genes cluster in a slightly different manner in these cells: while the α cluster is the same as in premigratory cells, but now groups with only five of the core genes (shown in red); *TfAP2 α* , *TfAP2 β* , and *Msx2* form a separate cluster (shown in green).

Hyb 1

Foxd3 B1 1	gtctgccgacatatcgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Foxd3 B1 2	accacgtcgatatccacgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Foxd3 B1 3	ctcgcggggatcttcacTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Foxd3 B1 4	gaagccctgcatcatgagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Foxd3 B1 5	ggatgtaggggtactgcaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Foxd3 B1 6	ttgaaggcttgcggtcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Foxd3 B1 7	gggctcgatttcacgatTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Foxd3 B1 8	ctgaacgaggggcggtgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Foxd3 B1 9	aggaaagtctgcgctgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Foxd3 B1 10	cgactgcacggtgacgggTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Foxd3 B1 11	cgggtgctcctggctaacgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Foxd3 B1 12	ctgaggtgggcgcatgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Foxd3 B1 13	gcgatgatgttggtaggcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox9 B2 1	aagggtctaggagattcatAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Sox9 B2 2	ctgttctctgtcatttcaAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Sox9 B2 3	cggagtcatccgacatggtgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Sox9 B2 4	gaaggtgttctctgaggtcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Sox9 B2 5	atgcacacggggaattgtcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
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Sox9 B2 7	ttgtgcagatgcgggtactgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
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Sox9 B2 9	aagatggcgttggggagatAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Sox9 B2 10	ctgatgctgaggatgactgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Sox9 B2 11	cgtctcggaatcgatgtggAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Sox9 B2 12	gagatgacgtcgtcgtgagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Sox9 B2 13	gacgtcgaaggtttcgatgtAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Sox9 B2 14	gcaggtattgtggaactcgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Sox9 B2 15	tagtgctgcaggttgaaggaAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Sox9 B2 16	cgggtgaatcgactgcgagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Sox9 B2 17	tagtaggagccggagtctgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Sox9 B2 18	aggtgaaggtggagtagaggAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Sox9 B2 19	ctcgatgggggtgtacatgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Sox9 B2 20	ttgggtctgcgggatagagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Bcl2 B3 1	ttgtcgtagcctcttctTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Bcl2 B3 2	tgtactcagcactatctTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Bcl2 B3 3	ccgctgcgagagtataTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Bcl2 B3 4	tcactagcagcagccgagTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
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Bcl2 B3 12	gcgacatctcccgttgaTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Bcl2 B3 13	ggtggcaatgtgtccacTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
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Bcl2 B3 15	aaggcctcatactgttgcTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Bcl2 B3 16	ggtcttcagagagatccaTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Bcl2 B3 17	tgaagctcccaccagaaTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Bcl2 B3 18	tgtcaagataagcgccaTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
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Sip1 B4 2	acgagaagttctcctattcATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sip1 B4 3	gtaggcaaactgttagctacATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sip1 B4 4	gcatttgaacttgcgattgcATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sip1 B4 5	aaccgatacacttctgtgATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sip1 B4 6	tctcattctgccatttacagATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sip1 B4 7	ttaggagaagaacccgtcttATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC

Sip1 B4 8	tagttgcactaaacccatgtATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
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Sip1 B4 23	ctatcgtccattgagtgatcATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sip1 B4 24	gtcttctcgtgatctgattATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Actb B5 1	cgcagcaatatcatcatccATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Actb B5 2	ataccggagccattgtcaaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Actb B5 3	cccacgatagatgggaacaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
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Actb B5 5	ctgtgagcagcacagggtgATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
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Hyb 2

MycC B1 1	taatcgtagtcttctgctgggTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycC B1 2	gaagtagaagtagggctgcaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycC B1 3	gctcaaactcttccagatgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycC B1 4	cagatgaagctctggtgacTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
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MycC B1 7	ctgagcgggtaggggaagacTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
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MycC B1 21	tgtgctcgtccgattggataTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
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MycC B1 23	tggttttcaactgttctctcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycC B1 24	tatgcacgagagttccttagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Msx2 B2 1	ttcgccttggaggagaagcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
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Klf4 B4 4	catcagctcggccacgaagATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
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Tfap2A B5 13	atctctagctagatgcactgATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Tfap2A B5 14	ttctgtctcacaacgtaccATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Tfap2A B5 15	aattcagctactgcttggcATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Tfap2A B5 16	atcggaatgttgctggttgaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Tfap2A B5 17	ttttctgtgacttgctcgATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Tfap2A B5 18	ctgttttagctagaagcaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Tfap2A B5 19	ggtcggtgaactctttacagATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Tfap2A B5 20	cggctccaaaatggggttgATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Tfap2A B5 21	gagatgaggtgaagtgggATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Tfap2A B5 22	tcggtgagatagttctgcagATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Tfap2A B5 23	gttgcaggtacatttgtATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Tfap2A B5 24	ctcttgtcgcctgttggATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC

Hyb 3

Sox10 B1 1	cgacagatcttggtcatcagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 2	gcagtggtggtcttcagaacTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 3	gtgcgaagagttgtccgatgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 4	tgctctgttacttcattgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 5	caaggtcttactgagctcagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 6	tgtagtgcctggatagagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 7	tggtctgcacctgaagagtgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 8	ctcgctggagtcagcttggTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 9	tccacattgccaaagtcaatTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 10	acatcacttcatggctgacTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 11	tgacgtcaaaggtctccatgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 12	gtggcaggtattgtcaaatTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 13	ttggagatccaggctgagtgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 14	cggacaaggagactccatgcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 15	ttttcacctgggcttggagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 16	ctgatcgggtgaatgacctcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 17	gatgtgaagctatctgggaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 18	aaccatagtgggcagactcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 19	ggtggtctggatagtcaaacTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 20	aaggcagagtagaggccagaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 21	ctgggaaggtcccatataggTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 22	ggtcagagatggcagtgtaaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 23	caatgtgtgggactatgggaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Sox10 B1 24	agagagtcgtatacacaggcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Pax7 B2 1	gtggacacttccaaagggaaAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 2	ttgatgaaaacccctccgagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 3	acgatcttatggcgatgtgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 4	atgcgtagcacacggctaataAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 5	aggatgccatctatgctgtgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 6	gttctgattcgacatcgagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC

Pax7 B2 7	tgcttctcttcaaaggcagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 8	ctgctcggcagtgaagtggAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 9	ctgaaccacacctgaacacgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 10	agatggttgatgctgcgagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 11	catggtggatggtggcaaggAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 12	cataggcagagctggagtcgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 13	agcattcatgaagctgtctgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 14	attcatgtggttgccaggagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 15	gagagaggccattgctaacaAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 16	gagcactgcatctgtttgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 17	tcaaggctatggtgaggttcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 18	aggatgctcatcacctgattAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 19	cagagatggagttggtggtgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 20	cacggacttgatggagtcacAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 21	tgtactggtggtgctgtagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 22	gctcacgttctgtgcaaatAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 23	cagaacggccgaatgttctcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax7 B2 24	ctgtctactgttaggagcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nanog B3 1	ctaacagagccgtaggacggTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 2	ttttctgctgtggtcaagTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 3	gaagaagctggagaggcatcTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 4	gtatactgaatgagtgtcccTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 5	cagtagggctagtggcagagTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 6	aaaagtggggcgggtgagatgTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 7	ctctcacctttatcctaacTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 8	agaaagctgtgcgctcttgTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 9	gataaatccctttatccaccTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 10	tgatgaaccattctgtggTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 11	ggtcatatccagatacgagTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 12	ggaagccctggtgaaatgtaTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 13	gaaggtttctgttgcaacaTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 14	aagtctggccactgctgtaaTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 15	cacagccatgaacggatacaTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 16	gttccaccttttcaaagaaTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 17	gacttaataaacccatggccTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 18	gccatgatagaagttcatctTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 19	tgtcataatccacattggtatTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 20	taggtatcttctgcctgcaaTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 21	tatcagaggtgctctggaagTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 22	gagctcgagaactgtgtgatTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 23	ctggtactgatgccgtacagTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Nanog B3 24	agtctcataaccattctgggTAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Sox2 B4 1	ttcagctcggtttccatcatATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sox2 B4 2	tgttctctggttggtcgcgATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sox2 B4 3	ataaaagtttccactcggccATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sox2 B4 4	cttcgtcaatgaagggtctcATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sox2 B4 5	ttcatgtgcagagctcgagATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sox2 B4 6	ttcatcagggtcttggtttATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sox2 B4 7	ctggcaacgtgtacttatccATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sox2 B4 8	cggctcgtcatggtattggtgATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sox2 B4 9	ttcatgtgcgctaactgtcATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sox2 B4 10	ctggtcatggagttgtactgATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sox2 B4 11	gatccgttcatgtacgtctgATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sox2 B4 12	gtacgacatgctgtaggtagATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sox2 B4 13	gagctggattccgtcttgacATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sox2 B4 14	ctcgaatgagacgaggaggtATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sox2 B4 15	gatacatgtgatcatgtccATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sox2 B4 16	tggttctgttacttcagcacATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Sox2 B4 17	catatgaagtctgcttggggATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC

Sox2 B4 18	gtgcactctggtagtggtgATTTACATTTACAGACCTCAACCTACCTCCAACTCTCAC
Sox2 B4 19	ttaatggctgtgccaggaacATTTACATTTACAGACCTCAACCTACCTCCAACTCTCAC
Sox2 B4 20	atgtgatagagggagtggtgcATTTACATTTACAGACCTCAACCTACCTCCAACTCTCAC
Snai2 B5 1	gtttcttgaccaggaaggagATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 2	tagtttgcttcttgatgaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 3	atcactgtatgagtgtccagATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 4	agctttcatacaggtatgggATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 5	ctgcggtatgataggactgATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 6	tgaagctacagagctcaggATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 7	gtagtccacacagtaatgggATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 8	attgggtagaggagacggtaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 9	atccagaaagcggagagaggATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 10	tgacccttccaaagatgagATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 11	tgatctttggaggaggtgtcATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 12	aatgggacttttgaaccgcATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 13	atgagggtctgaaagcttgATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 14	ctgaaacttttcggcttcgaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 15	ttggccaacccagagaaagATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 16	aggctgacatactcctgtcATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 17	atcttcagacgcaaggtagATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 18	agggtctggagaaagccttgATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 19	ctgatgtgcccttgaagtagATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 20	gaaagccctgttgacgtgagATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 21	atgagccctcagattggatcATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 22	gtatttctcacatccgagtATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 23	gcagaagagacattctggagATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Snai2 B5 24	cagccagattcctcatgtttATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC

Hyb 4

MycN B1 1	cgggttcttgctgatcattcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 2	ggctgtaaggaatcgaactcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 3	atcttcgtccggtagaaacTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 4	ccggcccgcataaataaaaaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 5	caggaggagcaactcggacgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 6	aggcccgctcgaagaatacTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 7	ggagttgagattgtgctcgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 8	ttgacggggaagggaagacTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 9	ctccactgtcacaacatctaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 10	tgttgaggaggagcgtcttTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 11	atagtggggtgtaacagcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 12	ggtatttttaggacgactgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 13	gtgtcctgaccgatggaaaaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 14	ataattatgctgctggtgaaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 15	ccatatacggagaaggagcgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 16	cacctcggcttttaactttTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 17	tgaactcttagactttggtTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 18	ttatggttacgtcgacgttcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 19	agatcattacgcctctgacgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 20	taacgtgaggaaactggaccTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 21	acaagttctggaacgtggtcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 22	cacaacttttcagctttctTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 23	ggacatattcagtggctttTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
MycN B1 24	aagtcgctgtactctattTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Ets1 B2 1	tctgatgatggtcaggggAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 2	ggacgggaagagatcgtatAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 3	agtgcctgagacatcattcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 4	ctttgcgaagccactgaaggAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 5	ctgggatctttggggattcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 6	tgaactcattcactgccacAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC

Ets1 B2 7	cagctccgttcacgcagaacAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 8	acaaagtcaggccgtagctcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 9	agggtgtcccaaaggatataAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
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Ets1 B2 11	gtagtctgaagtagcgaggAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 12	gtgctcgatgccataactaaAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 13	ctgagggatagtcgttctcgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 14	agtagtctgtcgcaggagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 15	cagtttacctcgactggcacAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 16	aggctctggaaggaggactgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 17	tcctctgagtcgaaagctatcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 18	cgatctcgaacatagtccttAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 19	gaatgacaggctgtccttgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 20	cgtccagcttatgaaggactAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 21	acctcatctggatcggaagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 22	tgggctgttttctcttgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 23	cgtaatagtaacgcagaccaAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Ets1 B2 24	cagacgaagcggtagacgtaAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Pax6 B3 1	cgagttccacgatcttctgcTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 2	tccattcgacacgttttgatTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 3	cctgcccataattttactcaTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 4	tgatggagccagtttcgtaaTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 5	tactctcggttactactctTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
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Pax6 B3 7	tctcccacgcaaagatggagTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 8	tccgagagtaatctgtctgTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 9	ggactctgtttatcgacgacTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 10	catctgtgtctttcgtagTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 11	atccttagcttgcgtacatTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 12	catcggaatcttccccattgTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 13	ttcgatttgctcttggttaaTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 14	tctcgcaaacacatcaggatTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 15	ctattttagcagtagtcgcTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 16	ttggccctctgttagaaaaTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 17	aactactgctgaggggatgTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 18	tgtgggatcggtggttaaacTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 19	aagaggaaacgggggtggtcTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 20	cccaacatggaacctgatgTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 21	gttgcatagcgaggtgttgTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 22	ctattcatgtgtctgcatTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 23	agacatgtcaggttcactgcTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Pax6 B3 24	actgtaatcttggccaatacTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
PouV B4 1	ccatttacacattcgagcaATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
PouV B4 2	gggcatttcgaatcctttaATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
PouV B4 3	gagataccgcggtgacaacATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
PouV B4 4	aggcagacacgcggtgaatgATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
PouV B4 5	ttgaggtccttggcaaacgATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
PouV B4 6	gagtgaagcccagcatgatATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
PouV B4 7	tgaacatctcccatagagcATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
PouV B4 8	tgagctggagagcttgaagATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
PouV B4 9	tcattgagccaacgctgcagATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
PouV B4 10	catgttgccgtgttctctgATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
PouV B4 11	actgtctctgcattgcacatATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
PouV B4 12	tcacgttggtctcgatgctgATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
PouV B4 13	gaagaagctctcagcggtcATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
PouV B4 14	gactgggcttcacacattgATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
PouV B4 15	tcagcgatctgggagatctcATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
PouV B4 16	aacgtctttgtccaggttgaATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
PouV B4 17	tggttcattgctgatcatcacATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC

PouV B4 18	ctgggatgtcactgggatggATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
PouV B4 19	gaaaggtggcatgtagacggATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
PouV B4 20	tgctgtgttcacatggagatcATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Msx1 B5 1	cggtggatcatgtccgcagATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
Msx1 B5 2	ttgctgaaggcggagggcATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
Msx1 B5 3	tgggtttgtcgtctcctATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
Msx1 B5 4	cagcggggaaggggacacATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
Msx1 B5 5	agcgctccacgctgaagATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
Msx1 B5 6	gtcagagcgccgaggttgATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
Msx1 B5 7	cgagaggcagcgcgacgATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
Msx1 B5 8	cgacggagcgggaagtggcATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
Msx1 B5 9	tctctgctttgagcagcATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
Msx1 B5 10	cgagaagcgggggctctgATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
Msx1 B5 11	tgttgctctgtgcttgATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
Msx1 B5 12	agctggagaactcggcacATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
Msx1 B5 13	gaatgcagcagggcggagATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
Msx1 B5 14	gccaacgggaaggagatATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
Msx1 B5 15	ctccgtacagggatgcgcATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
Msx1 B5 16	tcgctggaaggggctggaATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
Msx1 B5 17	gtgtacagtcccacaggATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
Msx1 B5 18	tactatatcccacgtgcgATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC

Hyb 5

Axud1 B1 1	gagcagtaggtgctgtcatcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 2	ggtaaagccaggtgtatggTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 3	cgtttgattttcaggatTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 4	caactccacgtgttcttcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 5	gcgtgggaagtagaacacagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 6	gaactctgtaacgtgaactTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 7	cgacgaatgtttcctgctcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 8	tttgctccatcatgtgagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 9	gagatgtcctaagtgtgagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 10	cattgtcagctcaatgtcaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 11	tggaggaaaagccatcctcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 12	cctcctgtcaatctcttcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 13	agacctctgacagtcacagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 14	ttgtacagccacaggggaagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 15	ctggttgaaactgatcctgcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 16	aagccatcgtcatcgtatgcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 17	atcgttgaaagtgaggatgcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 18	actcagagaggtgggatgagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 19	tagctcttggaacacgactcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 20	gtccgagaaggactggaagaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 21	agttgtaaaggggtcccaagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 22	tcaaggttctcactactcttTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 23	ctgaaactgtaacgtgagaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Axud1 B1 24	gcgggaaaccggggaattaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGCGGAAGAG
Tfap2B B2 1	acattttcaaccagttccaAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 2	gtcctcatagatatctcgtAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 3	gaggacggggtgtgagagagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 4	taggggggtgggaataaggAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 5	tggctttggtgtaagggaagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 6	ggatcattgacatgggagtaaAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
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Tfap2B B2 8	gttcataccgctgtattggAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 9	ttttaatgacagactgtgccAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 10	gccatctttattcatcatcaAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 11	ggtgttgacggaaattccacAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 12	ccactgttacttgtacttgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC

Tfap2B B2 13	tagcctttctcgcaagatcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 14	aaagtgcatttgcagccttAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 15	ttttcctggagtgagggtcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 16	aagttgctttagcaagcaAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 17	ggccaagagatctgtaaattAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 18	tgtttccaatgggtgcctgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 19	ggttccaaataggggtggAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 20	cagtcaggtagtttggaggAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 21	atcttgccatgcctttgagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 22	tgttagcagtggtgtgtcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 23	agttttactacctggtccttAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Tfap2B B2 24	attttctgtgttctctccAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Sox8 B3 1	cctcggtcatgttgagcatTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 2	cacgtgggacatggagctgTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 3	cttcagcacctgcgagacgTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 4	tgtgcagggtcggtattgTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 5	agctttcacgcttttctcTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 6	catgatggctgagctcggcTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 7	tgtcagcctttagatctgTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 8	aagtcattgttgcggcTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 9	ctggtcaaactcgtgcacaTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 10	atggcagtatggccattgaTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 11	gagtaggacgtgctgtagaTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 12	tcttgtgagtcacacctgTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 13	aatcagccgatgacggcgaTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 14	ttttgatgtgcggccttgTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 15	gggactggtcgtgtagtgTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 16	gtaggagccgtagtcagagTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 17	gggggttagtagtgtagTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 18	gtagatgctggaggggtaaTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 19	ccgtgaggagtggaagtagTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 20	gacaagccgttgaggatggTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
Sox8 B3 21	tcgtcagggttgtagacTAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
E2f1 B4 1	cgagacgatgaggaggtgcATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
E2f1 B4 2	tggcgaagagcaggaggtcATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
E2f1 B4 3	aagttcagcttccgcttcaATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
E2f1 B4 4	cggctatgtactggtgatcATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
E2f1 B4 5	tttcatacggggacttctcATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
E2f1 B4 6	gcttggtggtgaggttcagATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
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E2f1 B4 8	aggacattggtgatgtcgtATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
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E2f1 B4 14	gggacagaggaacacgtcgATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
E2f1 B4 15	cttgaaggggctcttgacgATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
E2f1 B4 16	gtgtgtccatggaggtagATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
E2f1 B4 17	gaaatcgtccttgccatgcATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
E2f1 B4 18	gaactcatccgccaggaagATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
E2f1 B4 19	aaagagctcactgatgcccATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Ccnd1 B5 1	tgtcattgagcaggttggcgATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Ccnd1 B5 2	cacttgaagtaggacaccgaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Ccnd1 B5 3	atccaagtggcgactattttATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Ccnd1 B5 4	aaaacttcctctcgcacttATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Ccnd1 B5 5	gtccaaataattcatcgccaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Ccnd1 B5 6	tttctgaggggttcgaacgATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Ccnd1 B5 7	tagctccgagcaattgcaacATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC

Ccnd1 B5 8	tttctgcggtcagaggaatATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Ccnd1 B5 9	ggagtgtcgggtgaaatgcATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Ccnd1 B5 10	catttgcaactcgtcggaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
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Ccnd1 B5 12	agaggcatttagtgaggaaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
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Ccnd1 B5 14	aatttaacatctgtagcgcaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Ccnd1 B5 15	gatcatggaaggtgggttgATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Ccnd1 B5 16	aggaaagtgttagtgtcccATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Ccnd1 B5 17	acaatccgcatcacatttgaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Ccnd1 B5 18	ttcaatctgttcttggcaggATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Ccnd1 B5 19	tggcgtagactggattcaagATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Ccnd1 B5 20	caggaaaggtctgcttcgtcATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Ccnd1 B5 21	aatgttcacatctcgacacATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC

Hyb 6

Runx2 B1 1	ttgctgacatgggtgcacggTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 2	tgggtcgtgggatccaaaagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 3	cgatgatctccaccatgggtTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 4	cttcatcacagcagaagcatTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 5	cacgaatcgcaggctattgaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 6	gggattgtcaggacagttaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 7	agagtcatcaagcttctgtcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 8	aggcgttcagggaacaaactTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 9	ttggtgcagagttcagagagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 10	actctgtccttggattaaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 11	cgactgatcataggaccacgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 12	tcatctggctcaagtaggacTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 13	gagtcgtggagtgaatggacTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 14	gaactgcctgggatctgaaaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 15	gatagtgcattcgtgggttgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 16	cgggcggtgataggtaaaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 17	cggacataccagtgacatgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 18	caggtaggtgtgttagtgagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 19	actttggtttggaggagcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 20	gacgaagtgccatagtagagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 21	caccatggggaactggtacgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 22	cggaggaagcatcctggaagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Runx2 B1 23	caaaacagttggggagctgcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Mitf B2 1	tagcaggattcgtgaggtcaAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Mitf B2 2	tgcattcgtcacgcatgagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Mitf B2 3	tgacgttgatggcaggtgtcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Mitf B2 4	gttgattctcaaggtgagtAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Mitf B2 5	ttggcgtgtttattgtcagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Mitf B2 6	tcaagccaaggtttctcaAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Mitf B2 7	tatttgcatttgaaggctAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Mitf B2 8	atcaaatccagacactggAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Mitf B2 9	catgcttgggtgccataaaAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Mitf B2 10	tgtgatgttaagtcttgaAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Mitf B2 11	ttaggaagattagctggacaAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Mitf B2 12	ctcgttctgactctgtgagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Mitf B2 13	gttctttatacggcattaAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Mitf B2 14	cttattccagcgcatatccgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Mitf B2 15	tgttcaagttcctctgtAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Mitf B2 16	ttggcgtgttccaatttctAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
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Mitf B2 18	accatatcaggggagcaaatAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Mitf B2 19	gcacaggttctgtttgatgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Mitf B2 20	ttccgaggttgactgaagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC

Mitf B2 21	acactgtaagtgcagttggAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
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Mitf B2 23	agggtatcgatccatcaagatAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Mitf B2 24	aacaagcatgatcagtgctcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Plp1 B3 1	tatgagacagcgggcacagTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Plp1 B3 2	cgaccagagaggcgaaggTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Plp1 B3 3	cgaccccaaagaagcagagTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Plp1 B3 4	taggtctcaatgagctgctTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Plp1 B3 5	gctgttccatagatgacgtTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
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Plp1 B3 13	cgatggtcaggacataggtTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
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Plp1 B3 16	caggacaccgtacatcctgTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Plp1 B3 17	acacacctcccggaacTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Plp1 B3 18	agtcatttgaactcgctgTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Plp1 B3 19	cagtgaagaccagagtggcgTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Plp1 B3 20	agtggcggcgatcatgaagTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Col2A1 B4 1	catctttaatatctccgggATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 2	ttgaaatccctggggaccagATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 3	gtgaaccagattcaccttgATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 4	tgggagaccacataaccacATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 5	tttccagtgggaccaacagATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 6	tagagccatcttggccagagATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 7	cagtccagcaaaagcagacaATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 8	gatttgagggtggcatccacATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 9	cggatgctctcaatctgattATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 10	gatggcagagttgatgtcgATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 11	ttcgggtcaatccagtaatcATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 12	atactttgatggcgccaagATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 13	ggtctctgcaaaccagacgtATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 14	agctgaagtggaaaccgcccATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 15	atgaggatggctttctcagATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 16	tgatctccacgtcgttgatATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 17	caagacgctgtaggtgaaccATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 18	attgccagtggtttcgtgATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 19	tgaaccgggtactcgatcacATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Col2A1 B4 20	aatgtccataggtgcagtatATTTCACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
HuD B5 1	ctccatggtgctaattatcaATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 2	gtccattggtgtattggaaATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 3	aagggcagtttctactgttgATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 4	catgttctggggtaaatagtATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 5	gattttgtctctcacgagctATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 6	atccatatcctaactctgcATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 7	gcaccttttgatcaatgtaATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 8	tctgagtccattaaagtgtATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 9	gatacctttatggttttggtATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 10	ttgatgctgaactggacggATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 11	cgcccatattgtgagaataaATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 12	ctgatcaaccagaatccgtATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 13	taaatcccacacctcgagaaATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 14	gcctctattctctatcaaaATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 15	aggatagcgtctgttgggagATTTCACATTCATATCACTCACTCCCAATCTCTATCTACCC

HuD B5 16	ggccatattaagcaaattgtATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 17	ttggggagaacctttaacgATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 18	tgtgaccagggatattcattATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 19	acagcacactctcatctgagATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 20	attattgaccgctcccgaagATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 21	aaagccaaatccctgcactATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 22	atccattaaggctggcaatcATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 23	tgcaatactctgtctcctaaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
HuD B5 24	ggatttgtgggttttattggATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC

Hyb 7

Krt14 B1 1	gaactgccggacagtgggtTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Krt14 B1 2	cttgagggagggtgaggagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Krt14 B1 3	agacgatgcgggaggagacTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Krt14 B1 4	cattgtttcctctcgcgcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Krt14 B1 5	tgatctcacctccagatcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Krt14 B1 6	aagaatcttctcgcgcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Krt14 B1 7	ggcattctcaacagttgcgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Krt14 B1 8	ctgctccgtctcaacttgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Krt14 B1 9	tctcaatctgcatctccagTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Krt14 B1 10	tgaggtcaatgccgggagcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Krt14 B1 11	gcatctcagccaggatcttTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Krt14 B1 12	gaagaaccactgctcagcaTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Krt14 B1 13	gatctccaggctctggatgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Krt14 B1 14	catgtcacagcgcagctcgTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Krt14 B1 15	actgggaagagatgtgggcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Krt14 B1 16	gaggtcgtaatggcgtctcTATAGCATTCTTTCTTGAGGAGGGCAGCAAACGGGAAGAG
Nestin B2 1	ctctggatctcagctcgaagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 2	tctctgacagtctttggagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 3	gacatcttgagggtcatgagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 4	cgagctgattttctggaactAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 5	atctgcatctccttgagagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 6	tgagtggggcacttcttgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 7	tctgggtggcacttaacaatAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 8	agcacaagcagcttcgattAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 9	ggattcctgttgcaaaactAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 10	cttcaatgctagaagccttcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 11	tcctgaaggtctctatgttcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 12	cttgctgttttgactgatgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 13	tctgcatgtgggtgtcatcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 14	tcaatgggtctgagctgagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 15	agcatcctctgactgaaagtAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 16	tgtatgcacatagcggcgtgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 17	actataaagtagccttctcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 18	ctgttagttcatccttctgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 19	caccaaagatgctactccagAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 20	tccttggcatctcaaatcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 21	aggggtggtctatcagtgtgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 22	cagtgttgagggatcagtgAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 23	acatcggggagatattcagcAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
Nestin B2 24	tatctccagaatatccgagtAAAAAGCTCAGTCCATCCTCGTAAATCCTCATCAATCATC
FabP7 B3 1	cttcacgtcgcgcagaaagTAAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
FabP7 B3 2	gccttcatgtattcgtcaaaTAAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
FabP7 B3 3	gatgatcactgtgggcttagTAAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
FabP7 B3 4	agtctgatcacgactttgtTAAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
FabP7 B3 5	tcgccgagtttaagctgatTAAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
FabP7 B3 6	gggggtggttcatcaaatTAAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
FabP7 B3 7	cacaactgatttgcagtccTAAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC
FabP7 B3 8	cccatttctgacatgaactTAAAAAAGTCTAATCCGTCCTGCCTCTATATCTCCACTC

FabP7 B3 9	acaaagttgtctctttgccTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
FabP7 B3 10	attctgccatcctttatttcTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
FabP7 B3 11	caccacatcaccaaaggttaaTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
FabP7 B3 12	ctttctcatagtggcgaacaTAAAAAAGTCTAATCCGTCCCTGCCTCTATATCTCCACTC
Krt19 B4 1	ctgaagctataagtcgccatATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 2	tggcgggaagagactgacactATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 3	cctagggcagaagagacaaaATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 4	agaggagaccgtcaccagagATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 5	atcgtgtgtctttcattcccATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 6	tctgagttgtcttcttccaaATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 7	ctcccgagtttagttcaaATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 8	aataagggctgtagctcggATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 9	cggaggtcttcaatagccttATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 10	tagtggcagcaaggatctggATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 11	cttggtcttgaagtcgtcagATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 12	gaagagctgtctctgtttcaATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 13	atactggtctctcatatcggATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 14	cagtcttactgtggaaccagATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 15	tgtagctgttcggtattgacATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 16	cagtgaactcagactgtctgATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 17	ttcatgtgagctgggactgATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 18	tcaatgctgccaatcatgtcATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 19	atcttgattcgctgttctgATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 20	acgggtcttgatatccatgaATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 21	taagtagcgatctcctgctcATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Krt19 B4 22	ttttgcgggagatccagaaATTTACATTTACAGACCTCAACCTACCTCCAACCTCTCAC
Alx1 B5 1	tgctcccatgtaaaagtcacATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 2	ggactcattgtccaaagtttATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 3	tgctgtgacgttttgctataaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 4	ttgaaggcctgcacacatttATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 5	catagttcacgttgtgtctATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 6	ccagctgcaaaactggtgaaaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 7	ctcacgtagacatcagggttaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 8	ctcttagctgtggtatctgATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 9	atataatcataagtggcagcaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 10	ctgtcagtccttggaagaacATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 11	acagaaccactagcgggtgttATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 12	gtggtatcatgcaggaagtaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 13	ccggggtgaatgggaataagATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 14	aagcctgtgtagccagaatcATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 15	gaactgattctggtgtgttATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 16	aattattgagaggcacatggATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 17	ccccagaaagtaaagagtcaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 18	tcaaaagcatgtccattggtATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 19	tcctttcaaattccggcttgATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 20	agaactgcaatgctggaagaATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC
Alx1 B5 21	atagcccaggaaatattggcATTTCACTTCATATCACTCACTCCCAATCTCTATCTACCC

Supplementary Table 1

List of probes used for the SGA analysis Each probe consists of a consensus sequence complementary to mRNA (lowercase letters), as well as a linker sequence and an initiator sequence (B1-B5) for the hairpins used for HCR amplification (capital letters).