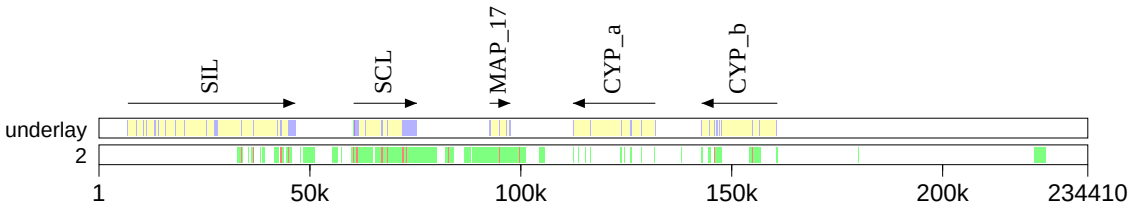
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SCL
MAP_17
CYP_a
CYP_b
underlay
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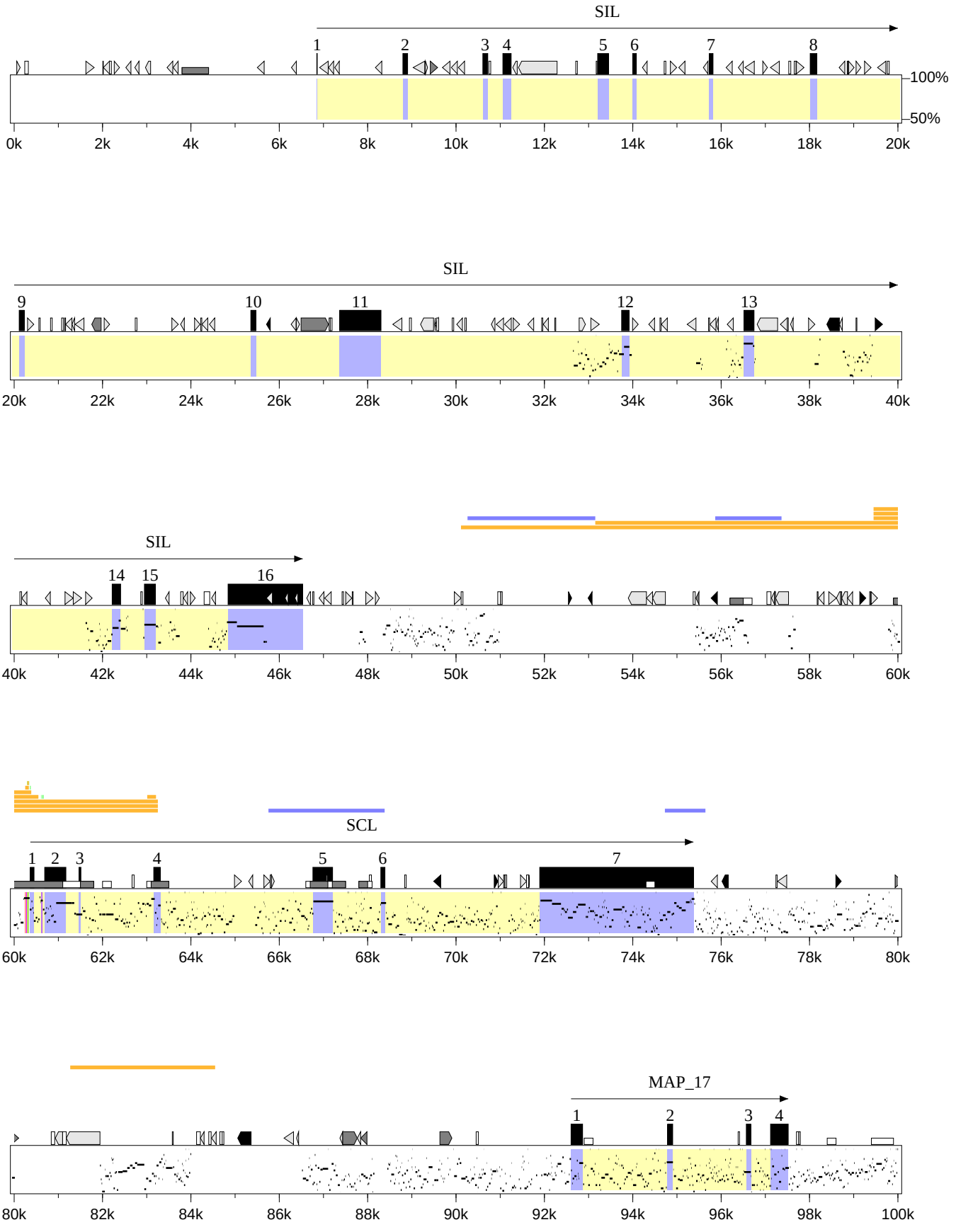
1
50k
100k
150k
200k
234410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6
7
8
100%
50%
0k
2k
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6k
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SCL
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72k
74k
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MAP_17
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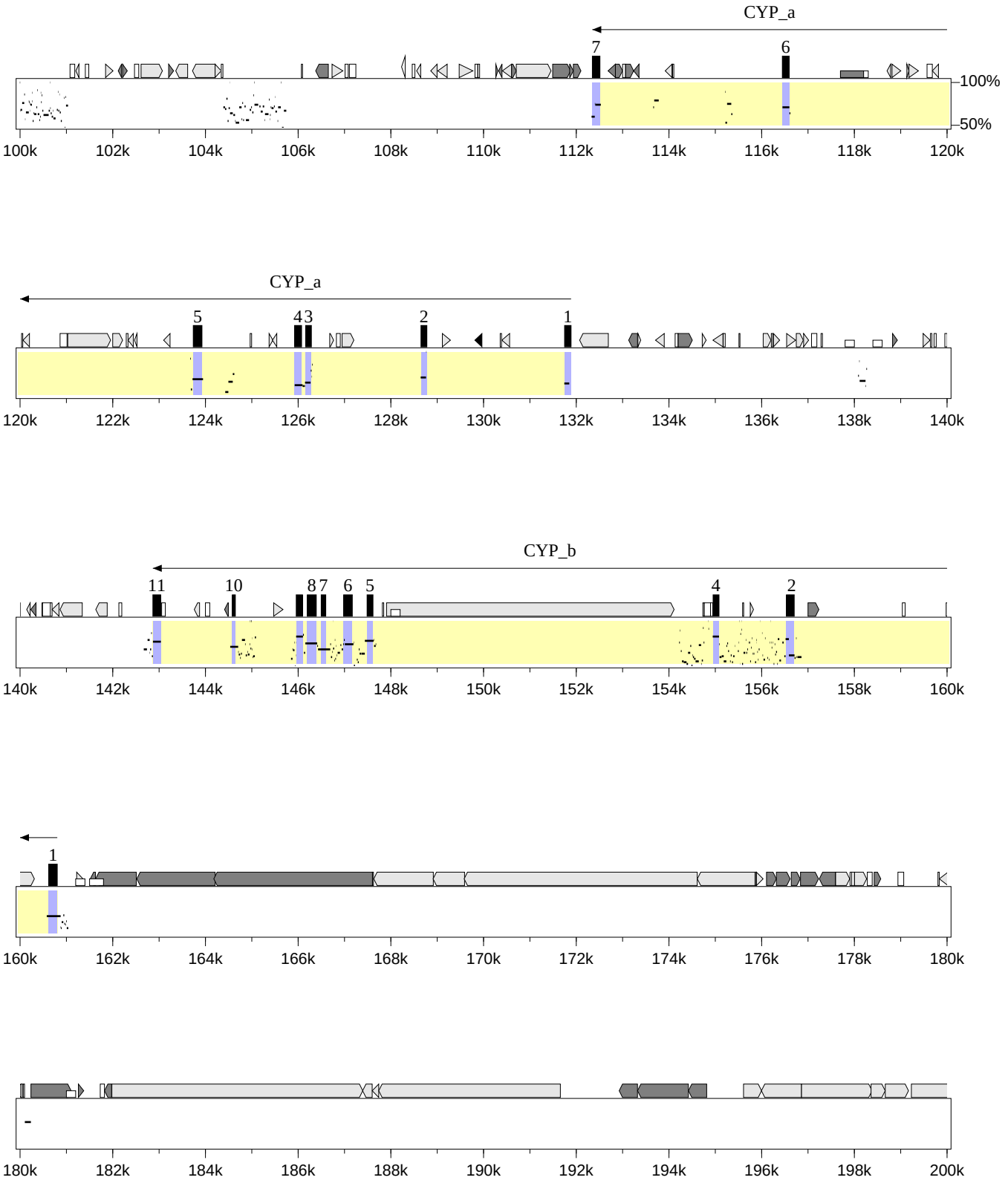
CYP_a
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118k
120k
CYP_a
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140k
CYP_b
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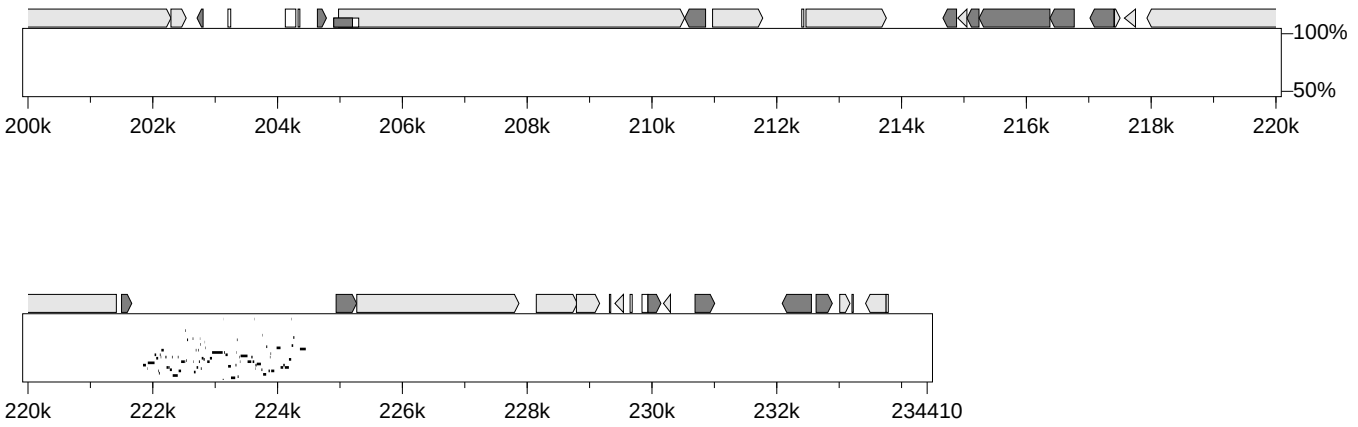
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230k
232k
234410

• 50112 63252 (0; Regulatory)

Distinct 5’ SCL enhancers direct transcription to developing brain, spinal cord,and endothelium: neural expression is mediated by GATA factor binding sites.Sinclair AM, Gottgens B, Barton LM, Stanley ML, Pardanaud L, Klaine M, Gering M,Bahn S, Sanchez M, Bench AJ, Fordham JL, Bockamp E, Green AR. Dev Biol 1999 May1;209(1):128-42 click to see abstract ☞

• 50260 53151 (2; DNase_I_HS)
contains -10HS Transcription of the SCL gene in erythroid and CD34 positive primitivemyeloidcells is controlled by a complex network of lineage-restrictedchromatin-dependent and chromatin-independent regulatory elements. Gottgens B, McLaughlin F, Bockamp EO, Fordham JL, Begley CG, Kosmopoulos K,Elefanty AG, Green AR. Oncogene 1997 Nov 13;15(20):2419-28 ☞

• 53151 63252 (1; Regulatory)

elements for vascular endothelium, developing brain, and spinal cord Distinct 5’ SCL enhancers direct transcription to developing brain, spinal cord,and endothelium: neural expression is mediated by GATA factor binding sites.Sinclair AM, Gottgens B, Barton LM, Stanley ML, Pardanaud L, Klaine M, Gering M,Bahn S, Sanchez M, Bench AJ, Fordham JL, Bockamp E, Green AR. Dev Biol 1999 May1;209(1):128-42 click to see abstract ☞

• 55866 57366 (2; DNase_I_HS)
contains -3/4.5HS Transcription of the SCL gene in erythroid and CD34 positive primitivemyeloidcells is controlled by a complex network of lineage-restrictedchromatin-dependent and chromatin-independent regulatory elements. Gottgens B, McLaughlin F, Bockamp EO, Fordham JL, Begley CG, Kosmopoulos K,Elefanty AG, Green AR. Oncogene 1997 Nov 13;15(20):2419-28 (100 bp region listed) click to see abstract ☞

• 59449 63252 (2; Regulatory)

HS sites 3,4; directs expression in vascular endothelium and a minority of fetal liver hematopoietic cells. Distinct 5' SCL enhancers direct transcription to developing brain, spinal cord,and endothelium: neural expression is mediated by GATA factor binding sites.Sinclair AM, Gottgens B, Barton LM, Stanley ML, Pardanaud L, Klaine M, Gering M,Bahn S, Sanchez M, Bench AJ, Fordham JL, Bockamp E, Green AR. Dev Biol 1999 May1;209(1):128-42 click to see abstract ☞

• 59449 60549 (3; Regulatory)

necessary for full hindbrain and spinal cord expression Distinct 5’ SCL enhancers direct transcription to developing brain, spinal cord,and endothelium: neural expression is mediated by GATA factor binding sites.Sinclair AM, Gottgens B, Barton LM, Stanley ML, Pardanaud L, Klaine M, Gering M,Bahn S, Sanchez M, Bench AJ, Fordham JL, Bockamp E, Green AR. Dev Biol 1999 May1;209(1):128-42 click to see abstract ☞

• 59449 60387 (4; Regulatory)
necessary and sufficient for midbrain expression Distinct 5’ SCL enhancers direct transcription to developing brain, spinal cord,and endothelium: neural expression is mediated by GATA factor binding sites.Sinclair AM, Gottgens B, Barton LM, Stanley ML, Pardanaud L, Klaine M, Gering M,Bahn S, Sanchez M, Bench AJ, Fordham JL, Bockamp E, Green AR. Dev Biol 1999 May1;209(1):128-42 click to see abstract ☞

• 60250 60332 (5; Regulatory)
promoter elements Analysis of vertebrate SCL loci identifies conserved enhancers. Gottgens B, Barton LM, Gilbert JG, Bench AJ, Sanchez MJ, Bahn S, Mistry S,Grafham D, McMurray A, Vaudin M, Amaya E, Bentley DR, Green AR, Sinclair AM. Nat Biotechnol 2000 Feb;18(2):181-6. click to see abstract ☞

• 60292 60311 (6; Footprint)

Transcriptional regulation of the stem cell leukemia gene by PU.1 and Elf-1.Bockamp EO, Fordham JL, Gottgens B, Murrell AM, Sanchez MJ, Green AR.J Biol Chem 1998 Oct 30;273(44):29032-42 click to see abstract ☞

• 60326 60341 (6; Footprint)

Transcriptional regulation of the stem cell leukemia gene by PU.1 and Elf-1.Bockamp EO, Fordham JL, Gottgens B, Murrell AM, Sanchez MJ, Green AR.J Biol Chem 1998 Oct 30;273(44):29032-42 click to see abstract ☞

• 60328 60301 (6; Regulatory)

Distinct mechanisms direct SCL/tal-1 expression in erythroid cells and-CD34 positive primitive myeloid cells. Bockamp EO, McLaughlin F, Gottgens B, Murrell AM, Elefanty AG, Green AR.J Biol Chem 1997 Mar 28;272(13):8781-90 ☞

• 60328 60301 (6; Regulatory)

Distinct mechanisms direct SCL/tal-1 expression in erythroid cells and CD34 positive primitive myeloid cells. Bockamp EO, McLaughlin F, Gottgens B, Murrell AM, Elefanty AG, Green AR.J Biol Chem 1997 Mar 28;272(13):8781-90 ☞

• 60355 60376 (5; Footprint)

Transcriptional regulation of the stem cell leukemia gene by PU.1 and Elf-1.Bockamp EO, Fordham JL, Gottgens B, Murrell AM, Sanchez MJ, Green AR.J Biol Chem 1998 Oct 30;273(44):29032-42 click to see abstract ☞

• 60607 60618 (3; Footprint)

Transcriptional regulation of the stem cell leukemia gene by PU.1 and Elf-1.Bockamp EO, Fordham JL, Gottgens B, Murrell AM, Sanchez MJ, Green AR.J Biol Chem 1998 Oct 30;273(44):29032-42 click to see abstract ☞

• 60633 60668 (3; Footprint)

Transcriptional regulation of the stem cell leukemia gene by PU.1 and Elf-1.Bockamp EO, Fordham JL, Gottgens B, Murrell AM, Sanchez MJ, Green AR.J Biol Chem 1998 Oct 30;273(44):29032-42 click to see abstract ☞

• 63011 63210 (3; Regulatory)
+3 region. Analysis of vertebrate SCL loci identifies conserved enhancers. Gottgens B, Barton LM, Gilbert JG, Bench AJ, Sanchez MJ, Bahn S, Mistry S,Grafham D, McMurray A, Vaudin M, Amaya E, Bentley DR, Green AR, Sinclair AM. NatBiotechnol 2000 Feb;18(2):181-6. click to see abstract ☞

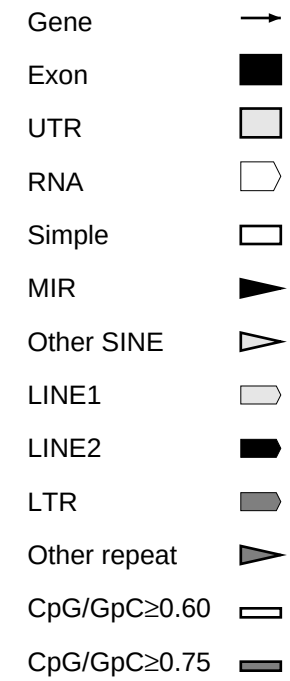
• 65755 68384 (0; DNase_I_HS)
contains +7HS Transcription of the SCL gene in erythroid and CD34 positive primitive myeloidcells is controlled by a complex network of lineage-restrictedchromatin-dependent and chromatin-independent regulatory elements. Gottgens B, McLaughlin F, Bockamp EO, Fordham JL, Begley CG, Kosmopoulos K,Elefanty AG, Green AR. Oncogene 1997 Nov 13;15(20):2419-28 ☞

• 74727 75644 (0; DNase_I_HS)
contains +17/18HS Transcription of the SCL gene in erythroid and CD34 positive primitivemyeloidcells is controlled by a complex network of lineage-restrictedchromatin-dependent and chromatin-independent regulatory elements. Gottgens B, McLaughlin F, Bockamp EO, Fordham JL, Begley CG, Kosmopoulos K,Elefanty AG, Green AR. Oncogene 1997 Nov 13;15(20):2419-28 ☞

• 81269 84548 (0; Regulatory)

+23 region. Analysis of vertebrate SCL loci identifies conserved enhancers. Gottgens B, Barton LM, Gilbert JG, Bench AJ, Sanchez MJ, Bahn S, Mistry S,Grafham D, McMurray A, Vaudin M, Amaya E, Bentley DR, Green AR, Sinclair AM. NatBiotechnol 2000 Feb;18(2):181-6. click to see abstract ☞

An SCL 3' enhancer targets developing endothelium together with embryonic andadult haematopoietic progenitors. Sanchez M, Gottgens B, Sinclair AM, Stanley M, Begley CG, Hunter S, Green AR Development 1999 Sep;126(17):3891-904. click to see abstract ☞



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Wed Jun 27 13:36:42 EDT 2001
http://bio.cse.psu.edu/pipmaker/

Annotations legend

- Footprint : Green
- DNase_I_HS : Blue
- Regulatory : Orange
- PubMed : Red

Underlays legend

- fwd_exon : LightBlue
- fwd_UTR : LightOrange
- rev_exon : LightBlue
- rev_UTR : LightOrange
- intron : LightYellow
- GATA : Green
- Sp : Orange
- AP1 : Cyan
- ETS : Purple
- MZF : LightPurple
- CAAT : Red
- SKN1 : LightRed
- HBOX : Pink