



abcdefgabcdefgabcdefgabcdefgabcdefgabcdefgabcdefgabcdefgabcdefgabcdefgabcdefgabcdefgabcdefgabcdefgabcdefg
 YS-L-EDIQTKGKEVENFEKNLEECITRITNTEKCLKELMELKTKA-EL-EECRSLRS-CDQLEERVVS-MEDEMNEMK-EGKFREKRIKRN-QSLQEIW DY

1.3_o_50%_cn

cL1.1_50%_cn_1: ..E.....A.....E.....
 cL1.2_50%_cn_2: ..E.....E.....
 3_chr3_691-cL1_3:N.....S.....
 3_chr9_1178-cL1_4:K.....X.X.....
 3_chr12_222-cL1_5:I.V.....
 3_chrX_1343-cL1_6:T.....N.....
 3_chr5_892-cL1_7:V.....S.....
 3_chr8_1188-cL1_8:V.....N.....
 3_chr9_1167-cL1_9:F.....
 3_chr13_382-cL1_10:L.....
 3_chr3_581-cL1_11:L.....N.....L.....V.....G.....
 3_chr10_170-cL1_12:KE.....Y.....ND..P.....I.....
 3_chr11_192-cL1_13:X.....K.....
 3_chr5_851-cL1_14:I.....F.....
 3_chrX_1268-cL1_15:N.....R.....V.....X.X.....
 3_chr3_688-cL1_16:A.....
 3_chrX_1289-cL1_17:Q.....Y.....Q.....M.....
 3_chr10_178-cL1_18: ..T.....R.....
 3_chr16_469-cL1_19:E.....S..Y.....V.....X--X.S.....
 3_chrX_1275-cL1_20:A.....A.....N.....
 3_chr5_821-cL1_21: ...Q..E.....X.K.....E..A...H...V.....
 3_chrX_1269-cL1_22: ...E..X-...S...A...T...V.....
 3_chr5_871-cL1_23: ..Y.....
 3_chr5_880-cL1_24:
 3_chr8_1044-cL1_25:K.....A.....T.....
 3_chr14_386-cL1_26:*...K.....A.I.....
 3_chr2_595-cL1_27:Y.....
 3_chr5_841-cL1_28: .A.V.....*...N...K.....T.....
 3_chr3_667-cL1_29:I.....
 3_chr14_392-cL1_30:*T.....
 3_chr1_73-cL1_31:S.....V.....
 3_chr7_1057-cL1_32:D..S.....
 3_chrY_1303-cL1_33: H.....I...*...X.K.....K.....F.G.N.Y.W.....M.....H.....
 3_chr22_549-cL1_34:E..I.....Q.S..R.....L.....N.....V.....N.....
 3_chr16_405-cL1_35:Y.....Q.....X.....
 3_chr4_776-cL1_36:
 3_chr2_494-cL1_37:X.....Y.....
 3_chr19_402-cL1_38:G.....R.....Q.....H..QK...E.....
 3_chr9_1186-cL1_39:I.....N.....N.....S.....
 3_chr2_479-cL1_40:K.....K.....N.....
 3_chr2_465-cL1_41:E.....Q.....S.*...D.....XX.....A.....T.....
 3_chrX_1358-cL1_42:
 3_chr2_539-cL1_43:A.....VES.....P.....N.....
 3_chr1_45-cL1_44:A.X.....ID.....V.....N.....T.....
 3_chrX_1323-cL1_45:N.....S.S.....K.E.....C.....T.....*.....S.....
 3_chr6_980-cL1_46:I.....
 3_chr3_693-cL1_47:T.....G.....Q.....
 3_chr16_445-cL1_48:E.....X.....M.....P.....N.....
 3_chr7_1091-cL1_49:*.....
 3_chr6_846-cL1_50:S.....I.....D.....V.....
 3_chr7_1079-cL1_51:R.....
 3_chr4_766-cL1_52:V.....T.....G.....*.....
 3_chr6_982-cL1_53:
 3_chr6_909-cL1_54:E.....D..K.....
 3_chr10_183-cL1_55:R.....Q.....
 3_chr9_1191-cL1_56:I.....S.....X.....LH.....
 3_chr5_874-cL1_57:I.....N...K.....

1.3_o_50_cn YS-L-EDIQTKGKEVENFEKNLEECITRINTWTEKLMELKTKA-EL-EECRSLRS-CDQLEERVS-MEDEMNMK-EGKFREKRIKRN-QSLQEIWDY

3_chrX_1206-cL1_122:S.....K...R...N...V...V.....

3_chr6_945-cL1_123:I...G.....G...R...N...V...V.....

3_chr2_559-cL1_124:F.....R.....

3_chr7_952-cL1_125:A.....K.....V.....I.....G.....

3_chr10_76-cL1_126:K.....FR.....I.....I.....I.....I.....

3_chr8_1081-cL1_127:N.....N.....*...I.....

3_chr3_625-cL1_128:X.....*...H.....

3_chrX_1287-cL1_129: N.....S.....S.....N.....

3_chr9_1158-cL1_130:E.N.....K.....R.....S.....K.....H.....

3_chr20_591-cL1_131:H.....K.....K.....

3_chr3_686-cL1_132:K.....L.....

3_chr11_186-cL1_133:X.....L.....V.....

3_chr4_765-cL1_134:DK.....E.....G.....

3_chr10_175-cL1_135:S.....

3_chr10_180-cL1_136: C.....

3_chr7_1074-cL1_137:T.....R.....

3_chr10_90-cL1_138:A.....S.....

3_chr4_689-cL1_139:K...S...G.....

3_chr15_398-cL1_140:V.....N...I.K...T.....

3_chr2_480-cL1_141:KY.....

3_chr6_948-cL1_142: ...Q.....K.....

3_chr12_278-cL1_143:X-X.....

3_chr12_290-cL1_144:R.....G.....

3_chr14_347-cL1_145:R.....G.....

3_chr8_1179-cL1_146:*...K.....

3_chr6_960-cL1_147:R.*.....

3_chr9_1125-cL1_148:EK.....Y...Q.....K.....T.....C.H

3_chr11_182-cL1_149:TR.....A...T.....L.....

3_chr3_680-cL1_150:D.....R.....

3_chrX_1221-cL1_151:*...R...Q...P...R.....*..

3_chr1_71-cL1_152:I.....X...S.....H.....

3_chrX_1239-cL1_153: F.....X.....

3_chr12_280-cL1_154:T.*.....

3_chr7_1087-cL1_155:L.....*...N.....

3_chr11_122-cL1_156:L.....*...N.....

3_chr10_94-cL1_157:*...N.....

3_chr8_1147-cL1_158:V.....*...N.....

3_chr16_457-cL1_159: P.....S.....N...*...E...D...G.....

3_chr10_96-cL1_160:S.....E...D...G.....

3_chr8_1152-cL1_161:E.....R.....

3_chr2_568-cL1_162:E.....R.....

3_chr14_346-cL1_163:Q.....Q.....I.....T.*.....

3_chr18_488-cL1_164:N.....W...*.....

3_chr19_413-cL1_165:I.....W...*.....

3_chr21_545-cL1_166:Q.....

3_chr2_552-cL1_167:S.....M.....

3_chr2_584-cL1_168:N...V...Q.....

3_chr5_858-cL1_169: ...Q.....I...R...N...S...I...*.....

3_chr5_833-cL1_170:N...G.....N.N...I...I...D...E.....

3_chr10_166-cL1_171:E.....D...S.....T...V.....

3_chr3_694-cL1_172:S...H.....

3_chr16_456-cL1_173:T.....K--D...E.....

3_chr2_572-cL1_174:I.....

3_chr2_551-cL1_175:R.G.....I...G.....

3_chr13_370-cL1_176:F.....R.....

3_chr7_971-cL1_177:SS.Y...A.Q.....A.*.V.....

3_chrX_1356-cL1_178:T.....

3_chr2_575-cL1_179:R.....

3_chr6_972-cL1_180:K.....

3_chr10_167-cL1_181:E...I...S.S...R...L...E.....

3_chr3_695-cL1_182:K.S...H.....

3_chr12_298-cL1_183:N.....

3_chr9_1181-cL1_184:N.....

3_chr4_782-cL1_185:P.....K.....

1.3_o_50%_cn YS-L-EDIQTKGKEVENFEKNLEECITRINTWTEKCLKELMELKTKA-EL-EECRSLRS-CDQLEERVS-MEDEMNMK-EGKFREKRIKRN-QSLQEIWDY

3_chr6_947-cL1_443:M.....N.*.....C

3_chr5_879-cL1_444:*.....N...G...Q.....

3_chr5_770-cL1_445:SY.....V.....X.....

3_chr6_953-cL1_446:R.....I..I.....R.....

3_chr8_1143-cL1_447:R.....Q.....I.....V.....*

3_chrX_1341-cL1_448:I.....N...S.....

3_chr8_1137-cL1_449:X.Y.....RD.....K.G...N.....

3_chr17_490-cL1_450:M.....S.....I.....R.....N.....

3_chr7_988-cL1_451:R.....R.....A...T.....

3_chr5_837-cL1_452:R.....R.....A...T.....

3_chr9_1164-cL1_453:N.....C.....

3_chr15_468-cL1_454:N.....C.....

3_chr11_157-cL1_455:S.....T.H.....

3_chr4_732-cL1_456:R.....

3_chr1_100-cL1_457:G.....

3_chr2_544-cL1_458:ET.....K...SV...K...F.....N.....V.....

3_chr10_130-cL1_459:*.....E.....S.....A.....L...V.....

3_chr1_47-cL1_460:E.....N.....N.....

3_chr5_869-cL1_461:S.....K.R...C...N...L...V.....

3_chr14_362-cL1_462: ..P.....D.....N.....E.....L...S...K.XI.....

3_chr7_1085-cL1_463:R.....LR..

3_chr9_1168-cL1_464:L...G.....N...R..

3_chr1_85-cL1_465:L...G.....N...R..

3_chr15_366-cL1_466:E.....Y..S.....N.....P.....K.....Y..V.....V.....

3_chr8_1045-cL1_467:E.....Y..S.....N.....P.....K.....Y..V.....V.....

3_chr7_1048-cL1_468:D.....R.....F*..H.....

3_chr10_156-cL1_469:D.....R.....F*..H.....

3_chr13_380-cL1_470:D.....R.....F*..H.....

3_chr6_986-cL1_471: C.....S.....K.....

3_chr14_363-cL1_472:DG.....V.....N.....

3_chr8_1069-cL1_473:G.....A.....A.....N.....

3_chr4_772-cL1_474:G.....A.....A.....N.....

3_chrX_1331-cL1_475:*.....D.W.....K.....R.....

3_chr9_1163-cL1_476:D.....E.....

3_chr15_418-cL1_477:D.....I.....H.....XX.....

3_chr15_372-cL1_478:V..D.....

3_chr5_876-cL1_479:T.....L.....D.....R.....R.....

3_chr10_72-cL1_480:R..K.....R...**

3_chr12_273-cL1_481:C.....I.....V.T.....*

3_chr14_361-cL1_482:E.....LX.S...Y...I..F.....A.....V.....

3_chr2_483-cL1_483:K.....P.....K.....

3_chrX_1205-cL1_484:*..L..S.....IG.....N.....L.....I.....

3_chr7_1070-cL1_485:I.....I.....I.....T..K.....N.....

3_chr11_187-cL1_486:E.....C..S.....R.....V.....T.....

3_chr15_369-cL1_487:E.....C..S.....R.....V.....T.....

3_chr17_472-cL1_488:L.....---D.....

3_chr13_379-cL1_489:D.....K.....*

3_chr6_970-cL1_490:D.....K.....*

3_chrX_1258-cL1_491:E.....N.....I.....M.....T.....M*..

3_chr11_196-cL1_492:S.....

3_chr6_934-cL1_493:E.....S.....V.....

3_chrX_1251-cL1_494:K.....G.....H..X.....R.....

3_chr4_763-cL1_495:K.....G.....H..X.....R.....

3_chr6_987-cL1_496:T.....S.....

3_chr11_176-cL1_497:V.....D..A.....I.....

3_chr15_365-cL1_498:K..KI..Q.....*.....D.....R.....V.....K.....

3_chr3_649-cL1_499:L.....T.....K..I.....

3_chr2_464-cL1_500:R.....D.....C.....

3_chr9_1122-cL1_501:*.....S.....T.....V.....V.....V.....

3_chr7_1043-cL1_502:R..X.....M.....

3_chr1_70-cL1_503: ..P...ET.....S.*...W.....P.....V.....T.....

3_chr11_179-cL1_504:R.....I.....

3_chr14_395-cL1_505:X--X.....

3_chr9_1146-cL1_506:S.....W.....V.....

