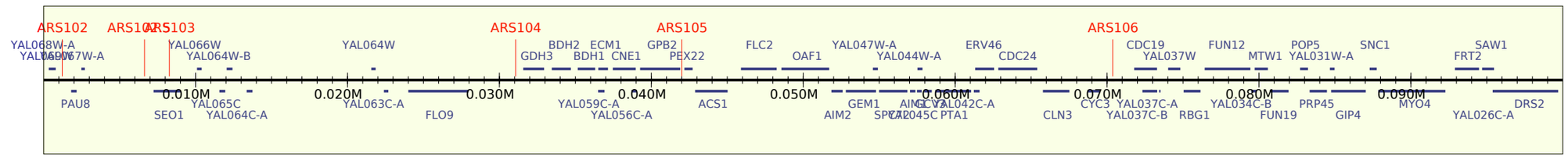
Data S2. Genome-wide association of Smc2-3HA in cdc20-depletion arrests in the absence of nocodazole.

chrI

genes



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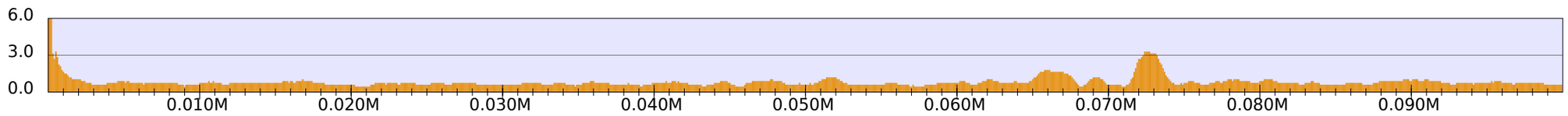
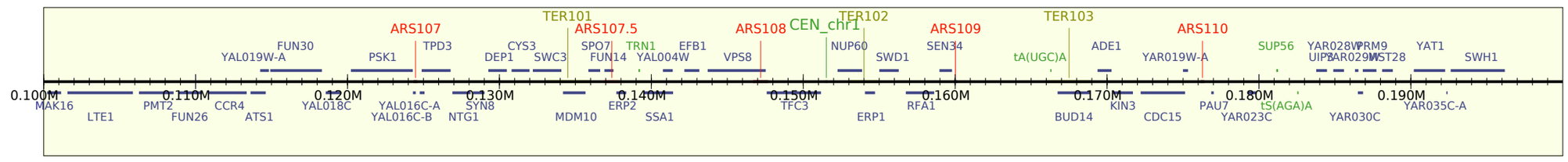


genes



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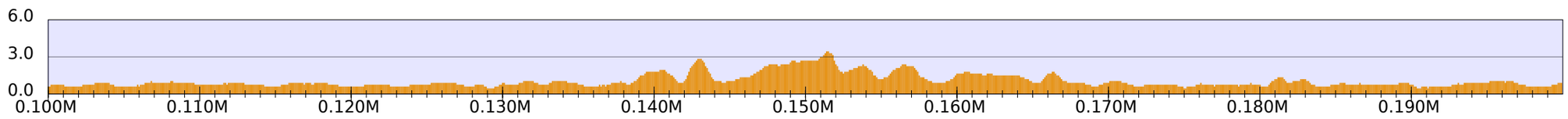
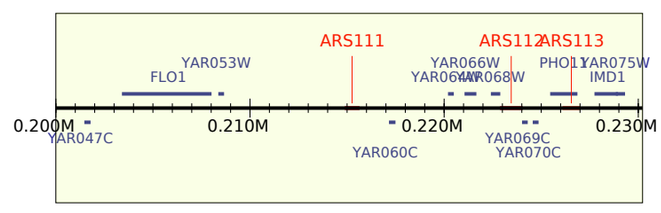


genes



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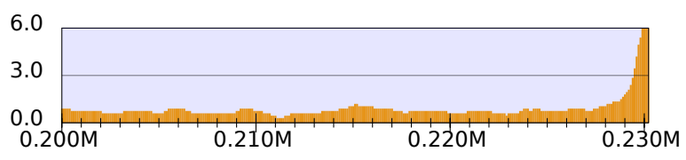
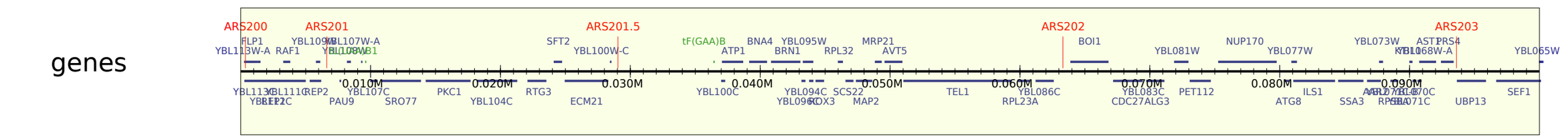
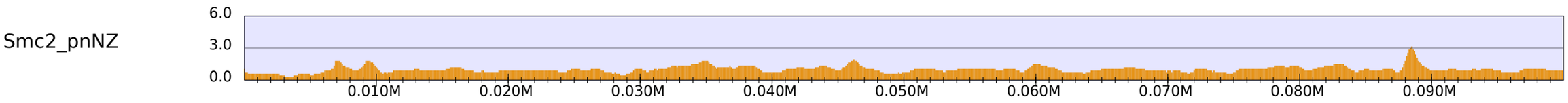
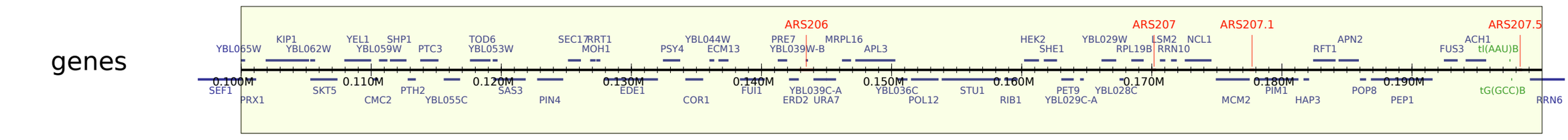


chrII_1


genes
ARS200
ARS201
ARS201.5
ARS202
ARS203
0.010M
0.020M
0.030M
0.040M
0.050M
0.060M
0.070M
0.080M
0.090M


Smc2_pnNZ
6.0
3.0
0.0
0.010M
0.020M
0.030M
0.040M
0.050M
0.060M
0.070M
0.080M
0.090M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ARS207
ARS207.1
ARS207.5
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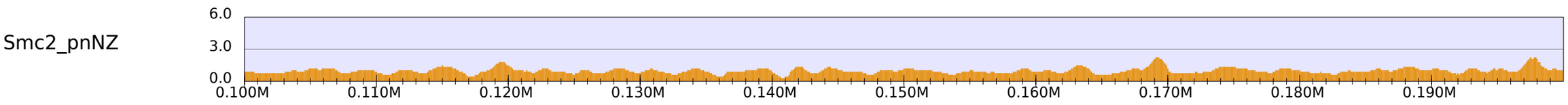
0.120M
0.130M
0.140M
0.150M
0.160M
0.170M
0.180M
0.190M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0.120M
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0.160M
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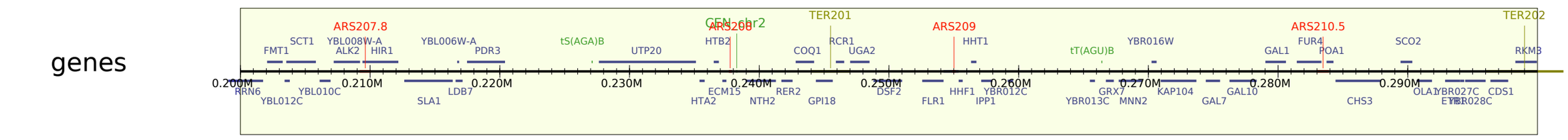
0.190M


genes
ARS207.8
CEN-chr2
ARS208
TER201
ARS209
ARS210.5
TER202
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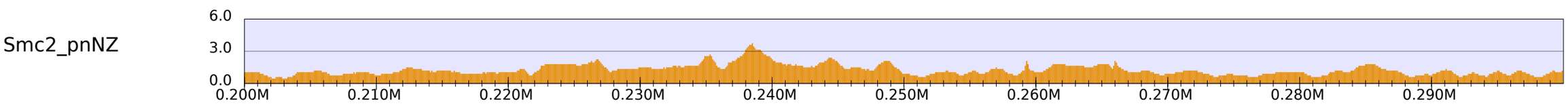
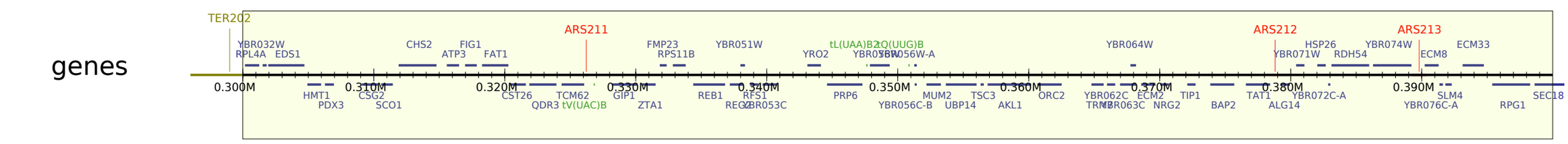
0.210M
0.220M
0.230M
0.240M
0.250M
0.260M
0.270M
0.280M
0.290M


Smc2_pnNZ
6.0
3.0
0.0
0.200M
0.210M
0.220M
0.230M
0.240M
0.250M
0.260M
0.270M
0.280M
0.290M


genes
TER202
ARS211
ARS212
ARS213
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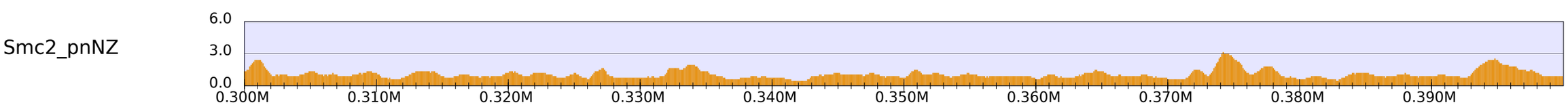
0.310M
0.320M
0.330M
0.340M
0.350M
0.360M
0.370M
0.380M
0.390M


Smc2_pnNZ
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3.0
0.0
0.300M
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0.320M
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0.340M
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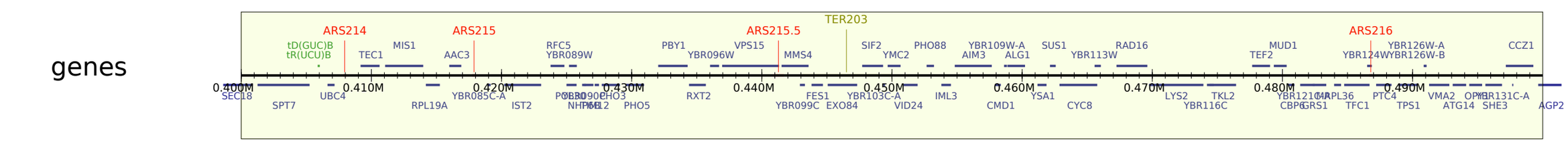
0.360M
0.370M
0.380M
0.390M


genes
ARS214
ARS215
ARS215.5
TER203
ARS216
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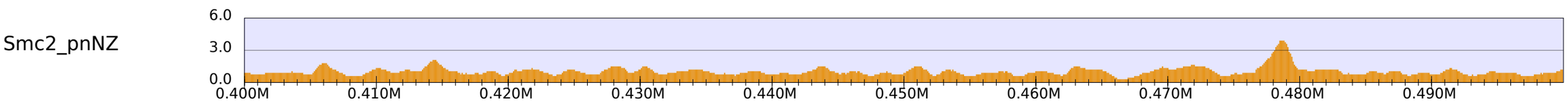
0.420M
0.430M
0.440M
0.450M
0.460M
0.470M
0.480M
0.490M


Smc2_pnNZ
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3.0
0.0
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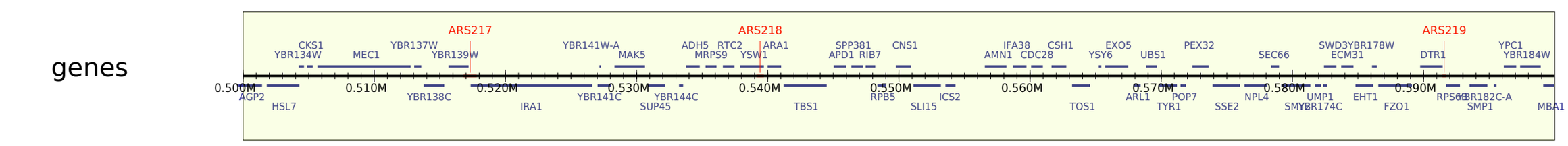
0.410M
0.420M
0.430M
0.440M
0.450M
0.460M
0.470M
0.480M
0.490M


genes
ARS217
ARS218
ARS219
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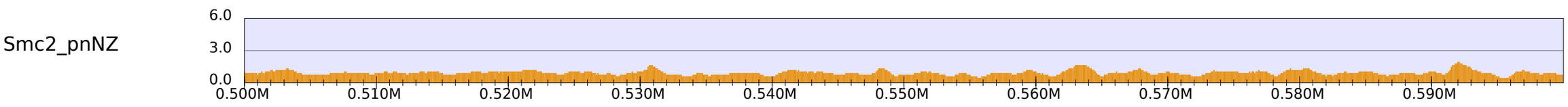
0.510M
0.520M
0.530M
0.540M
0.550M
0.560M
0.570M
0.580M
0.590M


Smc2_pnNZ
6.0
3.0
0.0
0.500M
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0.520M
0.530M
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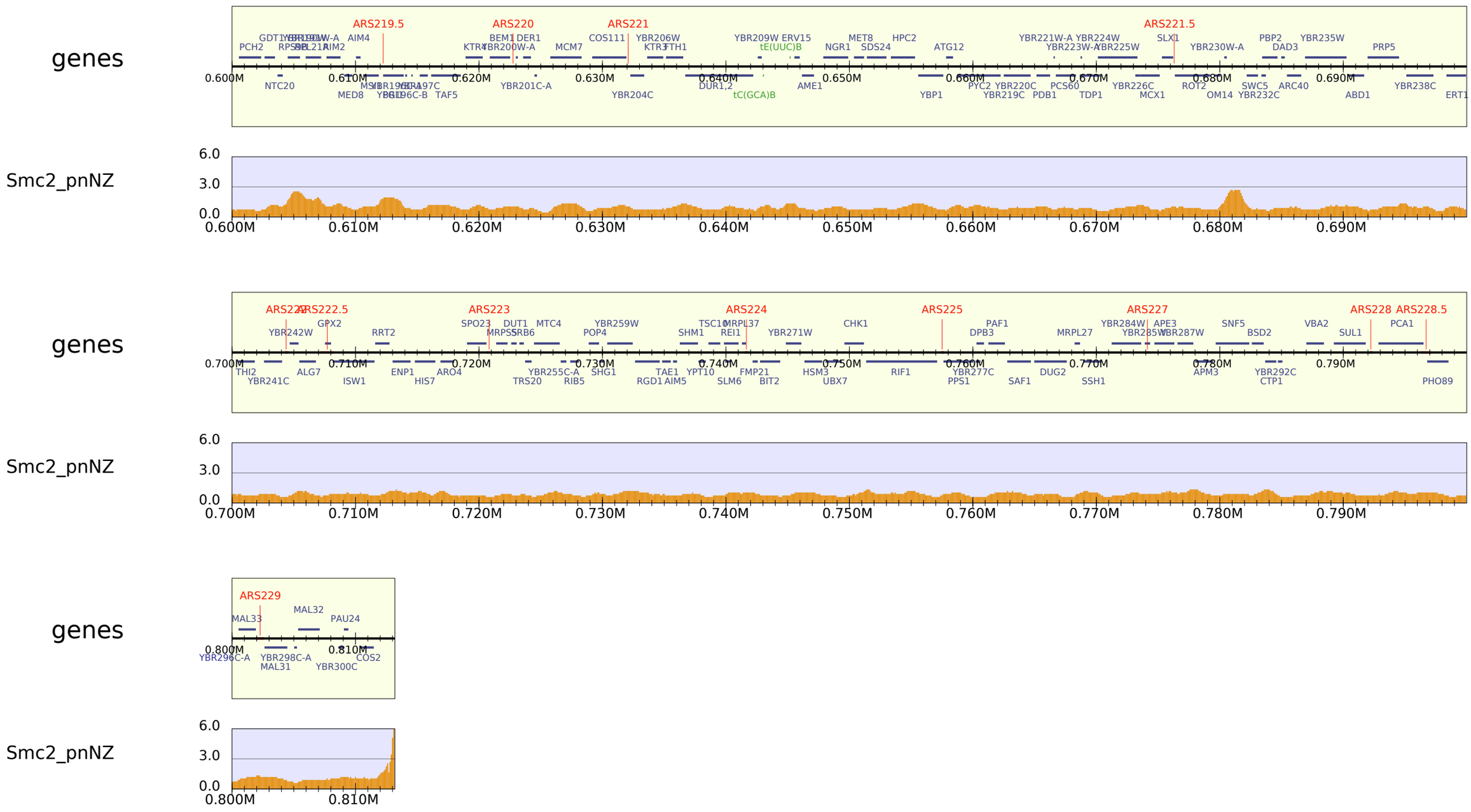
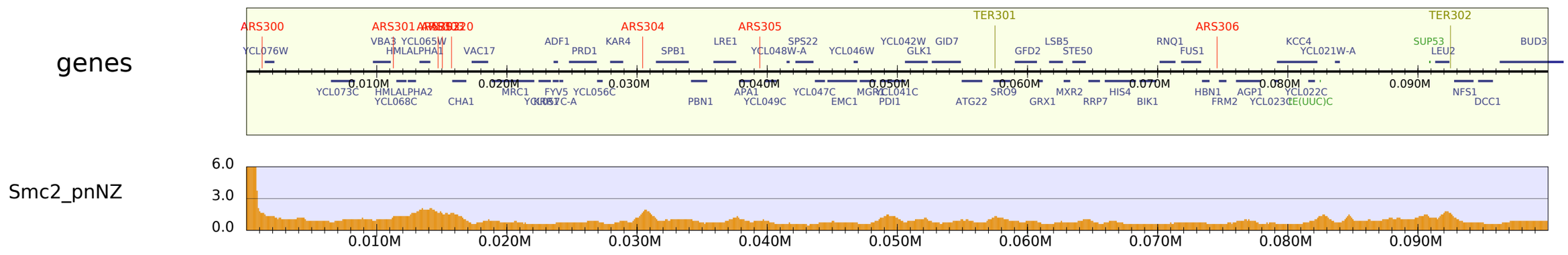
0.560M
0.570M
0.580M
0.590M

chrII_2


genes
ARS219.5
ARS220
ARS221
ARS221.5
Smc2_pnNZ
6.0
3.0
0.0
0.600M
0.610M
0.620M
0.630M
0.640M
0.650M
0.660M
0.670M
0.680M
0.690M
genes
ARS222
ARS222.5
ARS223
ARS224
ARS225
ARS227
ARS228
ARS228.5
Smc2_pnNZ
6.0
3.0
0.0
0.700M
0.710M
0.720M
0.730M
0.740M
0.750M
0.760M
0.770M
0.780M
0.790M
genes
ARS229
MAL33
MAL32
PAU24
0.800M
0.810M
YBR296C-A
YBR298C-A
MAL31
YBR300C
COS2
Smc2_pnNZ
6.0
3.0
0.0
0.800M
0.810M

chrIII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ARS301
ARS304
ARS305
ARS306
TER301
TER302
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VBA3
HMLALPHA1
YCL065W
VAC17
ADF1
PRD1
KAR4
SPB1
LRE1
YCL048W-A
SPS22
YCL046W
YCL042W
GLK1
GID7
GFD2
LSB5
STE50
RNQ1
FUS1
KCC4
YCL021W-A
SUP53
LEU2
BUD3
YCL073C
HMLALPHA2
YCL068C
CHA1
MRC1
FYV5
YCL056C
PBN1
APA1
YCL049C
YCL047C
EMC1
PDI1
ATG22
SRO9
GRX1
MXR2
RRP7
HIS4
BIK1
HBN1
FRM2
AGP1
YCL022C
NFS1
DCC1
6.0
3.0
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0.040M
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0.060M
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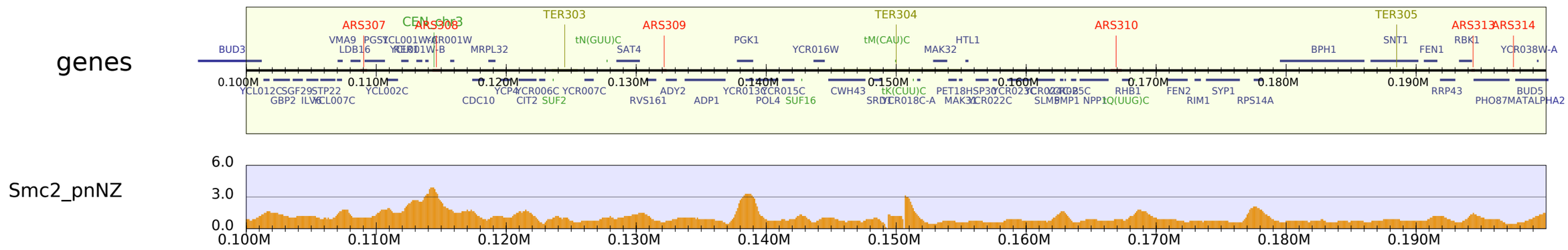
0.090M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ARS308
TER303
ARS309
TER304
ARS310
TER305
ARS313
ARS314
BUD3
VMA9
LDB16
MRPL32
tN(GUU)C
SAT4
PGK1
YCR016W
tM(CAU)C
HTL1
MAK32
BPH1
SNT1
FEN1
RBK1
YCR038W-A
YCL012C
GBP2
YCL007C
YCL002C
CDC10
CIT2
SUF2
RVS161
ADY2
ADP1
POL4
SUF16
CWH43
RHB1
FEN2
SYP1
RIM1
RPS14A
RRP43
BUD5
PHO87
MATALPHA2
6.0
3.0
0.0
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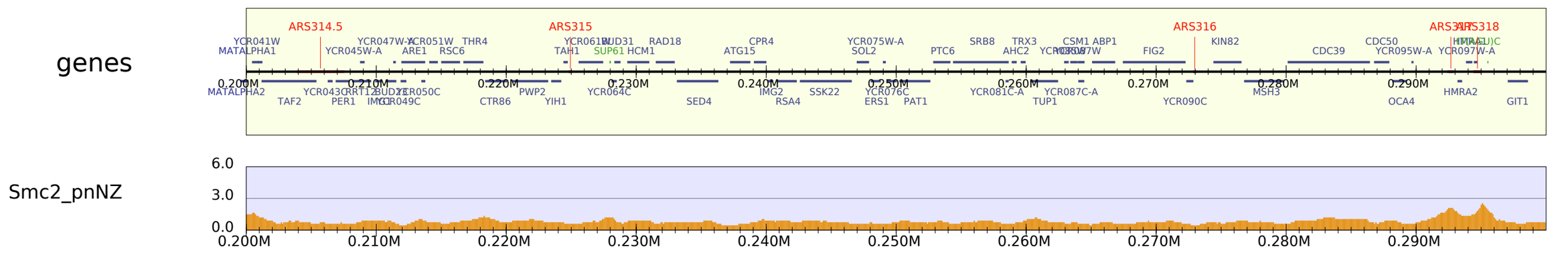
0.180M
0.190M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ARS315
ARS316
ARS317
ARS318
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MATALPHA1
YCR045W-A
ARE1
RSC6
THR4
TAH1
SUP61
HCM1
RAD18
ATG15
CPR4
YCR075W-A
SOL2
PTC6
SRB8
TRX3
AHC2
CSM1
ABP1
FIG2
KIN82
CDC39
CDC50
YCR095W-A
YCR097W-A
MATALPHA2
TAF2
YCR043C
PER1
YCR049C
CTR86
PWP2
YIH1
YCR064C
SED4
IMG2
RSA4
SSK22
YCR076C
ERS1
PAT1
YCR081C-A
YCR087C-A
TUP1
YCR090C
MSH3
OCA4
HMRA2
GIT1
6.0
3.0
0.0
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0.260M
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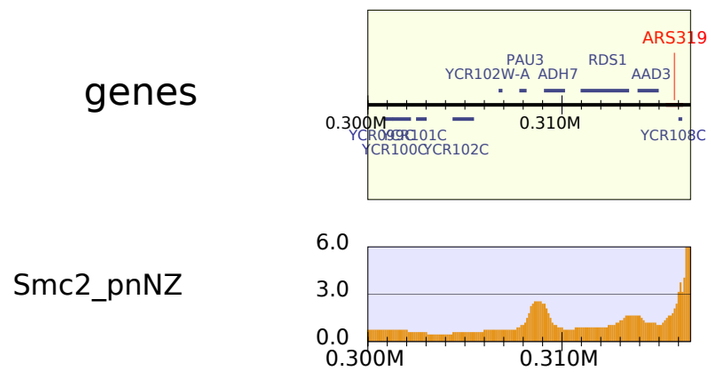
genes
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YCR102W-A
ADH7
RDS1
AAD3
YCR108C
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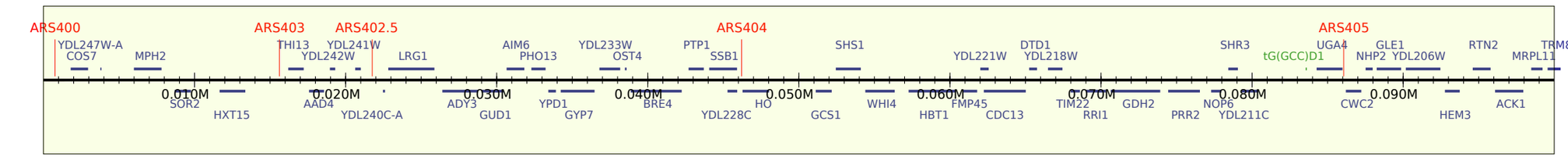
0.310M

chrIV_1

genes



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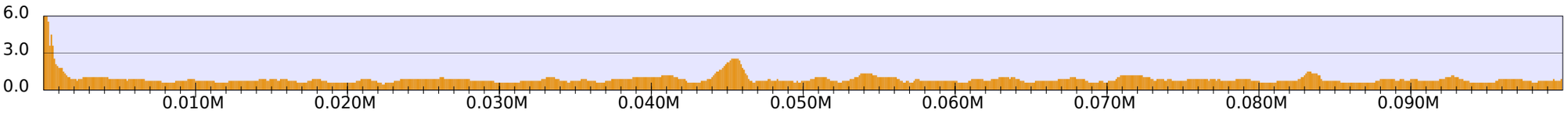
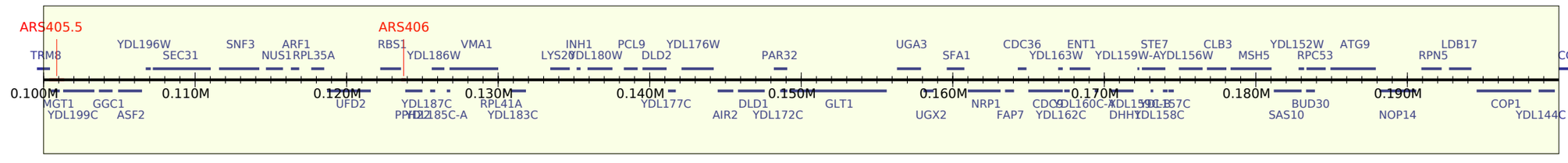


genes



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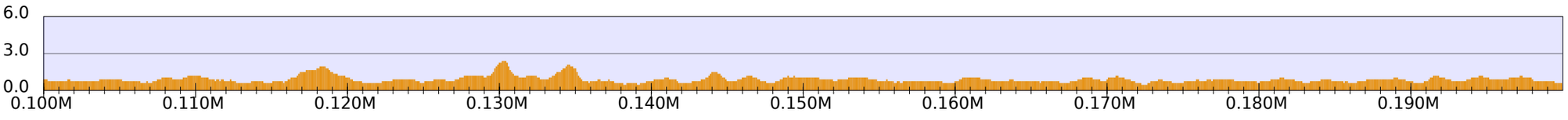
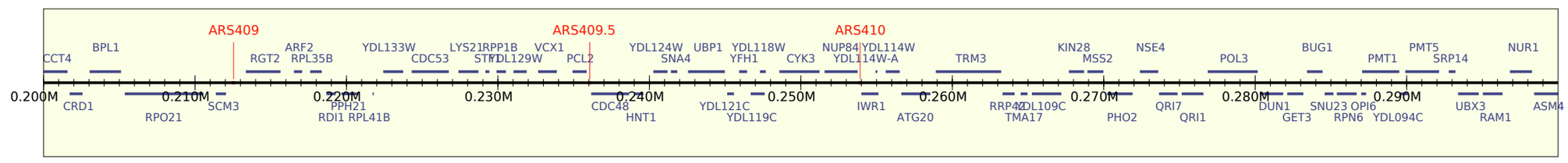


genes



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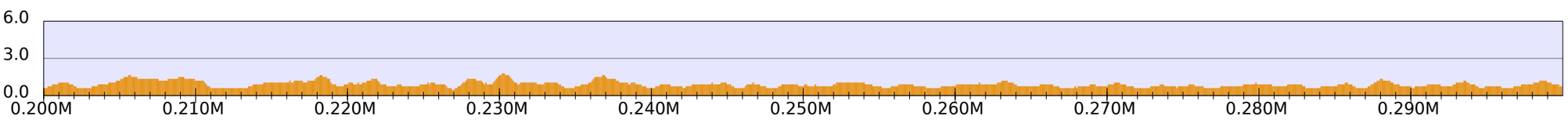
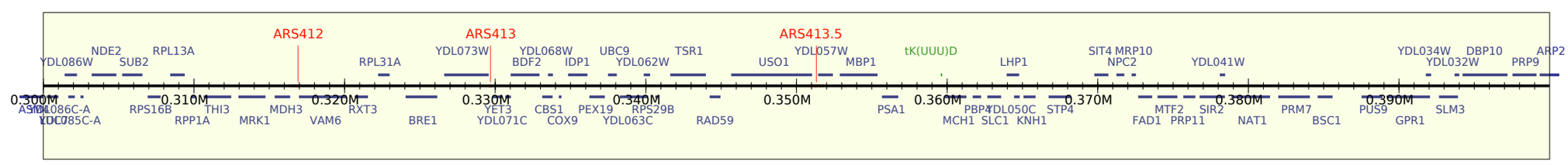


genes



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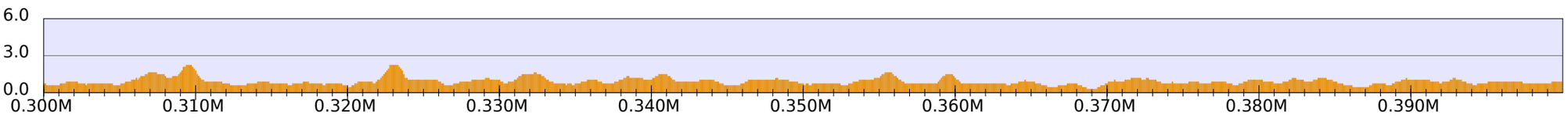
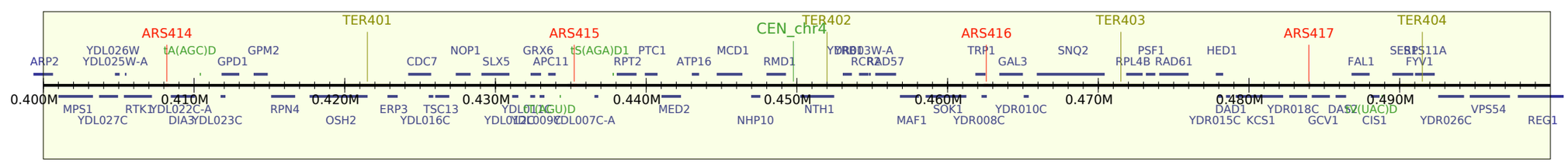


genes



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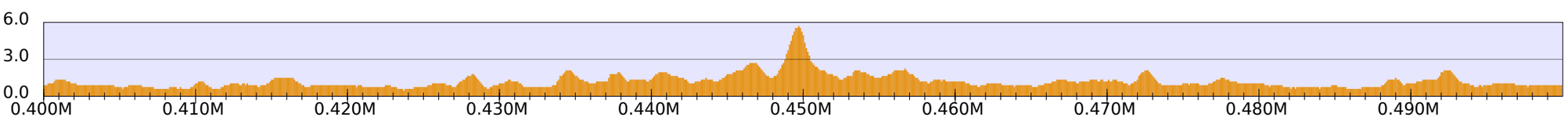
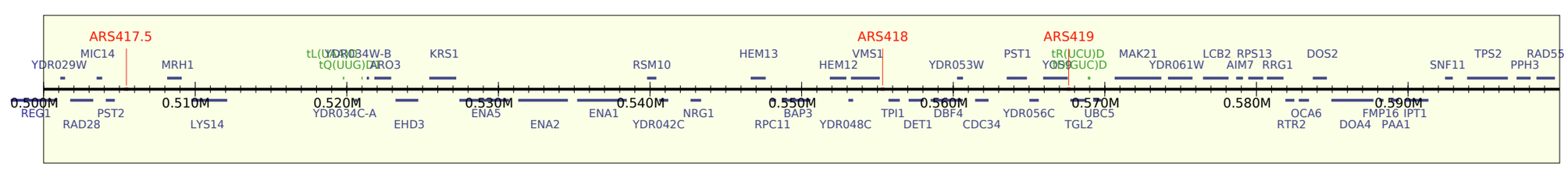


genes



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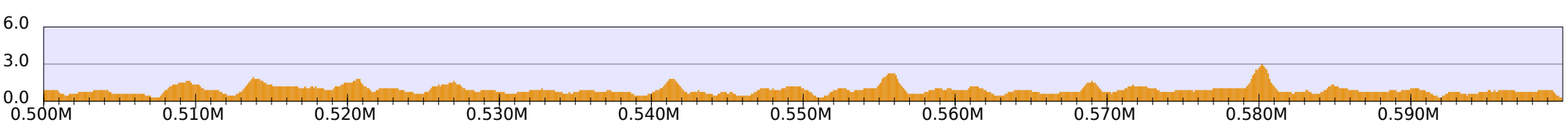
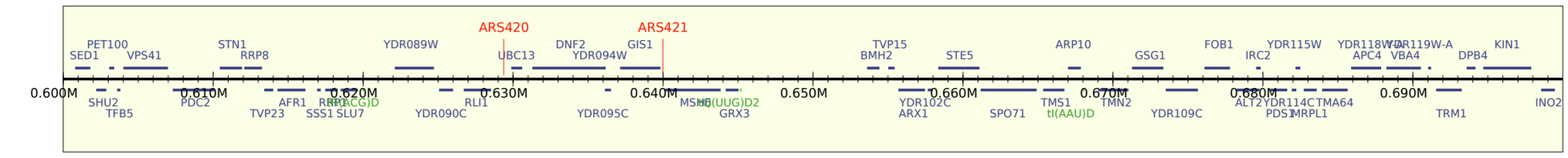


chrIV_2

genes



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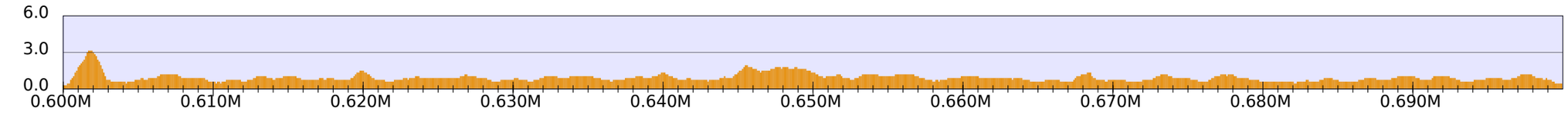
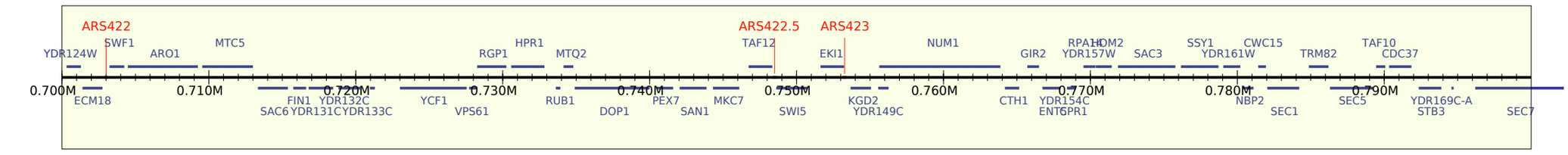
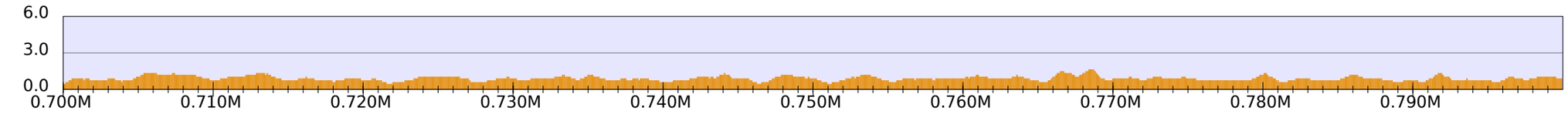


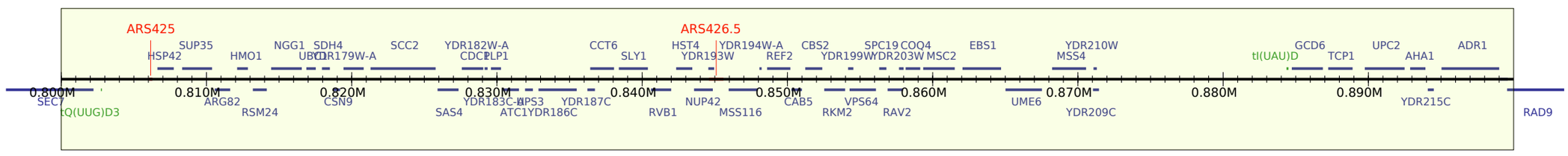
genes



Smc2_pnNZ



genes



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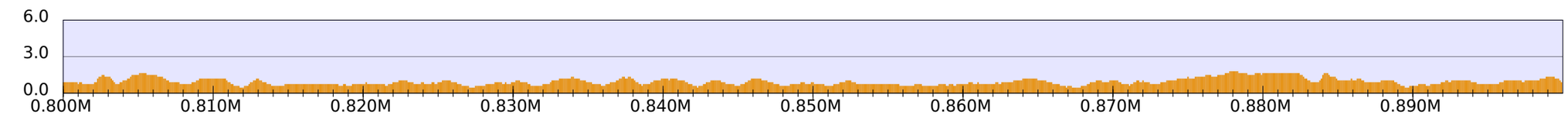

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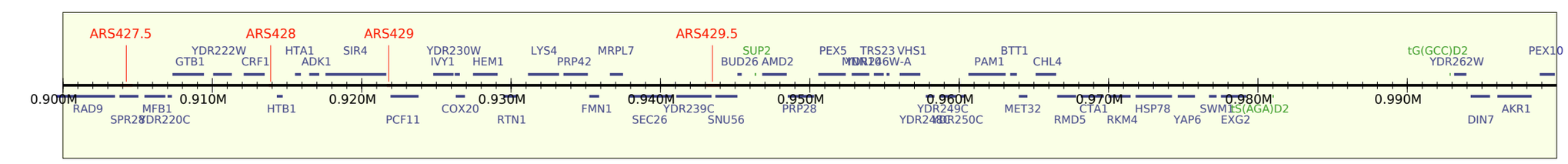

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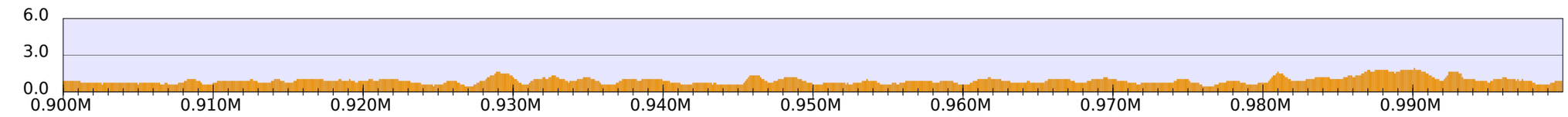

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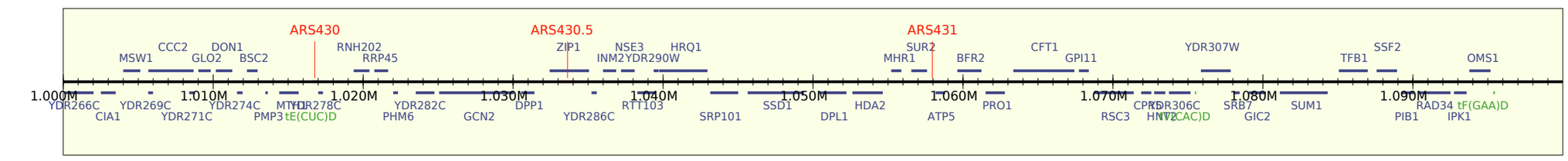

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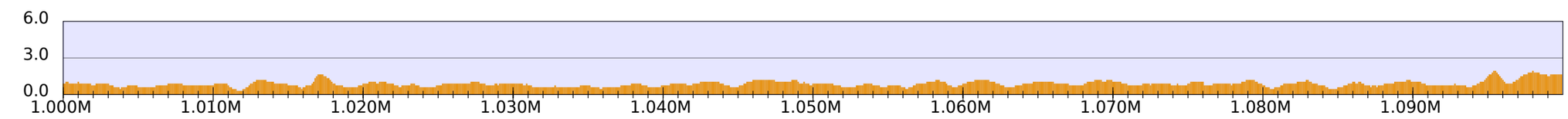

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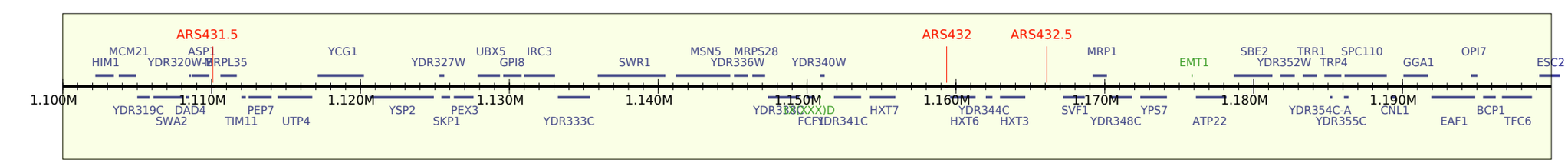

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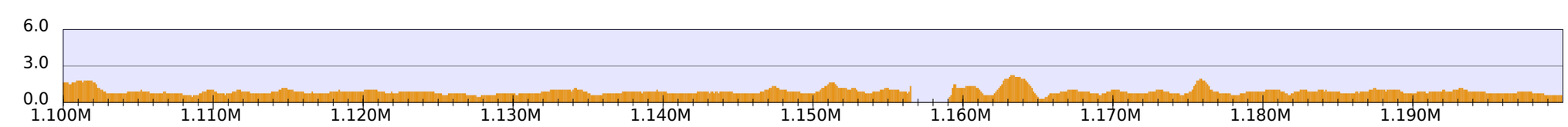
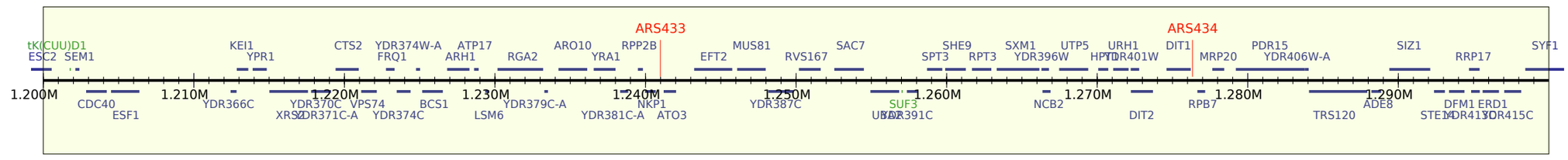


chrIV_3

genes



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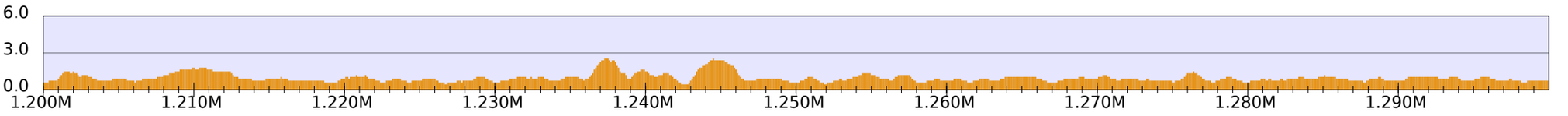

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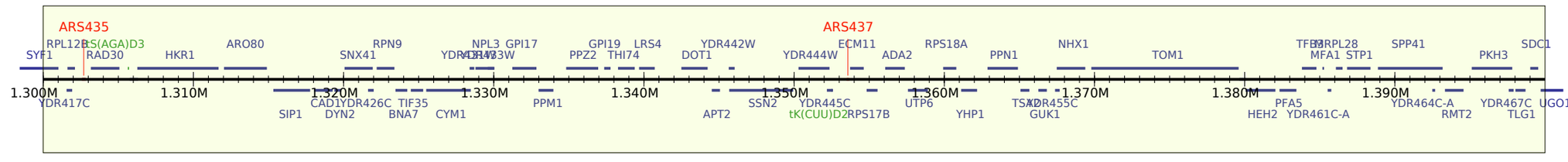

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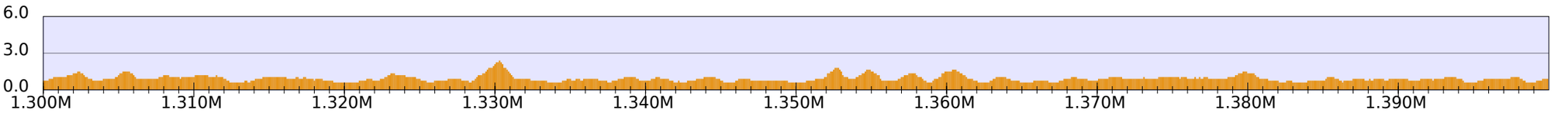

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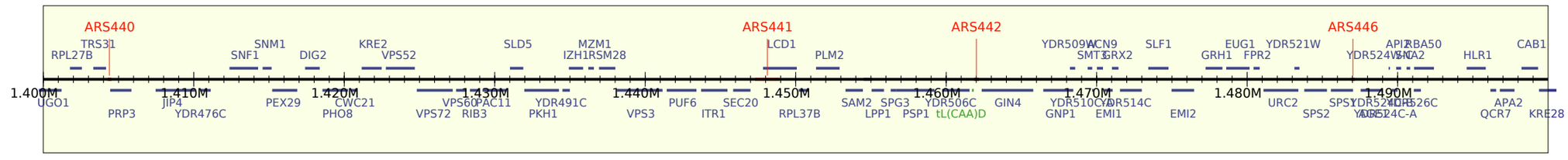

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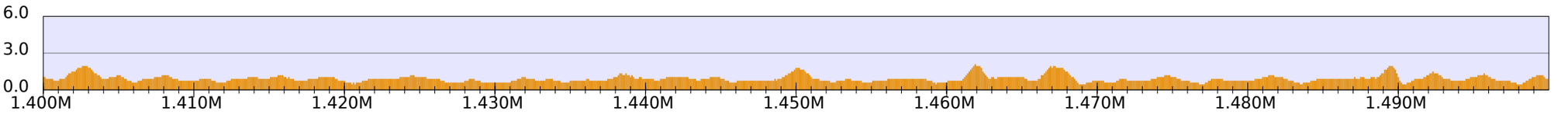

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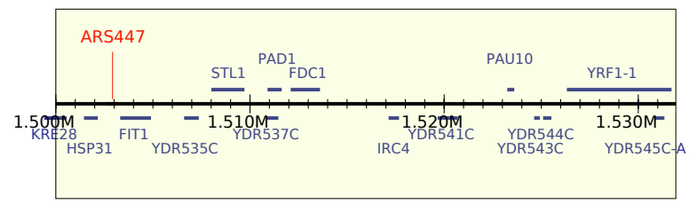

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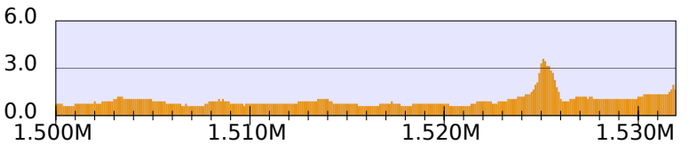
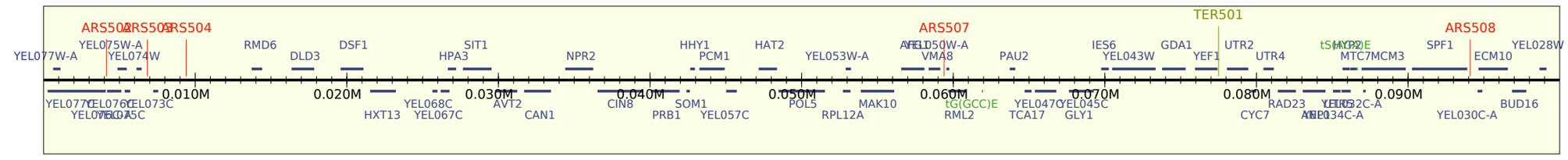


chrV

genes



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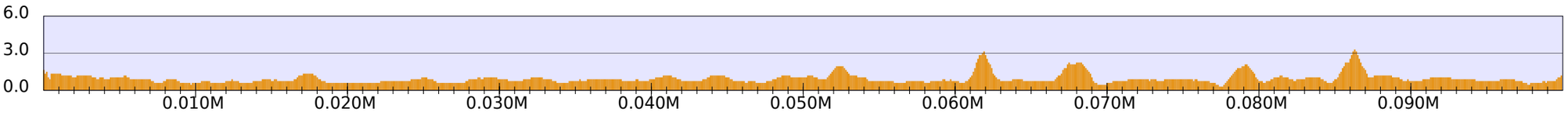

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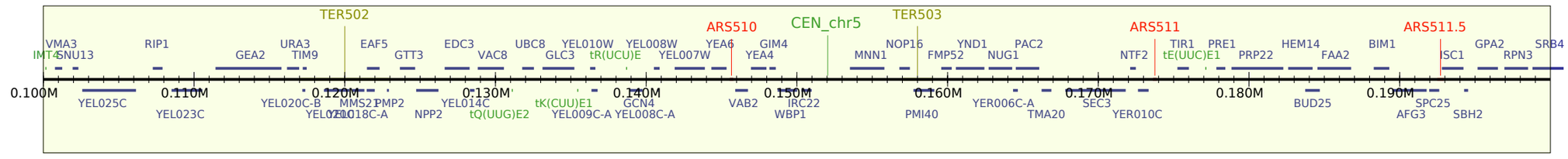

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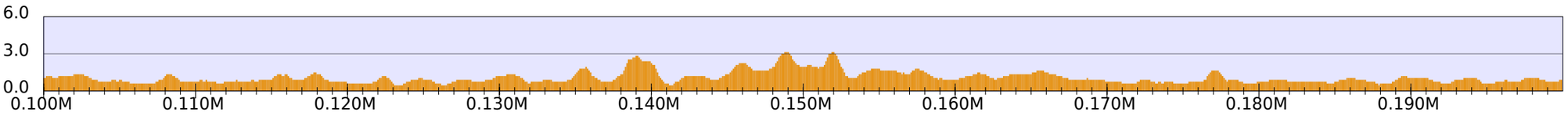

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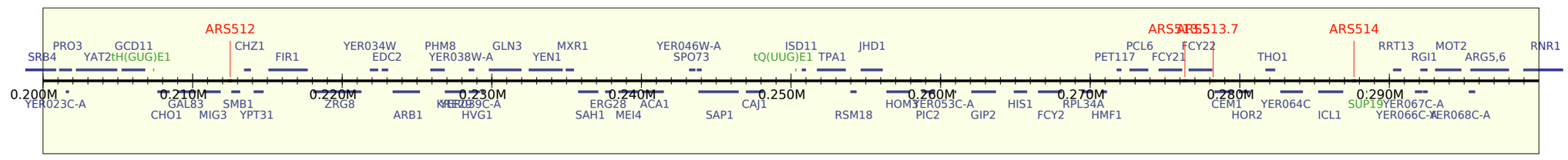

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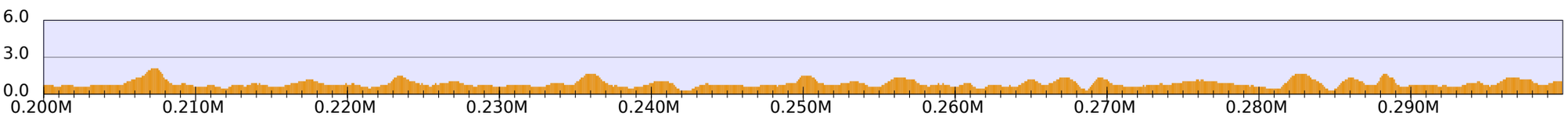
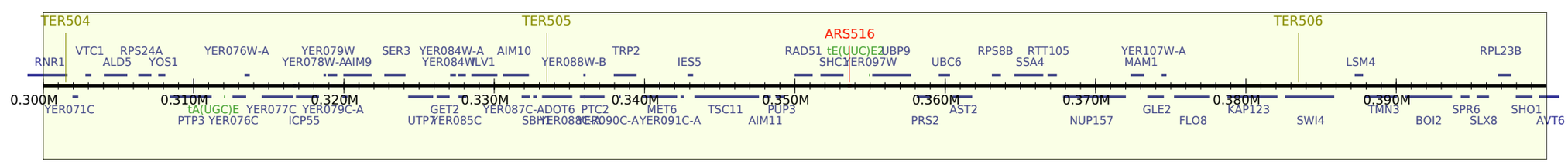


genes



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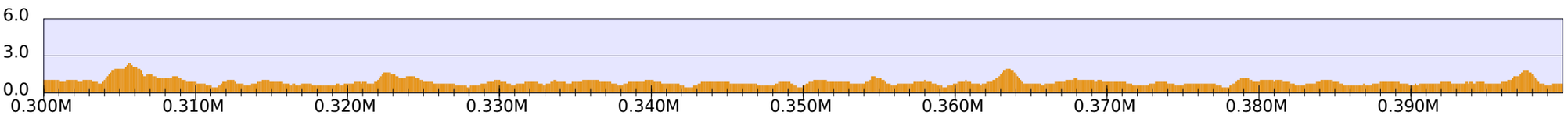
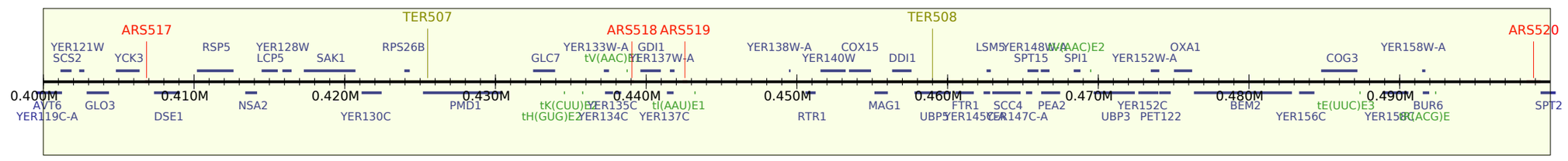


genes



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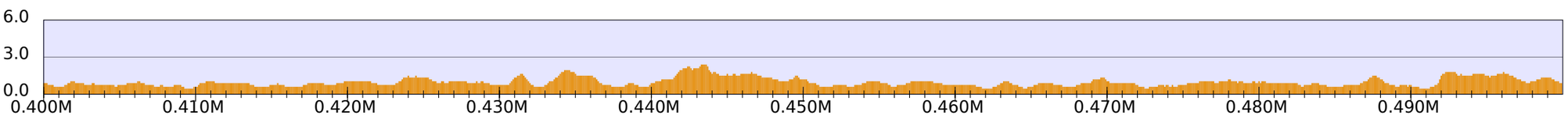
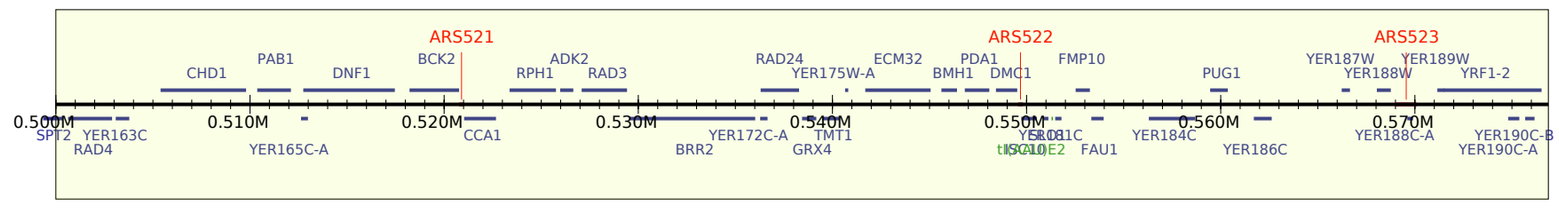


genes



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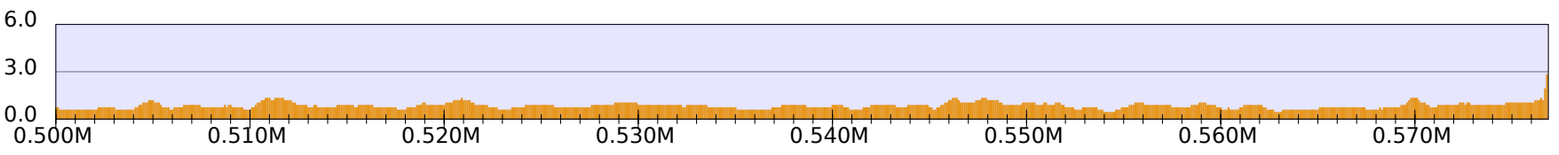
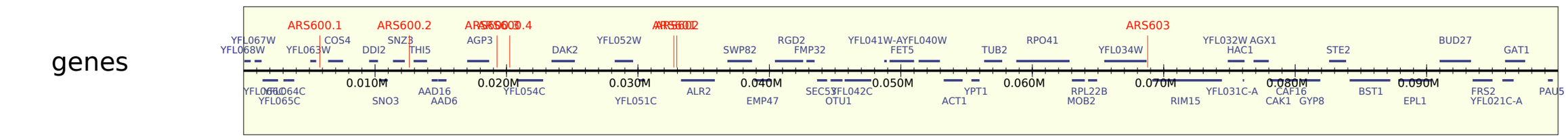


chrVI


genes
ARS600.1
ARS600.2
ARS603
YFL067W
YFL068W
YFL063W
COS4
DDI2
SNZ3
THI5
AGP3
DAK2
YFL052W
SWP82
RGD2
FMP32
YFL041W-A
YFL040W
FET5
TUB2
RPO41
YFL034W
YFL032W
AGX1
HAC1
STE2
BUD27
GAT1
0.010M
0.020M
0.030M
0.040M
0.050M
0.060M
0.070M
0.080M
0.090M
YFL065C
SNO3
AAD16
AAD6
YFL054C
YFL051C
ALR2
EMP47
OTU1
ACT1
YPT1
MOB2
RPL22B
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FRS2
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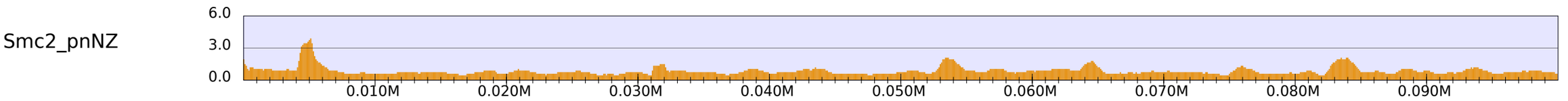
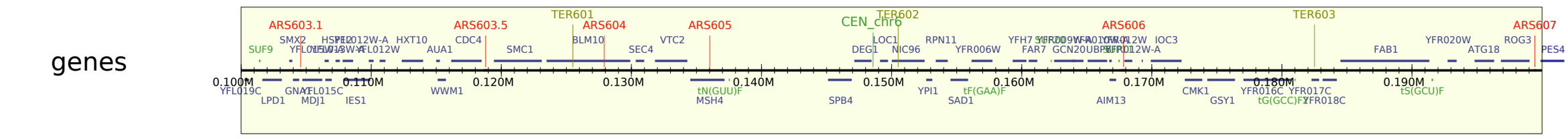
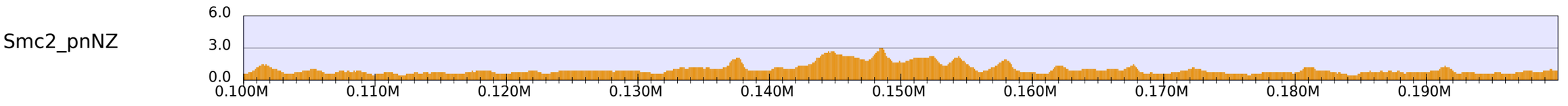

Smc2_pnNZ
6.0
3.0
0.0
0.010M
0.020M
0.030M
0.040M
0.050M
0.060M
0.070M
0.080M
0.090M


genes
ARS603.1
ARS603.5
TER601
ARS604
ARS605
CEN_chro
TER602
ARS606
TER603
ARS607
SUF9
SMX2
CDC4
SMC1
BLM10
SEC4
VTC2
LOC1
DEG1
NIC96
RPN11
YFR006W
YFH7
FAR7
IOC3
FAB1
YFR020W
ATG18
ROG3
PES4
0.100M
0.110M
0.120M
0.130M
0.140M
0.150M
0.160M
0.170M
0.180M
0.190M
YFL019C
LPD1
MDJ1
IES1
WWM1
tN(GUU)F
MSH4
SPB4
YPI1
tF(GAA)F
SAD1
AIM13
CMK1
GSY1
YFR016C
YFR017C
tG(GCC)F
YFR018C
tS(GCU)F


Smc2_pnNZ
6.0
3.0
0.0
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0.110M
0.120M
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0.140M
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0.160M
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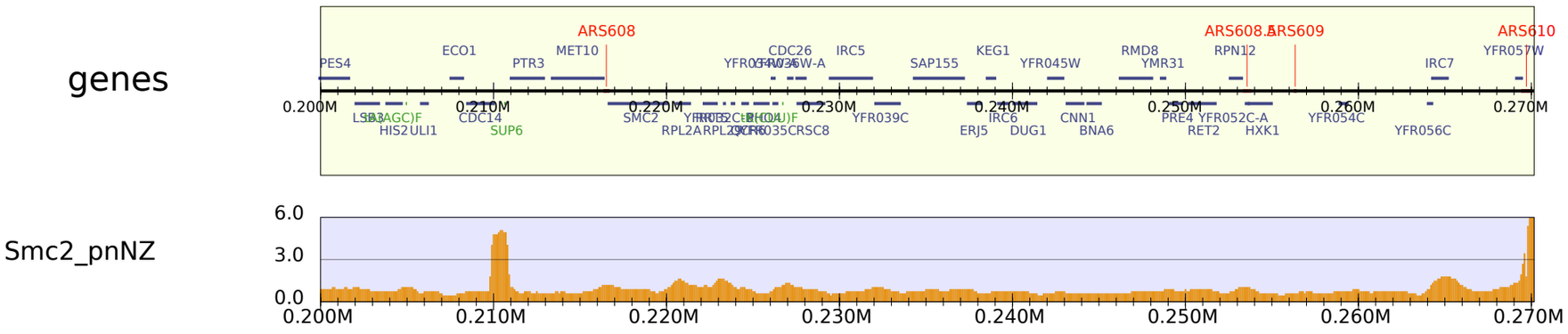
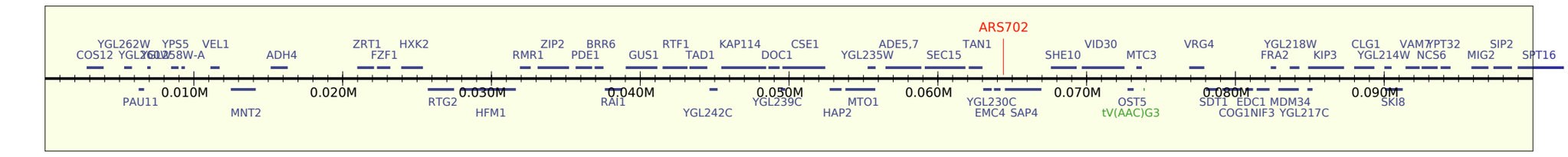
0.180M
0.190M


genes
ARS608
ARS608.5
ARS609
ARS610
PES4
ECO1
PTR3
MET10
CDC26
IRC5
SAP155
KEG1
YFR045W
RMD8
YMR31
RPN12
IRC7
YFR057W
0.200M
0.210M
0.220M
0.230M
0.240M
0.250M
0.260M
0.270M
CDC14
SUP6
SMC2
RPL2A
YFR039C
IRC6
ERJ5
DUG1
CNN1
BNA6
PRE4
RET2
YFR052C-A
HXK1
YFR054C
YFR056C
HIS2
ULI1

Smc2_pnNZ
6.0
3.0
0.0
0.200M
0.210M
0.220M
0.230M
0.240M
0.250M
0.260M
0.270M

chrVII_1

genes



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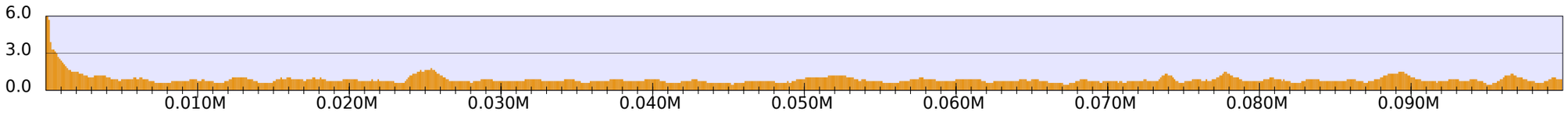
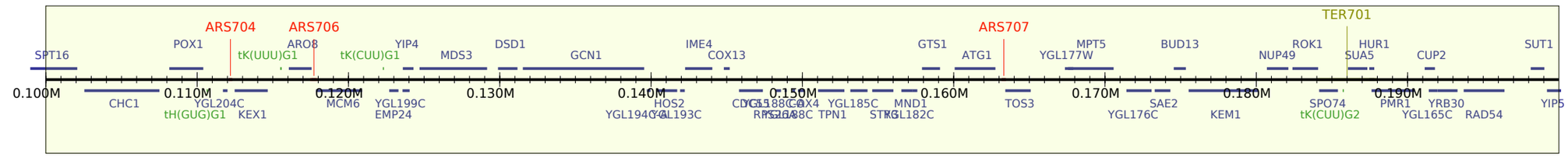


genes



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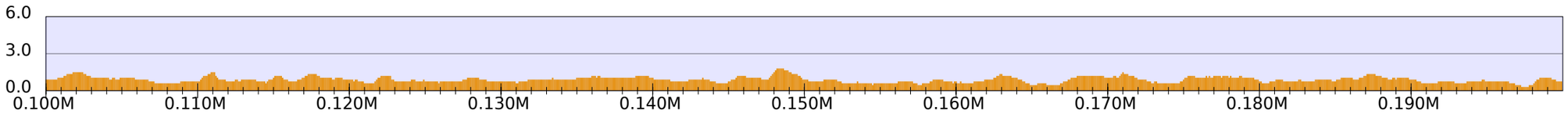
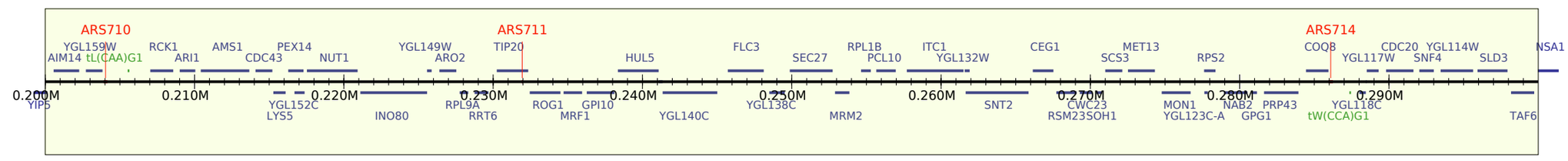


genes



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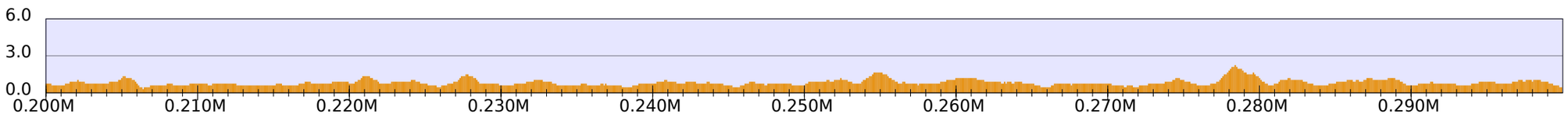
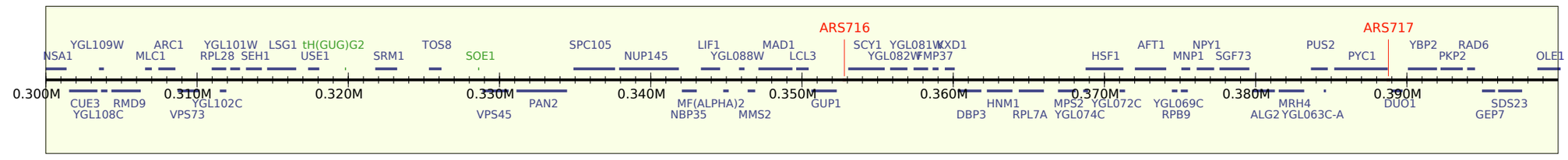


genes



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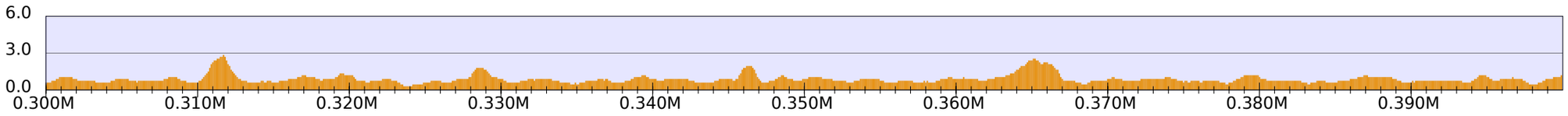
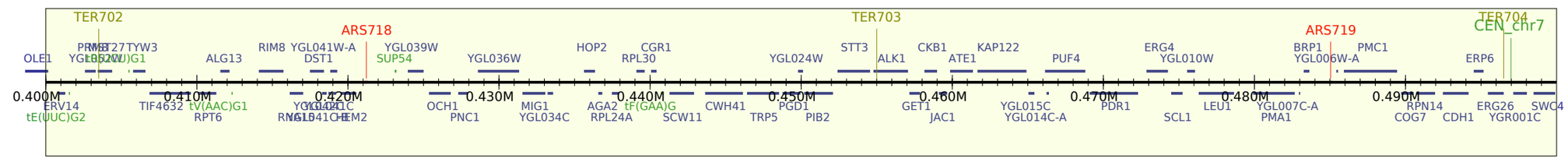


genes



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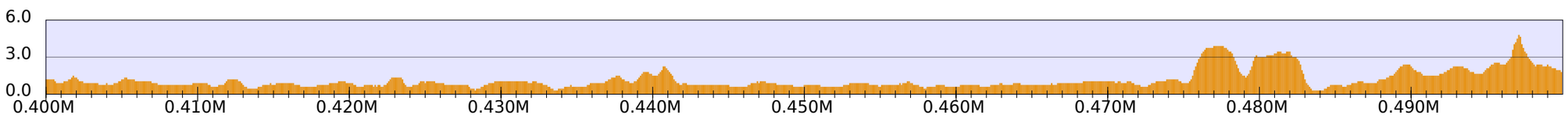
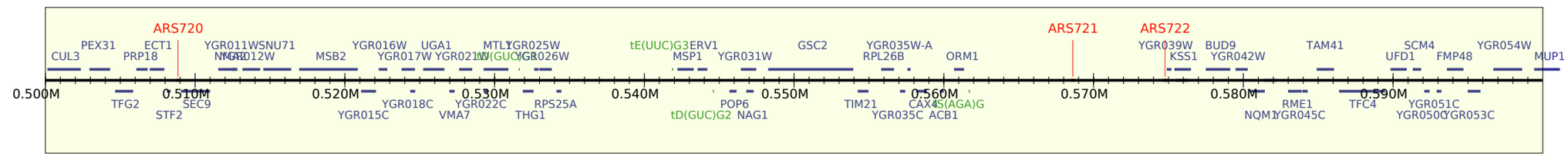


genes



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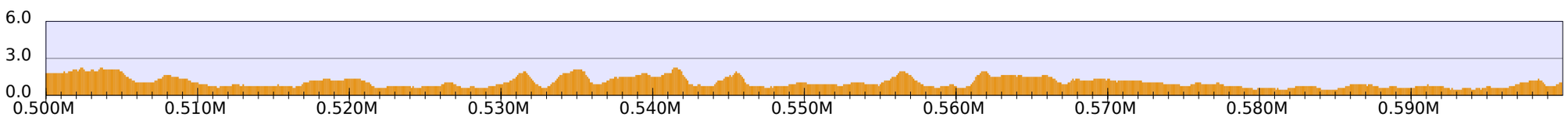
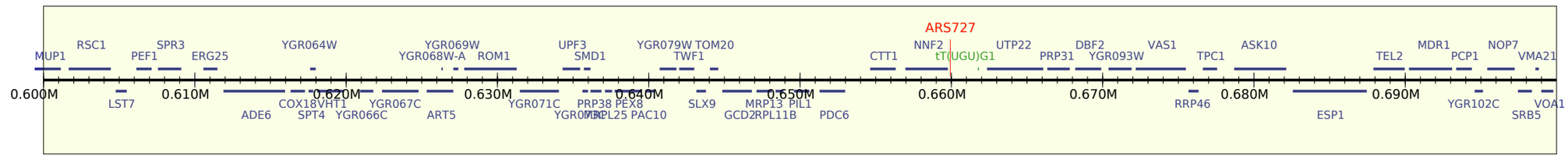


chrVII_2

genes



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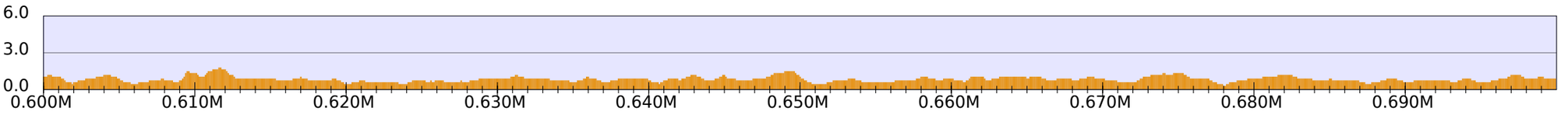

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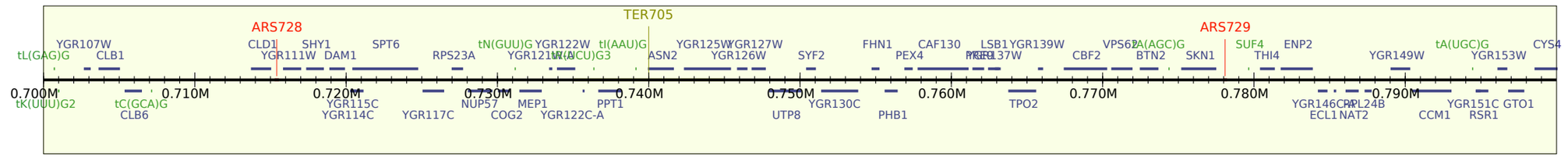

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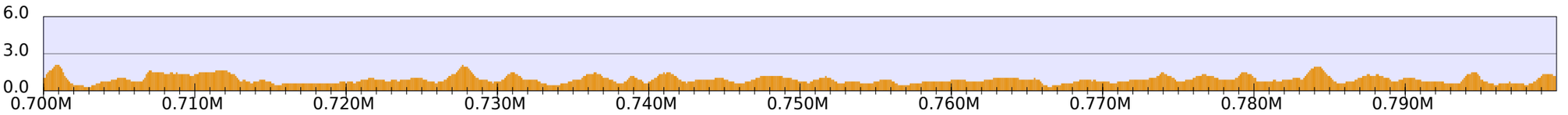

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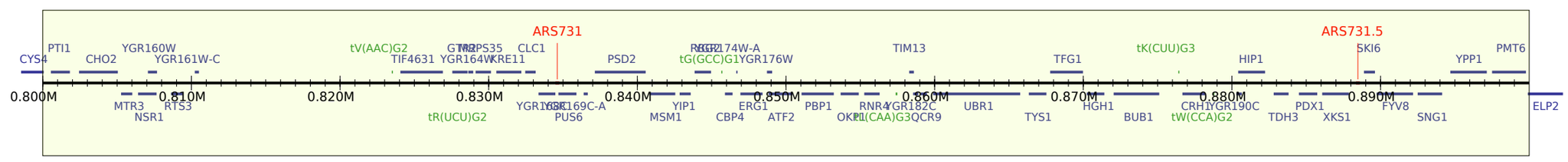

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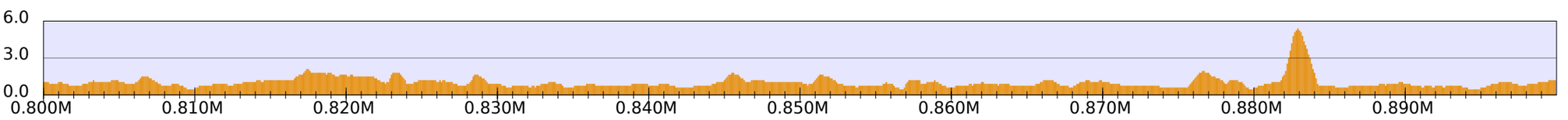

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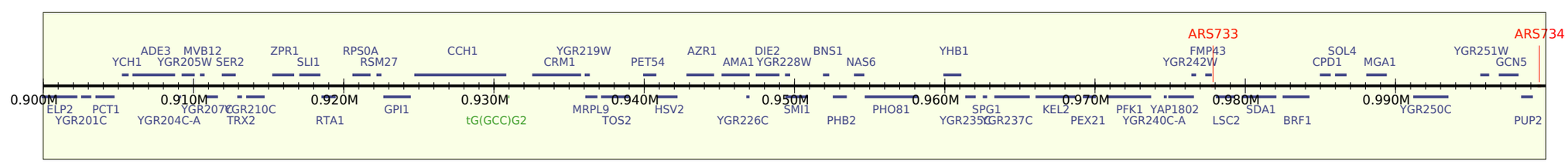

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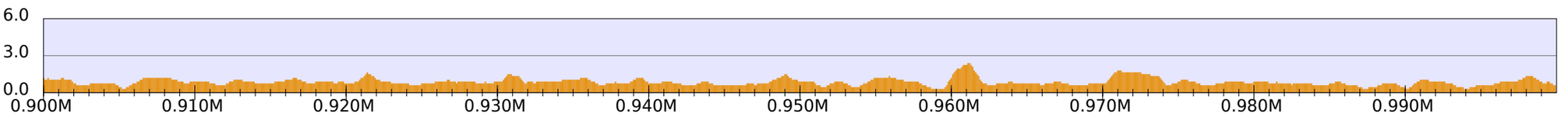

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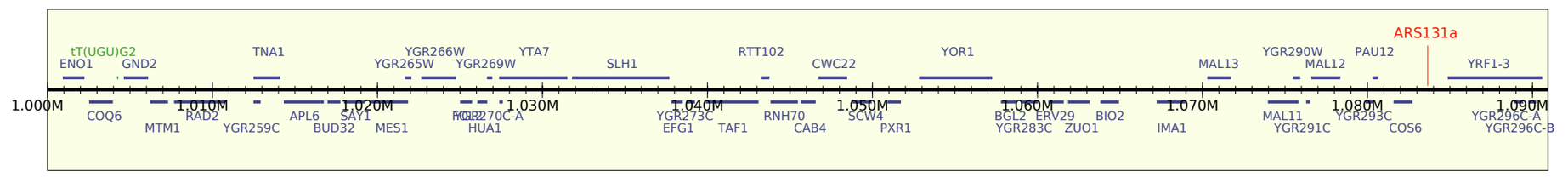

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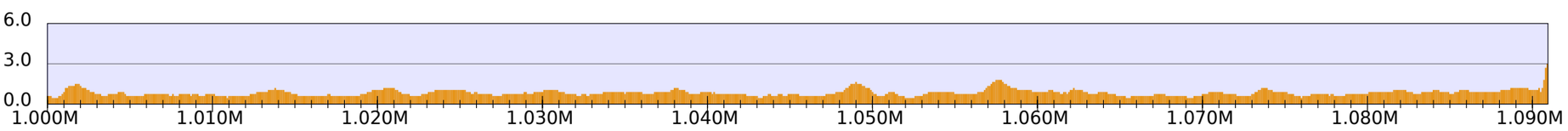
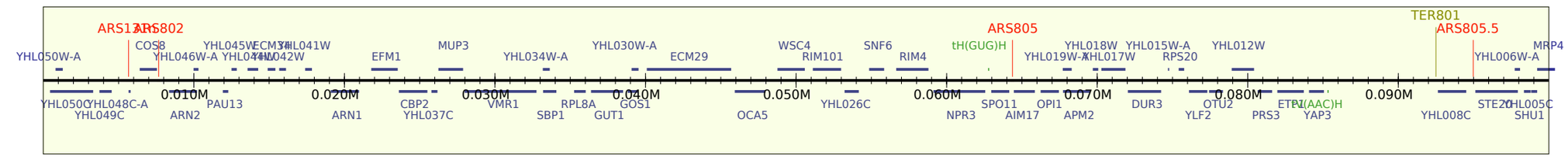


chrVIII

genes



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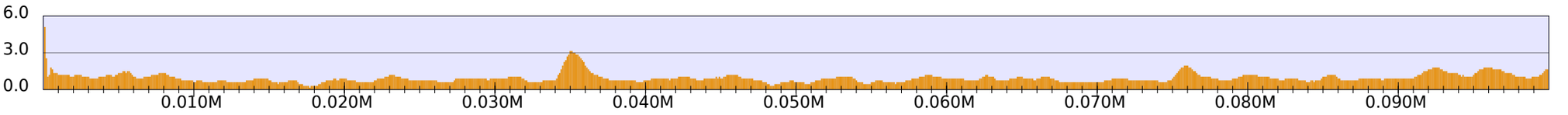

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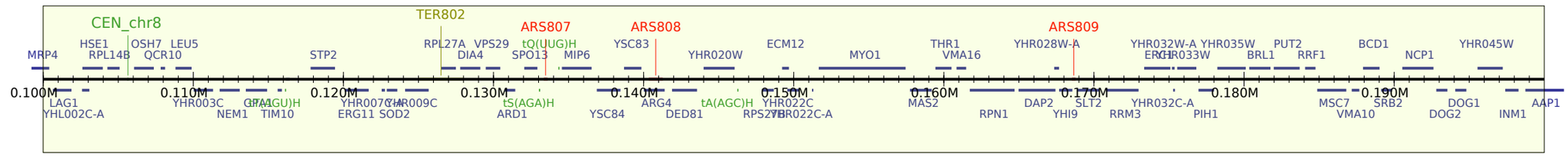

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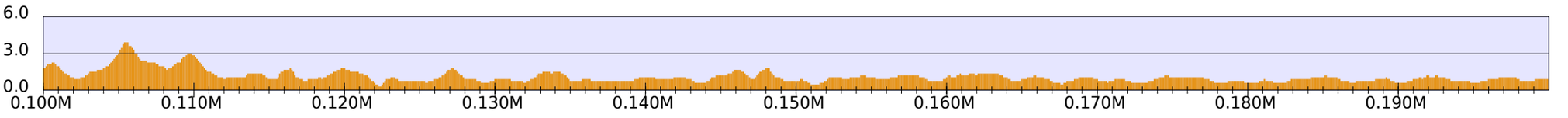

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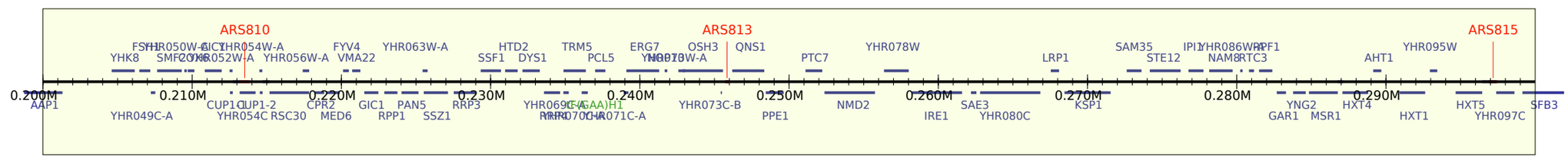

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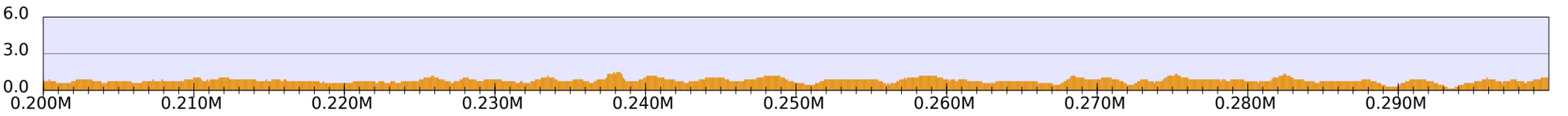

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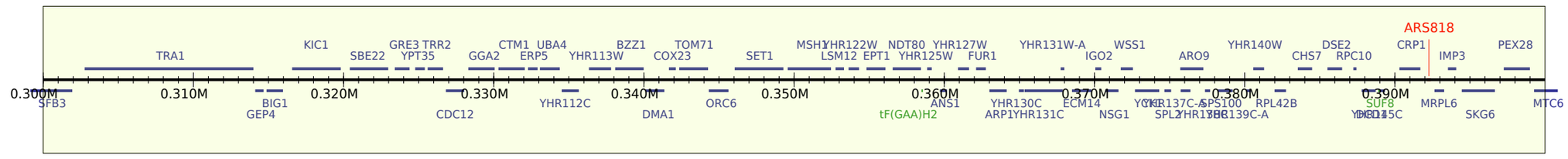

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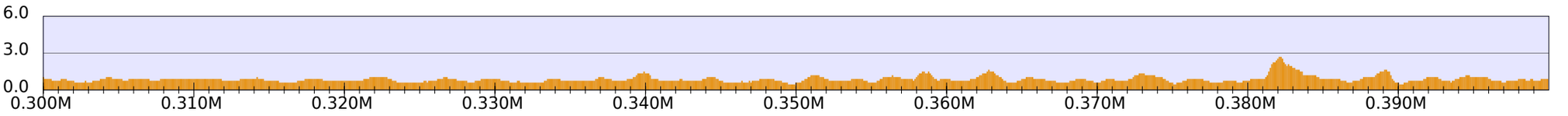

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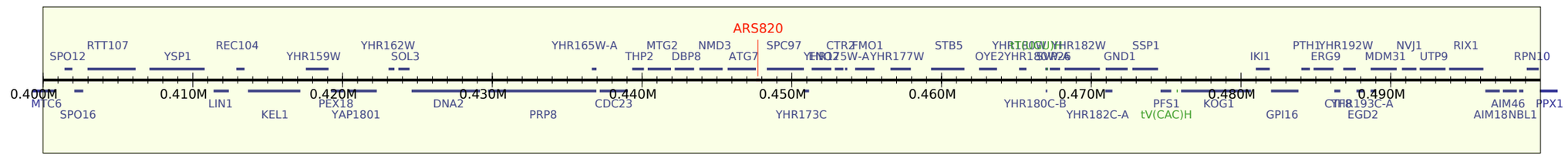

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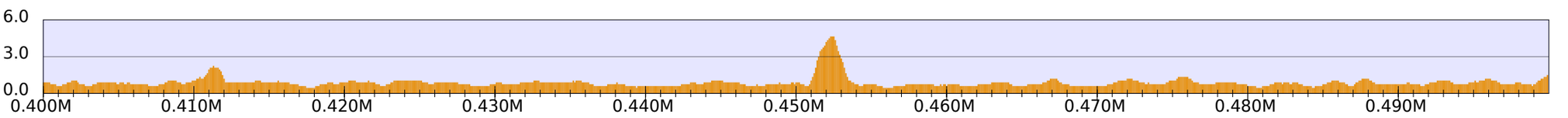

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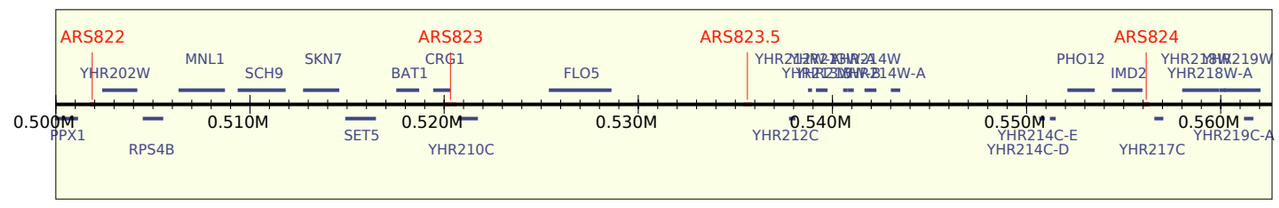

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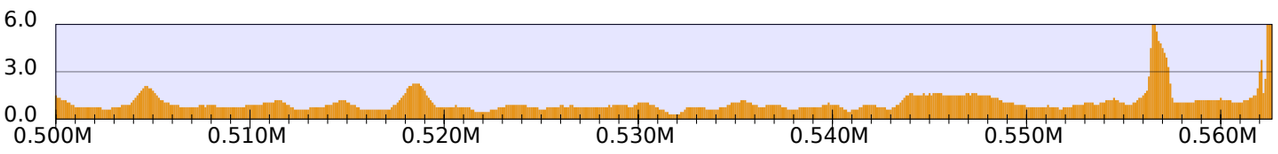
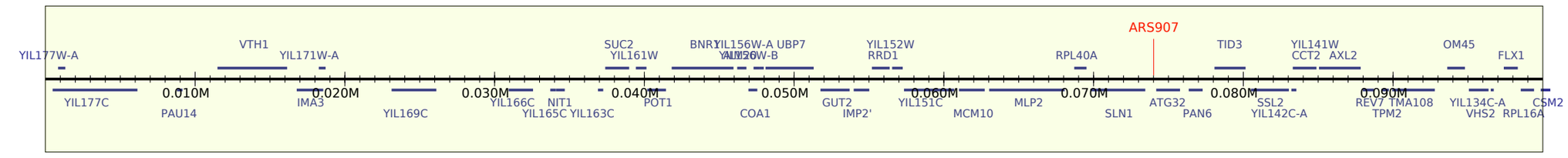


chrIX

genes



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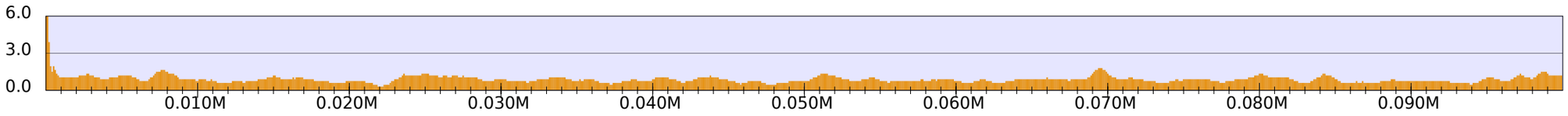

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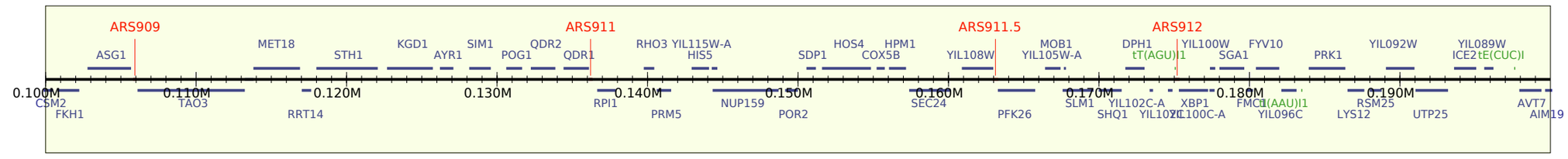

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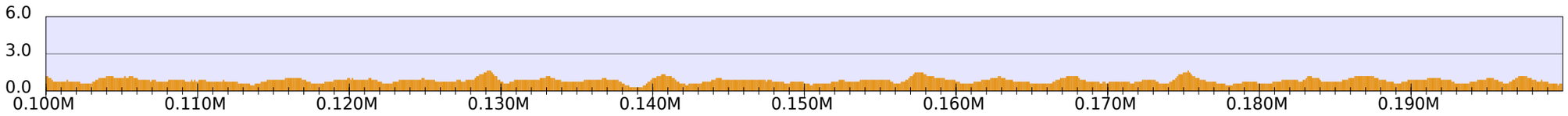

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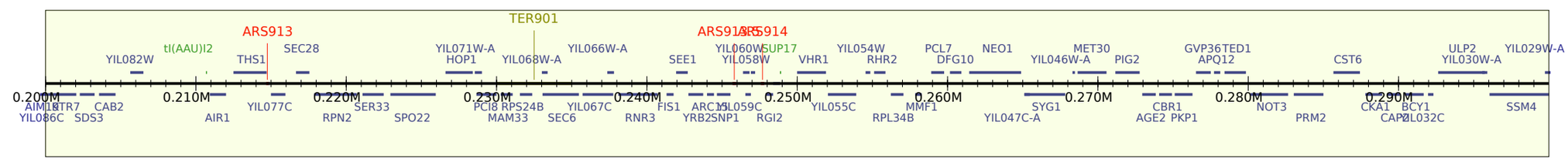

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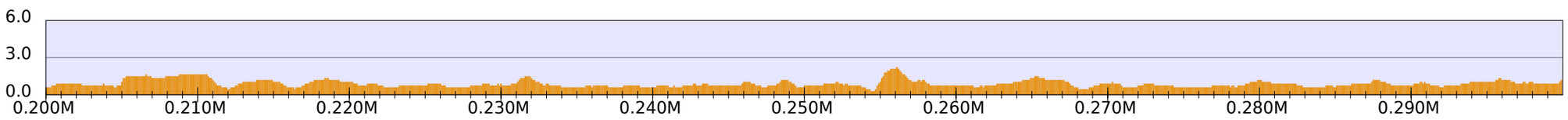

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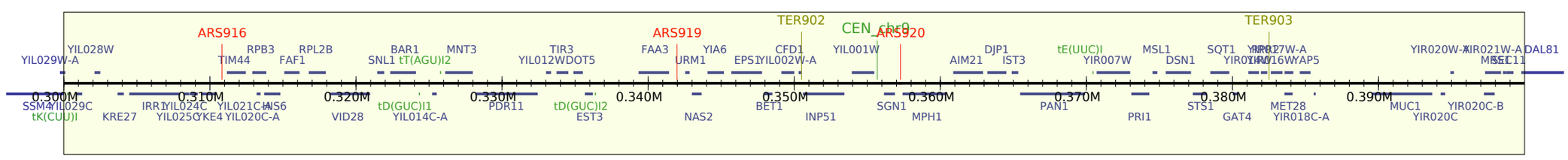

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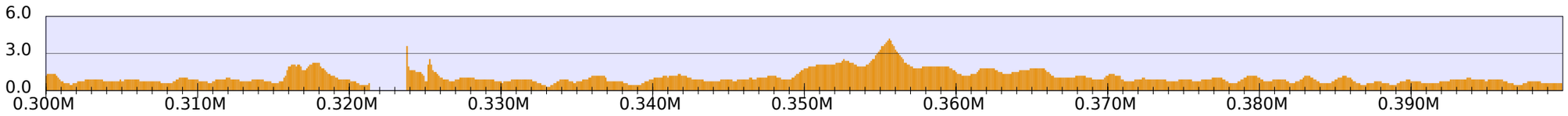

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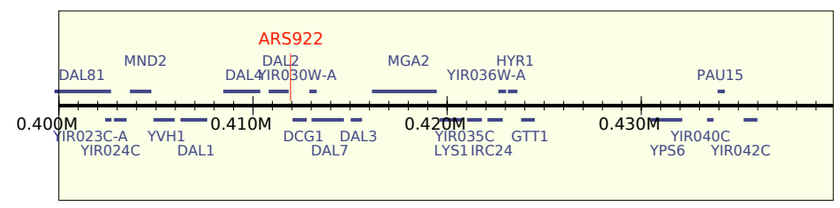

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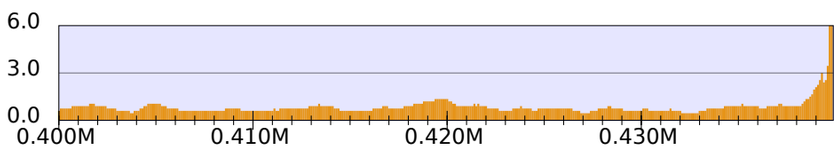
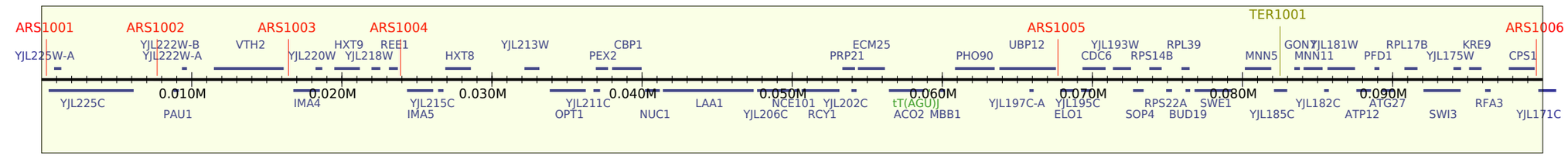


chrX_1

genes



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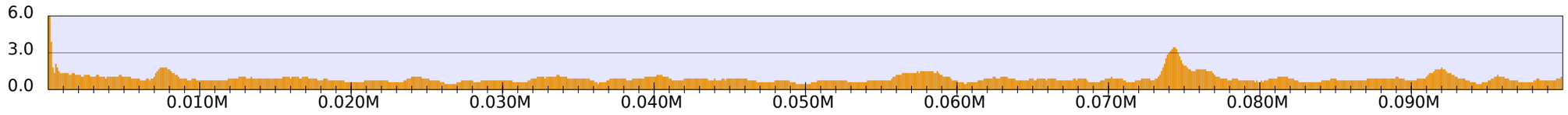

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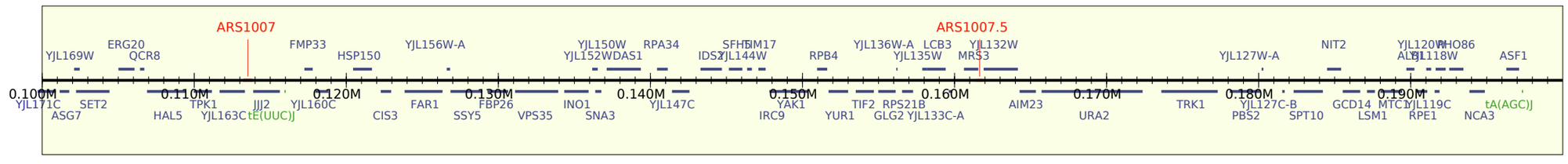

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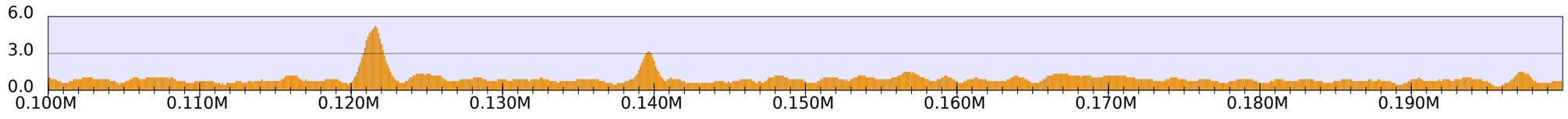

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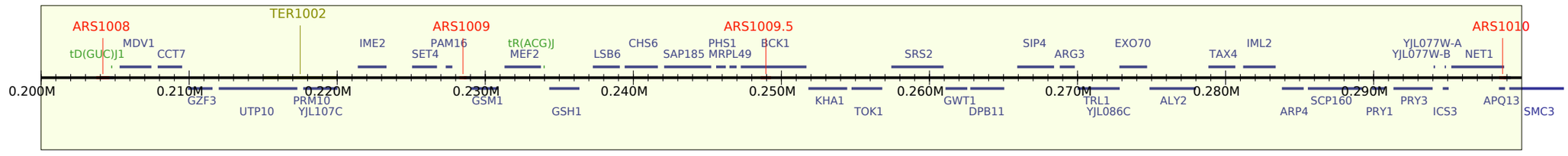

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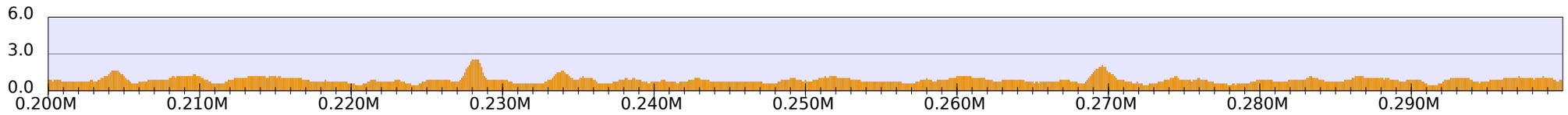

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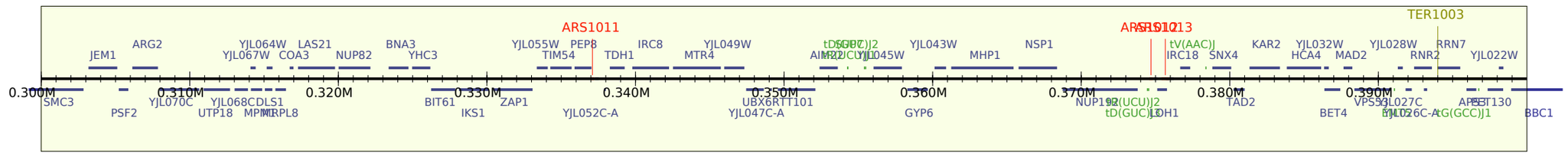

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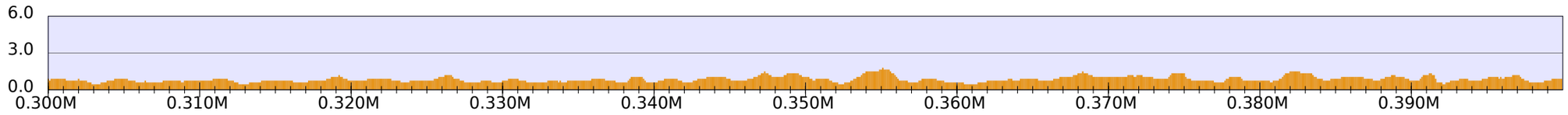

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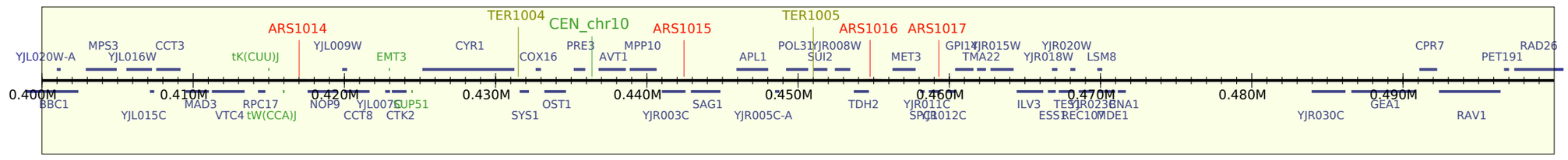

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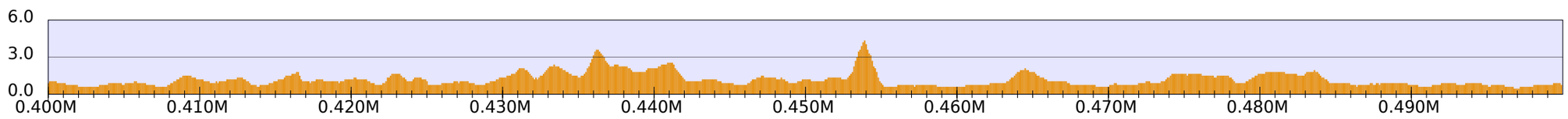

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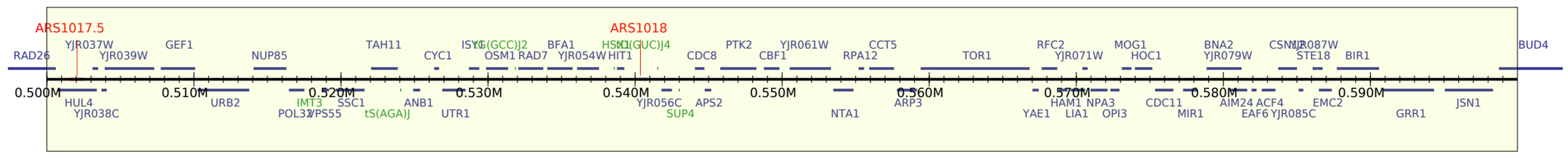

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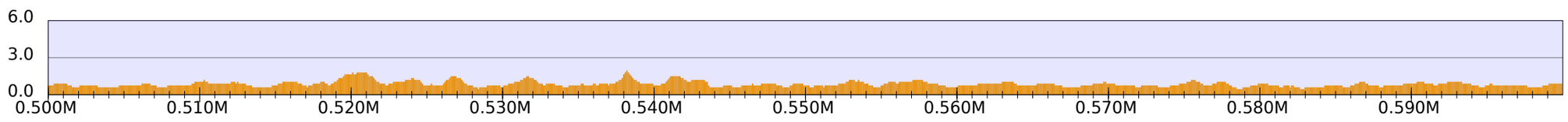
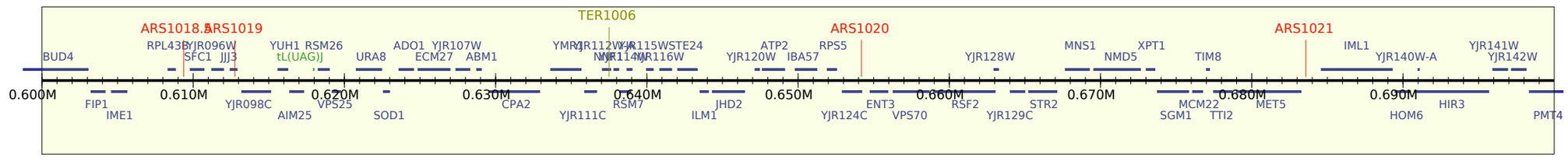


chrX_2

genes



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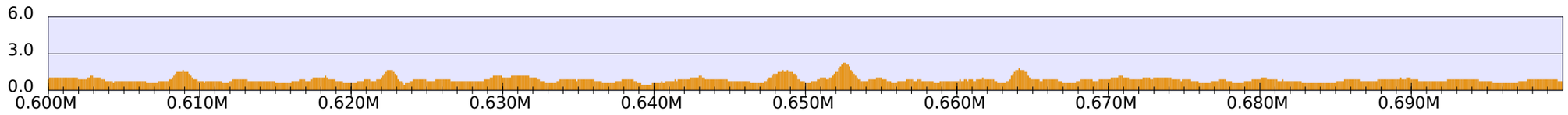

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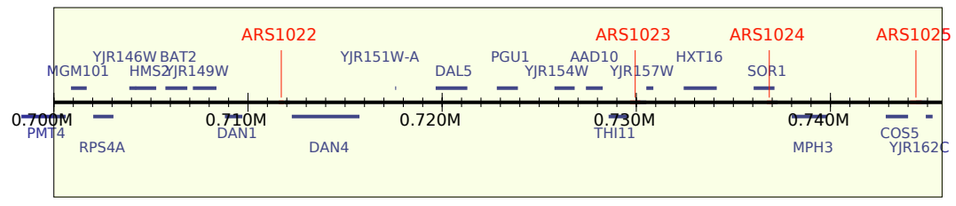

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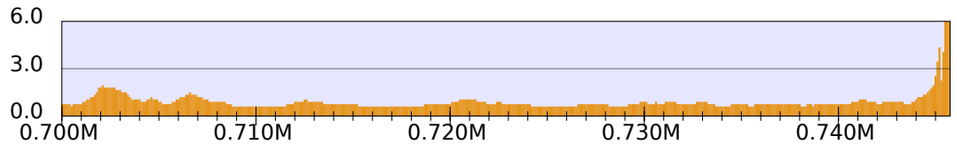

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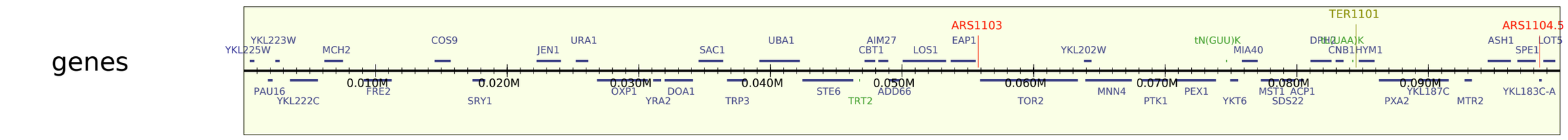
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TER1101
ARS1104.5
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0.040M
0.050M
0.060M
0.070M
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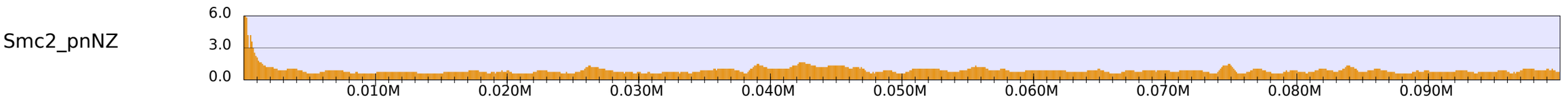
0.090M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3.0
0.0
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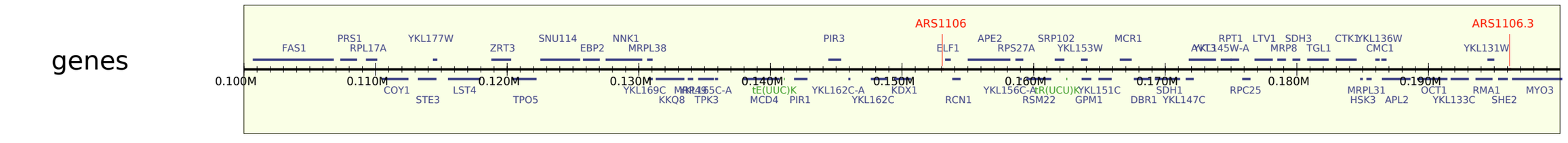
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ARS1106.3
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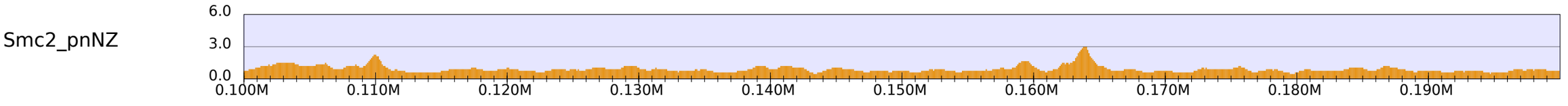
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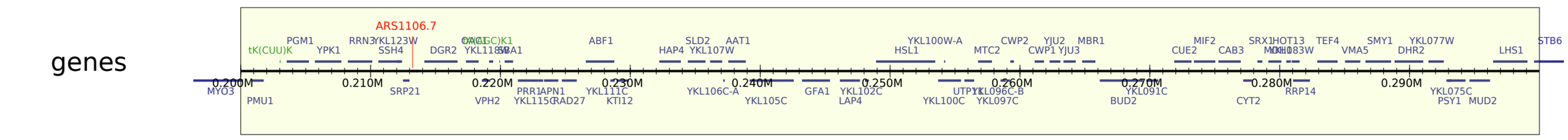
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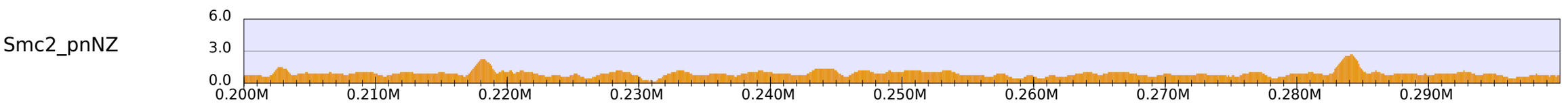
0.290M


Smc2_pnNZ
6.0
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0.0
0.200M
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0.220M
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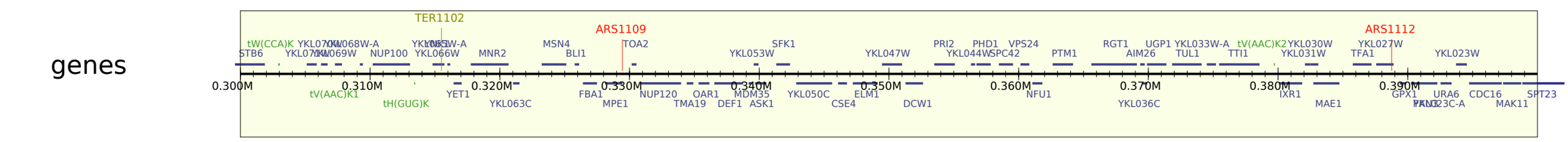
0.290M


genes
TER1102
ARS1109
ARS1112
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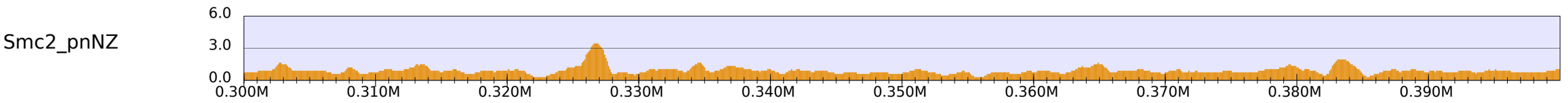
0.310M
0.320M
0.330M
0.340M
0.350M
0.360M
0.370M
0.380M
0.390M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0.0
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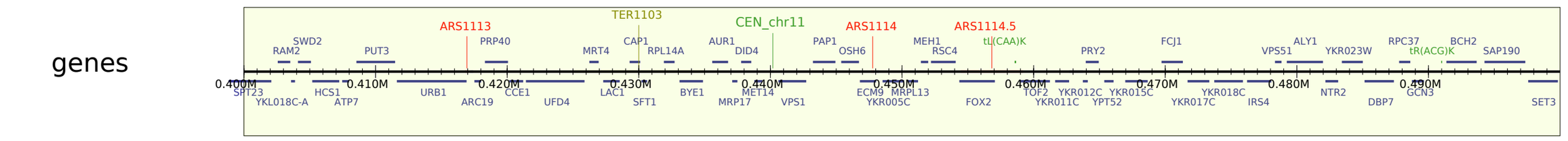
genes
ARS1113
TER1103
CEN_chr11
ARS1114
ARS1114.5
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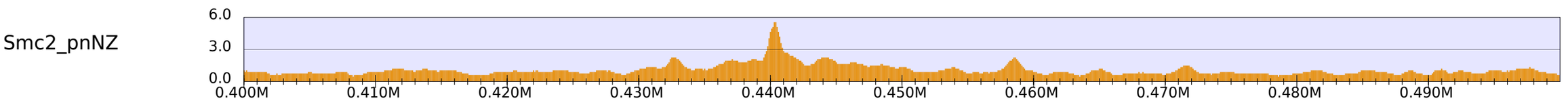
0.410M
0.420M
0.430M
0.440M
0.450M
0.460M
0.470M
0.480M
0.490M


Smc2_pnNZ
6.0
3.0
0.0
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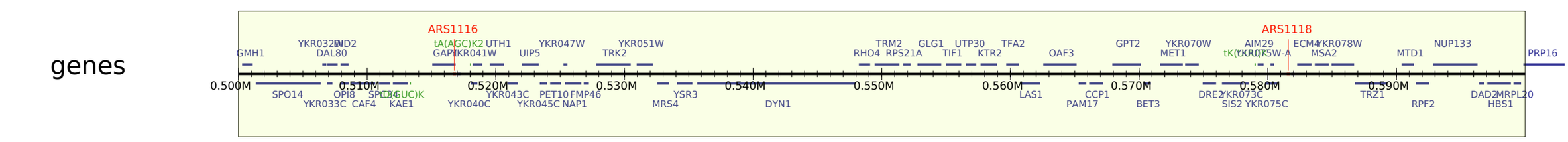
genes
ARS1116
ARS1118
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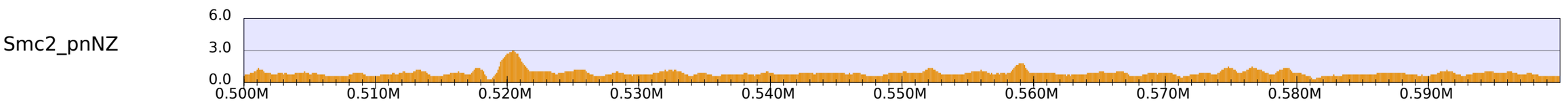
0.520M
0.530M
0.540M
0.550M
0.560M
0.570M
0.580M
0.590M


Smc2_pnNZ
6.0
3.0
0.0
0.500M
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0.520M
0.530M
0.540M
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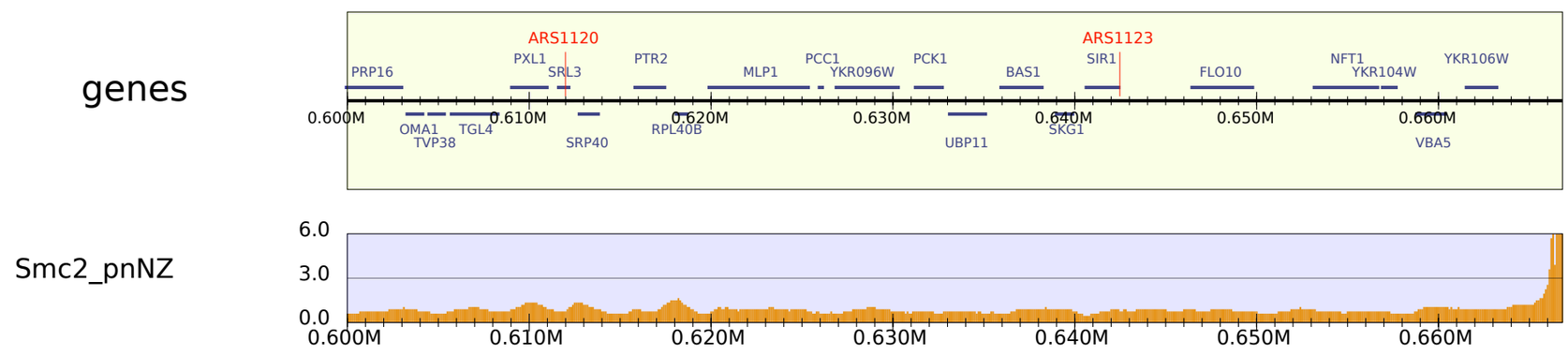
0.560M
0.570M
0.580M
0.590M

chrXI_2


genes
ARS1120
ARS1123
PRP16
PXL1
SRL3
PTR2
MLP1
PCC1
YKR096W
PCK1
BAS1
SIR1
FLO10
NFT1
YKR104W
YKR106W
OMA1
TVP38
TGL4
SRP40
RPL40B
UBP11
SKG1
VBA5
0.600M
0.610M
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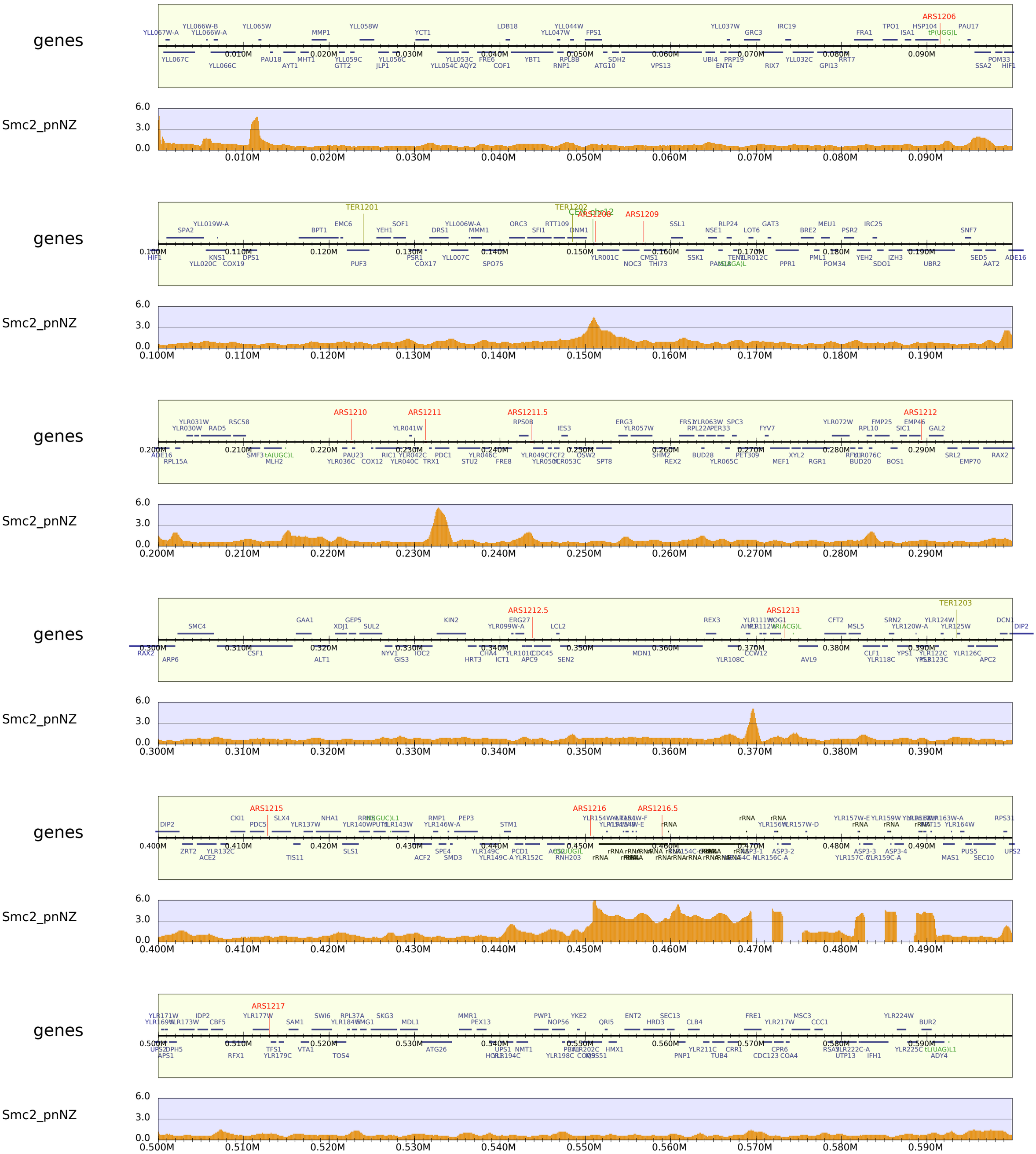
0.640M
0.650M
0.660M
Smc2_pnNZ
6.0
3.0
0.0

chrXII_1


genes
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3.0
0.0
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0.020M
0.030M
0.040M
0.050M
0.060M
0.070M
0.080M
0.090M
ARS1206
YLL067W-A
YLL066W-B
YLL066W-A
YLL065W
MMP1
YLL058W
YCT1
LDB18
YLL044W
YLL047W
FPS1
YLL037W
GRC3
IRC19
FRA1
TPO1
ISA1
HSP104
tP(UGG)L
PAU17
YLL067C
YLL066C
PAU18
AYT1
MHT1
YLL059C
GTT2
YLL056C
JLP1
YLL053C
YLL054C
AQY2
FRE6
COF1
YBT1
RPL8B
RNP1
SDH2
ATG10
VPS13
UBI4
PRP19
ENT4
RIX7
YLL032C
GPI13
RRT7
POM33
SSA2
HIF1
TER1201
TER1202
CEN_chr12
ARS1208
ARS1209
YLL019W-A
SPA2
BPT1
EMC6
YEH1
SOF1
DRS1
YLL006W-A
MMM1
ORC3
SFI1
RTT109
DNM1
SSL1
NSE1
RLP24
LOT6
GAT3
BRE2
MEU1
PSR2
IRC25
SNF7
HIF1
YLL020C
KNS1
COX19
DPS1
PUF3
PSR1
COX17
YLL007C
SPO75
YLR001C
NOC3
CMS1
THI73
SSK1
PAM16
TEN1
YLR012C
PPR1
PML1
POM34
YEH2
SDO1
IZH3
UBR2
SED5
AAT2
ADE16
ARS1210
ARS1211
ARS1211.5
ARS1212
YLR031W
YLR030W
RSC58
RAD5
YLR041W
RPS0B
IES3
ERG3
YLR057W
FRS1
RPL22A
YLR063W
PER33
SPC3
FYV7
YLR072W
RPL10
FMP25
SIC1
EMP46
GAL2
ADE16
RPL15A
SMF3
tA(UGC)L
MLH2
PAU23
YLR036C
RIC1
COX12
YLR042C
YLR040C
PDC1
TRX1
YLR046C
STU2
FRE8
YLR049C
YLR050C
CFF2
YLR053C
OSW2
SPT8
SHM2
REX2
BUD28
YLR065C
PET309
MEF1
XYL2
RGR1
RFU1
YLR076C
BUD20
BOS1
SRL2
EMP70
RAX2
ARS1212.5
ARS1213
TER1203
SMC4
GAA1
XDJ1
GEP5
SUL2
KIN2
YLR099W-A
ERG27
LCL2
REX3
YLR111W
YLR112W
WOG1
tR(ACG)L
CFT2
MSL5
SRN2
YLR120W-A
YLR124W
YLR125W
DCN1
DIP2
RAX2
ARP6
CSF1
ALT1
NYV1
GIS3
IOC2
HRT3
CHA4
ICT1
YLR101C
APC9
CDC45
SEN2
MDN1
YLR108C
CCW12
AVL9
CLF1
YLR118C
YPS1
YLR122C
YLR123C
YLR126C
APC2
ARS1215
ARS1216
ARS1216.5
DIP2
CKI1
PDC5
SLX4
YLR137W
NHA1
YLR140W
PUT1
tG(GUC)L1
YLR143W
RMP1
YLR146W-A
PEP3
STM1
YLR154W
YLR154C-E
rRNA
YLR156W
YLR157W-D
YLR157W-E
YLR159W
YLR163W-A
YLR164W
RPS31
ZRT2
ACE2
YLR132C
TIS11
SLS1
ACF2
SPE4
SMD3
YLR149C
YLR149C-A
YLR152C
PCD1
tS(UUG)L
RNH203
ASP3-1
ASP3-2
ASP3-3
ASP3-4
YLR157C-A
YLR159C-A
MAS1
SEC10
PUS5
UPS2
ARS1217
YLR171W
YLR169W
IDP2
YLR173W
CBF5
YLR177W
SAM1
SWI6
YLR184W
RPL37A
HMG1
SKG3
MDL1
MMR1
PEX13
PWP1
NOP56
YKE2
QRI5
ENT2
HRD3
SEC13
CLB4
FRE1
YLR217W
MSC3
CCC1
YLR224W
BUR2
UPS2
APS1
DPH5
RFX1
TFS1
YLR179C
VTA1
TOS4
ATG26
UPS1
YLR194C
NMT1
YLR198C
YLR202C
HMX1
YLR211C
PNP1
TUB4
CRR1
CDC123
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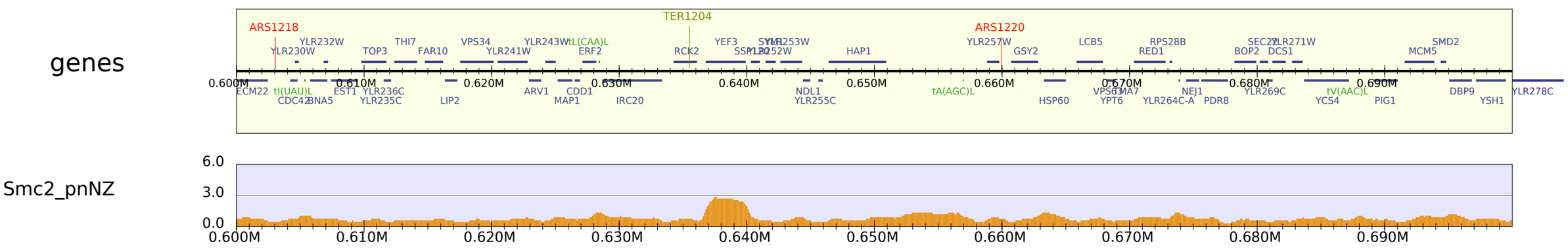
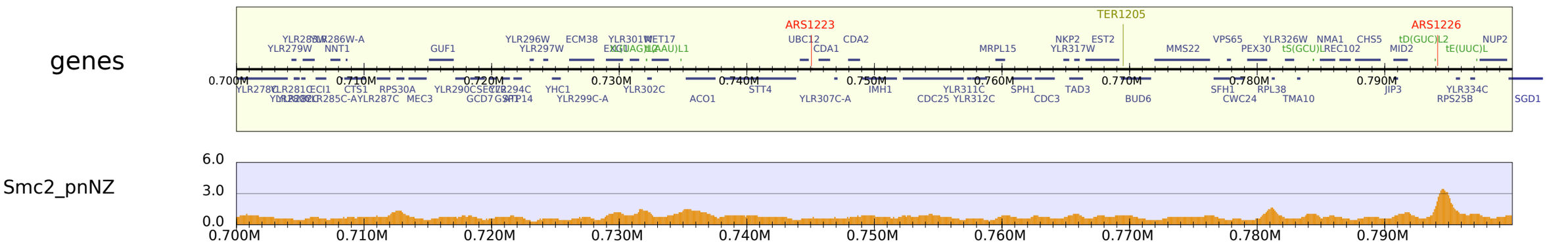
ADY4

chrXII_2


genes
Smc2_pnNZ
ARS1218
TER1204
ARS1220
0.600M
0.610M
0.620M
0.630M
0.640M
0.650M
0.660M
0.670M
0.680M
0.690M
6.0
3.0
0.0


genes
Smc2_pnNZ
ARS1223
TER1205
ARS1226
0.700M
0.710M
0.720M
0.730M
0.740M
0.750M
0.760M
0.770M
0.780M
0.790M
6.0
3.0
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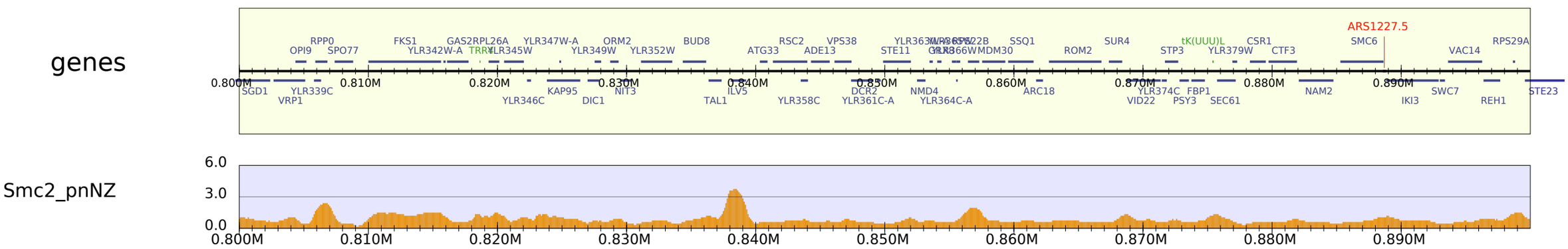
genes
Smc2_pnNZ
ARS1227.5
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0.820M
0.830M
0.840M
0.850M
0.860M
0.870M
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0.890M
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3.0
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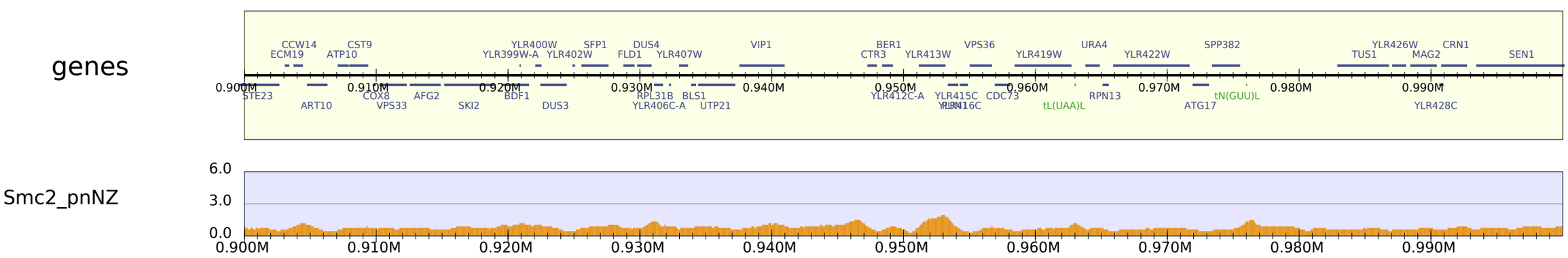
genes
Smc2_pnNZ
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0.910M
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0.990M
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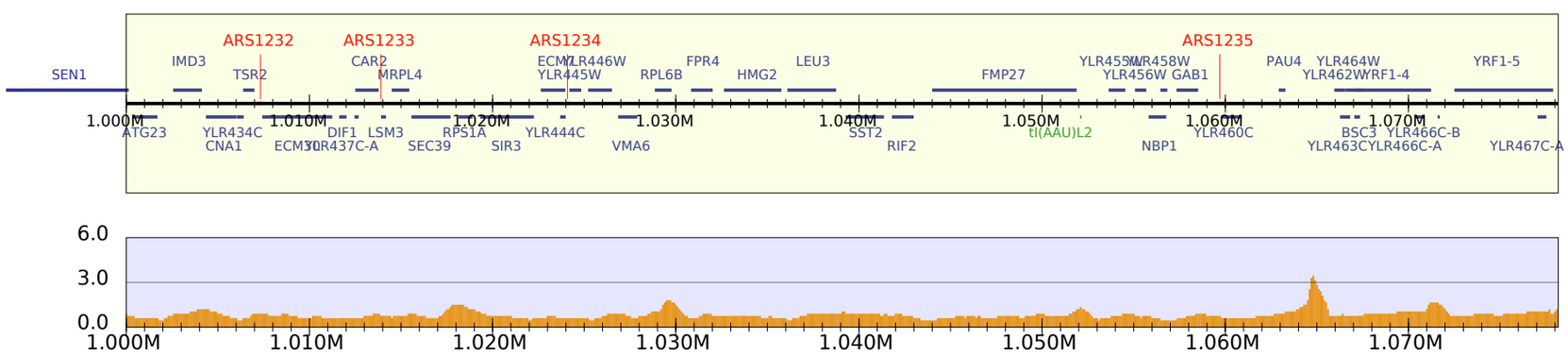
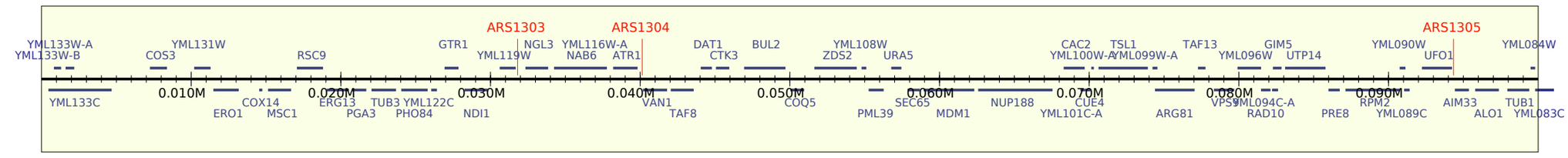

genes
Smc2_pnNZ
ARS1232
ARS1233
ARS1234
ARS1235
1.000M
1.010M
1.020M
1.030M
1.040M
1.050M
1.060M
1.070M
6.0
3.0
0.0

chrXIII_1

genes



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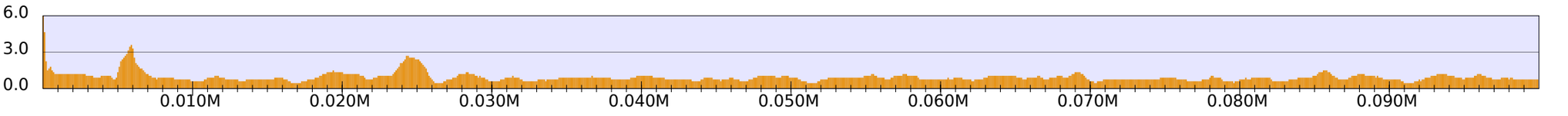
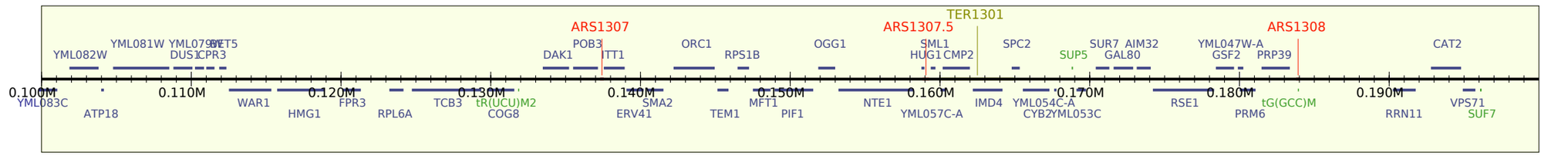


genes



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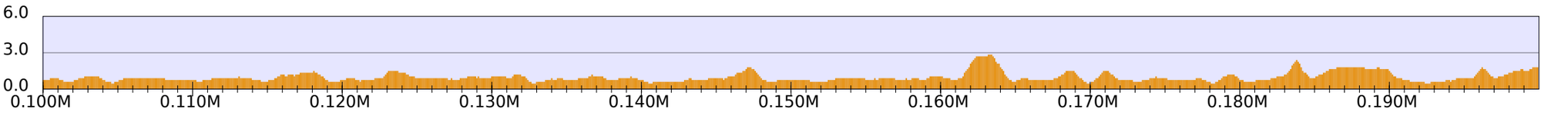
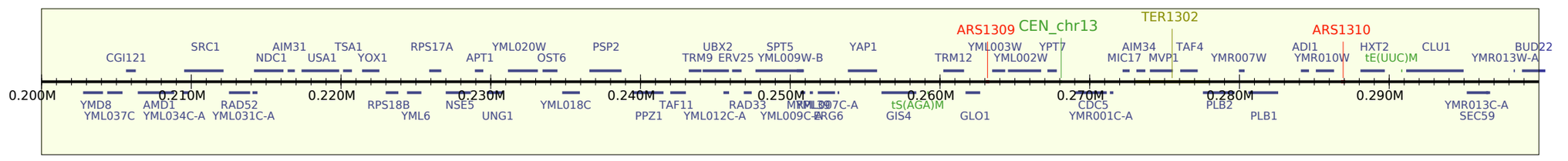


genes



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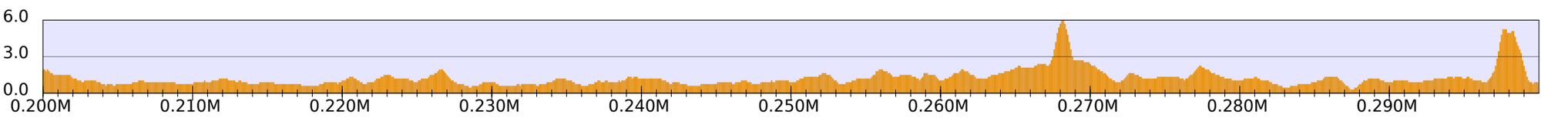
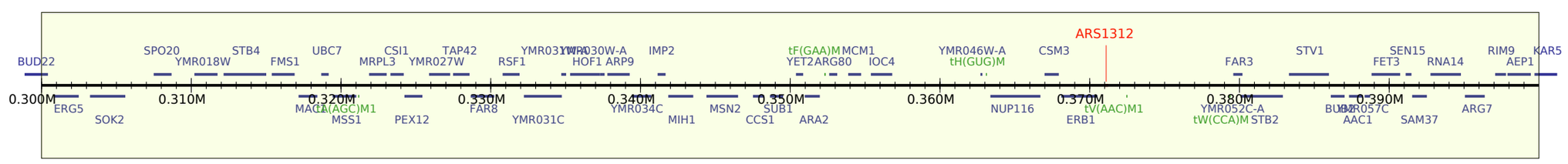


genes



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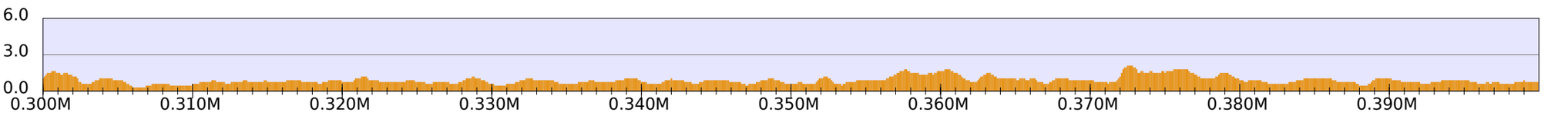
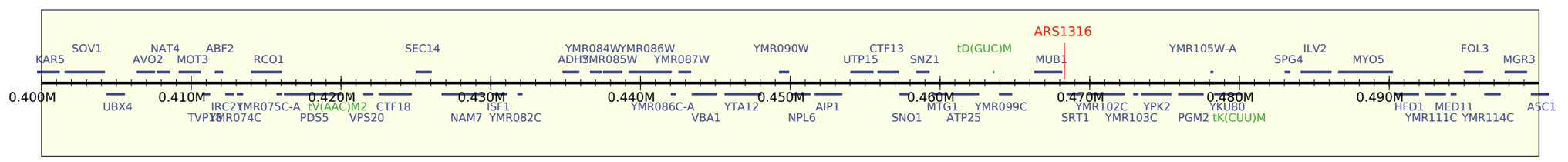


genes



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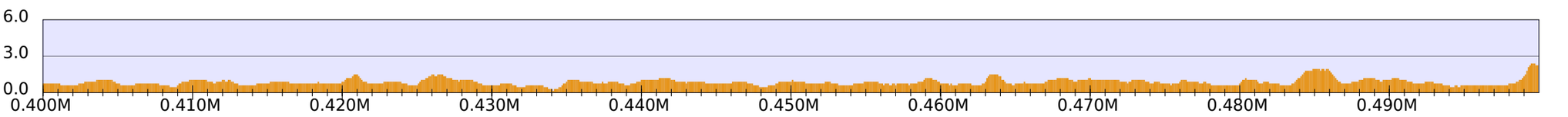
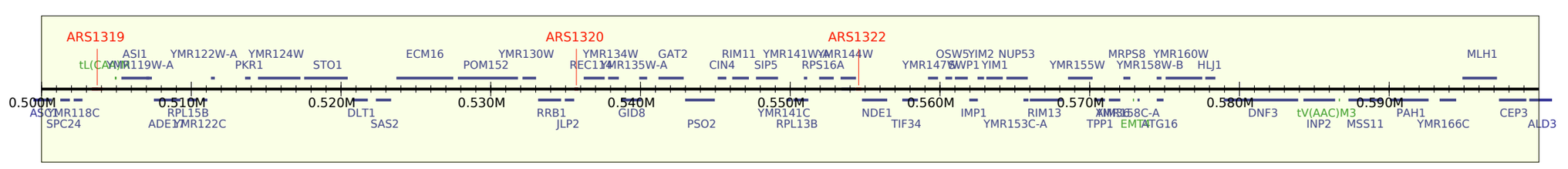


genes



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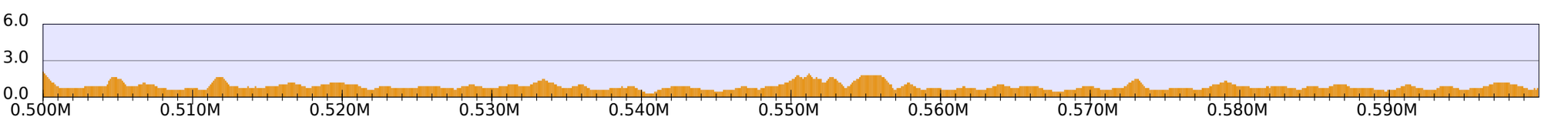
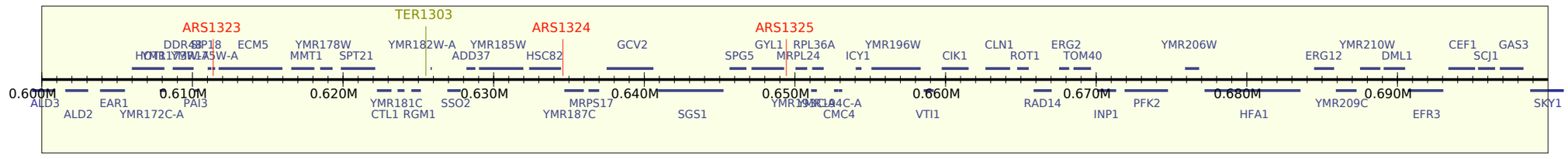


chrXIII_2

genes



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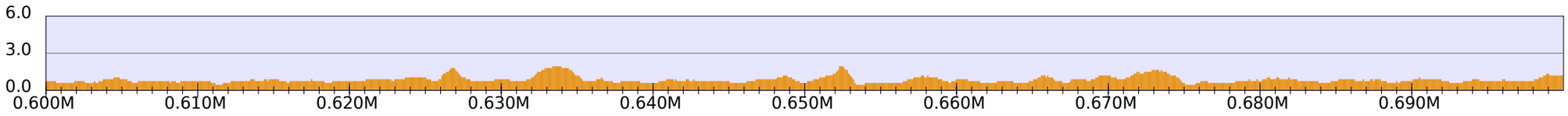
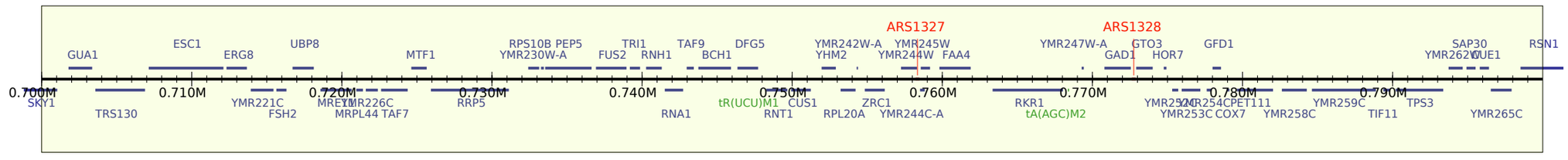


genes



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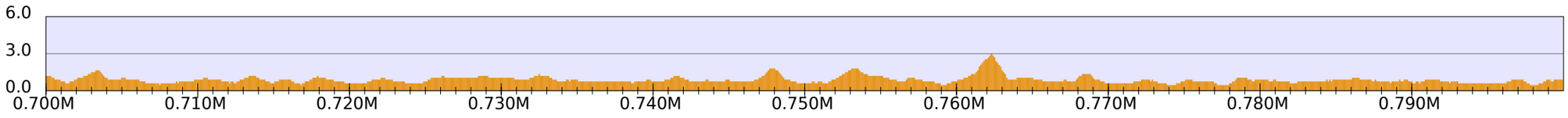
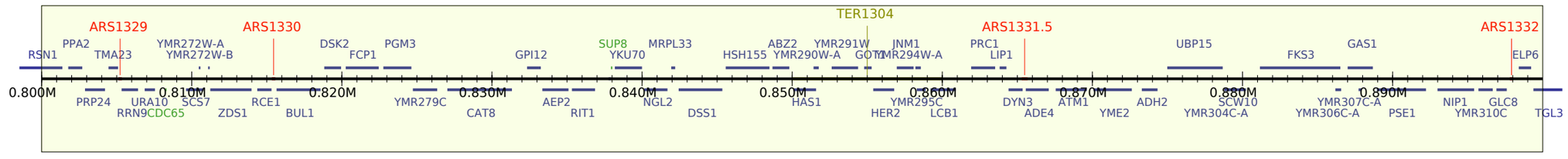


genes



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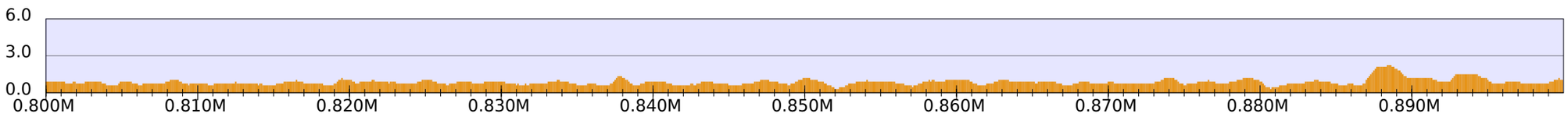
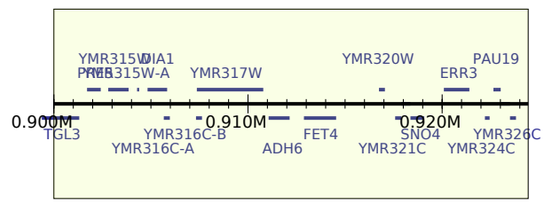


genes



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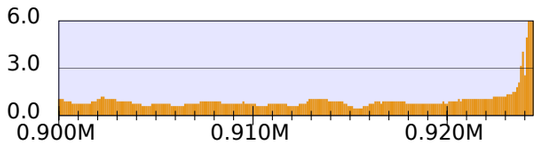
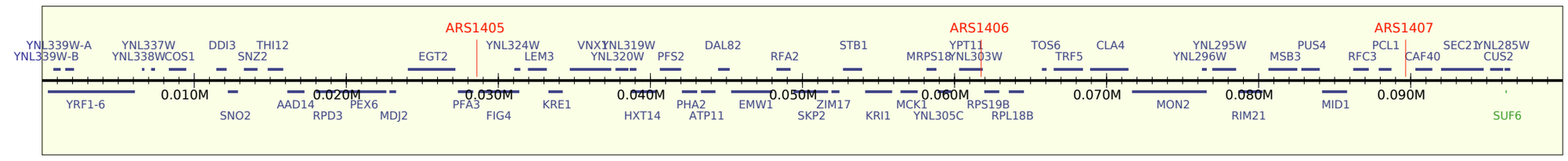


chrXIV_1

genes



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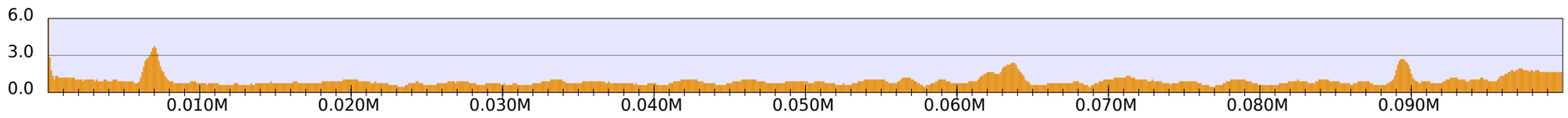

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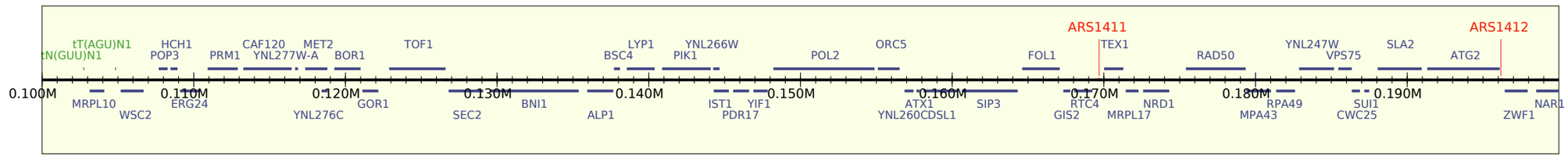

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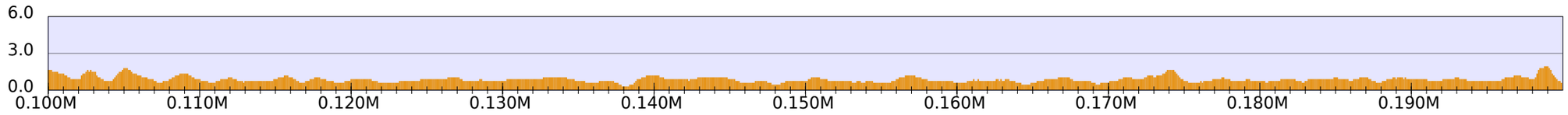

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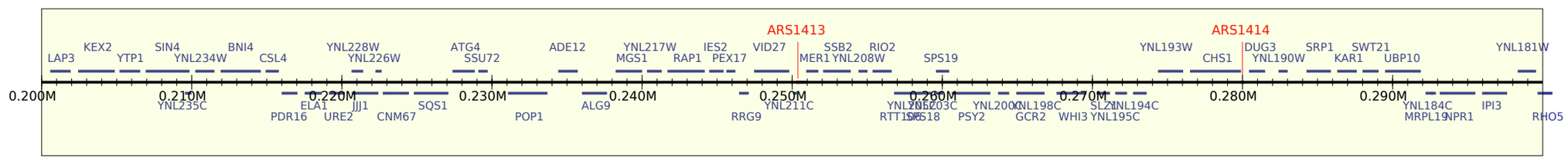

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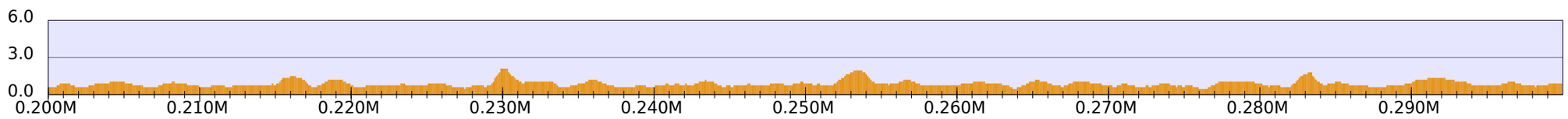

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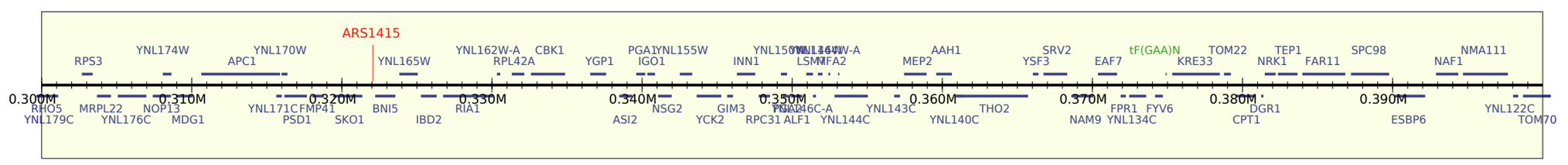

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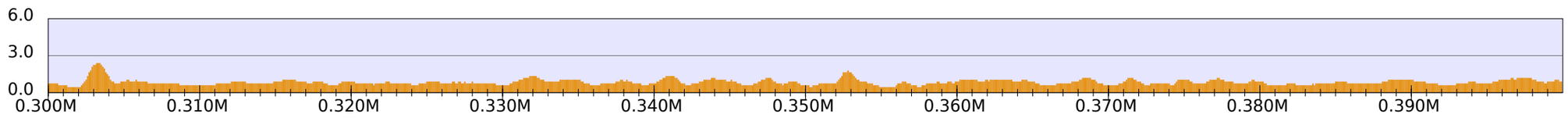

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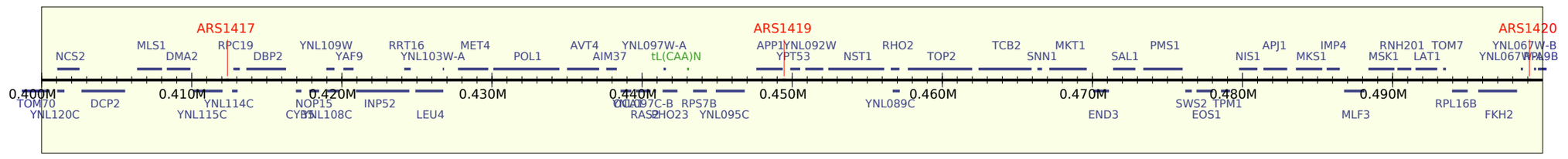

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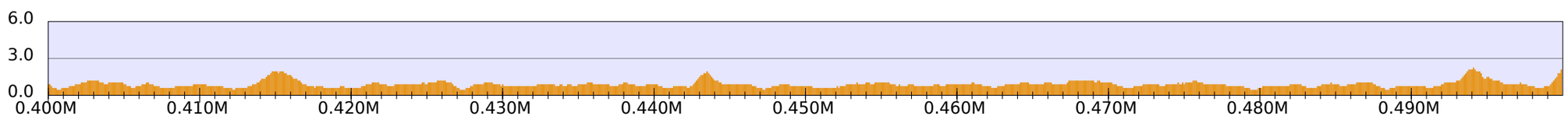

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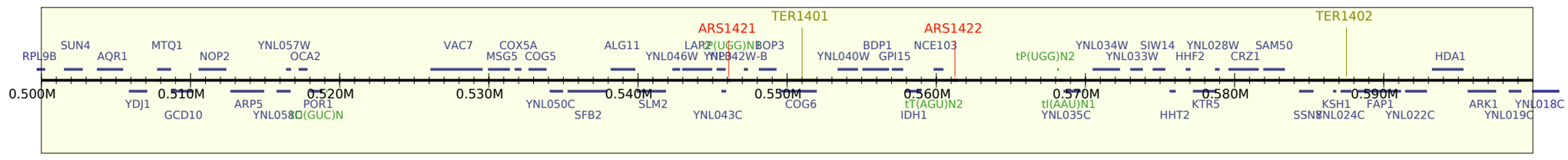

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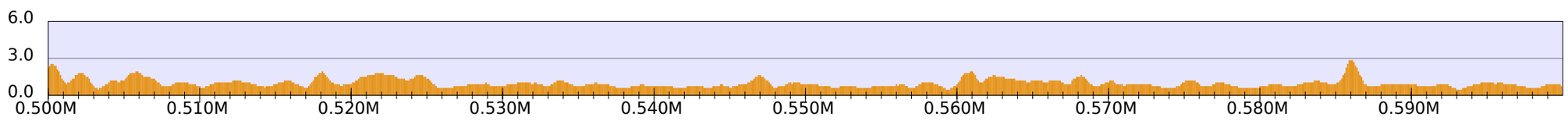
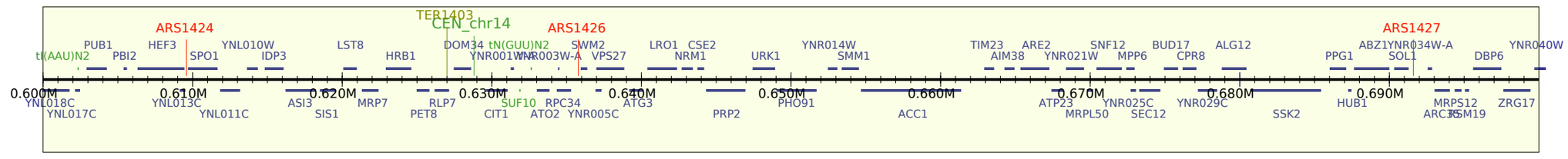


chrXIV_2

genes



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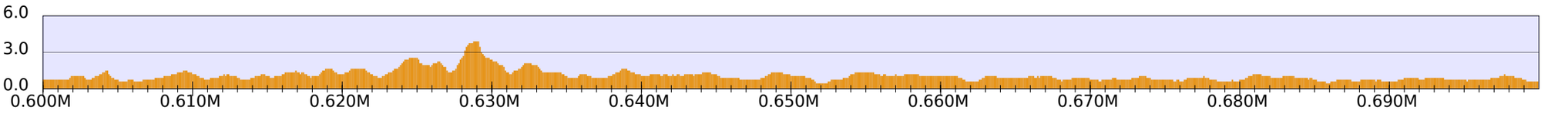

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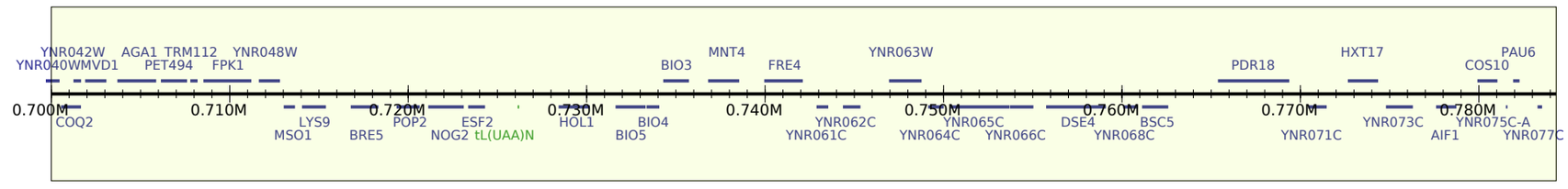

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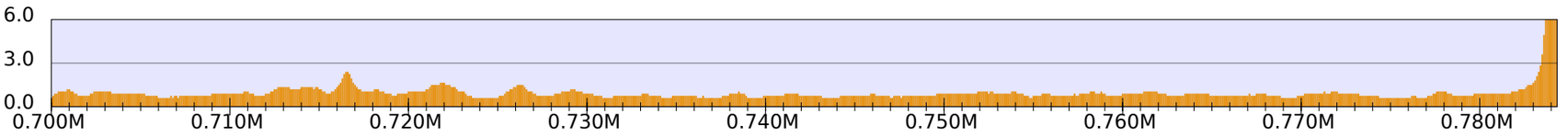
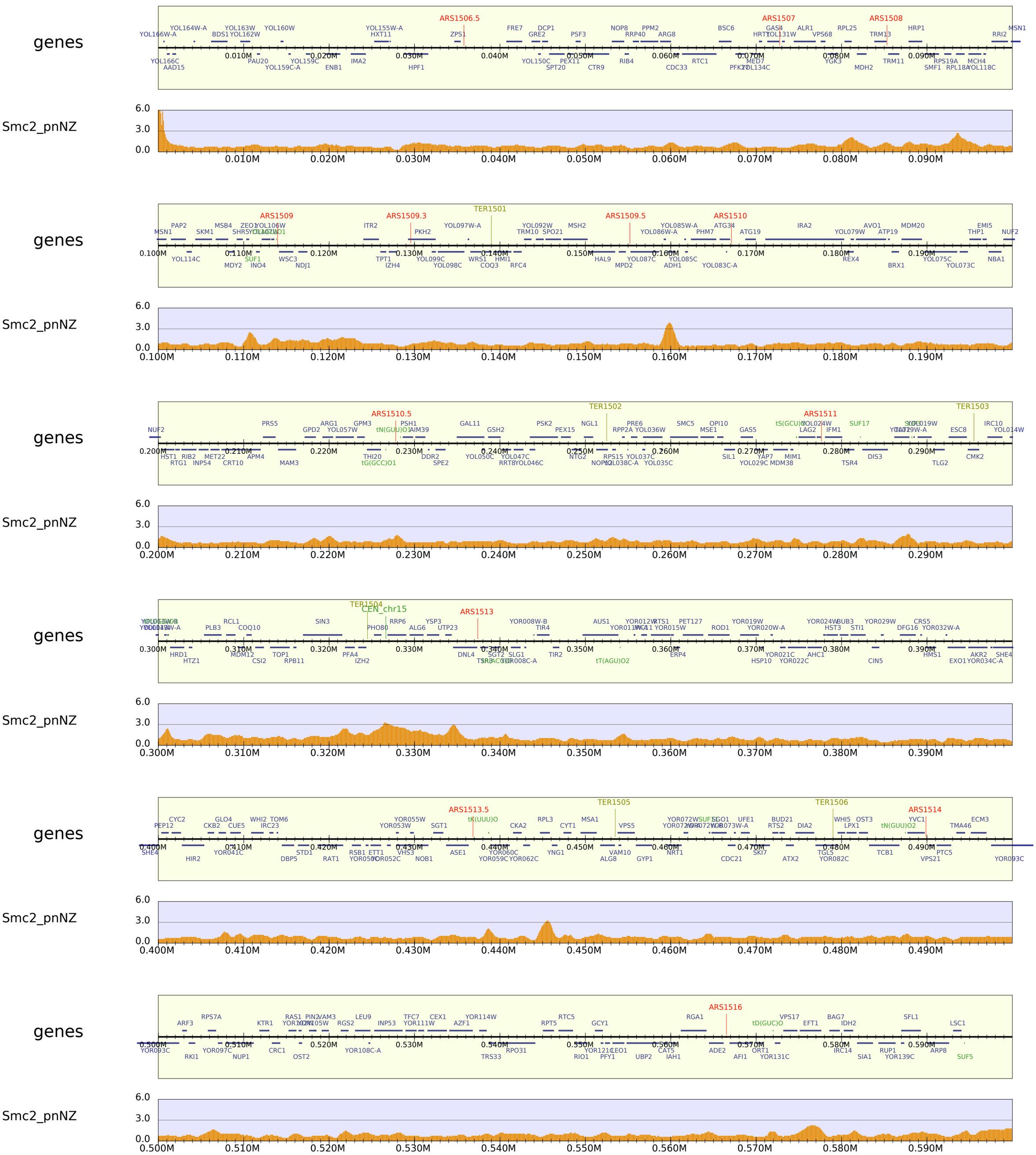


chrXV_1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ARS1507
ARS1508
ARS1509
ARS1509.3
TER1501
ARS1509.5
ARS1510
ARS1510.5
TER1502
ARS1511
TER1503
TER1504
CEN_chr15
ARS1513
ARS1513.5
TER1505
TER1506
ARS1514
ARS1516
6.0
3.0
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0.020M
0.030M
0.040M
0.050M
0.060M
0.070M
0.080M
0.090M
0.100M
0.110M
0.120M
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0.160M
0.170M
0.180M
0.190M
0.200M
0.210M
0.220M
0.230M
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0.330M
0.340M
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0.360M
0.370M
0.380M
0.390M
0.400M
0.410M
0.420M
0.430M
0.440M
0.450M
0.460M
0.470M
0.480M
0.490M
0.500M
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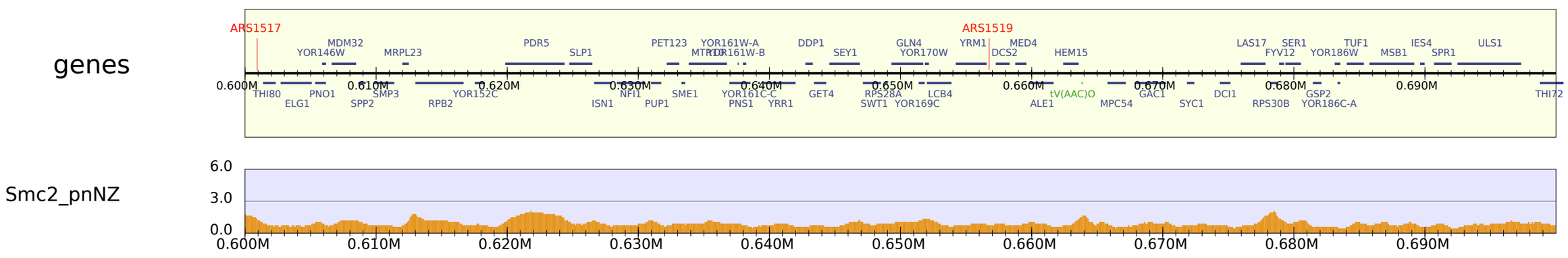
0.570M
0.580M
0.590M

chrXV_2


genes
ARS1517
ARS1519
MDM32
YOR146W
MRPL23
PDR5
SLP1
PET123
YOR161W-A
YOR161W-B
DDP1
SEY1
GLN4
YOR170W
YRM1
MED4
DCS2
HEM15
LAS17
SER1
FYV12
TUF1
YOR186W
MSB1
IES4
SPR1
ULS1
THI80
ELG1
PNO1
SPP2
SMP3
RPB2
YOR152C
ISN1
NFI1
PUP1
SME1
YOR161C-C
PNS1
YRR1
GET4
RPS28A
SWT1
YOR169C
LCB4
tV(AAC)O
ALE1
MPC54
GAC1
SYC1
DCI1
RPS30B
GSP2
YOR186C-A
THI72
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0.610M
0.620M
0.630M
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0.670M
0.680M
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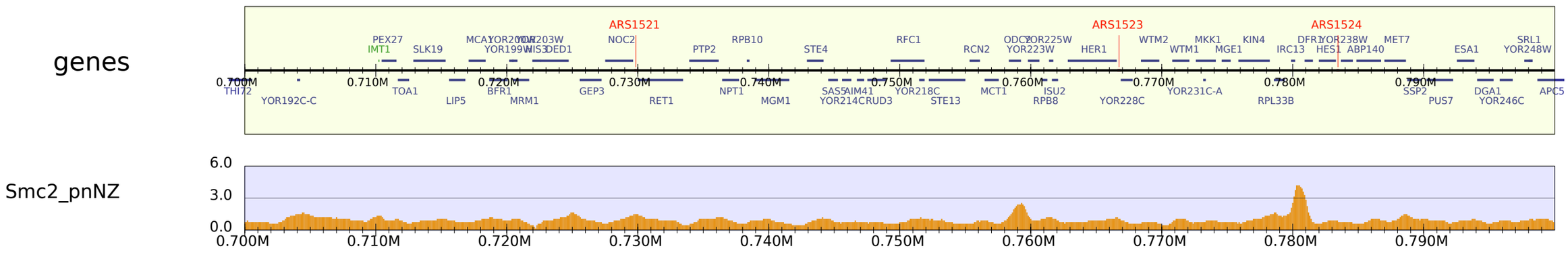
0.0


genes
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ARS1524
PEX27
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SLK19
MCA1
YOR200W
YOR199W
YOR203W
DIS3
DED1
NOC2
PTP2
RPB10
STE4
RFC1
RCN2
ODC2
YOR225W
YOR223W
HER1
WTM2
WTM1
MKK1
MGE1
KIN4
IRC13
DFR1
YOR238W
HES1
ABP140
MET7
ESA1
SRL1
YOR248W
THI72
YOR192C-C
TOA1
LIP5
BFR1
MRM1
GEP3
RET1
NPT1
MGM1
SAS5
YOR214C
AIM41
RUD3
YOR218C
STE13
MCT1
ISU2
RPB8
YOR228C
YOR231C-A
RPL33B
SSP2
PUS7
DGA1
YOR246C
APC5
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0.710M
0.720M
0.730M
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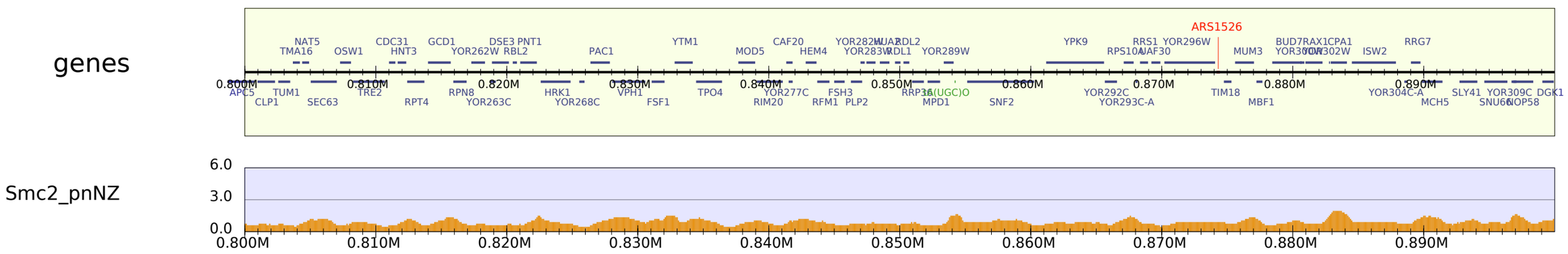
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RBL2
PNT1
PAC1
YTM1
MOD5
CAF20
HEM4
YOR282W
YOR283W
RDL2
RDL1
YOR289W
YPK9
RPS10A
RRS1
UAF30
YOR296W
MUM3
BUD7
YOR300W
RAX1
YOR302W
CPA1
ISW2
RRG7
APC5
CLP1
TUM1
SEC63
TRE2
RPT4
RPN8
YOR263C
HRK1
YOR268C
VPH1
FSF1
TPO4
YOR277C
RIM20
FSH3
RFM1
PLP2
RRP36
tG(UGC)O
MPD1
SNF2
YOR292C
YOR293C-A
TIM18
MBF1
YOR304C-A
MCH5
SLY41
SNU66
YOR309C
NOP58
DGK1
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0.810M
0.820M
0.830M
0.840M
0.850M
0.860M
0.870M
0.880M
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Smc2_pnNZ
6.0
3.0
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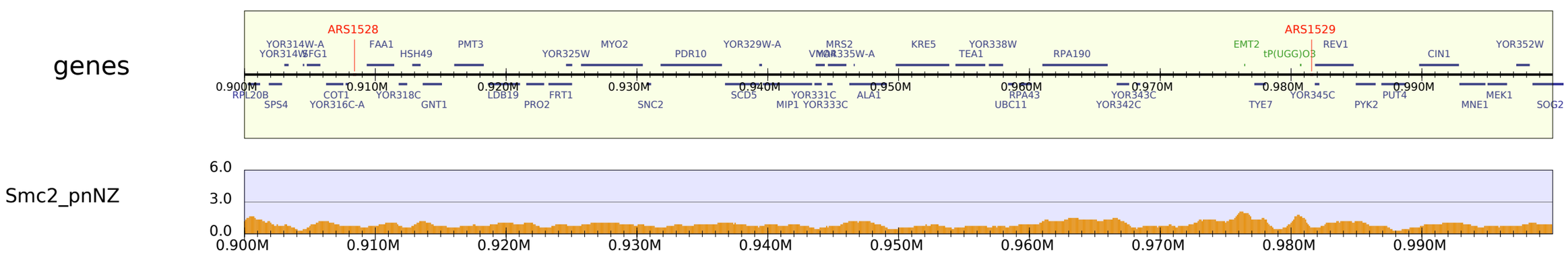
genes
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ARS1529
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MYO2
PDR10
YOR329W-A
MRS2
YOR335W-A
KRE5
YOR338W
TEA1
RPA190
EMT2
tP(UGG)O3
REV1
CIN1
YOR352W
RPL20B
SPS4
COT1
YOR316C-A
YOR318C
GNT1
LDB19
PRO2
FRT1
SNC2
SCD5
YOR331C
MIP1
YOR333C
ALA1
RPA43
UBC11
YOR343C
YOR342C
TYE7
YOR345C
PYK2
PUT4
MNE1
MEK1
SOG2
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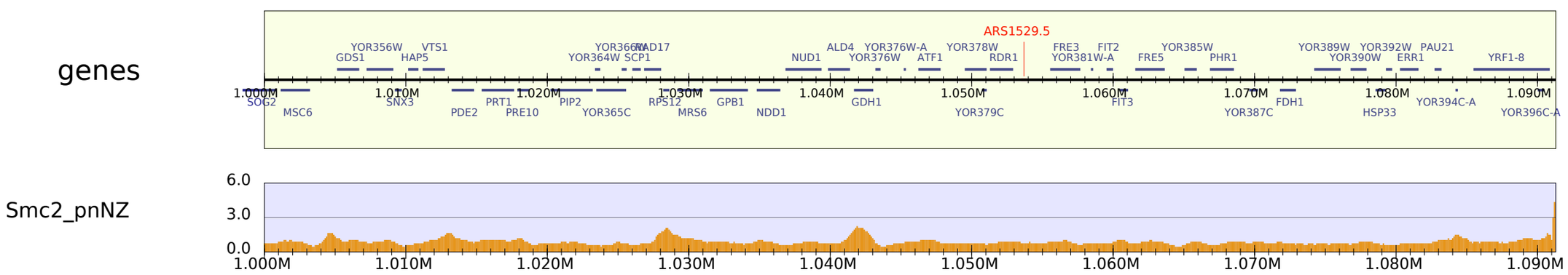
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YOR364W
RAD17
SCP1
ALD4
NUD1
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YOR376W
ATF1
YOR378W
RDR1
FRE3
YOR381W-A
FIT2
FRE5
YOR385W
PHR1
YOR389W
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YOR392W
ERR1
PAU21
YRF1-8
SOG2
MSC6
SNX3
PDE2
PRT1
PRE10
PIP2
YOR365C
RPS12
MRS6
GPB1
NDD1
GDH1
YOR379C
FIT3
YOR387C
FDH1
HSP33
YOR394C-A
YOR396C-A
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1.010M
1.020M
1.030M
1.040M
1.050M
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3.0
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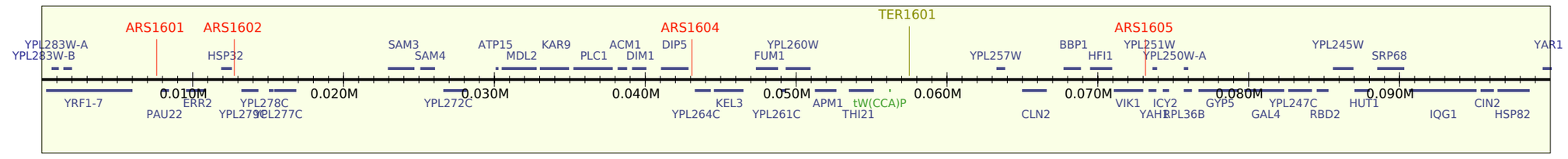
chrXVI_1

genes



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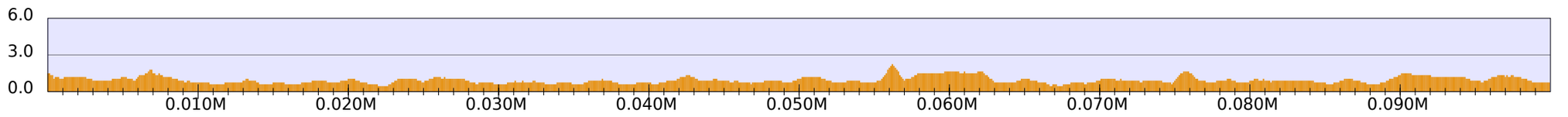
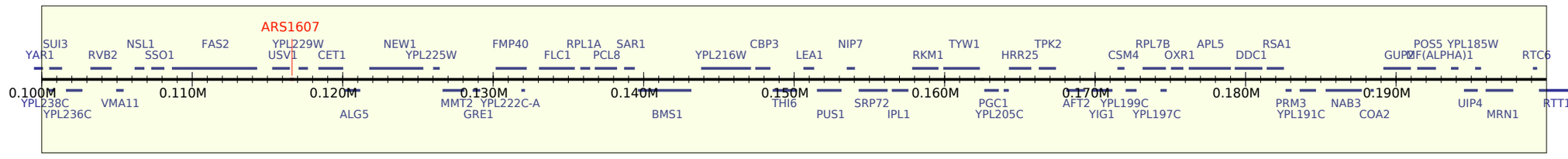


genes



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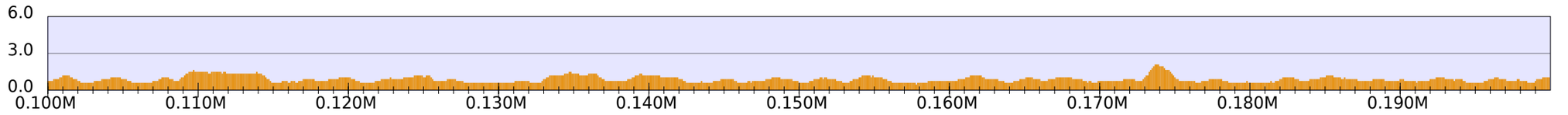
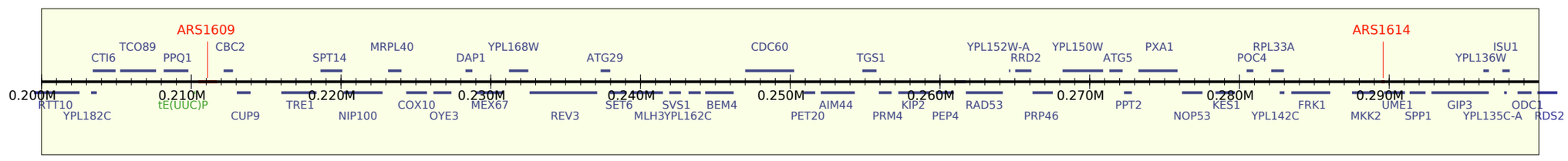


genes



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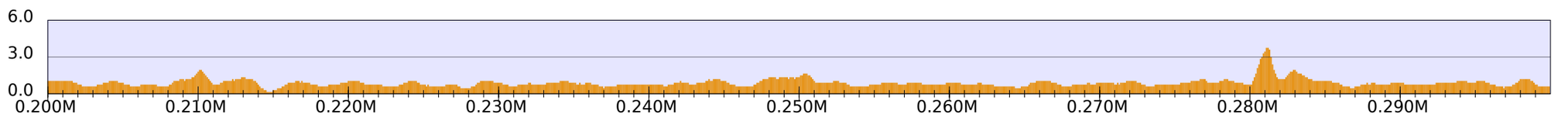
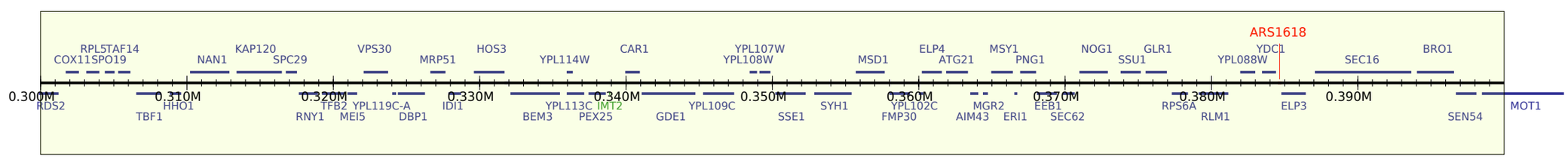


genes



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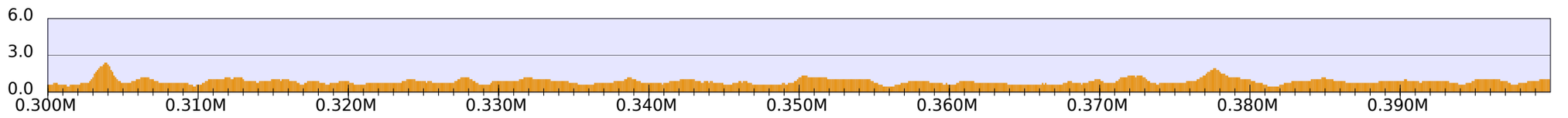
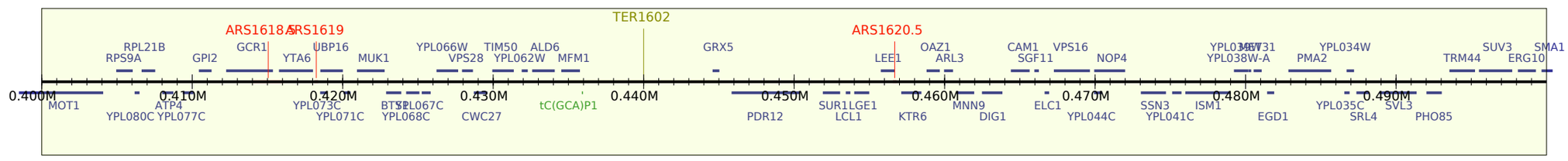


genes



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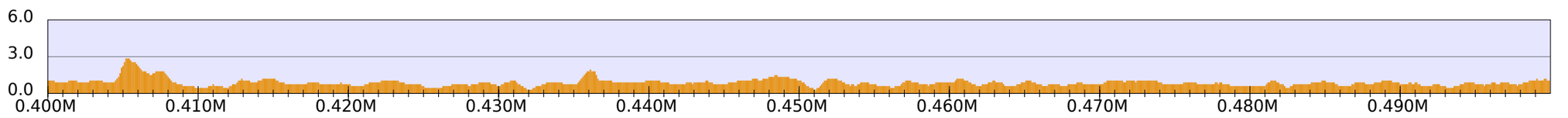
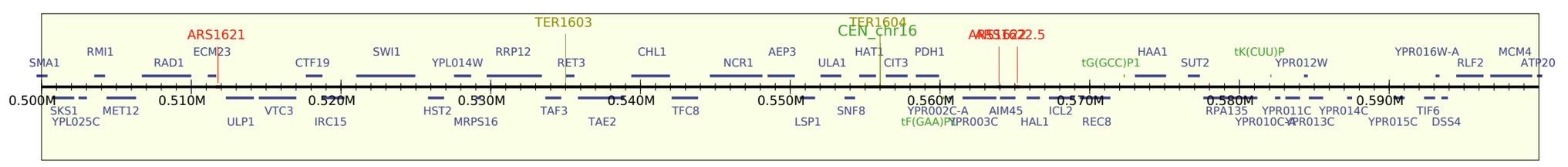


genes



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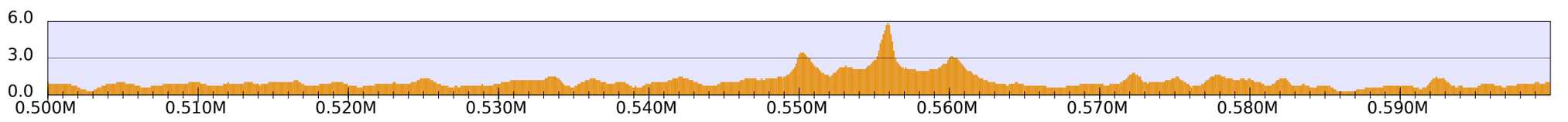
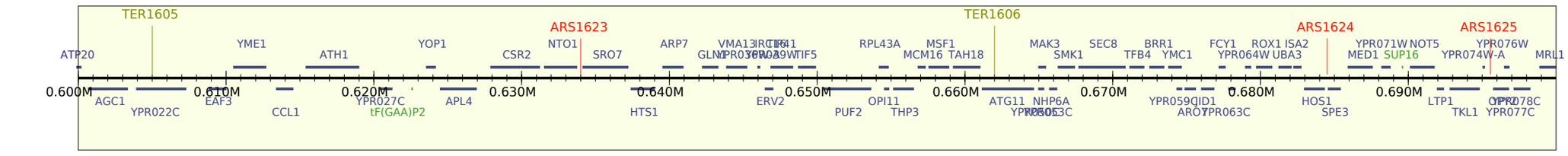


chrXVI_2

genes



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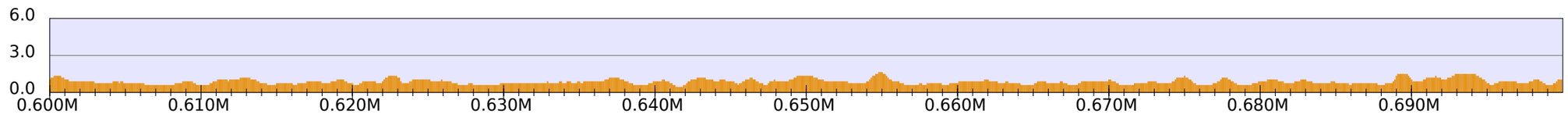

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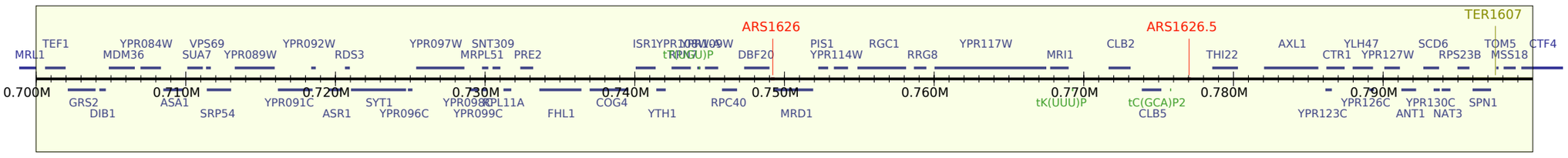

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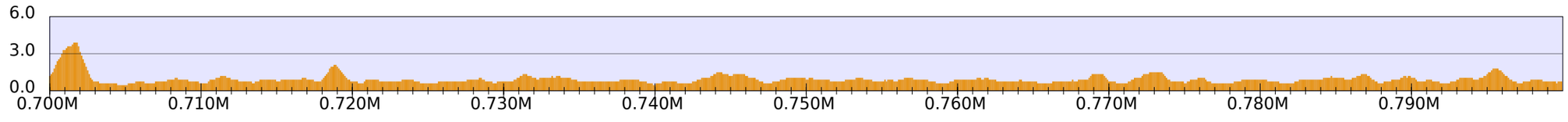
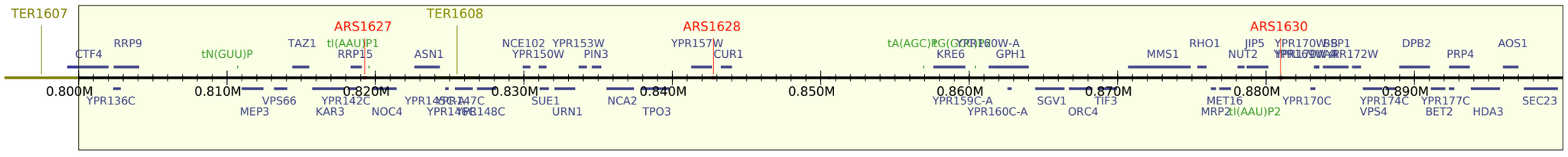


genes



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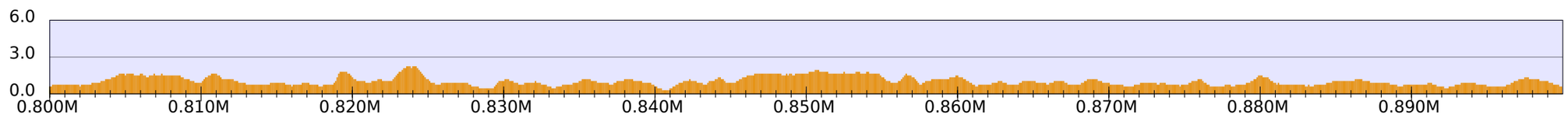

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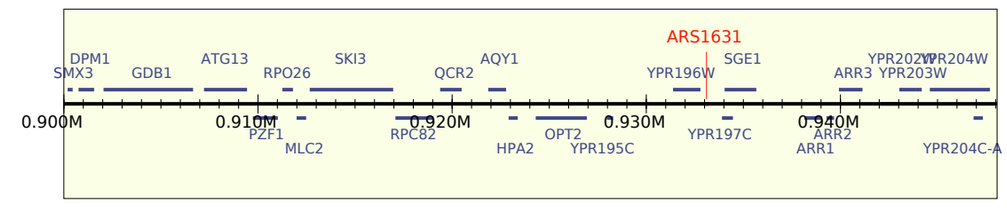

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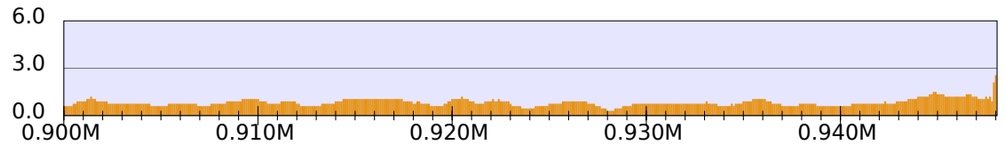

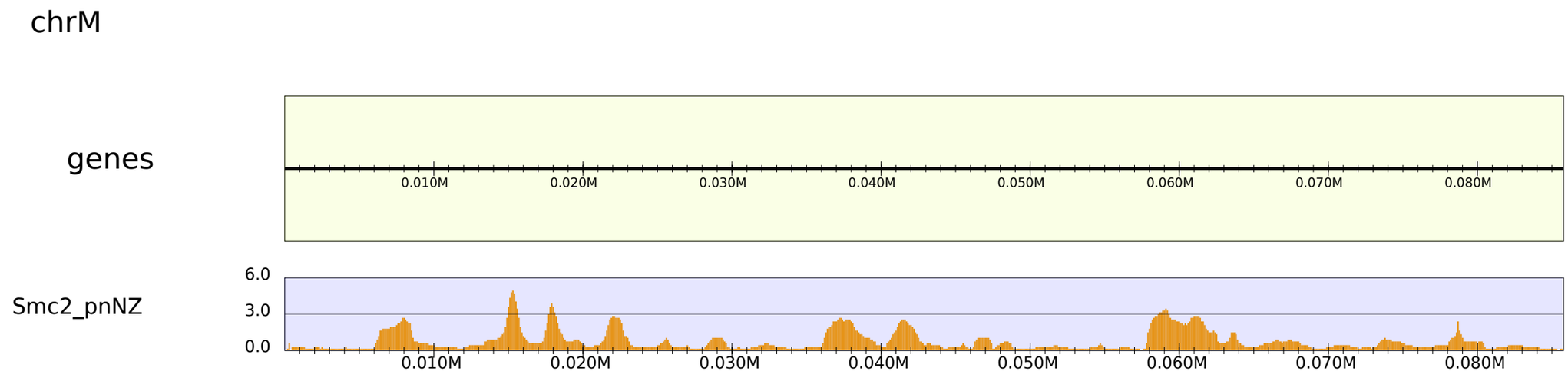
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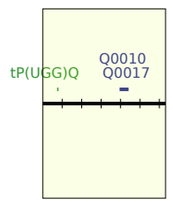
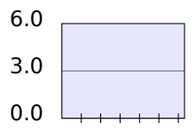
chr2micron

genes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