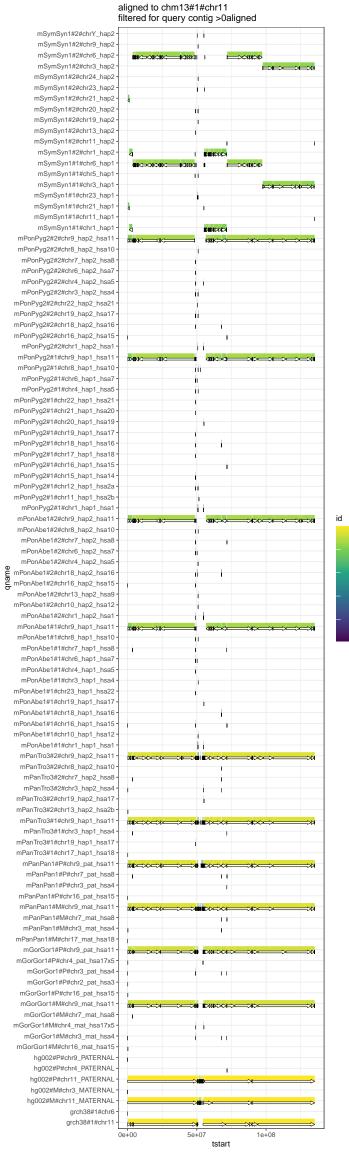
aligned to chm13#1#chr1 filtered for query contig >0aligned mSymSyn1#2#chr12 hap2
mSymSyn1#2#chr12 hap2
mSymSyn1#2#chr12 hap2
mSymSyn1#2#chr12 hap2
mSymSyn1#2#chr13 hap2
mSymSyn1#2#chr13 hap2
mSymSyn1#2#chr13 hap2
mSymSyn1#2#chr13 hap2
mSymSyn1#2#chr13 hap2
mSymSyn1#1#chr1 hap1
mSymSyn1#1#chr1 hap2
mSymSyn1#1#chr1 hap2
mSymSyn1#1#chr1 hap1
mSymSyn1#1#chr1 hap2
mPonPyg2#2#chr16
mPonPyg2#2#chr16
mPonPyg2#2#chr16
mPonPyg2#2#chr16
mPonPyg2#2#chr16
mPonPyg2#2#chr16
monPyg2#2#chr16
monPyg2#2#chr16
monPyg2#1#chr16
monPyg2#1#chr2
mPonPyg2#1#chr2
mPonPyg2#1#chr2
mPonPyg2#1#chr2
mPonPyg2#1#chr2
mPonPyg2#1#chr2
mPonPyg2#1#chr2
mPonPyg2#1#chr2
mPonPyg2#1#chr2
mPonPyg2#1#chr2
mPonPyg2#1#chr16
mPo **₩**<⊃ 11 ı 5.0e+07 1.0e+08 2.0e+08 0.0e+00 1.5e+08 2.5e+08 tstart

id



aligned to chm13#1#chr12 filtered for query contig >0aligned mSymSyn1#2#chr5 hap2 mSymSyn1#2#chr23_hap2 mSymSyn1#2#chr22_hap2 mSymSyn1#2#chr2_hap2 mSymSyn1#2#chr19_hap2 mSvmSvn1#2#chr17 hap2 SHOWN mSymSyn1#2#chr15_hap2 mSymSyn1#2#chr13_hap2 mSymSyn1#2#chr12_hap2 mSymSyn1#2#chr11_hap2 mSymSyn1#2#chr10_hap2 mSymSyn1#2#chr1_hap2 mSymSyn1#1#chr5_hap1 mSymSyn1#1#chr24_hap1 mSymSyn1#1#chr23_hap1 mSymSyn1##khrl24_hap1 mSymSyn1##khrl24_hap1 mSymSyn1##khrl24_hap1 mSymSyn1##khrl24_hap1 mSymSyn1##khrl2 hap1 mSymSyn1##khrl19_hap1 mSymSyn1##khrl19_hap1 mSymSyn1##khrl10_hap1 mSymSyn1##khrl10_hap1 mSymSyn1##khrl10_hap1 mSymSyn1##khrl10_hap1 mPonPyg2#2#khrl6_hap2_hsa1 mPonPyg2#2#khrl6_hap2_hsa1 mPonPyg2#2#khrl6_hap2_hsa1 mPonPyg2#2#khrl12_hap2_hsa2 mPonPyg2#2#khrl12_hap2_hsa1 mPonPyg2#2#khrl12_hap2_hsa1 mPonPyg2#2#khrl12_hap2_hsa1 mPonPyg2#2#khrl12_hap2_hsa1 mPonPyg2#2#khrl12_hap2_hsa1 mPonPyg2#2#khrl12_hap2_hsa1 mPonPyg2#2#khrl12_hap2_hsa1 mPonPyg2#2#khrl12_hap2_hsa1 mPonPyg2##khrl12_hap1_hsa1 mPonPyg2##khrl12_hap1_hsa1 mPonPyg2##khrl12_hap1_hsa1 mPonPyg2##khrl12_hap1_hsa1 mPonPyg2##khrl12_hap1_hsa1 mPonPyg2##khrl12_hap1_hsa1 mPonPyg2##khrl12_hap1_hsa1 mPonPyg2##khrl12_hap1_hsa1 mPonPyg2##khrl15_hap1_hsa1 mPonPyg2##khrl15_hap1_hsa1 mPonPyg2##khrl15_hap1_hsa1 mPonPyg2##khrl15_hap1_hsa1 mPonPyg2##khrl16_hap1_hsa1 mPonP mPonPyg2#1#chr15_hap1_hsa14
mPonPyg2#1#chr14_hap1_hsa13
mPonPyg2#1#chr12_hap1_hsa2
mPonPyg2#1#chr12_hap1_hsa2b
mPonPyg2#1#chr10_hap1_hsa2b
mPonPyg2#1#chr11_hap1_hsa12
mPonPyg2#1#chr11_hap1_hsa11
mPonAbe1#2#chr14_hap1_hsa11
mPonAbe1#2#chr8_hap2_hsa7
mPonAbe1#2#chr8_hap2_hsa10
mPonAbe1#2#chr8_hap2_hsa10
mPonAbe1#2#chr8_hap2_hsa10
mPonAbe1#2#chr8_hap2_hsa7 mPonAbe1#2#chr6 hap2 hsa7 mPonAbe1#z#chr12_hap2_hsa21 mPonAbe1#z#chr12_hap2_hsa17 mPonAbe1#z#chr19_hap2_hsa17 mPonAbe1#z#chr17_hap2_hsa18 mPonAbe1#z#chr16_hap2_hsa13 mPonAbe1#z#chr15_hap2_hsa13 id mPonAbe1#2#chr14_hap2_hsa13
mPonAbe1#2#chr12_hap2_hsa9
mPonAbe1#2#chr12_hap2_hsa2_amPonAbe1#2#chr10_hap2_hsa12
mPonAbe1#2#chr10_hap2_hsa1
mPonAbe1#1#chrX_hap1_hsaX
mPonAbe1#1#chr8_hap1_hsa10
mPonAbe1#1#chr8_hap1_hsa10
mPonAbe1#1#chr8_hap1_hsa10
mPonAbe1#1#chr8_hap1_hsa10
mPonAbe1#1#chr8_hap1_hsa10
mPonAbe1#1#chr8_hap1_hsa10
mPonAbe1#1#chr8_hap1_hsa10 mPonAbe1#1#chr6_hap1_hsa7 mPonAbe1#1#chr22_hap1_hsa21 mPonAbe1#1#chr19_hap1_hsa17 mPonAbe1#1#chr18_hap1_hsa16 mPonAbe1#1#chr17_hap1_hsa18 mPonAbe1#1#chr14_hap1 hsa13 mPonAbe1#1#chr13_hap1_hsa9 mPonAbe1#1#chr12_hap1_hsa2a mPonAbe1#1#chr11_hap1_hsa2b mPonAbe1#1#chr10_hap1_hsa12 mPonAbe1#1#chr10_hap1_hsa1 mPonTro3#2#chr1_nap1_nsa1 mPanTro3#2#chr8_hap2_hsa10 mPanTro3#2#chr21_hap2_hsa20 mPanTro3#2#chr21_hap2_hsa3 mPanTro3#2#cht2_hap2_hsa18 mPanTro3#2#cht71_hap2_hsa18 mPanTro3#2#cht15_hap2_hsa14 mPanTro3#2#cht10_hap2_hsa12 mPanTro3#1#cht8_hap1_hsa10 mPanTro3#1#cht8_hap1_hsa10 mPanTro3#1#cht18_hap1_hsa18 mPanTro3#1#cht18_hap1_hsa18 mPanTro3#1#cht17_hap1_hsa18 mPanTro3#1#cht10_hap1_hsa12 mPanTro3#1#cht10_hap1_hsa11 mPanTro3#1#cht18_hap1_hsa11 mPanTro3#1#cht18_hap1_hsa11 mPanTro3#1#cht18_hap1_hsa11 mPanTro3#1#cht18_hap1_hsa11 mPanTro3#1#cht18_hap1_hsa11 mPanPan1#P#chr8_pat_hsa10 mPanPan1#P#chr23_pat_hsa22 mPanPan1#P#chr21_pat_hsa20 mPanPan1#P#chr15_pat_hsa14 mPanPan1#P#chr10_pat_hsa12 mPanPan1#M#chr8_mat_hsa10 mPanPan1#M#chr4_mat_hsa5 mPanPan1#M#chr23_mat_hsa22 mPanPan1#M#chr19_mat_hsa17 mPanPan1#M#chr19_mat_hsa17
mPanPan1#M#chr18_mat_hsa16
mPanPan1#M#chr10_mat_hsa12
mGorGor1#P#chr10_mat_hsa12
mGorGor1#P#chr10_mat_hsa10
mGorGor1#P#chr6_pat_hsa10
mGorGor1#P#chr6_pat_hsa6
mGorGor1#P#chr6_pat_hsa6
mGorGor1#P#chr21_pat_hsa20
mGorGor1#P#chr21_pat_hsa20
mGorGor1#P#chr20_pat_hsa19
mGorGor1#P#chr20_pat_hsa19
mGorGor1#P#chr20_pat_hsa19 nGorGorf#P#chr20_pat_hsa19 mGorGorf#P#chr2_pat_hsa3 nGorGorf#P#chr18_pat_hsa16 nGorGorf#P#chr10_pat_hsa12 mGorGorf#P#chr1_pat_hsa1 mGorGorf#M#chr7_mat_hsa8 mGorGor1#M#chr/_mat_hsa8 mGorGor1#M#chr6_mat_hsa7 mGorGor1#M#chr5_mat_hsa6 mGorGor1#M#chr21_mat_hsa20 mGorGor1#M#chr20_mat_hsa19 mGorGor1#M#chr2_mat_hsa3 mGorGof1#M#chr18_mat_hsa16 mGorGor1#M#chr10_mat_hsa12 mGorGor1#M#chr10_mat_hsa12 mGorGor1#M#chr1_mat_hsa1 hg002#P#chr12_PATERNAL hg002#M#chr12_MATERNAL 111 grch38#1#chr12 1e+08 0e+00 5e+07 tstart

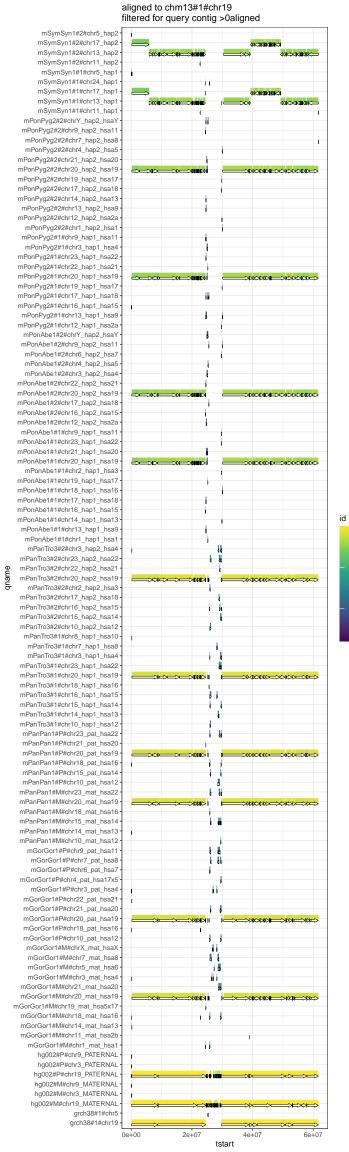
0.9

aligned to chm13#1#chr16 filtered for query contig >0aligned mSymSyn1#2#chr9 hap2 mSymSyn1#2#chr5_hap2 nSymSyn1#2#chr20_hap2 nSymSyn1#2#chr19_hap2 <140 I mSymSyn1#2#chr18_hap2 mSvmSvn1#2#chr16 hap2 mSymSyn1#2#chr14_hap2 mSymSyn1#2#chr13_hap2 mSymSyn1#2#chr11_hap2 mSymSyn1#1#chr5_hap1 nSymSyn1#1#chr24_hap1 nSymSyn1#1#chr19_hap1 nSymSyn1#1#chr18_hap1 KKO mSymSyn1#1#chr14_hap1 mSymSyn1#1#chr11_hap1 mPonPyg2#2#chr9_hap2_hsa11 mPonPyg2#2#chr7_hap2_hsa8 mPonPyg2#2#chr4_hap2_hsa5 mPonPyg2#2#chr42_hap2_hsa21 mPonPyg2#2#chr4_hap2_hsa5mPonPyg2#2#chr4_hap2_hsa16mPonPyg2#2#chr18_hap2_hsa16mPonPyg2#2#chr18_hap2_hsa16mPonPyg2#2#chr15_hap2_hsa16mPonPyg2#2#chr15_hap2_hsa14mPonPyg2#2#chr15_hap2_hsa14mPonPyg2#2#chr14_hap2_hsa13mPonPyg2#2#chr1_hap2_hsa2mPonPyg2#2#chr1_hap2_hsa2mPonPyg2#1#chr1_hap2_hsa1mPonPyg2#1#chr4_hap1_hsa6mPonPyg2#1#chr2_hap1_hsa8mPonPyg2#1#chr2_hap1_hsa16mPonPyg2#1#chr16_hap1_hsa16mPonPyg2#1#chr16_hap1_hsa16mPonPyg2#1#chr16_hap1_hsa16mPonPyg2#1#chr16_hap1_hsa16mPonPyg2#1#chr16_hap1_hsa16mPonPyg2#1#chr16_hap1_hsa16mPonPyg2#1#chr16_hap1_hsa16mPonPyg2#1#chr16_hap1_hsa16mPonPyg2#1#chr16_hap1_hsa16mPonPyg2#1#chr16_hap1_hsa16mPonPyg2#1#chr16_hap1_hsa16mPonPyg2#1#chr16_hap1_hsa16mPonPyg2#1#chr16_hap1_hsa16mPonAb61#2#chr16_hap2_hsa7mPonAb61#2#chr26_hap2_hsa2mPonAb61#2#chr16_hap2_hsa2mPonAb61#2#chr16_hap2_hsa16mPon **→** mPonAbe1#2#chr18_hap2_hsa16 mPonAbe1#2#chr16_hap2_hsa15 mPonAbe1#2#chr15_hap2_hsa14 CHC CHCCCOM mPonAbe1#2#chr14_hap2_hsa13 mPonAbe1#2#chr13_hap2_hsa9 mPonAbe1#2#chr12_hap2_hsa2a mPonAbe1#1#chr9_hap1_hsa11 mPonAbe1#1#chr6_hap1_hsa7 mPonAbe1#1#chr23_hap1_hsa22 mPonAbe1#1#chr22_hap1_hsa21 -mPonAbe1#1#chr18_hap1_hsa16 -mPonAbe1#1#chr17_hap1_hsa18 -mPonAbe1#1#chr16_hap1_hsa15 mPonAbe1#1#chr16_hap1_hsa15-mPonAbe1#1#chr15_hap1_hsa13-mPonAbe1#1#chr11_hap1_hsa13-mPonAbe1#1#chr11_hap1_hsa13-mPonAbe1#1#chr11_hap1_hsa1-mPonTo3#2#chrY_hap2_hsa1-mPanTro3#2#chrY_hap2_hsa5-mPanTro3#2#chr2_hap2_hsa5-mPanTro3#2#chr2_hap2_hsa6-mPanTro3#2#chr2_hap2_hsa2-mPanTro3#2#chr2_hap2_hsa2-mPanTro3#2#chr2_hap2_hsa2-mPanTro3#2#chr2_hap2_hsa2mPanTro3#2#chr23_hap2_hsa20-mPanTro3#2#chr20_hap2_hsa19-mPanTro3#2#chr20_hap2_hsa19-mPanTro3#2#chr16_hap2_hsa14-mPanTro3#2#chr16_hap2_hsa14-mPanTro3#2#chr12_hap2_hsa2a-mPanTro3#2#chr11_hap2_hsa9-mPanTro3#2#chr12_hap2_hsa3amPan Iro3#2#chr11_hap2_hsa9 mPanTro3#2#chr10_hap2_hsa12 mPanTro3#1#chr8_hap1_hsa10 mPanTro3#1#chr6_hap1_hsa7 mPanTro3#1#chr5_hap1_hsa6 mPanTro3#1#chr4_hap1_hsa5 mPanTro3#1#chr23_hap1_hsa5 mPanTro3#1#chr23_hap1_hsa20 mPanTro3#1#chr21_hap1_hsa20 mPanTro3#1#chr20_hap1_hsa19 mPanTro3#1#chr2_hap1_hsa17 - mPanTro3#1#chr12_hap1_hsa17 - mPanTro3#1#chr18_hap1_hsa17 - mPanTro3#1#chr18_hap1_hsa16 - mPanTro3#1#chr15_hap1_hsa14 - mPanTro3#1#chr12_hap1_hsa2a - mPanTro3#1#chr12_hap1_hsa17 - mPanTro3#1#chr12_hap1_hsa17 - mPanTro3#1#chr12_hap1_hsa17 - mPanTro3#1#chr12_hap1_hsa17 - mPanTro3#1#chr12_hap1_hsa18 - mPanTro mPanTro3#1#chr11_hap1_hsa9 nPanTro3#1#chr10_hap1_hsa12 mPanTro3#1#chr1_hap1_hsa1 mPanPan1#P#chr9_pat_hsa11 mPanPan1#P#chr9_pat_hsa11mPanPan1#P#chr4_pat_hsa7mPanPan1#P#chr4_pat_hsa5mPanPan1#P#chr21_pat_hsa20mPanPan1#P#chr19_pat_hsa16mPanPan1#P#chr16_pat_hsa16mPanPan1#P#chr15_pat_hsa16mPanPan1#P#chr15_pat_hsa16mPanPan1#P#chr12_pat_hsa2amPanPan1#P#chr12_pat_hsa2amPanPan1#M#chr12_mat_hsa2
mPanPan1#M#chr8_mat_hsa10mPanPan1#M#chr8_mat_hsa10mPanPan1#M#chr8_mat_hsa10mPanPan1#M#chr8_mat_hsa10mPanPan1#M#chr8_mat_hsa10mPanPan1#M#chr6_mat_hsa7 mPanPan1#M#chr4_mat_hsa5 mPanPan1#M#chr3_mat_hsa4 mPanPan1#M#chr3_mat_hsa22 mPanPant#M#chr23_mat_hsa20 mPanPant#M#chr21_mat_hsa10 mPanPant#M#chr19_mat_hsa17 mPanPant#M#chr19_mat_hsa17 mPanPant#M#chr12_mat_hsa16 mPanPant#M#chr10_mat_hsa12 mGorGort#P#chr10_pat_hsa11 mGorGort#P#chr10_pat_hsa11 mGorGort#P#chr10_pat_hsa11 mGorGort#P#chr10_pat_hsa10 mGorGort#P#chr10_pat_hsa10 mGorGor1#P#chr6_pat_hsa7 mGorGor1#P#chr4_pat_hsa17x5 mGorGor1#P#chr21_pat_hsa20 mGorGor1#P#chr2_pat_hsa3 mGorGor1#P#chr2_pat_hsa3-mGorGor1#P#chr18_pat_hsa16-mGorGor1#P#chr1_pat_hsa1-mGorGor1#M#chr9_mat_hsa11-mGorGor1#M#chr6_mat_hsa8-mGorGor1#M#chr6_mat_hsa7mGorGor1#M#chr5 mat hsa6 nGorGor1#M#chr4_mat_hsa17x5 mGorGor1#M#chr22_mat_hsa21 mGorGor1#M#chr20_mat_hsa19 mGorGor1#M#chr12_mat_hsa19 mGorGor1#M#chr10_mat_hsa16 mGorGor1#M#chr10_mat_hsa12 mGorGor1#M#chr1_mat_hsa1 hg002#P#chr16_PATERNAL hg002#M#chr16_MATERNAL grch38#1#chr16 -7.5e+07 0.0e+00 5.0e+07 2.5e+07 1.0e+08

0.95

0.90

aligned to chm13#1#chr17 filtered for query contig >0aligned mSymSyn1#2#chr9_hap2 mSymSyn1#2#chr8 hap2 mSymSyn1#2#chr5_hap2 mSymSyn1#2#chr3_hap2 mSymSyn1#2#chr23_hap2 mSymSyn1#2#chr20_hap2 mSvmSvn1#2#chr2 hap2 mSymSyn1#2#chr16_hap2 mSymSyn1#2#chr14_hap2 W - N mSymSyn1#2#chr12_hap2 mSymSyn1#1#chr9 hap1 mSymSyn1#1#chr5 hap1 mSymSyn1#1#chr3_hap1 mSymSyn1#1#chr23_hap1 mSymSyn1#1#chr20_hap1 mSvmSvn1#1#chr2 hap1 mSymSyn1#1#chr16_hap1 mSymSyn1#1#chr14_hap1 W N mSymSyn1#1#chr12_hap1 mPonPyg2#2#chr4_hap2_hsa5 mPonPyg2#2#chr3 hap2 hsa4 mPonPyg2#2#chr23_hap2_hsa22 mPonPyg2#2#chr22_hap2_hsa21 mPonPyg2#2#chr19_hap2_hsa17 mPonPvg2#2#chr18 hap2 hsa16 mPonPyg2#2#chr17_hap2_hsa18 mPonPyg2#2#chr16_hap2_hsa15 mPonPyg2#2#chr15_hap2_hsa14 mPonPyg2#2#chr14_hap2_hsa13 mPonPyg2#2#chr13 hap2 hsa9 mPonPyg2#2#chr12_hap2_hsa2a mPonPyg2#2#chr11_hap2_hsa2b mPonPyg2#1#chr9_hap1_hsa11 mPonPvg2#1#chr8 hap1 hsa10 mPonPyg2#1#chr7_hap1_hsa8 mPonPyg2#1#chr6_hap1_hsa7 mPonPyg2#1#chr4_hap1_hsa5 mPonPyg2#1#chr3_hap1_hsa4 mPonPyg2#1#chr23 hap1 hsa22 mPonPyg2#1#chr22_hap1_hsa21 mPonPyg2#1#chr20_hap1_hsa19 mPonPyg2#1#chr19_hap1_hsa17 mPonPva2#1#chr16 hap1 hsa15 mPonPyg2#1#chr15_hap1_hsa14 mPonPyg2#1#chr12_hap1_hsa2a mPonAbe1#2#chrY_hap2_hsaY mPonAbe1#2#chr8_hap2_hsa10 mPonAbe1#2#chr6 hap2 hsa7 mPonAbe1#2#chr4_hap2_hsa5 mPonAbe1#2#chr19_hap2_hsa17 mPonAbe1#2#chr16_hap2_hsa15 mPonAbe1#2#chr15_hap2_hsa14 mPonAbe1#2#chr12_hap2_hsa2a mPonAbe1#2#chr11_hap2_hsa2b mPonAbe1#2#chr1_hap2_hsa1 mPonAbe1#1#chr9_hap1_hsa11 mPonAbe1#1#chr8 hap1 hsa10 mPonAbe1#1#chr7_hap1_hsa8 mPonAbe1#1#chr6_hap1_hsa7 mPonAbe1#1#chr4_hap1_hsa5 mPonAbe1#1#chr23_hap1_hsa22 mPonAbe1#1#chr22_hap1_hsa21 mPonAbe1#1#chr2_hap1_hsa3 PonAbe1#1#chr19_hap1_hsa17 mPonAbe1#1#chr17_hap1_hsa18 mPonAbe1#1#chr14 hap1 hsa13 mPonAbe1#1#chr13_hap1_hsa9 mPonAbe1#1#chr12_hap1_hsa2a mPonAbe1#1#chr11_hap1_hsa2b mPanTro3#2#chr5 hap2 hsa6 mPanTro3#2#chr19_hap2_hsa17 mPanTro3#2#chr12_hap2_hsa2a mPanTro3#2#chr1_hap2_hsa1 mPanTro3#1#chr9_hap1_hsa11 mPanTro3#1#chr5 hap1 hsa6 mPanTro3#1#chr19_hap1_hsa17 mPanTro3#1#chr18_hap1_hsa16 mPanTro3#1#chr1_hap1_hsa1 mPanPan1#P#chr9 pat hsa11 mPanPan1#P#chr5_pat_hsa6 anPan1#P#chr19_pat_hsa17 mPanPan1#M#chr8_mat_hsa10 mPanPan1#M#chr6_mat_hsa7 mPanPan1#M#chr19_mat_hsa17 mPanPan1#M#chr12_mat_hsa2a mGorGor1#P#chrY_pat_hsaY mGorGor1#P#chr6_pat_hsa7 mGorGor1#P#chr4 pat hsa17x5 mGorGor1#P#chr3_pat_hsa4 mGorGor1#P#chr2_pat_hsa3 GorGor1#P#chr19_pat_hsa5x17 mGorGor1#P#chr18_pat_hsa16 mGorGor1#P#chr17 pat hsa18 mGorGor1#M#chrX_mat_hsaX mGorGor1#M#chr4_mat_hsa17x5 mGorGor1#M#chr23_mat_hsa22 mGorGor1#M#chr2_mat_hsa3 mGorGor1#M#chr19 mat hsa5x17 mGorGor1#M#chr18_mat_hsa16 mGorGor1#M#chr16_mat_hsa15 hg002#P#chr17_PATERNAL hg002#M#chr17_MATERNAL grch38#1#chr17 (KKX 6e+07 0e+00 2e+07 4e+07 8e+07 tstart

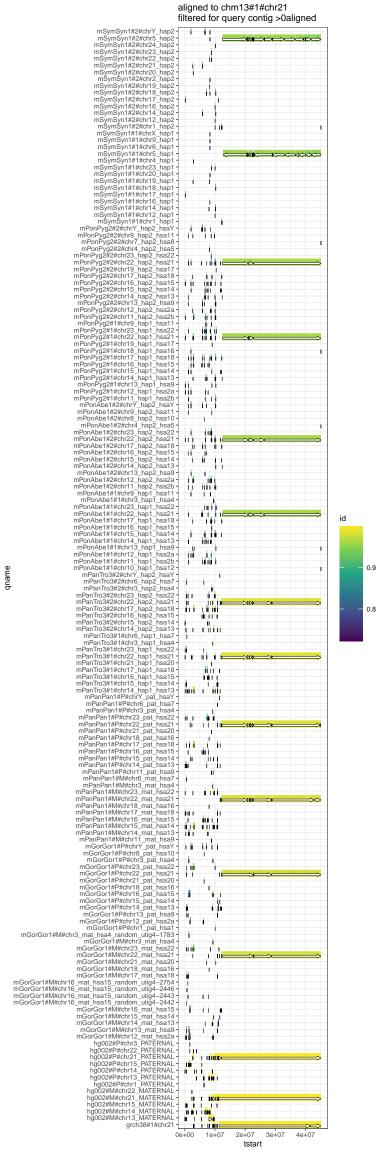


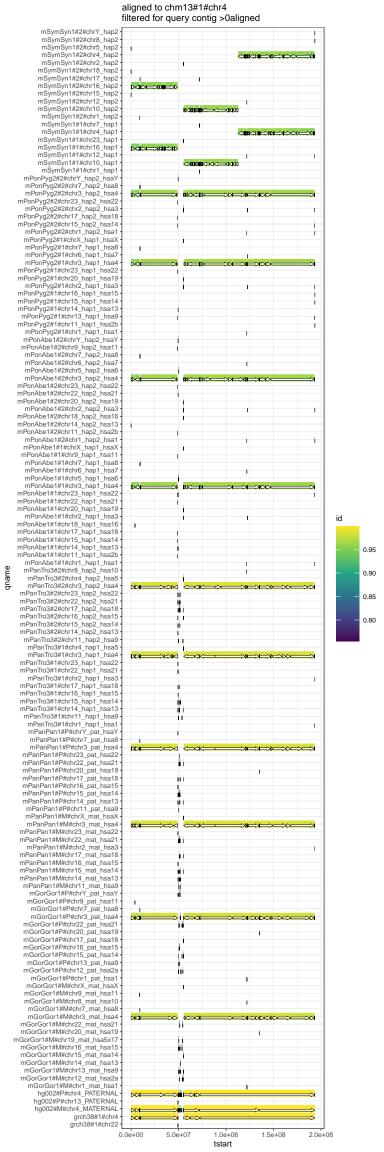
០ ន

aligned to chm13#1#chr2 filtered for query contig >0aligned mSymSyn1#2#ch/8_hap2
mSymSyn1#2#ch/8_hap2
mSymSyn1#2#ch/8_hap2
mSymSyn1#2#ch/8_hap2
mSymSyn1#2#ch/8_hap2
mSymSyn1#2#ch/8_hap2
mSymSyn1#2#ch/8_hap2
mSymSyn1#2#ch/18_hap2
mSymSyn1#2#ch/18_hap2
mSymSyn1#2#ch/14_hap2
mSymSyn1#2#ch/11_hap1
mSymSyn1#1#ch/8_hap1
mSymSyn1#1#ch/8 mSymSyn1#2#chr9 hap2 m man mSymSyn1###chr9_hap1mSymSyn1###chr8_hap1mSymSyn1###chr8_hap1mSymSyn1###chr2_hap1mSymSyn1###chr2_hap1mSymSyn1###chr2_hap1mSymSyn1###chr2_hap1mSymSyn1###chr1_hap1mSymSyn1###chr1_hap1mSymSyn1###chr1_hap1mSymSyn1###chr1_hap1mSymSyn1###chr1_hap1mSymSyn1###chr1_hap1mSymSyn1###chr1_hap1mSymSyn1###chr1_hap1mSymSyn1###chr1_hap1mSymSyn1###chr1_hap1mPonPyg2###chr1_hap2_has4mPonPyg2###chr1_hap2_has4mPonPyg2###chr1_hap2_has4mPonPyg2###chr12_hap2_has4mPonPyg2###chr12_hap2_has4mPonPyg2###chr12_hap2_has4mPonPyg2###chr12_hap2_has4mPonPyg2###chr16_hap2_has1mPonPyg2###chr16_hap2_has1mPonPyg2###chr11_hap2_has4mPonPyg2###chr16_hap2_has1mPonPyg2###chr16_hap2_has1mPonPyg2###chr16_hap1_has1mPonPyg2###chr16_hap1_has1mPonPyg2###chr16_hap1_has1mPonPyg2###chr15_hap1_has1mPonPyg2###chr15_hap1_has1mPonPyg2###chr15_hap1_has1mPonPyg2###chr15_hap1_has1mPonPyg2###chr16_hap2_has1mPonPyg2###chr16_hap1_has1mPonAbe1###chr16_hap1_has1mPonAbe1###chr16_hap1_has1mPonAbe1###chr16_hap1_has1mPonAbe1###chr16_hap1_has1mPonAbe1###chr16_hap1_has1mPonAbe1###chr16_hap2_has1mPonAbe1##chr16_hap2_ha 100< CO00CX mPonAbe1#2#chr120_hap2_hsa19
mPonAbe1#2#chr17_hap2_hsa18
mPonAbe1#2#chr16_hap2_hsa15
mPonAbe1#2#chr12_hap2_hsa26
mPonAbe1#2#chr11_hap2_hsa26
mPonAbe1#2#chr11_hap2_hsa26
mPonAbe1#1#chr12_hap1_hsa8
mPonAbe1#1#chr12_hap1_hsa19
mPonAbe1#1#chr12_hap1_hsa19
mPonAbe1#1#chr14_hap1_hsa13
mPonAbe1#1#chr14_hap1_hsa13
mPonAbe1#1#chr14_hap1_hsa13
mPonAbe1#1#chr14_hap1_hsa26
mPonAbe1#1#chr11_hap1_hsa28
mPonAbe1#1#chr11_hap1_hsa28
mPonAbe1#1#chr14_hap1_hsa28
mPonAbe1#1#chr14_hap1_hsa28
mPonAbe1#1#chr14_hap1_hsa28
mPonAbe1#2#chr14_hap1_hsa18 id mPonAbel##ch11_hap1_hsa2b mPanTro3#2#chr9 hap2_hsa10 mPanTro3#2#chr7_hap2_hsa10 mPanTro3#2#chr2_hap2_hsa10 mPanTro3#2#chr2_hap2_hsa20 mPanTro3#2#chr12_hap2_hsa3 mPanTro3#2#chr19_hap2_hsa16 mPanTro3#2#chr18_hap2_hsa16 mPanTro3#2#chr14_hap2_hsa13 mPanTro3#2#chr14_hap2_hsa13 mPanTro3#2#chr14_hap2_hsa2b mPanTro3#2#chr14_hap2_hsa2b mPanTro3#2#chr14_hap2_hsa2b mPanTro3#1#chr14_hap1_hsa10 mPanTro3#1#chr4_hap1_hsa10 mPanTro3#1#chr4_hap1_hsa10 mPanTro3#1#chr4_hap1_hsa10 mPanTro3#1#chr4_hap1_hsa10 mPanTro3#1#chr4_hap1_hsa10 mPanTro3#1#chr4_hap1_hsa10 mPanTro3#1#chr4_hap1_hsa10 ı mPanTro3###chr4_hap1_hsa21 mPanTro3##tchr22_hap1_hsa21 mPanTro3##tchr12_hap1_hsa20 mPanTro3##tchr13_hap1_hsa2b mPanTro3##tchr13_hap1_hsa2b mPanTro3###chr12_hap1_hsa2b mPanPan1#P#chr12_hap1_hsa10 mPanPan1#P#chr12_pat_hsa17 mPanPan1#P#chr12_pat_hsa17 mPanPan1#P#chr18_pat_hsa17 mPanPan1#P#chr18_pat_hsa16 mPanPan1#P#chr18_pat_hsa16 mPanPan1#P#chr18_pat_hsa16 mPanTro3#1#chr4_hap1_hsa5 11 mPanPan1#Pitchr18_pat_hsa16 mPanPan1#Pitchr16_pat_hsa15 mPanPan1#Pitchr13_pat_hsa2b mPanPan1#Pitchr11_pat_hsa9 mPanPan1#Pitchr11_pat_hsa9 mPanPan1#Witchr0_pat_hsa12 mPanPan1#Witchr8_mat_hsa11 mPanPan1#Witchr9_mat_hsa11 mPanPan1#Witchr9_mat_hsa19 mPanPan1#Witchr91_mat_hsa19 mPanPan1#M#chr21 mat hsa20 mPanPant#M#chr21_mat_hsa20 mPanPant#M#chr20_mat_hsa19 mPanPant#M#chr18_mat_hsa16 mPanPant#M#chr16_mat_hsa15 mPanPant#M#chr13_mat_hsa25 mPanPant#M#chr13_mat_hsa2a mPanPant#M#chr11_mat_hsa2a mPanPant#M#chr11_mat_hsa2a mGorGor1#P#chr7_pat_hsa8 mGorGor1#P#chr3_pat_hsa7 mGorGor1#P#chr3_pat_hsa8 mGorGor1#P#chr3_pat_hsa8 mGorGor1#P#chr3 pat, hss44 mGorGor1#P#chr32, pat, hss21 mGorGor1#P#chr15, pat, hss16 mGorGor1#P#chr16, pat, hss18 mGorGor1#P#chr16, pat, hss13 mGorGor1#P#chr12, pat, hss29 mGorGor1#P#chr12, pat, hss20 mGorGor1#P#chr11, pat, hss20 mGorGor1#P#chrl_pat_hsa1
mGorGor1#M#chrl_mat_hsa10
mGorGor1#M#chrl6_mat_hsa7
mGorGor1#M#chrl8_mat_hsa16
mGorGor1#M#chrl7_mat_hsa18
mGorGor1#M#chrl1_mat_hsa18
mGorGor1#M#chrl1_mat_hsa13
mGorGor1#M#chrl12_mat_hsa13
mGorGor1#M#chrl12_mat_hsa28 mGorGor1#M#chr11_ mat_ hsa2b hg002#P#chr2_PATERNAL hg002#M#chr2_MATERNAL grch38#1#chr2 <u>>###</u>> 1.5e+08 2.0e+08 0.0e+00 5.0e+07 +08 2.5e+08 1.0e tstart

0.95

aligned to chm13#1#chr20 filtered for query contig >0aligned mSymSyn1#2#chrY hap2
mSymSyn1#2#chr2 hap2
mSymSyn1#2#chr24 hap2
mSymSyn1#2#chr20 hap2
mSymSyn1#2#chr20 hap2
mSymSyn1#2#chr20 hap2
mSymSyn1#2#chr19 hap2
mSymSyn1#2#chr19 hap2
mSymSyn1#2#chr19 hap2
mSymSyn1#2#chr16 hap1
mSymSyn1#2#chr16 hap1
mSymSyn1#1#chr6 hap1
mSymSyn1#1#chr6 hap1
mSymSyn1#1#chr6 hap1
mSymSyn1#1#chr6 hap1
mSymSyn1#1#chr6 hap1
mSymSyn1#1#chr6 hap1
mSymSyn1#1#chr16 hap1
mSymSyn1#1#chr17 hap2
has4
mPonPyg2#2#chr17 hap2 has4
mPonPyg2#2#chr17 hap2 has4
mPonPyg2#2#chr17 hap2 has1
mPonPyg2#2#chr17 hap2 has1
mPonPyg2#2#chr16 hap2 has1
mPonPyg2#2#chr16 hap1 has1
mPonPyg2#2#chr16 hap1 has1
mPonPyg2#2#chr11 hap2 has1
mPonPyg2#1#chr16 hap1 has1
mPonPyg2#1#chr17 hap2 has1
mPonPyg2#1#chr16 hap1 has1
mPonPyg2#1#chr17 hap2 has1
mPonAbe1#2#chr17 hap1 has1
mPonAbe1#2#chr17 hap2 has1
mPonAbe1#2#chr17 hap2 has1
mPonAbe1#2#chr17 hap2 has1
mPonAbe1#fhrhr17 hap1 has1
mPonAbe1#fhrhr17 hap1 has1
mPonAbe1#fhrhr17 ha 0=>K04KK-K--K--K i ١ ì Į 2e+07 4e+07 6e+07 0e+00 tstart



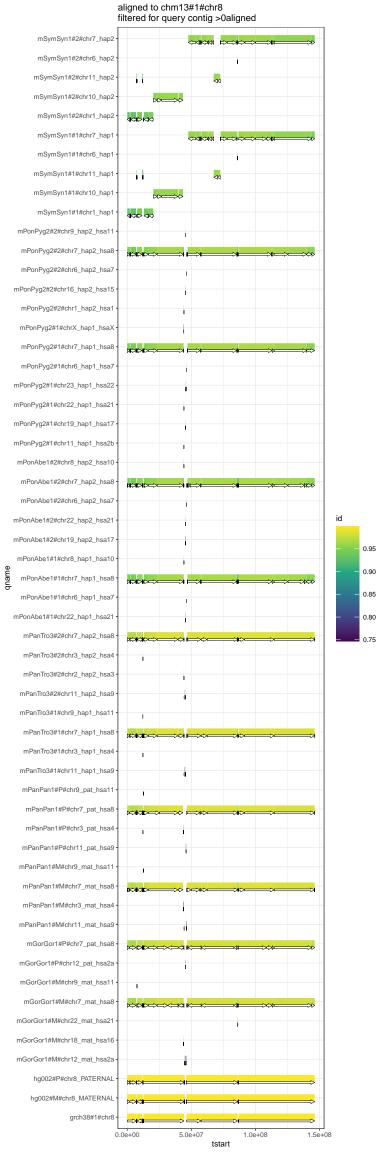


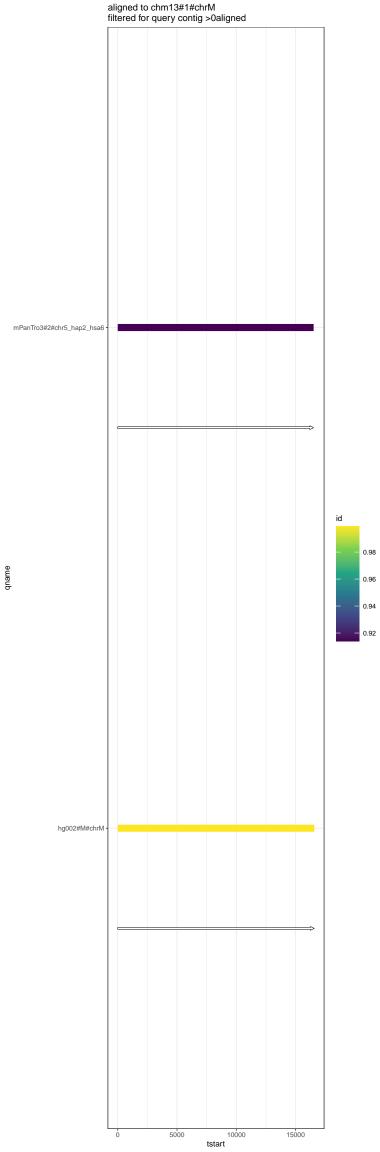
aligned to chm13#1#chr5 filtered for query contig >0aligned mSymSyn1#2#chrY, hap2
mSymSyn1#2#chr7, hap2
mSymSyn1#2#chr23, hap2
mSymSyn1#2#chr23, hap2
mSymSyn1#2#chr21, hap2
mSymSyn1#2#chr21, hap2
mSymSyn1#2#chr21, hap2
mSymSyn1#2#chr12, hap2
mSymSyn1#2#chr12, hap2
mSymSyn1#2#chr12, hap2
mSymSyn1#2#chr13, hap1
mSymSyn1#1#chr13, hap2, hsa4
mPonPyQ2#2#chr21, hap2, hsa4
mPonPyQ2#2#chr21, hap2, hsa4
mPonPyQ2#2#chr12, hap2, hsa4
mPonPyQ2#2#chr12, hap2, hsa4
mPonPyQ2#2#chr11, hap2, hsa4
mPonPyQ2#2#chr11, hap2, hsa4
mPonPyQ2#2#chr11, hap2, hsa4
mPonPyQ2#1#chr12, hap1, hsa4
mPonAbe1#2#chr12, hap1, hsa4
mPonAbe1#2#chr14, hap1, hsa4
mPonAbe1#1#chr14, hap1, hsa4
mPonAbe1#1#chr14, hap1, hsa4
mPonAbe1#1#chr14, hap1, hsa4
mPonAbe1#1#chr14, hap1, hsa4
mPan1ro3#2#chr14, hap2, hsa4
mPan1ro3#2#chr14, hap2, hsa4
mPan1ro3#2#chr14, hap2, hsa4
mPan1ro3#2#chr14, hap1, hsa4
mPan1ro3#2#chr14, hap2, hsa4
mP KK-NKI id ı n q 0.8 ij ı ı 11 0.0e+00 5.0e+07 1.0e+08 1.5e+08 tstart

aligned to chm13#1#chr6 filtered for query contig >0aligned mSymSyn1#2#chr4_hap2 mSymSyn1#2#chr23_hap2 mSymSyn1#2#chr2 hap2 mSvmSvn1#1#chr4 hap1 mSymSyn1#1#chr23 hap1 mSymSyn1#1#chr2_hap1 mPonPyg2#2#chr9_hap2_hsa11 mPonPyg2#2#chr5_hap2_hsa6 mPonPyg2#2#chr17_hap2_hsa18 mPonPyg2#2#chr16_hap2_hsa15 mPonPyg2#2#chr13_hap2_hsa9 mPonPyg2#2#chr12 hap2 hsa2a mPonPvg2#1#chr9 hap1 hsa11 mPonPyg2#1#chr7 hap1 hsa8 mPonPyg2#1#chr5 hap1 hsa6 mPonPyg2#1#chr19_hap1_hs mPonPyg2#1#chr1_hap1_hsa1 mPonAbe1#2#chr8 hap2 hsa10 mPonAbe1#2#chr5_hap2_hsa6 mPonAbe1#2#chr4 hap2 hsa5 mPonAbe1#2#chr20 hap2 hsa19 mPonAbe1#2#chr2 hap2 hsa3 mPonAbe1#2#chr19 hap2 hsa17 0.95 aname 0.90 0.85 mPonAbe1#1#chr20 hap1 hsa19 mPonAbe1#1#chr19 hap1 hsa17 mPonAbe1#1#chr18 hap1 hsa16 mPonAbe1#1#chr17 hap1 hsa18 mPonAbe1#1#chr11 hap1 hsa2b mPanTro3#2#chr5_hap2_hsa6 PanTro3#1#chr2_hap1_hsa3 mPanPan1#P#chr5 pat hsa6 mPanPan1#M#chr5 mat hsa6 mPanPan1#M#chr2 mat hsa3 mPanPan1#M#chr19 mat hsa17 mGorGor1#P#chr5_pat_hsa6 mGorGor1#P#chr2_pat_hsa3 mGorGor1#M#chr19_mat_hsa5x17 hg002#P#chr8_PATERNAL hg002#P#chr6 PATERNAL hg002#P#chr1 PATERNAL hg002#M#chr8 MATERNAL hg002#M#chr6 MATERNAL hg002#M#chr1_MATERNAL grch38#1#chr6 0.0e+00 5.0e+07 1.0e+08 1.5e+08 tstart

aligned to chm13#1#chr7 filtered for query contig >0aligned mSymSyn1#2#chr6_hap2 mSymSyn1#2#chr5_hap2 access mSymSyn1#2#chr3_hap2 nSymSyn1#2#chr24_hap2 Impymisyntation in lapa msymSyn11#2#chr24 hap2: msymSyn1#2#chr24. hap2: msymSyn1#2#chr22. hap2: msymSyn1#2#chr12. hap2: msymSyn1#2#chr18. hap2: msymSyn1#2#chr14. hap2: msymSyn1#1#chr16. hap1: msymSyn1#1#chr6. hap1: msymSyn1#1#chr6. hap1: msymSyn1#1#chr6. hap1: msymSyn1#1#chr6. hap1: msymSyn1#1#chr6. hap1: msymSyn1#1#chr2. hap1: msymSyn1#1#chr2. hap1: msymSyn1#1#chr2. hap1: msymSyn1#1#chr12. hap1: msymSyn1#1#chr12. hap1: msymSyn1#1#chr14. hap1: h mSymSyn1##achr19_hap1mSymSyn1##achr16_hap1mSymSyn1##achr16_hap1mSymSyn1##achr14_hap1mSymSyn1##achr12_hap1mPonPyg2#2#achr1A_hap2_hsa1'mPonPyg2#2#achr1A_hap2_hsa1'mPonPyg2#2#achr2A_hap2_hsa1mPonPyg2#2#achr2A_hap2_hsa1mPonPyg2#2#achr2A_hap2_hsa2mPonPyg2#2#achr2A_hap2_hsa1mPonPyg2#2#achr12_hap2_hsa1mPonPyg2#2#achr12_hap2_hsa1mPonPyg2#2#achr16_hap2_hsa1mPonPyg2#2#achr16_hap2_hsa1mPonPyg2#2#achr16_hap2_hsa1mPonPyg2#2#achr1A_hap2_hsa1mPonPyg2#2#achr1A_hap2_hsa1mPonPyg2#2#achr1A_hap2_hsa2mPonPyg2#2#achr1A_hap2_hsa1mPonPyg2#1#achr2_hap1_hsa2mPonPyg2#1#achr2_hap1_hsa1mPonPyg2#1#achr2_hap1_hsa1mPonPyg2#1#achr2_hap1_hsa1mPonPyg2#1#achr1A_h DK XKKKKKKKKK mPonPyg2##idchr18_hap1_hsa16mPonPyg2##idchr17_hap1_hsa18mPonPyg2##idchr16_hap1_hsa15mPonPyg2##idchr16_hap1_hsa15mPonPyg2##idchr16_hap1_hsa15mPonPyg2##idchr16_hap1_hsa13mPonPyg2##idchr16_hap1_hsa13mPonPyg2##idchr16_hap1_hsa13mPonPyg2##idchr16_hap2_hsa14mPonAbe1#2#chr2_hap2_hsa2mPonAbe1#2#chr2_hap2_hsa14mPonAbe1#2#chr2_hap2_hsa2mPonAbe1#2#chr2_hap2_hsa2mPonAbe1#2#chr2_hap2_hsa2mPonAbe1#2#chr2_hap2_hsa2mPonAbe1#2#chr19_hap2_hsa2mPonAbe1#2#chr19_hap2_hsa13mPonAbe1#2#chr19_hap2_hsa13mPonAbe1#2#chr19_hap2_hsa14mPonAbe1#2#chr19_hap2_hsa14mPonAbe1#2#chr19_hap2_hsa2mPonAbe1#2#chr19_hap2_hsa2mPonAbe1#2#chr19_hap2_hsa2mPonAbe1#2#chr19_hap1_hsa14mPonAbe1#1#chr19_hap1_hsa14mPonAbe1#1#chr2_hap1_hsa2mPonAbe1#1#chr2_hap1_hsa2mPonAbe1#1#chr2_hap1_hsa14mPonAbe1#1#chr19_hap1_hsa14 mmm 0.85 mPanTro3#2#chr6 hap2 hsa7 mPanTro3#2#chr6 hap2 hsa7 mPanTro3#2#chr3 hap2 hsa4 mPanTro3#2#chr10 hap2 hsa16 mPanTro3#2#chr16 hap2 hsa16 mPanTro3#2#chr16 hap2 hsa16 mPanTro3#2#chr16 hap2 hsa16 mPanTro3#2#chr1 hap2 hsa11 mPanTro3#2#chr1 hap2 hsa11 mPanTro3#2#chr1 hap1 hsa11 mPanTro3#1#chr6 hap1 hsa11 mPanTro3#1#chr6 hap1 hsa16 mPanTro3#1#chr6 hap1 hsa16 mPanTro3#1#chr16 hap1 hsa16 mPanPan1#P#chr20 hap1 hsa16 mPanPan1#P#chr20 hap1 hsa16 mPanPan1#P#chr15 hap1 hsa16 mPanPan1#P#chr15 hap1 hsa16 mPanPan1#P#chr16 hap1 hsa16 mPanPan1#M#chr6 mat hsa16 mPanPan1#M#chr6 mat hsa16 mPanPan1#M#chr6 mat hsa16 mPanPan1#M#chr6 hap1 hsa16 m ш 5.0e+07 1.0e+08 1.5e+08 0.0e+00

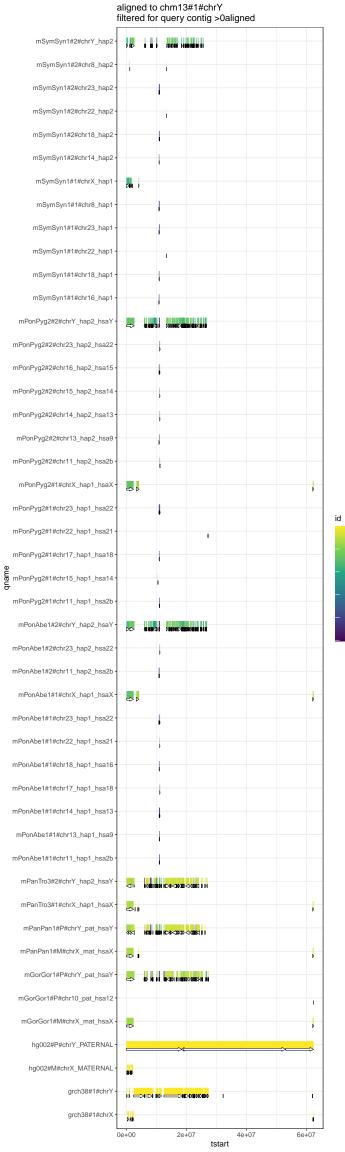
tstart





aligned to chm13#1#chr> filtered for query contig >0aligned mSymSyn1#2#chrY_hap2 ... mSymSyn1#2#chr8_hap2 mSymSyn1#2#chr5_hap2 mSymSyn1#2#chr3 hap2 mSymSyn1#2#chr2_hap2 mSymSyn1#2#chr18_hap2 mSymSyn1#2#chr14_hap2 mSymSyn1#1#chrX_hap1 mSymSyn1#1#chr24_hap1 mSymSyn1#1#chr20_hap1 mSymSyn1#1#chr2_hap1 mPonPyg2#2#chrY_hap2_hsaY mPonPyg2#2#chr9_hap2_hsa11 mPonPyg2#2#chr8 hap2 hsa10 mPonPyg2#2#chr7_hap2_hsa8 mPonPyg2#2#chr6 hap2 hsa7 mPonPyg2#2#chr22_hap2_hsa21 mPonPyg2#2#chr20 hap2 hsa19 mPonPyg2#2#chr17_hap2_hsa18 mPonPvg2#2#chr16 hap2 hsa15 mPonPyg2#2#chr12_hap2_hsa2a mPonPyg2#2#chr11_hap2_hsa2b mPonPyg2#2#chr1_hap2_hsa1 mPonPyg2#1#chrX_hap1_hsaX mPonPyg2#1#chr8_hap1_hsa10 mPonPyg2#1#chr7 hap1 hsa8 mPonPyg2#1#chr23_hap1_hsa22 mPonPyg2#1#chr17 hap1 hsa18 mPonPyg2#1#chr15_hap1_hsa14 mPonPyg2#1#chr13_hap1_hsa9 mPonPyg2#1#chr11_hap1_hs mPonPyg2#1#chr1_hap1_hsa1 mPonAbe1#2#chrY_hap2_hsaY mPonAbe1#2#chr9 hap2 hsa11 mPonAbe1#2#chr8_hap2_hsa10 mPonAbe1#2#chr7 hap2 hsa8 mPonAbe1#2#chr6_hap2_hsa7 mPonAbe1#2#chr17 hap2 hsa18 mPonAbe1#2#chr12_hap2_hsa2a PonAbe1#2#chr11_hap2_hsa2b mPonAbe1#2#chr1_hap2_hsa1 PonAbe1#1#chrX_hap1_hsaX mPonAbe1#1#chr4_hap1_hsa5 OnAbe1#1#chr23_hap1_hsa22 mPonAbe1#1#chr22_hap1_hsa21 onAbe1#1#chr15_hap1_hsa14 mPonAbe1#1#chr14 hap1 hsa13 mPonAbe1#1#chr12_hap1_hsa2a mPonAbe1#1#chr11_hap1_hsa2b mPanTro3#2#chrY_hap2_hs mPanTro3#2#chr9 hap2 hsa11 mPanTro3#2#chr3_hap2_hsa4 mPanTro3#2#chr19_hap2_hsa17 PanTro3#2#chr18_hap2_hsa16 mPanTro3#1#chrX hap1 hsaX mPanTro3#1#chr9_hap1_hsa11 mPanTro3#1#chr19_hap1_hsa17 PanPan1#P#chrY_pat_hsaY mPanPan1#P#chr9_pat_hsa11 mPanPan1#P#chr3_pat_hsa4 mPanPan1#P#chr19 pat hsa17 mPanPan1#P#chr18_pat_hs mPanPan1#M#chrX mat hsaX mPanPan1#M#chr9_mat_hsa11 mPanPan1#M#chr19 mat hsa17 mPanPan1#M#chr18_mat_hsa16 mGorGor1#P#chrY pat hsaY mGorGor1#P#chr9_pat_hsa11 mGorGor1#P#chr3_pat_hsa4 GorGor1#P#chr19_pat_hsa5x17 mGorGor1#P#chr18 pat hsa16 mGorGor1#P#chr17_pat_hsa18 mGorGor1#P#chr13_pat_hsa9 mGorGor1#P#chr12_pat_hsa2a mGorGor1#P#chr11_pat_hsa2b mGorGor1#P#chr1_pat_hsa1 mGorGor1#M#chrX mat hsaX mGorGor1#M#chr3_mat_hsa4 mGorGor1#M#chr18 mat hsa16 hg002#M#chrX_MATERNAL grch38#1#chrY grch38#1#chrX -1.0e+08 0.0e+00 5.0e+07 1.5e+08

tstart



0.85