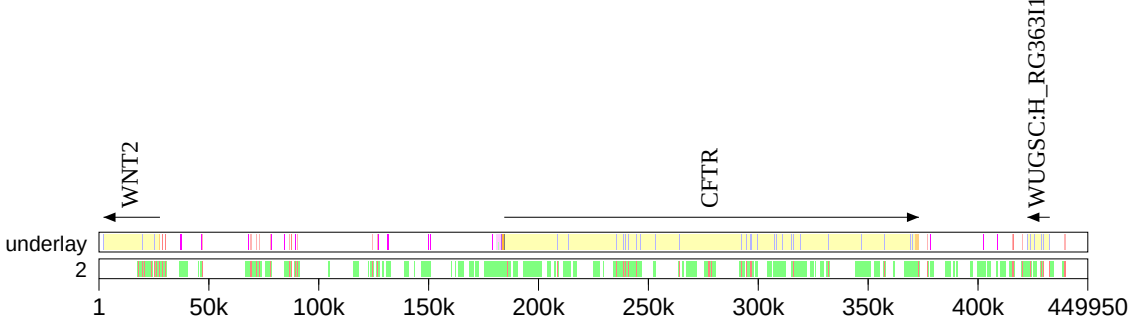
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400k
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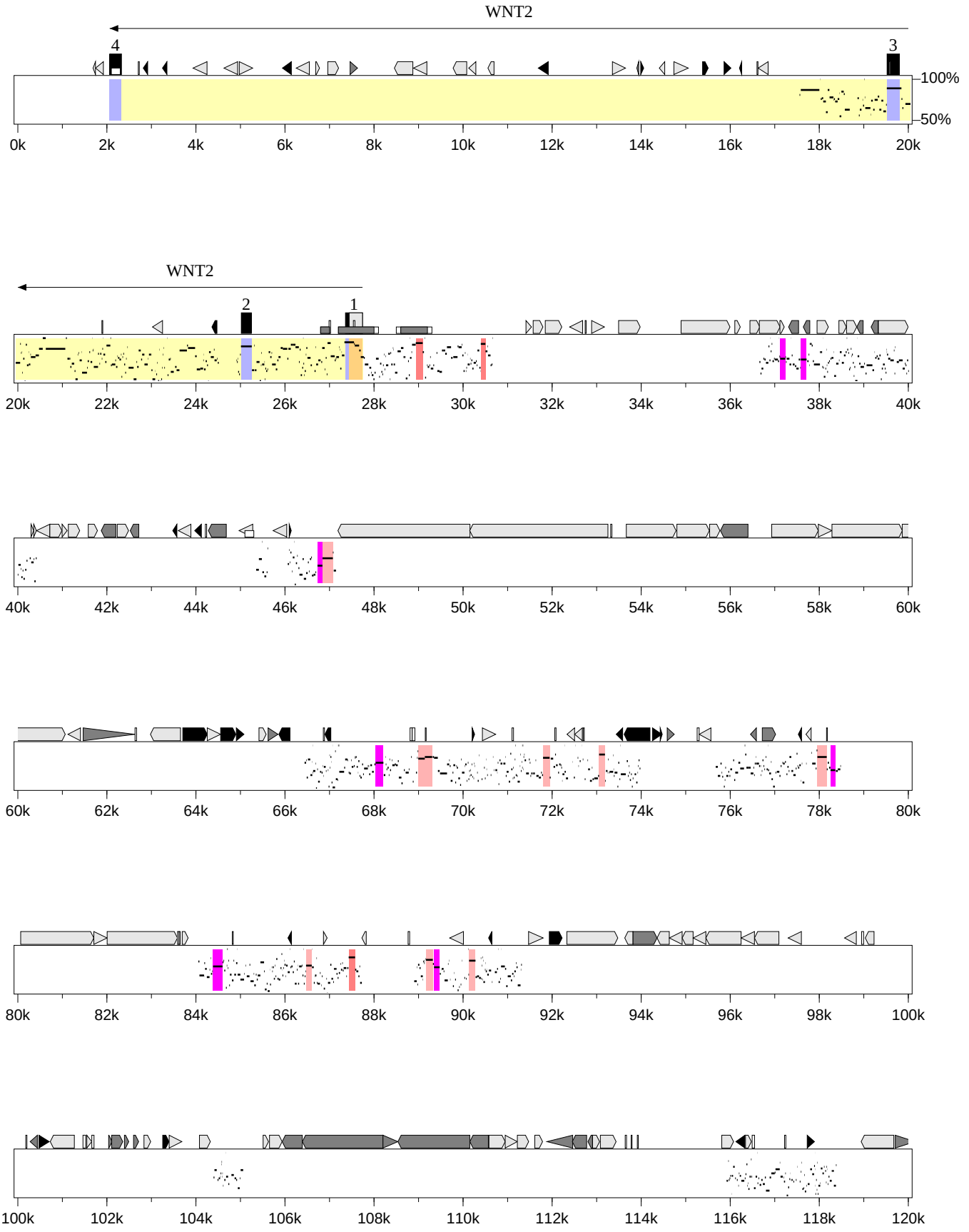
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2k
4k
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WNT2
2
1
20k
22k
24k
26k
28k
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42k
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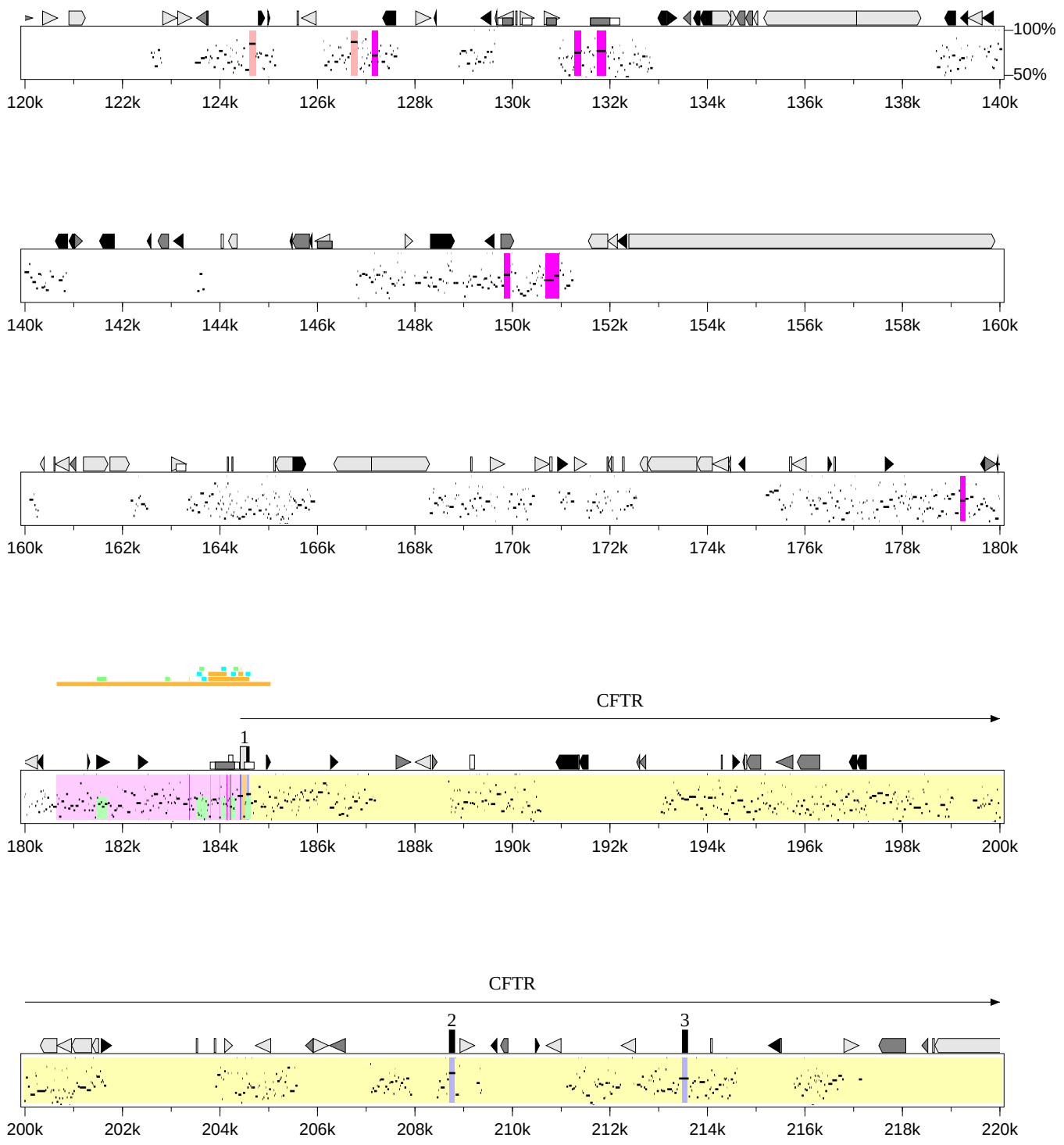
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164k
166k
168k
170k
172k
174k
176k
178k
180k
CFTR
1
180k
182k
184k
186k
188k
190k
192k
194k
196k
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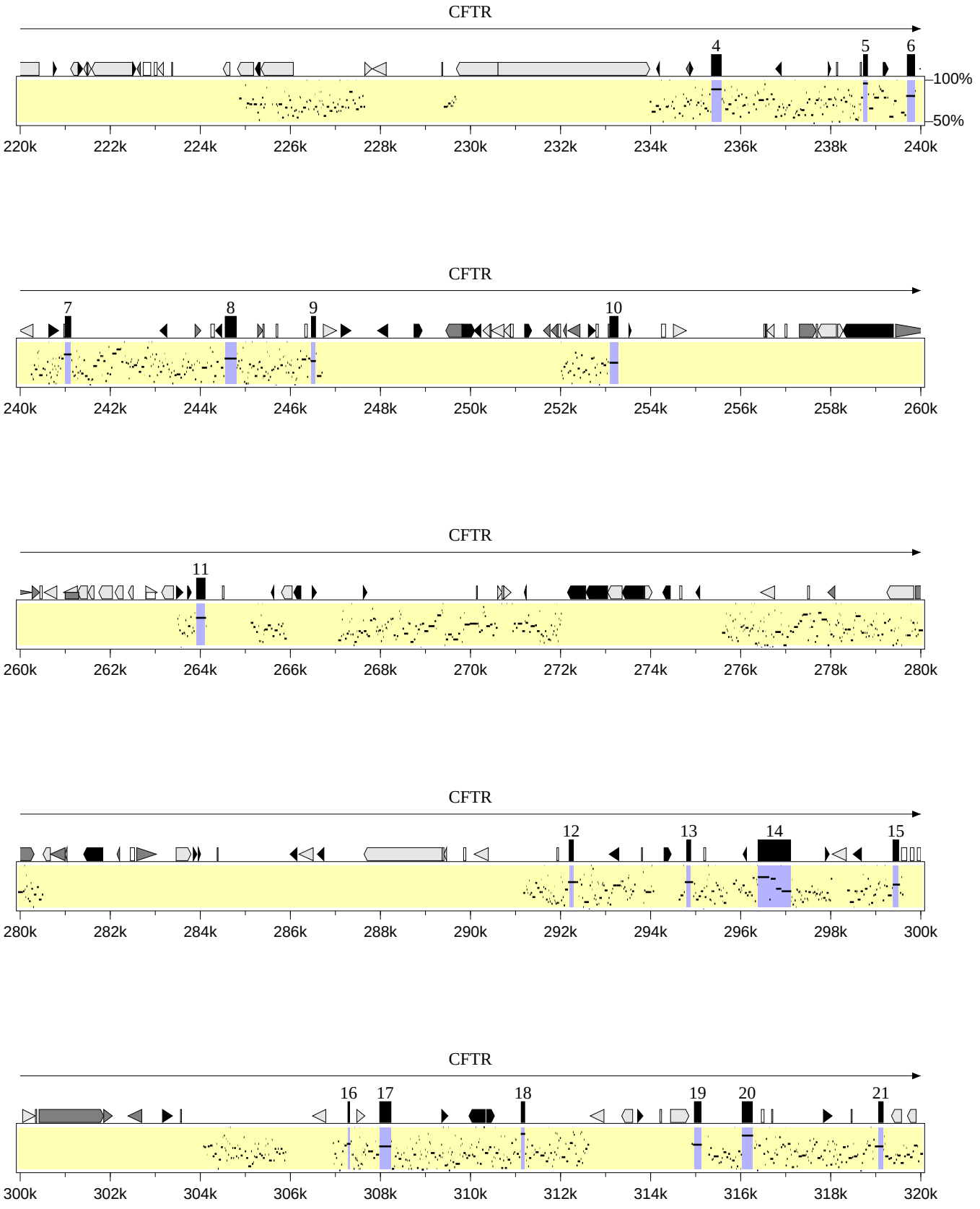
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220k
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240k
CFTR
7
8
9
10
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242k
244k
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248k
250k
252k
254k
256k
258k
260k
CFTR
11
260k
262k
264k
266k
268k
270k
272k
274k
276k
278k
280k
CFTR
12
13
14
15
280k
282k
284k
286k
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292k
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298k
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CFTR
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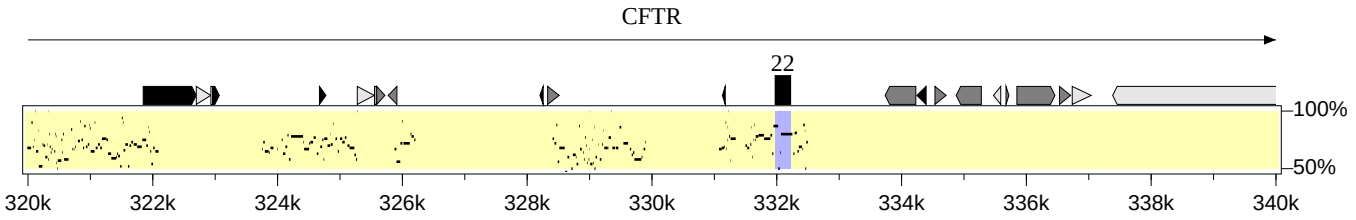
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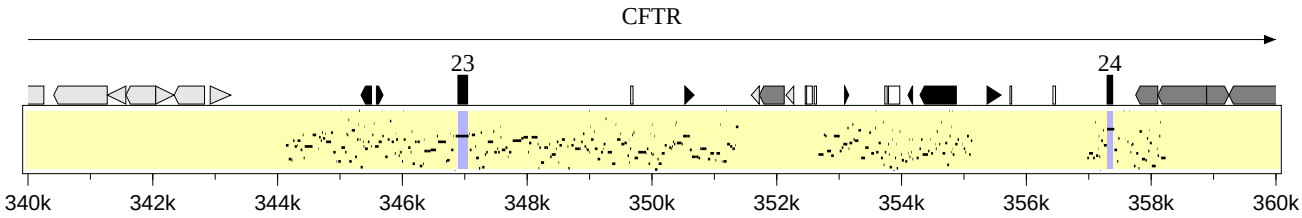
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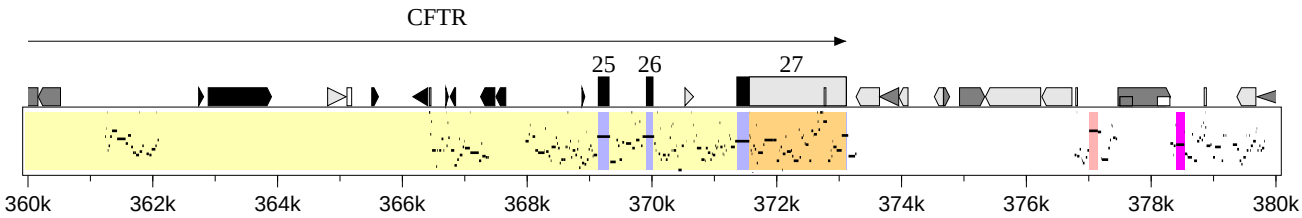
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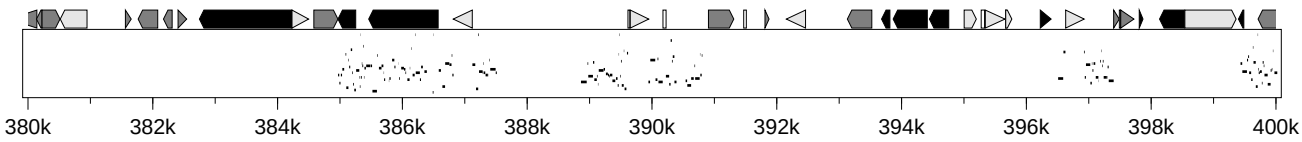
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392k
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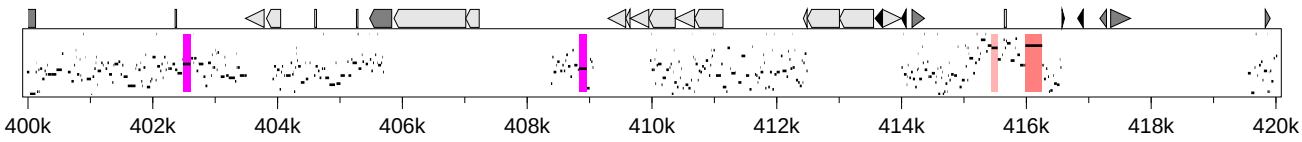
400k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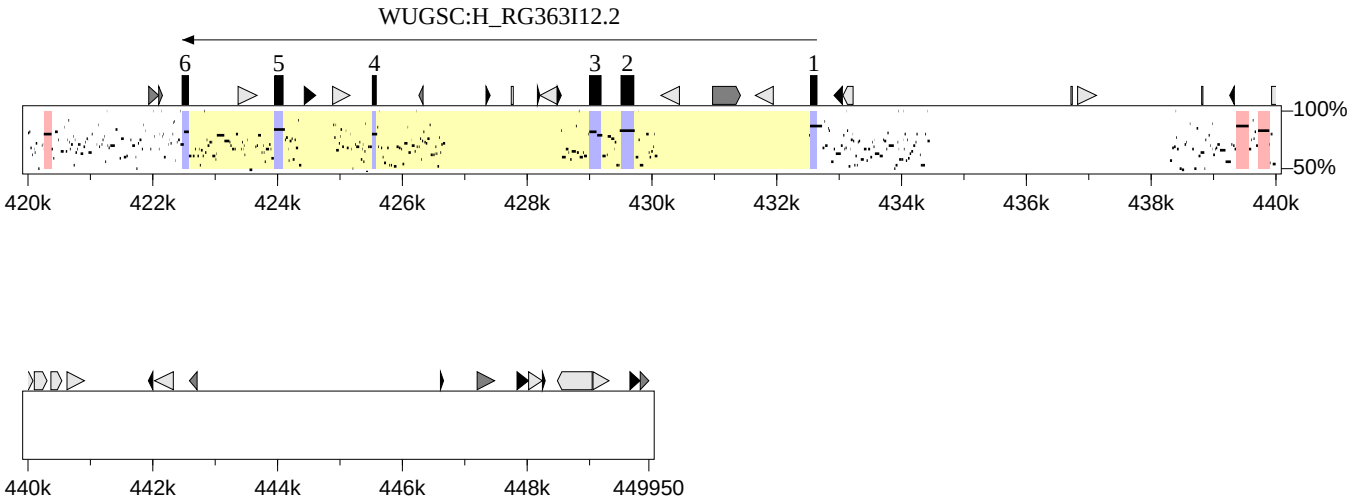
420k


WUGSC:H_RG363I12.2
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100%
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420k
422k
424k
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430k
432k
434k
436k
438k
440k

440k
442k
444k
446k
448k
449950

• 180650 185039 (0; Regulatory)
The cystic fibrosis gene has a "housekeeping"-type promoter and is expressed at low levels in cells of epithelial origin. Yoshimura K, Nakamura H, Trapnell BC, Dalemans W, Pavirani A, Lecocq JP, CrystalRG. J Biol Chem 1991 May 15;266(14):9140-4 click to see abstract ☞

• 181475 181675 (1; DNase_I_HS)

The cystic fibrosis gene has a "housekeeping"-type promoter and is expressed atlow levels in cells of epithelial origin. Yoshimura K, Nakamura H, Trapnell BC, Dalemans W, Pavirani A, Lecocq JP,Crystal RG. J Biol Chem. 1991 May 15;266(14):9140-4. (shown as 100 bp regions) click to see abstract ☞

• 182875 182975 (1; DNase_I_HS)

The cystic fibrosis gene has a "housekeeping"-type promoter and is expressed atlow levels in cells of epithelial origin. Yoshimura K, Nakamura H, Trapnell BC, Dalemans W, Pavirani A, Lecocq JP,Crystal RG. J Biol Chem. 1991 May 15;266(14):9140-4. (shown as 100 bp regions) click to see abstract ☞

• 183373 183382 (1; Regulatory)

NF-kappa B mediates up-regulation of CFTR gene expression in Calu-3 cells byinterleukin-1beta. Brouillard F, Bouthier M, Leclerc T, Clement A, Baudouin-Legros M, Edelman A. J Biol Chem. 2001 Mar 23;276(12):9486-91. click to see abstract ☞

• 183526 183626 (2; DNase_I_HS_Koh)

Characterization of the cystic fibrosis transmembrane conductance regulatorpromoter region. Chromatin context and tissue-specificity.Koh J, Sferra TJ, Collins FS. J Biol Chem 1993 Jul 25;268(21):15912-21

(shown as 100 bp regions) click to see abstract ☞

• 183575 183675 (3; DNase_I_HS)

The cystic fibrosis gene has a "housekeeping"-type promoter and is expressed atlow levels in cells of epithelial origin. Yoshimura K, Nakamura H, Trapnell BC, Dalemans W, Pavirani A, Lecocq JP,Crystal RG. J Biol Chem. 1991 May 15;266(14):9140-4. (shown as 100 bp regions) click to see abstract ☞

• 183626 183726 (1; DNase_I_HS_Koh)

Characterization of the cystic fibrosis transmembrane conductance regulatorpromoter region. Chromatin context and tissue-specificity.Koh J, Sferra TJ, Collins FS. J Biol Chem 1993 Jul 25;268(21):15912-21

(shown as 100 bp regions) click to see abstract ☞

• 183757 184599 (1; Regulatory)

CFTR promoter Characterization of the promoter region of the cystic fibrosis transmembraneconductance regulator gene. Chou JL, Rozmahel R, Tsui LC. J Biol Chem 1991 Dec 25;266(36):24471-6 ☞

• 183757 184138 (2; Regulatory)

negative element Characterization of the promoter region of the cysticfibrosis transmembraneconductance regulator gene. Chou JL, Rozmahel R, Tsui LC. J Biol Chem 1991 Dec 25;266(36):24471-6 ☞

• 184026 184126 (3; DNase_I_HS_Koh)
Characterization of the cystic fibrosis transmembrane conductance regulatorpromoter region. Chromatin context and tissue-specificity.Koh J, Sferra TJ, Collins FS. J Biol Chem 1993 Jul 25;268(21):15912-21
(shown as 100 bp regions) click to see abstract ☞

• 184226 184326 (2; DNase_I_HS_Koh)
Characterization of the cystic fibrosis transmembrane conductance regulatorpromoter region. Chromatin context and tissue-specificity.Koh J, Sferra TJ, Collins FS. J Biol Chem 1993 Jul 25;268(21):15912-21
(shown as 100 bp regions) click to see abstract ☞

• 184275 184375 (3; DNase_I_HS)

The cystic fibrosis gene has a "housekeeping"-type promoter and is expressed atlow levels in cells of epithelial origin. Yoshimura K, Nakamura H, Trapnell BC, Dalemans W, Pavirani A, Lecocq JP,Crystal RG. J Biol Chem. 1991 May 15;266(14):9140-4. (shown as 100 bp regions) click to see abstract ☞

• 184374 184475 (2; Regulatory)

The cystic fibrosis gene has a "housekeeping"-type promoter and is expressed at low levels in cells of epithelial origin. Yoshimura K, Nakamura H, Trapnell BC, Dalemans W, Pavirani A, Lecocq JP, CrystalRG. J Biol Chem 1991 May 15;266(14):9140-4 click to see abstract ☞

• 184428 184436 (3; Regulatory)

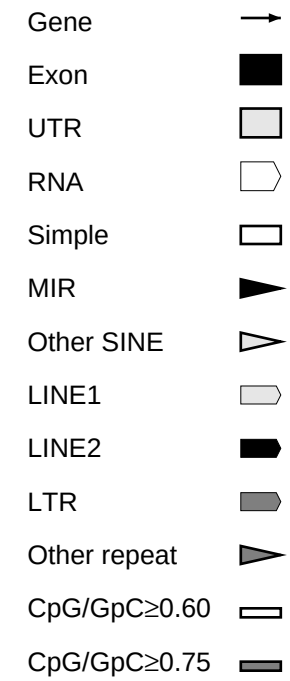
Basal expression of the cystic fibrosis transmembrane conductance regulator geneis dependent on protein kinase A activity. McDonald RA, Matthews RP, Idzerda RL, McKnight GS. Proc Natl Acad Sci U S A 1995 Aug 1;92(16):7560-4. click to see abstract ☞

click to see full text ☞

Characterization of the cAMP response element of the cystic fibrosis-transmembrane conductance regulator gene promoter.Matthews RP, McKnight GS. J Biol Chem 1996 Dec 13;271(50):31869-77. click to see abstract ☞

click to see full text ☞

- 184526 184626 (2; DNase_I_HS_Koh)
  Characterization of the cystic fibrosis transmembrane conductance regulatorpromoter region. Chromatin context and tissue-specificity.Koh J, Sferra TJ, Collins FS. J Biol Chem 1993 Jul 25;268(21):15912-21 (shown as 100 bp regions) click to see abstract ☞



CFTR

Thu Jul 12 21:49:43 EDT 2001
http://bio.cse.psu.edu/pipmaker/

Annotations legend

- DNase_I_HS : Green
- LocusLink : Blue
- Regulatory : Orange
- DNase_I_HS_Koh : Cyan
- PubMed : Red

Underlays legend

- fwd_exon : LightBlue
- fwd_UTR : LightOrange
- rev_exon : LightBlue
- rev_UTR : LightOrange
- intron : LightYellow
- DNase_I_HS : LightGreen
- Y_box : Gray
- promoter : LightPink
- AP1 : Orange
- SP : Cyan
- NFKb : Purple
- Cre : Blue
- CNS_90 : Red
- CNS_80 : LightRed
- CNS_70 : Pink
- fwd_exon : LightBlue
- fwd_UTR : LightOrange
- rev_exon : LightBlue
- rev_UTR : LightOrange
- intron : LightYellow
- DNase_I_HS : LightGreen
- Y_box : Gray
- promoter : LightPink
- AP1 : Orange
- SP : Pink
- NFKb : Purple
- Cre : Blue