FLYscaf FLYstart FLYend FLYrecrate CROscaf CROstart CROend FLYmean\_pi CROmean\_pi FLYmean\_pi\_Coding\_sequence\_masked CROmean\_pi\_Coding\_sequence\_masked FLYintergenicgc CROintergenicgc FLYrep CROrep FLYcoding\_sequence\_density CROcoding\_sequence\_density FLYdS FLYchrom FLYchromLengt(bp)

N00200 200000 400000 4.188231 scaffold\_2 43379933 43563278 0.00402933545203 0.00128213639277 0.00414779148945 0.00134668943639 0.426447275621 0.42675633918 0.12339 0.0625487468979 0.05186 0.070320979574 0.0855 Chr1 122177661

N00244 0 200000 2.862536 scaffold\_2 42994194 43184810 0.00393730775154 0.00129883687422 0.00403087288689 0.00132341284354 0.436130590479 0.438106897085 0.130555 0.0665369119067 0.027745 0.0290059596256 0.0496666666667 Chr1 122177661

N00257 0 200000 2.958809 scaffold\_2 42377290 42561062 0.00389606260995 0.0012844887026 0.0039226624961 0.00129342968703 0.421250584898 0.422153993427 0.11977 0.0601070892192 0.008135 0.00901660753542 0.0335 Chr1 122177661

N00257 200000 400000 1.11336 scaffold\_2 42183671 42377290 0.00428508189014 0.00139969783352 0.00441509859201 0.00146057760985 0.404062522253 0.410860922553 0.08577 0.0728182668023 0.042865 0.0484559883069 0.08575 Chr1 122177661

N00257 400000 600000 3.343149 scaffold\_2 41992385 42183671 0.0036996241386 0.00118387317815 0.0036996241386 0.00118387317815 0.410765591137 0.417780335257 0.07025 0.0401545330029 0 0 NA Chr1 122177661

N00083 0 200000 1.607386 scaffold\_2 41783078 41965558 0.00353405331577 0.000917599135905 0.00354682744771 0.000922272020331 0.432904621989 0.439422128575 0.09829 0.0506247259974 0.005605 0.0103518193775 0.286 Chr1 122177661

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N00083 600000 800000 1.805436 scaffold\_2 41218251 41404058 0.00454223825098 0.00112137186005 0.00459796852469 0.00113656233257 0.422781971206 0.420592064169 0.127755 0.0740391912038 0.01573 0.0150801638259 0.105 Chr1 122177661

N00083 800000 1000000 3.629098 scaffold\_2 41023333 41218251 0.00439361258264 0.00109860101064 0.00439361258264 0.00109860101064 0.417454797942 0.421115177228 0.09829 0.0797053119773 0 0 NA Chr1 122177661

N00083 1000000 1200000 1.816143 scaffold\_2 40831350 41023327 0.00423595368684 0.00125958131358 0.00423595368684 0.00125958131358 0.404689415435 0.407873799412 0.123865 0.0870260499956 0 0 0.029 Chr1 122177661

N00083 1200000 1400000 1.15592 scaffold\_2 40642024 40831350 0.00423123715756 0.00128466737636 0.00434572448657 0.00132267052551 0.396213330847 0.400655523505 0.05704 0.0436707055555 0.039255 0.0435756314505 0.113 Chr1 122177661

N00083 1400000 1600000 0.9638132 scaffold\_2 40454519 40642024 0.00366045111154 0.00121285263891 0.00380515980203 0.00126669784055 0.397953310269 0.398666273237 0.105275 0.0613636969681 0.041515 0.044974800672 0.0415 Chr1 122177661

N00083 2000000 2200000 5.339146 scaffold\_2 39912421 40094480 0.00392027614429 0.00137819383152 0.00392027614429 0.00137819383152 0.471592818813 0.476692313404 0.124625 0.0480613427515 0 0 NA Chr1 122177661

N00083 2200000 2400000 2.320413 scaffold\_2 39729589 39912421 0.00402342400813 0.00123846276096 0.00403699642532 0.00124162238362 0.453004378638 0.462213551623 0.10126 0.0494716461013 0.00621 0.00369191388816 0.059 Chr1 122177661

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N00098 1200000 1400000 2.546218 scaffold\_2 36497767 36696813 0.00506691635115 0.00106999973654 0.00506879599338 0.00107037171813 0.35529335391 0.356595825618 0.105465 0.117319614561 0.000375 0.000376797323232 0.046 Chr1 122177661

N00098 1400000 1600000 1.602291 scaffold\_2 36696813 36890440 0.0042665053068 0.00113131704812 0.00429454073063 0.00113786835423 0.375361872849 0.377774110139 0.079265 0.0869610126687 0.01006 0.00678107908504 0.0415 Chr1 122177661

N00098 1600000 1800000 1.40327 scaffold\_2 36892009 37092479 0.00414658168432 0.00109425648008 0.00418545468807 0.00110699284998 0.383316923007 0.385284643739 0.08265 0.0971067990223 0.01391 0.0132089589465 0.091 Chr1 122177661

N00098 1800000 2000000 2.474053 scaffold\_2 37093326 37286155 0.00364108905674 0.00105461939475 0.00369705931071 0.00107231273915 0.407294057638 0.408220242555 0.080565 0.056765320569 0.018335 0.0193435634682 0.034 Chr1 122177661

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N00098 2200000 2400000 1.695157 scaffold\_2 37484036 37675525 0.00436108241253 0.00135132842132 0.00438274209615 0.00135880004607 0.353792975671 0.351683865647 0.096555 0.0917598399908 0.00602 0.00628756743207 NA Chr1 122177661

N00098 2400000 2600000 2.23433 scaffold\_2 37675525 37871007 0.0045163946744 0.00133920831559 0.00451871255457 0.00136346672604 0.343277801509 0.345081743124 0.084295 0.0708863220143 0.000525 0.0207742912391 NA Chr1 122177661

N00098 2800000 3000000 1.19932 scaffold\_2 38064229 38262095 0.00394965992794 0.00121124621135 0.00394965992794 0.00121171212689 0.377721791315 0.376901912686 0.089335 0.102326827247 0 0.000313343373798 NA Chr1 122177661

N00020 400000 600000 1.699281 scaffold\_2 34783656 34979234 0.00297445826579 0.000951590679012 0.00302659576375 0.000971216449895 0.376387032086 0.372923638915 0.080115 0.0529302886828 0.02187 0.0246039943143 0.031 Chr1 122177661

N00020 600000 800000 2.087543 scaffold\_2 34592250 34783656 0.0039259350503 0.000824052195897 0.0040303625798 0.000849078793709 0.404504585238 0.406210893573 0.103565 0.0683102933032 0.027975 0.0288078743613 0.05475 Chr1 122177661

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N00020 1000000 1200000 0.705497 scaffold\_2 34213891 34397946 0.00351121027087 0.000827203269348 0.00355950610338 0.00083824975857 0.421078644459 0.423380049836 0.08983 0.0620847029421 0.01174 0.0138871532966 0.016 Chr1 122177661

N00020 1200000 1400000 0.4464061 scaffold\_2 34025309 34213891 0.00405113403302 0.00111495260064 0.00405113403302 0.00111495260064 0.398717836129 0.39956842703 0.11948 0.0894358952604 0 0 NA Chr1 122177661

N00020 1400000 1600000 0.4464061 scaffold\_2 33825512 34025309 0.00408237450116 0.00102412762093 0.00409724943839 0.00102912246103 0.399505135753 0.40152912358 0.11849 0.0980345050226 0.00584 0.0058609488631 0.099 Chr1 122177661

N00020 1600000 1800000 0.4464061 scaffold\_2 33632565 33825512 0.00443315120713 0.00105157679587 0.0045107912617 0.0010734740034 0.39036489277 0.389594440105 0.088555 0.0716621662944 0.01995 0.0203942015165 0.061 Chr1 122177661

N00020 1800000 2000000 1.398656 scaffold\_2 33433518 33632565 0.00395927017482 0.000994609499305 0.00400611851373 0.0010079136222 0.389298644121 0.388508716679 0.040605 0.0438137726266 0.02043 0.0205479107949 0.085 Chr1 122177661

N00020 2000000 2200000 1.657812 scaffold\_2 33231991 33433518 0.00432725401965 0.000936354398374 0.00432725401965 0.000937381394719 0.393742537503 0.397738957377 0.09518 0.0976047874478 0 0.00258526152823 NA Chr1 122177661

N00020 2200000 2400000 1.657812 scaffold\_2 33039828 33231991 0.00463977652255 0.000965074218808 0.00463977652255 0.000965074218808 0.390720376828 0.38859089393 0.085215 0.0821802324069 0 0 NA Chr1 122177661

N00020 2400000 2600000 0.6845693 scaffold\_2 32846999 33039828 0.00423183935433 0.00120827922671 0.0042892013762 0.00123213405332 0.375639523417 0.374045325779 0.100645 0.0728261827837 0.016805 0.0195406292622 0.035 Chr1 122177661

N00020 2600000 2800000 1.86364 scaffold\_2 32657063 32846999 0.00437646898956 0.00103501513658 0.00444809297395 0.00104948560666 0.384921824555 0.387425913847 0.098155 0.0526966978351 0.02091 0.021423005644 0.052 Chr1 122177661

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N00020 3000000 3200000 2.771786 scaffold\_2 32258819 32462295 0.00407038002184 0.00117198950366 0.00421857454886 0.00121684899185 0.388224315877 0.383515268366 0.07644 0.0722738799662 0.041785 0.0474748864731 0.06 Chr1 122177661

N00020 3200000 3400000 3.763662 scaffold\_2 32063616 32258819 0.00422892512454 0.00125816975442 0.00427210715336 0.00127403653527 0.384264110136 0.383190522808 0.07324 0.0539438430762 0.01759 0.0189187666173 0.0663333333333 Chr1 122177661

N00020 3400000 3600000 2.833724 scaffold\_2 31873107 32063616 0.00339068993466 0.000986007046341 0.00342771608731 0.000998952763325 0.419705810498 0.419282326366 0.072515 0.0528426478539 0.019065 0.0119469421392 0.063 Chr1 122177661

N00020 3800000 4000000 1.835829 scaffold\_2 31468369 31655562 0.00423649516208 0.00105052059664 0.00423649516208 0.00105052059664 0.42558731761 0.431320489753 0.086605 0.0597084292682 0 0 NA Chr1 122177661

N00020 4000000 4200000 2.146069 scaffold\_2 31275858 31468369 0.00421671525375 0.00122408820123 0.00428536838573 0.00124802578451 0.400822298466 0.402899637405 0.08433 0.0581213541044 0.02207 0.0224402761401 0.0683333333333 Chr1 122177661

N00020 4200000 4400000 0.9184272 scaffold\_2 31077163 31275197 0.00446414810201 0.000999326336169 0.00452231735113 0.00101428778424 0.398601200909 0.39649881157 0.10299 0.083051395215 0.01429 0.0149519779432 0.051 Chr1 122177661

N00020 4400000 4600000 2.107731 scaffold\_2 30876013 31077163 0.00444136172415 0.00104158967265 0.00446050301575 0.00104705901951 0.408886626172 0.411241281961 0.15458 0.1260899826 0.005805 0.00578672632364 0.07 Chr1 122177661

N00020 4600000 4800000 2.107731 scaffold\_2 30684598 30876013 0.00450029551915 0.00114242347105 0.00457503000311 0.00116649462594 0.401467860404 0.402874896297 0.082615 0.0519865214325 0.025155 0.0266645769663 0.062 Chr1 122177661

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N00020 5000000 5200000 2.687013 scaffold\_2 30299305 30488860 0.00465840700885 0.00128510173166 0.00469407801048 0.00131120599808 0.394245486909 0.394267828102 0.080815 0.0538629949091 0.021145 0.023138403102 0.0713333333333 Chr1 122177661

N00020 5200000 5400000 3.510569 scaffold\_2 30103070 30299305 0.00457431364348 0.00109399096296 0.00460091896868 0.00110069642183 0.389535047136 0.391661332072 0.096375 0.0831757841364 0.005395 0.00646164038016 0.051 Chr1 122177661

N00020 5600000 5800000 3.164291 scaffold\_2 29722737 29908944 0.00395645313248 0.00111747863646 0.00401219712422 0.00115219134508 0.395959620354 0.394353209051 0.080105 0.0628279280586 0.03129 0.0357559060615 0.0872 Chr1 122177661

N00020 5800000 6000000 2.487013 scaffold\_2 29520585 29722737 0.00509980183533 0.00127649452346 0.00511326513065 0.00128266898183 0.399167120687 0.40325795886 0.0731 0.0669100478848 0.006285 0.00616367881594 NA Chr1 122177661

N00020 6000000 6200000 2.487013 scaffold\_2 29338001 29520585 0.00434629560445 0.00117191624211 0.00431863654873 0.00117543314811 0.415054413543 0.416611303227 0.088235 0.0469865924725 0.01636 0.0179588572931 0.121 Chr1 122177661

N00020 6200000 6400000 2.482299 scaffold\_2 29129797 29338001 0.00433019484919 0.000941383409653 0.00442842527161 0.000971123297595 0.379213254845 0.382745396163 0.08575 0.121198439992 0.02383 0.0451048010605 0.046 Chr1 122177661

N00020 6400000 6600000 2.468792 scaffold\_2 28929345 29129797 0.00502036491708 0.00118154997442 0.00502036491708 0.00118154997442 0.382015439182 0.383815625018 0.103105 0.0845539081675 0 0 0.055 Chr1 122177661

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N00020 6800000 7000000 2.468792 scaffold\_2 28557334 28744196 0.00459021646805 0.00122039761466 0.00459021646805 0.00122048834544 0.405411008023 0.406766710967 0.07025 0.0389966927465 0 6.42185141976e-05 NA Chr1 122177661

N00020 7000000 7200000 1.82215 scaffold\_2 28359564 28557334 0.00448122459628 0.00123013032542 0.00451180606067 0.00123970862354 0.393997070939 0.394522559998 0.05602 0.0616119735046 0.011695 0.0119836173333 0.189 Chr1 122177661

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N00020 7400000 7600000 1.85628 scaffold\_2 27974759 28164541 0.004791124639 0.00125297381058 0.0048417019526 0.00126768077648 0.38390109307 0.385983547279 0.09887 0.0881853916599 0.015945 0.0168351055421 0.085 Chr1 122177661

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N00020 7800000 8000000 0.6678779 scaffold\_2 27591116 27777736 0.0041040195382 0.00104954398197 0.00416558639253 0.00108077338799 0.392056846326 0.390843060669 0.078465 0.0474707962705 0.027905 0.0354999464152 0.0813333333333 Chr1 122177661

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N00020 8400000 8600000 1.342435 scaffold\_2 27004562 27200909 0.00480336313569 0.00113497025738 0.00483942452898 0.00114410044314 0.366254929553 0.367715299381 0.12098 0.101305342073 0.00914 0.0103337458683 0.17 Chr1 122177661

N00020 8800000 9000000 1.006114 scaffold\_2 26621051 26822550 0.00528619191008 0.00121071526008 0.00530523002845 0.00121729706881 0.357083251659 0.357992502718 0.071715 0.105811939513 0.00379 0.00522583238626 0.066 Chr1 122177661

N00020 11000000 11200000 0.1319099 scaffold\_2 24393604 24591325 0.0046634013079 0.00111119707746 0.00468542042828 0.00111737126841 0.365632641846 0.366311486579 0.07782 0.0637716782739 0.00477 0.00488061460341 0.05 Chr1 122177661

N00020 11200000 11400000 1.152778 scaffold\_2 24189362 24393604 0.00458449663576 0.0012719904498 0.00466725669367 0.00130834702524 0.371036981378 0.374881880463 0.107765 0.106275888407 0.042385 0.0415830240597 0.115 Chr1 122177661

N00293 0 200000 1.81974 scaffold\_2 23687688 23877468 0.00456183888587 0.00109536397721 0.0045649200197 0.00109617404421 0.379903172212 0.383270580231 0.13019 0.107756349457 0.00163 0.00255559068395 NA Chr1 122177661

N00293 200000 400000 5.338549 scaffold\_2 23488618 23687688 0.00409371812951 0.00095588068321 0.00409318372184 0.000956162245616 0.392794347486 0.397630623018 0.073 0.0419651378912 0.016755 0.00923795649771 0.058 Chr1 122177661

N00350 0 200000 2.942408 scaffold\_2 23191082 23390617 0.00435922033261 0.00114600862024 0.00440926737023 0.00116062348024 0.398868731996 0.399997823911 0.064495 0.0564261908938 0.02007 0.016779011201 NA Chr1 122177661

N00167 200000 400000 2.547215 scaffold\_2 21969996 22165648 0.00490287866057 0.00113742900541 0.00499746143327 0.00116069918217 0.370589816405 0.370913509555 0.07926 0.0869042994705 0.01878 0.0224991311103 0.048 Chr1 122177661

N00167 400000 600000 1.541276 scaffold\_2 22165648 22352685 0.00441217287013 0.00115494233381 0.00444734456169 0.00116671772606 0.405135951662 0.407569132797 0.09446 0.0842560562883 0.009995 0.0107091110315 NA Chr1 122177661

N00167 800000 1000000 1.541276 scaffold\_2 22554304 22742686 0.00426929654098 0.00103130800678 0.00426929654098 0.00103130800678 0.382322310375 0.387839347559 0.09973 0.078208109055 0 0 NA Chr1 122177661

N00167 1000000 1200000 1.541276 scaffold\_2 22742686 22932068 0.00444133786468 0.00115487748723 0.00448912510895 0.00116837944227 0.391539971292 0.39469901483 0.1319 0.0717333220686 0.012345 0.0125091085742 0.053 Chr1 122177661

N00167 1200000 1400000 1.426255 scaffold\_2 22932068 23123876 0.00408246111813 0.00107770708451 0.00415832511228 0.00110237195259 0.407447185245 0.408204589771 0.108815 0.0582978812145 0.023195 0.0236017267267 0.0555 Chr1 122177661

N00005 200000 400000 2.962926 scaffold\_2 21407822 21606081 0.00413463187713 0.00129801806419 0.00423390578413 0.00133408249512 0.392193037549 0.390924308297 0.096375 0.057833440096 0.02912 0.02905794945 0.0343333333333 Chr1 122177661

N00005 400000 600000 1.190722 scaffold\_2 21210098 21407822 0.00423251906485 0.00099295667886 0.00431734343362 0.00101846631209 0.414010989011 0.410854691844 0.07279 0.0510155570391 0.023835 0.0239222350347 0.071 Chr1 122177661

N00005 600000 800000 1.735333 scaffold\_2 21012800 21210098 0.00409097861941 0.00105750369961 0.00418803659439 0.0010837582002 0.393044029507 0.390688729563 0.107655 0.0746434327768 0.032215 0.031313039159 0.045 Chr1 122177661

N00005 800000 1000000 3.91403 scaffold\_2 20825752 21012800 0.00406580083637 0.000983679289584 0.00408381471754 0.000990324846487 0.415936269117 0.414049303746 0.11143 0.0703616184081 0.020435 0.0142423335187 0.0795 Chr1 122177661

N00005 1000000 1200000 3.694796 scaffold\_2 20639623 20825752 0.00394418297561 0.00108409328912 0.00394418297561 0.00108413329456 0.411558317015 0.41063103974 0.082105 0.0450064202784 0 4.83535612398e-05 NA Chr1 122177661

N00005 1200000 1400000 3.694796 scaffold\_2 20450148 20639623 0.00420590551146 0.00099708039183 0.0044434109772 0.00105717387257 0.39512973515 0.393833542097 0.08131 0.0594748647579 0.06533 0.0708695078506 0.069 Chr1 122177661

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N00005 1600000 1800000 1.008003 scaffold\_2 20055106 20249980 0.00499449664848 0.00119259790051 0.00499449664848 0.00119259790051 0.391893361416 0.390490394675 0.096985 0.102810020834 0 0.0157178484559 NA Chr1 122177661

N00005 1800000 2000000 0.5731463 scaffold\_2 19867248 20055106 0.00457863089351 0.00141813028668 0.00462063678704 0.0014334225449 0.398802015805 0.401309220016 0.090305 0.0771274047419 0.008365 0.0101566076505 0.061 Chr1 122177661

N00005 2000000 2200000 0.5731463 scaffold\_2 19664998 19867248 0.00513876958643 0.00137358022938 0.0051750096839 0.00138572471143 0.385991694512 0.383915055932 0.06715 0.0603807169345 0.008595 0.00838071693449 0.1335 Chr1 122177661

N00005 2200000 2400000 0.5731463 scaffold\_2 19470037 19664998 0.00452345842073 0.00122047967108 0.00454956913282 0.00123139930582 0.404279116354 0.403409184395 0.07827 0.0578064330815 0.00997 0.0115561573853 0.0826666666667 Chr1 122177661

N00005 2400000 2600000 0.5731463 scaffold\_2 19273774 19470037 0.00486067042727 0.0012298976269 0.00493176388697 0.00125489517496 0.407013343226 0.405490333245 0.09302 0.0661000799947 0.020925 0.0203604347228 0.089 Chr1 122177661

N00005 2800000 3000000 4.957738 scaffold\_2 18896092 19091218 0.00359248602395 0.000922295599567 0.00359248602395 0.000922295599567 0.381433858598 0.381870058403 0.065655 0.0501419595543 0 0 NA Chr1 122177661

N00005 3000000 3200000 2.484663 scaffold\_2 18698599 18896092 0.00403713689119 0.000974232203359 0.00403713689119 0.000974232203359 0.374522335695 0.371091724964 0.103015 0.0887778301003 0 0 NA Chr1 122177661

N00005 3200000 3400000 2.484663 scaffold\_2 18503588 18698599 0.00418195132761 0.000902770298441 0.00418195132761 0.000902770298441 0.367673533599 0.367396726465 0.083845 0.074272733333 0 0 NA Chr1 122177661

N00005 3400000 3600000 2.484663 scaffold\_2 18308322 18503588 0.00383500041545 0.000967118518995 0.00383500041545 0.000967118518995 0.374633954416 0.376632921465 0.092485 0.0878340315262 0 0 NA Chr1 122177661

N00005 3600000 3800000 2.484663 scaffold\_2 18119059 18308322 0.00447820621603 0.00113276022896 0.00456647485257 0.00116291811706 0.390794155938 0.395277520532 0.06889 0.0475370251977 0.02913 0.0329647104822 0.101666666667 Chr1 122177661

N00005 3800000 4000000 2.484663 scaffold\_2 17910100 18119059 0.00470137452733 0.00131076629829 0.00485641849835 0.00136321422828 0.392134607158 0.391780132323 0.114055 0.105867658249 0.04623 0.0458702424878 0.101 Chr1 122177661

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N00005 4200000 4400000 3.744565 scaffold\_2 17519792 17713973 0.00429633161774 0.0011724700307 0.00435972174129 0.00119700624041 0.404548762316 0.402806148649 0.096715 0.0527291547577 0.022 0.0245750099134 0.0542 Chr1 122177661

N00005 4400000 4600000 3.744565 scaffold\_2 17329584 17519792 0.0037115701853 0.00109405748912 0.00378939007975 0.00112093376745 0.418933164664 0.420359239989 0.105115 0.0783037516824 0.026645 0.0297831847241 0.0653333333333 Chr1 122177661

N00005 4600000 4800000 3.129786 scaffold\_2 17139259 17329584 0.00411624608026 0.00101734234711 0.00419937008571 0.00103861605976 0.418250431666 0.419671423132 0.09933 0.077604098253 0.02048 0.0203651648496 0.049 Chr1 122177661

N00005 4800000 5000000 0.9902213 scaffold\_2 16949622 17139259 0.00378656511994 0.00091476343693 0.00378781175907 0.000915580905981 0.399802745689 0.406754999008 0.088685 0.0567294357114 0.004035 0.00571091084546 NA Chr1 122177661

N00005 5000000 5200000 1.793103 scaffold\_2 16758459 16949622 0.0037291380544 0.00108763911156 0.00375130724942 0.00109677912461 0.410781966051 0.412650244603 0.06522 0.042126352903 0.008905 0.0115032720767 0.053 Chr1 122177661

N00005 5200000 5400000 4.776858 scaffold\_2 16557384 16758459 0.00437709709044 0.00118158968237 0.00453196253985 0.0012521750743 0.386822375173 0.383576866018 0.072965 0.0671838866095 0.055455 0.0623747357951 0.055 Chr1 122177661

N00005 5400000 5600000 4.421593 scaffold\_2 16363330 16557384 0.00424986822791 0.00102768532701 0.00432827605077 0.00105011331205 0.391535638531 0.389439397102 0.061725 0.0394117101425 0.02736 0.0282137961598 0.0903333333333 Chr1 122177661

N00005 5600000 5800000 2.62256 scaffold\_2 16167988 16363330 0.00420289557097 0.00104022644181 0.00433763195318 0.00108183162117 0.380898526306 0.376443469449 0.06057 0.0636012736636 0.041395 0.043559500773 0.0475 Chr1 122177661

N00005 5800000 6000000 2.62256 scaffold\_2 15973925 16167988 0.00400913250362 0.00110546225534 0.00412854075187 0.0011487860916 0.38580679343 0.383663701099 0.099945 0.0667978955288 0.042895 0.0432849126315 0.062 Chr1 122177661

N00005 6000000 6200000 2.62256 scaffold\_2 15780418 15973925 0.00406641672361 0.00103217808282 0.00414022712281 0.00105281848983 0.40584702098 0.403902394959 0.09372 0.070472902789 0.020555 0.0218338354685 0.046 Chr1 122177661

N00005 6200000 6400000 2.62256 scaffold\_2 15579819 15780418 0.00429245339803 0.00114455605288 0.00429245339803 0.00114458045651 0.405558282878 0.408271759687 0.09028 0.0822785756659 0.00011 0.00220838588428 0.046 Chr1 122177661

N00005 6800000 7000000 1.37407 scaffold\_2 15012194 15206706 0.00433409644236 0.00116152169532 0.00435463083035 0.00116766616104 0.374439159329 0.378714367303 0.092465 0.0799590770749 0.00577 0.00566031915769 0.043 Chr1 122177661

N00005 7000000 7200000 0.7069388 scaffold\_2 14807316 15012194 0.00436026511598 0.00124079678284 0.00436605701869 0.00124286755133 0.377529526604 0.375985035421 0.119425 0.143602534191 0.00111 0.0162975038804 0.045 Chr1 122177661

N00005 7200000 7400000 0.7069388 scaffold\_2 14613121 14807316 0.00445008879002 0.000949497727728 0.00464321694417 0.00100006431591 0.375322906392 0.370751779235 0.053995 0.0684003192667 0.051645 0.054501918175 0.045 Chr1 122177661

N00005 7400000 7600000 0.7069388 scaffold\_2 14412519 14613121 0.00389099273456 0.00125440154604 0.0040993992257 0.00132362884583 0.384674217655 0.380203952902 0.081115 0.0721478350166 0.06266 0.0639076380096 0.05475 Chr1 122177661

N00005 7600000 7800000 0.7069388 scaffold\_2 14203627 14411676 0.00452612289223 0.00116218957654 0.00461080946232 0.00119649034036 0.395355683118 0.393801774042 0.095745 0.0961984917015 0.03705 0.0269503818812 0.0666666666667 Chr1 122177661

N00005 7800000 8000000 0.7069388 scaffold\_2 14005918 14203627 0.00388996441434 0.00119012054763 0.0040011948993 0.00123853539644 0.404154752189 0.401763609397 0.083875 0.0764558012028 0.046255 0.0475800292349 0.06175 Chr1 122177661

N00005 8000000 8200000 1.130684 scaffold\_2 13803060 14005918 0.00402999686865 0.00101166260336 0.00406668838784 0.00102495150566 0.389842980602 0.385730880204 0.053995 0.0777046012482 0.01193 0.0130140295182 0.0575 Chr1 122177661

N00005 8200000 8400000 1.510455 scaffold\_2 13608874 13803060 0.00389345435277 0.000969165804293 0.00389455283396 0.000970172281931 0.40551902736 0.407680089174 0.098595 0.0645412130638 0.00438 0.00324431215433 0.023 Chr1 122177661

N00005 8400000 8600000 1.510455 scaffold\_2 13418869 13608874 0.00442089807154 0.000898271597167 0.00442089807154 0.000898449495281 0.381792985698 0.382688239666 0.125385 0.0969290281835 0 0.000852609141865 NA Chr1 122177661

N00005 8600000 8800000 1.510455 scaffold\_2 13209008 13418869 0.00435693157716 0.00107244593474 0.00437798147384 0.00107767133617 0.379721406537 0.381369422305 0.08744 0.0899357193571 0.00963 0.00538928147679 0.135 Chr1 122177661

N00005 8800000 9000000 0.8115878 scaffold\_2 13005181 13209008 0.00488160698466 0.00115730913464 0.00500545583033 0.0012047676483 0.395868743279 0.393729508197 0.102655 0.0925049183867 0.043725 0.051018756102 0.0796 Chr1 122177661

N00005 9000000 9200000 0 scaffold\_2 12802032 13005181 0.00473979290669 0.00142047417774 0.00474301126525 0.00142050794675 0.384928682674 0.386295586734 0.12657 0.102018715327 0.000975 0.000974654071642 0.057 Chr1 122177661

N00005 9200000 9400000 0.7587566 scaffold\_2 12613336 12802032 0.00436335407618 0.00128081904919 0.00441152914321 0.00129653535484 0.400297119309 0.404558936614 0.075705 0.0368158307542 0.013435 0.0142610336202 0.057 Chr1 122177661

N00005 9400000 9600000 2.006711 scaffold\_2 12421357 12613276 0.00470395554041 0.00124160675401 0.00479290192087 0.00127399718853 0.389413699918 0.388887928999 0.10036 0.0759591285907 0.03145 0.0339361918309 0.1416 Chr1 122177661

N00005 9800000 10000000 2.006711 scaffold\_2 12041015 12232190 0.00468604296902 0.00125041170707 0.00468604296902 0.00125041170707 0.358240251393 0.35596473806 0.09872 0.0797018438603 0 0 NA Chr1 122177661

N00005 10000000 10200000 2.006711 scaffold\_2 11848534 12041015 0.00491749110447 0.00127515537679 0.00491749110447 0.00127515537679 0.349106990014 0.346392186859 0.09777 0.0871514591051 0 0 NA Chr1 122177661

N00005 10200000 10400000 2.006711 scaffold\_2 11655636 11848534 0.00424566617366 0.00117981541708 0.00425613540511 0.00118221420441 0.363988467417 0.362565034087 0.10576 0.0956826924074 0.00231 0.00267498885421 NA Chr1 122177661

N00005 10400000 10600000 1.433178 scaffold\_2 11467565 11655636 0.00364543581011 0.00114304869403 0.00366499515139 0.00114788684137 0.379115327956 0.383277662026 0.08376 0.0347794184111 0.009125 0.00797571130052 0.018 Chr1 122177661

N00005 10600000 10800000 0.6343284 scaffold\_2 11275174 11467565 0.0036148655656 0.00108429947817 0.00361512718807 0.00108429947817 0.367566633403 0.368967785806 0.09467 0.0674615756454 0.007965 0 NA Chr1 122177661

N00005 10800000 11000000 0.6343284 scaffold\_2 11083083 11275174 0.00485475966023 0.00116252844691 0.00485475966023 0.00116252844691 0.348639911513 0.34676403644 0.114675 0.0869275499633 0 0 NA Chr1 122177661

N00005 11600000 11800000 0.6343284 scaffold\_2 10305668 10496825 0.00498976637183 0.00145529313973 0.00498976637183 0.00145529313973 0.346396514926 0.344954837409 0.10705 0.103328677475 0 0 NA Chr1 122177661

N00005 11800000 12000000 0.6343284 scaffold\_2 10110249 10305668 0.00473007875401 0.00147118581236 0.00473007875401 0.00147118581236 0.351819897859 0.351392344661 0.11337 0.11624765248 0 0 NA Chr1 122177661

N00005 12000000 12200000 0.6343284 scaffold\_2 9917552 10110249 0.00429366025649 0.00112575027807 0.0043063409115 0.00113190796801 0.37787593817 0.377967086998 0.065285 0.0648064059119 0.005425 0.00590045511866 0.11 Chr1 122177661

N00005 12200000 12400000 1.472449 scaffold\_2 9716858 9917552 0.00442114092726 0.00122520251435 0.00465437351264 0.00129681897792 0.383589868634 0.379851589268 0.14004 0.10807497982 0.058845 0.0632953650832 0.048 Chr1 122177661

N00005 12400000 12600000 1.820682 scaffold\_2 9527911 9716362 0.00427313358648 0.00108682499564 0.00427671174407 0.00108824817469 0.385513608428 0.389241007764 0.11555 0.0784182625722 0.00083 0.00110373518846 NA Chr1 122177661

N00005 12600000 12800000 1.820682 scaffold\_2 9336843 9527911 0.00477944710875 0.00135043612591 0.00478648364397 0.0013520120093 0.367143607099 0.369207104207 0.071915 0.05232168652 0.002145 0.00112525383633 NA Chr1 122177661

N00005 12800000 13000000 1.820682 scaffold\_2 9133203 9336843 0.00481785620759 0.00118642020726 0.00485045010946 0.00119550645176 0.368721918357 0.366836873299 0.090525 0.0917796110784 0.00763 0.00879493223335 0.024 Chr1 122177661

N00005 13000000 13200000 4.638641 scaffold\_2 8927331 9133203 0.00463524182184 0.00122305802865 0.00469423031929 0.00123716259832 0.368456998173 0.363182884594 0.09042 0.111103015466 0.014445 0.0140329913733 0.046 Chr1 122177661

N00005 13200000 13400000 5.443202 scaffold\_2 8731187 8927331 0.00465654108071 0.0011847025075 0.00471385412325 0.00120327825466 0.388327409409 0.388918373846 0.08937 0.0752202463496 0.015435 0.0148411371237 0.047 Chr1 122177661

N00005 13400000 13600000 2.783282 scaffold\_2 8533683 8731187 0.00347966198816 0.00107691346386 0.0035039759145 0.00108733330773 0.385984850605 0.383465886007 0.088095 0.0790262475697 0.01348 0.0134630184705 0.0473333333333 Chr1 122177661

N00005 13600000 13800000 2.783282 scaffold\_2 8342536 8533683 0.00373576500704 0.000992434655686 0.00376029632182 0.000998816584281 0.387752872307 0.386323083491 0.069215 0.0461634239617 0.0141 0.0131155602756 0.043 Chr1 122177661

N00005 13800000 14000000 2.014228 scaffold\_2 8150019 8342536 0.00312458660766 0.000834874737062 0.00313314508937 0.000838040726633 0.41863966464 0.429259401702 0.098995 0.0482502843905 0.00396 0.00821745612076 0.119 Chr1 122177661

N00005 14000000 14200000 1.410625 scaffold\_2 7962200 8150019 0.00420389325375 0.00101321587099 0.00428300024931 0.00103960537447 0.403228345503 0.412764481443 0.07789 0.0809236552213 0.028515 0.0325046986727 0.047 Chr1 122177661

N00005 14200000 14400000 1.128762 scaffold\_2 7763466 7962200 0.0046959350348 0.00108542876399 0.00484359295839 0.00113516471322 0.3714392448 0.372249037272 0.099735 0.102624613805 0.0359 0.0419253877042 0.0746666666667 Chr1 122177661

N00005 14400000 14600000 3.887419 scaffold\_2 7568580 7763466 0.0044532473752 0.00114707892258 0.00455414549104 0.0011723068199 0.396594306512 0.396761019733 0.082905 0.055417013023 0.028235 0.0289092084603 0.0736666666667 Chr1 122177661

N00005 14600000 14800000 2.739449 scaffold\_2 7372734 7568580 0.00465268062627 0.0010268120399 0.00471098532061 0.00104515089101 0.392740707316 0.393141978058 0.119025 0.065367686856 0.01641 0.017263564229 0.0505 Chr1 122177661

N00005 14800000 15000000 2.739449 scaffold\_2 7173005 7372724 0.00396205352197 0.000959146410171 0.0039843316106 0.000961810699289 0.414231558147 0.414285323485 0.07879 0.0549472008171 0.007425 0.00549271726776 0.0295 Chr1 122177661

N00005 15000000 15200000 2.739449 scaffold\_2 6972584 7173005 0.00439854157661 0.00112945065364 0.0044207060104 0.00113825659595 0.411543090932 0.411011502219 0.09616 0.0616152997939 0.009135 0.00925551713643 0.043 Chr1 122177661

N00005 15200000 15400000 2.739449 scaffold\_2 6757077 6972584 0.00502641086604 0.00120797957578 0.00502652499969 0.00120797957578 0.387333710001 0.385090356577 0.071835 0.092781208963 2,00E-05 0 NA Chr1 122177661

N00005 15400000 15600000 2.739449 scaffold\_2 6550206 6757077 0.00504694923121 0.00143199299361 0.00517048792429 0.00148115279972 0.368299055251 0.370415069063 0.09605 0.0983173088543 0.038445 0.0362834810099 0.112 Chr1 122177661

N00005 15600000 15800000 2.739449 scaffold\_2 6345003 6550206 0.00411735833375 0.00105367133932 0.00417122853277 0.00107192730288 0.397111933022 0.396971457909 0.09243 0.0767337709488 0.02089 0.0207842965259 0.130666666667 Chr1 122177661

N00005 15800000 16000000 2.739449 scaffold\_2 6148387 6345003 0.00349937778867 0.000945645155603 0.00351840096525 0.000949587533397 0.408497273189 0.409913714579 0.084045 0.048948203605 0.01172 0.0104365870529 0.068 Chr1 122177661

N00005 16000000 16200000 2.739449 scaffold\_2 5955641 6148272 0.00443924944217 0.00106880882064 0.00449975202077 0.00108500542724 0.397549909256 0.400689152693 0.063155 0.0456520497739 0.023395 0.0229194677908 0.08475 Chr1 122177661

N00005 16200000 16400000 2.0884 scaffold\_2 5752107 5955641 0.00462126861989 0.0011805694436 0.00462589132752 0.00118174653601 0.369307517534 0.368163784222 0.086715 0.101869957845 0.00083 0.000815588550316 0.096 Chr1 122177661

N00005 16400000 16600000 1.269103 scaffold\_2 5548301 5752107 0.00493652582773 0.00133737260671 0.00494315485258 0.00133804672714 0.363895222674 0.361952448925 0.09826 0.0964888177973 0.00196 0.00192339774099 0.096 Chr1 122177661

N00005 16600000 16800000 0.3314011 scaffold\_2 5357162 5547690 0.0045282252597 0.00129402738174 0.00453287660701 0.00129483064531 0.366436141391 0.363403056937 0.113915 0.096710194827 0.000885 0.000572094390326 0.096 Chr1 122177661

N00005 16800000 17000000 0.5011328 scaffold\_2 5159656 5357162 0.00512945600544 0.00131318901318 0.00512945600544 0.00131394534146 0.365018557568 0.364357343803 0.106015 0.10122224135 0 0.000815165108908 NA Chr1 122177661

N00005 17000000 17200000 0.5011328 scaffold\_2 4959371 5159656 0.00479916734994 0.0013923387067 0.00479916734994 0.0013923387067 0.354568909302 0.35373702286 0.110455 0.109778565544 0 0 NA Chr1 122177661

N00005 17400000 17600000 0.5011328 scaffold\_2 4553508 4759330 0.00516773434244 0.00143742324833 0.00517450891303 0.00144582179596 0.359552974267 0.359254913629 0.1026 0.0860695163782 0.00636 0.00673883258349 0.17 Chr1 122177661

N00005 17600000 17800000 0.5011328 scaffold\_2 4356754 4553508 0.00421167622044 0.0011546117781 0.00421167622044 0.00115490735508 0.360544530549 0.360153256705 0.116815 0.0991898512864 0 0.000269371906035 NA Chr1 122177661

N00005 17800000 18000000 0.5011328 scaffold\_2 4149796 4356754 0.00511689185487 0.00144752574302 0.00511689185487 0.00144752574302 0.344598854108 0.342213395425 0.120505 0.13095410663 0 0 NA Chr1 122177661

N00026 400000 600000 0.566064 scaffold\_2 1713429 1922509 0.00414335664163 0.00147424619376 0.00414335664163 0.00147424619376 0.33949899413 0.33740810588 0.114445 0.126587908934 0 0 NA Chr1 122177661

N00026 2600000 2800000 0.3493614 scaffold\_75 292497 477138 0.00399610115084 0.000924008177888 0.00399860007809 0.000925441323592 0.382453798532 0.385442157559 0.114655 0.0422712182018 0.00466 0.00506929663509 0.077 Chr1 122177661

N00026 2800000 3000000 0.3493614 scaffold\_75 477138 665927 0.00397231255396 0.000929440323426 0.00397231255396 0.000929440323426 0.382567831978 0.381390921267 0.096495 0.0633246640429 0 0 NA Chr1 122177661

N00026 3000000 3200000 0.3493614 scaffold\_75 665927 857047 0.00439401296068 0.000976988976399 0.00446704119684 0.000996040677395 0.37145632211 0.36790883615 0.094705 0.0837641272499 0.018475 0.0201234826287 0.0335 Chr1 122177661

N00026 3200000 3400000 0.3493614 scaffold\_75 857047 1044666 0.004556908705 0.00122286246086 0.004556908705 0.00122286246086 0.375036836297 0.376900594398 0.073755 0.0754347907195 0 0 NA Chr1 122177661

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N00023 2000000 2200000 0.8406972 scaffold\_53 840009 1043836 0.00365349777712 0.00131854631054 0.00365349777712 0.00131854631054 0.358116898202 0.356079084048 0.128745 0.153797092632 0 0 NA Chr1 122177661

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N00023 9600000 9800000 2.350092 scaffold\_34 6526156 6729660 0.00456566877253 0.000966410950713 0.00480619500338 0.00103909915229 0.400370381433 0.40014831954 0.07433 0.0799640301911 0.08304 0.091821290982 0.0837142857143 Chr1 122177661

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N00032 200000 400000 3.025455 scaffold\_34 5464878 5658667 0.00513796493737 0.00156899632094 0.00519648234759 0.00159615642369 0.380104957468 0.380750901633 0.08201 0.0569691778171 0.029325 0.0302235937024 0.082 Chr1 122177661

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N00032 1200000 1400000 1.359769 scaffold\_34 4482743 4672263 0.00463497611896 0.00150009057556 0.00469511831133 0.00151419782332 0.39960927875 0.39866959257 0.109095 0.0759075559308 0.017245 0.0170958210215 0.086 Chr1 122177661

N00032 1400000 1600000 1.577181 scaffold\_34 4283245 4482743 0.00450282430223 0.00104722816993 0.00451877389251 0.00105429330693 0.383653351388 0.383742318013 0.068825 0.0612036210889 0.006935 0.0081755205566 NA Chr1 122177661

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N00043 2000000 2200000 1.943166 scaffold\_37 2506935 2694524 0.00399359589982 0.00105525790069 0.0039955336423 0.00105646628237 0.406202249296 0.40308116938 0.10981 0.0832831349386 0.002465 0.00262808586857 0.071 Chr1 122177661

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N00043 4000000 4200000 1.178922 scaffold\_37 4458080 4652821 0.00443972049133 0.00122529490274 0.00448625214074 0.0012690109429 0.393214646022 0.393206792045 0.11678 0.098243307778 0.022715 0.0438787928582 0.148 Chr1 122177661

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N00089 400000 600000 2.267925 scaffold\_23 13707549 13894641 0.00372302403145 0.00102585654886 0.00380003206641 0.00107228221108 0.423792554884 0.427660671499 0.11618 0.088095696235 0.053565 0.0559617728177 0.0735 Chr1 122177661

N00089 1000000 1200000 1.719955 scaffold\_23 13164792 13352603 0.00305365239996 0.000946078666373 0.00310207167672 0.00097962578306 0.474216526913 0.480226093517 0.140255 0.0497840914536 0.052575 0.0563758246322 0.0924285714286 Chr1 122177661

N00089 1200000 1400000 5.216418 scaffold\_23 12973154 13164792 0.00354035685775 0.00103674020854 0.00367317465204 0.00110219576841 0.441368826212 0.447706571243 0.117155 0.0490873417589 0.08435 0.0905822436051 0.079375 Chr1 122177661

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N00155 1400000 1600000 5.75684 scaffold\_23 4337566 4529480 0.0044777382356 0.00104605603409 0.00454776615597 0.00106649794676 0.382393572344 0.383006686271 0.06726 0.0354585908271 0.0206 0.0215773731984 0.0705 Chr1 122177661

N00104 1000000 1200000 3.97732 scaffold\_23 2342230 2541724 0.00506442688954 0.00104856563341 0.00526443314421 0.00109076452136 0.398788356956 0.401298529825 0.08215 0.0564678636951 0.046805 0.045460013835 0.06925 Chr1 122177661

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N00055 0 200000 0.2257463 scaffold\_30 5389224 5580311 0.00433520968799 0.00163618693872 0.00433520968799 0.00163618693872 0.372913050031 0.370027077129 0.074525 0.0624741609843 0 0 NA Chr1 122177661

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N00055 400000 600000 0.353204 scaffold\_30 5002725 5198560 0.00482768986172 0.00153460408783 0.00482768986172 0.00153460408783 0.365496884939 0.364034539536 0.079025 0.0598871498966 0 0 NA Chr1 122177661

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N00123 2000000 2200000 5.130505 scaffold\_77 120299 315356 0.00371907470498 0.00112522844577 0.00374956986149 0.00113894639943 0.434031158715 0.433185475782 0.09238 0.0857134068503 0.01001 0.0127193589566 0.047 Chr1A 75309072

N00069 400000 600000 4.670314 scaffold\_62 4038263 4231314 0.00422445741384 0.00137062926042 0.00424879084773 0.00138496651234 0.43655685441 0.439640063518 0.13605 0.0815121392793 0.01408 0.0138927019285 0.053 Chr1A 75309072

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N00069 1800000 2000000 0.1742839 scaffold\_62 2698166 2894257 0.00367722022361 0.00126322759 0.00367722022361 0.00126322759 0.383824633346 0.386418791299 0.089615 0.0893003758459 0 0 NA Chr1A 75309072

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N00002 11400000 11600000 0.9388795 scaffold\_11 19376996 19584389 0.00457102187715 0.00140635195884 0.00457102187715 0.00140635195884 0.373153003479 0.371066946733 0.071415 0.0614967718293 0 0 NA Chr1A 75309072

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N00002 12000000 12200000 0.9388795 scaffold\_11 19968743 20163567 0.00458497330685 0.00110951996699 0.00459262779948 0.00111176155353 0.392554626383 0.396423201373 0.054995 0.0392046154478 0.00234 0.00198640824539 0.25 Chr1A 75309072

N00002 12400000 12600000 0.9388795 scaffold\_8 23013701 23214314 0.00429796375524 0.00121196766614 0.00432535280643 0.00121918239268 0.389501329013 0.385433569638 0.06554 0.0343447333922 0.00667 0.00640038282664 0.024 Chr1A 75309072

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N00002 13400000 13600000 0.8129921 scaffold\_8 22023905 22227421 0.00397225870591 0.00112146997695 0.00404579325009 0.00114958983342 0.431501243855 0.434730484743 0.081675 0.0336435464534 0.03511 0.0341889581163 0.118666666667 Chr1A 75309072

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N00002 13800000 14000000 1.001439 scaffold\_8 21629705 21828258 0.00397440382777 0.0010095512232 0.00400709531138 0.00104209600251 0.364015017847 0.363468624585 0.073935 0.0698906589173 0.01285 0.0447235750656 0.06 Chr1A 75309072

N00002 14000000 14200000 2.806557 scaffold\_8 21433730 21629705 0.00388927581324 0.000916187010663 0.00388927581324 0.000916187010663 0.378046973401 0.379938604671 0.04403 0.0358055874474 0 0 NA Chr1A 75309072

N00002 14200000 14400000 2.806557 scaffold\_8 21238358 21433730 0.00383435757343 0.00105883879669 0.00383435757343 0.00105883879669 0.395315928039 0.396863493795 0.080755 0.0668058882542 0 0 NA Chr1A 75309072

N00002 14400000 14600000 2.88594 scaffold\_8 21048913 21238358 0.00417217400387 0.000994761640356 0.00428152364821 0.00103581924861 0.384424473277 0.390654876387 0.07038 0.0454168756103 0.03812 0.0444508960384 0.0876666666667 Chr1A 75309072

N00002 14600000 14800000 4.579439 scaffold\_8 20852880 21048913 0.00420325308884 0.00104218642453 0.00422394132762 0.0010484914168 0.375885189717 0.378151169701 0.068895 0.0657542352563 0.005035 0.00563170486602 NA Chr1A 75309072

N00002 14800000 15000000 0.1366997 scaffold\_8 20662209 20852880 0.00446096376474 0.00133236107061 0.00450577692731 0.00134491168934 0.355697681569 0.352140319093 0.05883 0.0480251322959 0.011395 0.0119525255545 NA Chr1A 75309072

N00002 15200000 15400000 0 scaffold\_8 20273566 20473259 0.00462062378319 0.00132501271363 0.0046727235435 0.0013433939639 0.38647184282 0.386299161831 0.051615 0.0466015333537 0.017785 0.0201909931745 0.038 Chr1A 75309072

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N00002 15600000 15800000 6.244216 scaffold\_8 19884819 20086346 0.00442400653369 0.00126628690746 0.00462870025111 0.00131911827654 0.393144158006 0.39191069148 0.06914 0.0570891245342 0.053575 0.0550745061456 0.0583333333333 Chr1A 75309072

N00002 15800000 16000000 3.075509 scaffold\_8 19685141 19884819 0.00446326583497 0.00108470384856 0.00455706377638 0.00112116787908 0.435823013791 0.44183869098 0.054815 0.0369394725508 0.048275 0.0618045052535 0.182714285714 Chr1A 75309072

N00002 16200000 16400000 0.8830767 scaffold\_8 19297877 19491972 0.00368668064745 0.000823191645116 0.00373434450916 0.000833949384109 0.451740441164 0.453442082804 0.05439 0.0357608387645 0.01989 0.0217934516603 0.068 Chr1A 75309072

N00002 16400000 16600000 0.9699367 scaffold\_8 19110694 19297877 0.00353724820717 0.000722194160861 0.00356927440759 0.000731959693865 0.440397951719 0.443291013336 0.104645 0.0614051489719 0.02049 0.0219090408851 0.05 Chr1A 75309072

N00002 16800000 17000000 2.204635 scaffold\_8 18722181 18919775 0.00378303531851 0.000804214029351 0.00391333030191 0.000840436074776 0.38672409972 0.384858026363 0.070445 0.052769820946 0.04349 0.0524054374121 0.0703333333333 Chr1A 75309072

N00002 17000000 17200000 3.112664 scaffold\_8 18519444 18722181 0.00377900635577 0.000813464072832 0.00388425665086 0.000854508106527 0.424331310407 0.421001003484 0.06423 0.0307639947321 0.049425 0.0642211337842 0.082875 Chr1A 75309072

N00002 17400000 17600000 4.308703 scaffold\_8 18154157 18344213 0.00385319362768 0.00110433663266 0.00401152109358 0.00116521714961 0.490573051878 0.495996735891 0.08405 0.032285221198 0.069265 0.0755935092815 0.1204 Chr1A 75309072

N00002 17600000 17800000 4.308703 scaffold\_8 17965121 18154157 0.00356652727264 0.000858705422781 0.00368663036198 0.000897237718934 0.462523223052 0.464213593948 0.096965 0.0368924437673 0.053945 0.0566400050784 0.06175 Chr1A 75309072

N00002 18000000 18200000 0 scaffold\_8 17597051 17789756 0.00406818608176 0.00101734642416 0.00411658812056 0.00103043375493 0.405011537514 0.403116019578 0.060295 0.0340520484679 0.0193 0.0202329986248 0.05925 Chr1A 75309072

N00002 18200000 18400000 2.535836 scaffold\_8 17401444 17597051 0.00397354032605 0.00101967245997 0.00412184976499 0.00106557658989 0.406055824614 0.403490437275 0.066675 0.0444462621481 0.057995 0.0614957542419 0.0643333333333 Chr1A 75309072

N00002 18400000 18600000 4.01341 scaffold\_8 17210583 17401444 0.0040578310683 0.00104613782008 0.00407234255125 0.00105756505491 0.423622515034 0.427937390077 0.074605 0.0393532466035 0.01846 0.0159383006481 0.0755 Chr1A 75309072

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N00002 19000000 19200000 10.65217 scaffold\_8 16642847 16825433 0.00370958292755 0.000966865486587 0.00384367146018 0.00101170918017 0.464710173463 0.471935970389 0.099095 0.0325435685102 0.06963 0.0719825178272 0.0793333333333 Chr1A 75309072

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N00002 19600000 19800000 7.7338 scaffold\_8 16069936 16261330 0.00329532669936 0.000936280258039 0.0033277094937 0.000950892513423 0.506866416979 0.507307532204 0.08563 0.0396511907374 0.0375 0.0431727222379 0.096 Chr1A 75309072

N00002 19800000 20000000 7.7338 scaffold\_8 15878903 16069936 0.00393860242678 0.000945251481812 0.00400410102567 0.000983791306744 0.45757570329 0.460553021801 0.099655 0.0480702287039 0.06295 0.0695429585464 0.123888888889 Chr1A 75309072

N00002 20000000 20200000 5.453993 scaffold\_8 15689733 15878903 0.00359183248976 0.000921511833708 0.0036482015338 0.000941988345001 0.450232628206 0.450214248196 0.06448 0.0275255061585 0.031345 0.0324470053391 0.0446666666667 Chr1A 75309072

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N00002 20600000 20800000 5.089921 scaffold\_8 15113902 15306865 0.0038968465495 0.00101130304909 0.00393280457482 0.0010219082011 0.43317525205 0.432769418556 0.110975 0.0752579510062 0.01373 0.0117535486078 0.077 Chr1A 75309072

N00002 20800000 21000000 4.543094 scaffold\_8 14915694 15113902 0.00409957478153 0.00122514740419 0.00409957478153 0.00122514740419 0.407610972117 0.405962204479 0.101965 0.106716176945 0 0 NA Chr1A 75309072

N00002 21000000 21200000 4.543094 scaffold\_8 14727735 14915694 0.00412482529219 0.00115346687188 0.00412482529219 0.00115346687188 0.399473590446 0.399487381929 0.12602 0.0742183135684 0 0 NA Chr1A 75309072

N00002 21200000 21400000 4.543094 scaffold\_8 14527174 14727735 0.00404675904117 0.00110009639699 0.00406442565071 0.00110750921506 0.388755644865 0.388617337441 0.07313 0.0683432970518 0.00808 0.00862580461805 0.093 Chr1A 75309072

N00002 21400000 21600000 4.543094 scaffold\_8 14342465 14527174 0.00354370588463 0.000937126223476 0.00355916637518 0.00094072301759 0.430100161179 0.429826859551 0.11283 0.045114206671 0.00943 0.00991830392672 0.093 Chr1A 75309072

N00002 21600000 21800000 4.731023 scaffold\_8 14144886 14342465 0.00373180344364 0.00117461963808 0.0038224385062 0.00120907421806 0.422500236628 0.42268390291 0.057185 0.0314861397213 0.0424 0.0481984421421 0.125333333333 Chr1A 75309072

N00002 21800000 22000000 3.991209 scaffold\_8 13944206 14144886 0.00340627405427 0.00127673938068 0.00344665894171 0.00129150573253 0.439689392861 0.436725685103 0.04985 0.0242276260714 0.01982 0.0149890372733 0.049 Chr1A 75309072

N00002 22000000 22200000 3.439353 scaffold\_8 13745156 13944206 0.00335780033091 0.00104738128226 0.0034316252511 0.00107601860476 0.408248304448 0.402621743676 0.072485 0.0349912082391 0.028485 0.0292941471992 0.0466666666667 Chr1A 75309072

N00002 22200000 22400000 2.470891 scaffold\_8 13553339 13745156 0.0034235857161 0.00120402211385 0.00353361841192 0.00125844739121 0.402727498427 0.40941909801 0.064 0.0214475255061 0.03786 0.0396471637029 0.0526666666667 Chr1A 75309072

N00002 22400000 22600000 1.52373 scaffold\_8 13360797 13553339 0.00269144412174 0.000865384607814 0.00270631628934 0.000871962200382 0.423703838166 0.419623288414 0.06873 0.0156225654662 0.00961 0.00881885510694 0.037 Chr1A 75309072

N00002 22600000 22800000 2.410723 scaffold\_8 13164441 13360797 0.00253736225235 0.00130835466501 0.00261974035387 0.0013622099261 0.403686364306 0.394479825241 0.065595 0.0373352482226 0.03993 0.0437979995518 NA Chr1A 75309072

N00002 22800000 23000000 9.443499 scaffold\_8 12970198 13164441 0.00253777753261 0.00107044060364 0.00255849527399 0.00108810247234 0.403874708336 0.404866829645 0.05173 0.0300139515967 0.01562 0.0171589194977 0.0755 Chr1A 75309072

N00119 600000 800000 0.637105 scaffold\_8 10786383 10968600 0.00233849146418 0.00120645842962 0.00241526691218 0.00125044310805 0.406387765374 0.404374797871 0.07631 0.0330978997569 0.03972 0.04418358331 0.0383333333333 Chr1A 75309072

N00119 800000 1000000 0.637105 scaffold\_8 10968600 11177905 0.00294547455365 0.0014660661284 0.00298609364064 0.00148891978411 0.44358420228 0.434343722051 0.08056 0.0814696256659 0.023605 0.0225603783952 0.06 Chr1A 75309072

N00119 1000000 1200000 2.437434 scaffold\_8 11177905 11387866 0.0027189973343 0.00118647231559 0.00276072883111 0.0012101782543 0.407416304026 0.398510201046 0.060635 0.0336824457876 0.03186 0.0319678416468 0.1625 Chr1A 75309072

N00119 1200000 1400000 0.7277623 scaffold\_8 11387866 11577580 0.00248812946339 0.000924032959569 0.00250155364524 0.000931072146635 0.450465423646 0.445923743387 0.06854 0.0289857364243 0.01849 0.0180324066753 0.036 Chr1A 75309072

N00119 1400000 1600000 0.3973412 scaffold\_8 11577580 11777567 0.00267427194828 0.00136303535239 0.00268106534993 0.00136872538404 0.415348797288 0.408619990813 0.07043 0.0586588128228 0.004395 0.00522533964708 NA Chr1A 75309072

N00119 1600000 1800000 0.3973412 scaffold\_8 11777567 11982077 0.00266661600734 0.00129496949601 0.00276409006107 0.00134117494579 0.39600547921 0.396988112161 0.075425 0.0630238130165 0.041865 0.0383746516063 0.0572 Chr1A 75309072

N00119 1800000 2000000 1.469832 scaffold\_8 11982077 12180534 0.00291419513613 0.0011918537692 0.00298028543801 0.00123694387589 0.367113532603 0.366401545143 0.083575 0.0827433650614 0.036835 0.0412079190958 0.1138 Chr1A 75309072

N00119 2000000 2200000 3.568443 scaffold\_8 12180534 12379991 0.00221789507839 0.00106432512191 0.00222297459531 0.00106631497784 0.375585358345 0.372840434693 0.07946 0.0686463749079 0.00309 0.00311846663692 0.048 Chr1A 75309072

N00119 2200000 2400000 1.637026 scaffold\_8 12379991 12570850 0.00226934359215 0.00113061954265 0.00229015451683 0.00114255817302 0.419938049181 0.420647184092 0.087435 0.0405796949581 0.01259 0.0133711273768 0.045 Chr1A 75309072

N00179 400000 600000 0.09578696 scaffold\_8 9012457 9210056 0.000882498152852 0.00133863236342 0.000882399892998 0.00135362030489 0.407457153309 0.395951294442 0.09615 0.0565842944549 0.01194 0.0117763753865 0.0786666666667 Chr1A 75309072

N00179 1000000 1200000 0.09578696 scaffold\_8 9567797 9761277 0.000746877219417 0.00142053654888 0.00075609717003 0.00143814176069 0.402624612785 0.395876638048 0.10007 0.0536799669216 0.01473 0.0147767211081 0.0805 Chr1A 75309072

N00157 800000 1000000 0.09578696 scaffold\_8 1083656 1290000 0.00220120205055 0.0010019783247 0.00222595557036 0.00101185985181 0.398414342149 0.393405897003 0.08753 0.0940322955841 0.013385 0.0151591517078 0.036 Chr1A 75309072

N00157 1000000 1200000 0.09578696 scaffold\_8 1290427 1479043 0.00180309912271 0.000855037616027 0.00180797025021 0.000857533393775 0.413808627795 0.41210936406 0.097705 0.051416634856 0.004225 0.00450120880519 0.03 Chr1A 75309072

N00157 1200000 1400000 0.09578696 scaffold\_8 1479043 1676819 0.00105854971229 0.00103774062886 0.00105854971229 0.00103774062886 0.3970023894 0.395763456876 0.10284 0.0680062292695 0 0 NA Chr1A 75309072

N00157 1400000 1600000 0.09578696 scaffold\_8 1676819 1880055 0.00100316870359 0.00107796899609 0.00101421097644 0.0011118719108 0.408374309618 0.405381165919 0.08846 0.0874697396131 0.02659 0.0574750536322 0.043 Chr1A 75309072

N00137 0 200000 5.991436 scaffold\_8 2187723 2384906 0.00352162481683 0.000977999694262 0.00355240524911 0.00098788656326 0.410649080745 0.404687554618 0.120735 0.0882023298155 0.022035 0.0178869375149 0.1355 Chr1A 75309072

N00137 200000 400000 2.365057 scaffold\_8 1986292 2187723 0.00285402226118 0.000938073816931 0.00290044489309 0.000950872160565 0.431412308191 0.422349637388 0.08177 0.0760458916453 0.02253 0.0230550411804 0.0745 Chr1A 75309072

N00137 800000 1000000 1.498155 scaffold\_48 5515624 5696184 0.00296888954487 0.00073422043055 0.00296888727519 0.00073422043055 0.396747574492 0.389252507253 0.114225 0.0364144882588 0.00054 0 NA Chr1A 75309072

N00137 1000000 1200000 1.498155 scaffold\_48 5696184 5887571 0.00271612648508 0.000571141872503 0.00272126919921 0.000572458269809 0.394519639799 0.389443063472 0.0637 0.0419202976169 0.00188 0.00230945675516 0.053 Chr1A 75309072

N00137 1200000 1400000 1.320932 scaffold\_48 5887571 6081945 0.00269853255314 0.000326960563549 0.00271780200249 0.000328982655318 0.393150058272 0.389077174247 0.062045 0.040483809563 0.009035 0.00933252389723 0.053 Chr1A 75309072

N00137 1400000 1600000 0.8260456 scaffold\_48 6081975 6278422 0.00328325990998 0.000328315424014 0.00328325990998 0.000328315424014 0.395981402092 0.388651090195 0.093005 0.0878099436489 0 0 NA Chr1A 75309072

N00151 200000 400000 4.95642 scaffold\_8 3666882 3856666 0.00393914157372 0.00126072877583 0.00399010958241 0.00129270915685 0.434275805894 0.432945423955 0.12265 0.0807180795009 0.02114 0.0549255996291 0.14 Chr1A 75309072

N00151 600000 800000 3.815172 scaffold\_8 3318031 3514472 0.00360041028337 0.00130979391685 0.00360955816061 0.00131374468306 0.391609225423 0.389008199922 0.125295 0.0917425588345 0.00378 0.00386375552965 NA Chr1A 75309072

N00151 800000 1000000 2.422608 scaffold\_8 3124486 3318031 0.0037658472068 0.00106512533249 0.00378047064497 0.00106785144462 0.402471628725 0.402251481988 0.117395 0.0683871967759 0.0053 0.0055490971092 0.118 Chr1A 75309072

N00151 1000000 1200000 2.277259 scaffold\_8 2922321 3123974 0.00378480819376 0.00125075077591 0.00383728617835 0.00127594920924 0.40554067771 0.402807955875 0.070545 0.0477404253842 0.027045 0.0273588788662 0.065 Chr1A 75309072

N00151 1200000 1400000 5.420483 scaffold\_8 2724403 2922321 0.00347984740011 0.00112625349584 0.00347984740011 0.00112763269318 0.409973775665 0.40169768376 0.06637 0.0385058458554 0 0.00138441172607 NA Chr1A 75309072

N00151 1400000 1600000 0 scaffold\_8 2524449 2724403 0.0030717792398 0.00096595900879 0.0030717792398 0.000966945409345 0.452832483045 0.448816307414 0.099965 0.0614341298499 0.002965 0.000780179441271 0.023 Chr1A 75309072

N00308 0 200000 7.82412 scaffold\_8 4613300 4826036 0.00442517589601 0.0015884061943 0.00444045050086 0.00159956456975 0.408121238889 0.409918492944 0.11194 0.121770645307 0.008285 0.0117046480144 0.089 Chr1A 75309072

N00173 400000 600000 2.640726 scaffold\_8 4047103 4241473 0.00412949937643 0.00151185431901 0.0041739096845 0.00152649781241 0.408420063351 0.405939689482 0.11154 0.0972269383135 0.01068 0.0148171014045 0.0455 Chr1A 75309072

N00173 800000 1000000 4.426718 scaffold\_8 5170176 5360613 0.00390396333069 0.00124504441698 0.00393044081817 0.00125663579131 0.404159640247 0.405198459374 0.12518 0.0716509921916 0.00759 0.008149676796 0.0365 Chr1A 75309072

N00173 1000000 1200000 7.575901 scaffold\_8 5360613 5556086 0.00446866706988 0.00101857351562 0.0044820928441 0.00102370689596 0.397087389356 0.397586884675 0.074735 0.0512346973751 0.00559 0.00676819816548 0.0485 Chr1A 75309072

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N00299 0 200000 8.703524 scaffold\_8 6007507 6196445 0.00435994523974 0.00103219770208 0.00443382147771 0.00106128255138 0.418444863505 0.41990648592 0.10545 0.0626290105749 0.045595 0.0354454900549 0.069 Chr1A 75309072

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N00184 200000 400000 3.752309 scaffold\_8 7069024 7268340 0.00474012140415 0.00125284689195 0.00474012140415 0.00125284689195 0.430453013932 0.433425180388 0.067135 0.049980934797 0 0 NA Chr1A 75309072

N00184 400000 600000 9.177123 scaffold\_8 6863047 7069024 0.00406910323609 0.00111698638356 0.00409253549509 0.00112685273611 0.446239611002 0.445404818337 0.099395 0.0495249469601 0.01646 0.0140306927472 0.0835 Chr1A 75309072

N00184 600000 800000 6.614309 scaffold\_8 6665873 6863047 0.0035251177057 0.000924004740996 0.00364257562336 0.000952808558666 0.413152023797 0.409439409423 0.067385 0.054515301206 0.037075 0.0365666872914 NA Chr1A 75309072

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N00133 800000 1000000 3.51773 scaffold\_8 8413494 8616957 0.00547563158191 0.00137698140922 0.00548498573542 0.00138177040544 0.422379222742 0.425230241329 0.050555 0.0573126317807 0.00442 0.00459051522881 0.075 Chr1A 75309072

N00133 1000000 1200000 3.127903 scaffold\_48 10315 204396 0.0041503636671 0.00093269751319 0.00420300792024 0.000950341524556 0.448551118932 0.443447559245 0.07016 0.0545906090756 0.03497 0.0468206573544 0.089 Chr1A 75309072

N00133 1200000 1400000 2.789928 scaffold\_48 204396 411717 0.00519979424923 0.00124645415858 0.00537086808651 0.00130451519577 0.45872548239 0.449275041628 0.037255 0.0248551762725 0.054045 0.0562027001606 0.106 Chr1A 75309072

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N00249 0 200000 9.458901 scaffold\_48 2386575 2589436 0.00520419049773 0.00137271562917 0.00524204542476 0.00138311635907 0.415968475233 0.417591945334 0.064435 0.0348021551703 0.01548 0.0164694051592 0.2185 Chr1A 75309072

N00249 400000 600000 3.136132 scaffold\_48 1983708 2176584 0.00493986269038 0.00131329009294 0.0050322514783 0.00135390894416 0.420983625329 0.418226408784 0.05457 0.0479997511354 0.03118 0.0381540471598 0.124 Chr1A 75309072

N00313 0 200000 1.557691 scaffold\_48 2602954 2813227 0.00539739789399 0.00123648709298 0.00540219678092 0.00123809430669 0.419782119312 0.418910102606 0.07141 0.0460163691962 0.00096 0.00285343339373 NA Chr1A 75309072

N00223 0 200000 8.224989 scaffold\_48 3619951 3824579 0.00490893438566 0.00128862153431 0.00490893438566 0.00128862153431 0.387052723446 0.403403755869 0.088295 0.0480774869519 0 0 NA Chr1A 75309072

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N00208 600000 800000 7.417857 scaffold\_48 4172268 4380570 0.00576337198785 0.00126149565061 0.00577521364056 0.00126295365189 0.387026151028 0.413532417603 0.05921 0.0409789632361 0.00171 0.00102255379209 0.298 Chr1A 75309072

N00004 600000 800000 3.340247 scaffold\_20 3745425 3933163 0.00421855814393 0.00122455969569 0.00441138543424 0.00127367307759 0.461315834369 0.459484811314 0.102945 0.0547411818598 0.063125 0.0683079610947 0.0753333333333 Chr2 157769492

N00004 800000 1000000 3.727273 scaffold\_20 3933163 4121078 0.00391993573196 0.00110957907038 0.00396018693944 0.00112458617642 0.452447903297 0.455704500381 0.0695 0.0537157757497 0.021445 0.0209509618711 0.075 Chr2 157769492

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N00004 1800000 2000000 5.015122 scaffold\_20 4883752 5068263 0.00394800499362 0.00110978622589 0.0039901340224 0.0011266127562 0.441533695646 0.443173466174 0.12671 0.0773775005284 0.016095 0.0184216659169 0.0776666666667 Chr2 157769492

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N00004 2200000 2400000 3.881713 scaffold\_20 5252355 5448437 0.00370328303799 0.00111701562854 0.00371329156643 0.00111941253126 0.427915833993 0.431540678488 0.08723 0.0733927642517 0.003635 0.00312624310238 NA Chr2 157769492

N00004 2400000 2600000 5.227273 scaffold\_20 5448437 5637421 0.00353110253744 0.00107073353471 0.00360182980146 0.00110998647219 0.415921414817 0.419203508812 0.082295 0.049840198112 0.03336 0.0364951530288 0.06125 Chr2 157769492

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N00004 3400000 3600000 2.071282 scaffold\_20 6421311 6609934 0.00434400047631 0.00135051416885 0.00434400047631 0.00135051416885 0.411088908179 0.414087966064 0.103865 0.059754112701 0 0 NA Chr2 157769492

N00004 3600000 3800000 1.972015 scaffold\_20 6609934 6800377 0.0041388811057 0.00122892807437 0.0041388811057 0.00122926457759 0.405600600346 0.410677495931 0.075305 0.0568569073161 0 0.000267796663569 NA Chr2 157769492

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N00004 4400000 4600000 7.855718 scaffold\_20 7378518 7567286 0.0036906649575 0.0012142370922 0.00371477697849 0.00123239151108 0.405211981097 0.406035200711 0.08218 0.0409073571792 0.01867 0.0194206645194 0.072 Chr2 157769492

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N00004 5800000 6000000 1.128944 scaffold\_20 8730559 8927487 0.00405276031622 0.000920435919898 0.0040536249957 0.000921690628656 0.378077421227 0.37670749125 0.04331 0.0514655102372 0.000975 0.00233080110497 0.08 Chr2 157769492

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N00004 6400000 6600000 1.128944 scaffold\_20 9338505 9528189 0.00337982508337 0.000950056755279 0.00342905485621 0.000961203187211 0.390866198411 0.38831510789 0.081545 0.0493821302798 0.012665 0.0131481832943 NA Chr2 157769492

N00004 6600000 6800000 1.128944 scaffold\_20 9528189 9724954 0.00352660048976 0.00105524534014 0.00357865175417 0.00107481796861 0.39659399209 0.393127302081 0.044895 0.047137448225 0.01981 0.0199832287246 NA Chr2 157769492

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N00004 10400000 10600000 0.5587534 scaffold\_20 13240495 13435490 0.00363664147978 0.000667364404471 0.0036476540536 0.000669216081973 0.382641997201 0.384628661088 0.034845 0.0352573142901 0.004455 0.00460524628837 0.057 Chr2 157769492

N00004 10600000 10800000 3.425197 scaffold\_20 13435490 13629556 0.00365803217984 0.000766502929435 0.00365803217984 0.000766744606276 0.398390982478 0.399420068018 0.072215 0.0517401296466 0 0.000252491420445 NA Chr2 157769492

N00004 10800000 11000000 4.744415 scaffold\_20 13629556 13818775 0.00358680049891 0.000792944717025 0.0036262213812 0.000803508522163 0.399785046833 0.405807797208 0.0461 0.0236339902441 0.01381 0.0154371389765 0.063 Chr2 157769492

N00004 11000000 11200000 2.019231 scaffold\_20 13818775 14018951 0.00413966892618 0.000980463675753 0.00424725748976 0.00101484594355 0.380800930974 0.381358744345 0.06691 0.0624850131884 0.02902 0.0341999040844 0.043 Chr2 157769492

N00004 11200000 11400000 2.661884 scaffold\_20 14018951 14212085 0.00380479726889 0.00087364931378 0.00389715886825 0.000897972441588 0.410267272373 0.41688577113 0.055435 0.0383153665331 0.023835 0.0260337382336 0.051 Chr2 157769492

N00004 11400000 11600000 2.71102 scaffold\_20 14212085 14411110 0.00414998382238 0.00112189920363 0.00417962262084 0.00113390096913 0.394216242254 0.394992609845 0.090345 0.0583645270695 0.01046 0.0106619771386 0.059 Chr2 157769492

N00004 11600000 11800000 2.012985 scaffold\_20 14411110 14601841 0.00382194746469 0.00117358940183 0.00395211350769 0.0012318075331 0.392084742379 0.391689968286 0.09055 0.0764689536572 0.04373 0.0494099019037 0.102 Chr2 157769492

N00004 11800000 12000000 0 scaffold\_20 14601841 14797012 0.00399706600879 0.00103178496909 0.00402288437978 0.00104145316727 0.421039694548 0.42601583085 0.05117 0.0345850561815 0.020855 0.0210994461267 0.085 Chr2 157769492

N00004 12000000 12200000 4.576719 scaffold\_20 14797012 14988690 0.00416416112781 0.000949765863993 0.00421646165745 0.000967623977347 0.443079565826 0.448706950073 0.098835 0.0642535919615 0.015275 0.0160894834045 0.08 Chr2 157769492

N00004 12200000 12400000 0.9766355 scaffold\_20 14988690 15180633 0.00404755684728 0.000992549833869 0.00404755684728 0.000992549833869 0.426361369104 0.435190596966 0.06753 0.051885195084 0 0 NA Chr2 157769492

N00004 12600000 12800000 0.9766355 scaffold\_20 15373219 15573684 0.00356237424154 0.00079898692806 0.00360694626103 0.000810047903045 0.36566427289 0.365206812652 0.069855 0.0795949417604 0.0189 0.0186466465468 0.061 Chr2 157769492

N00004 12800000 13000000 0.9766355 scaffold\_20 15573684 15765127 0.00352345197676 0.000910483256614 0.00355001847221 0.000922145009323 0.398304221334 0.404674099716 0.05752 0.0451570441332 0.0138 0.0137429939982 0.0685 Chr2 157769492

N00004 13200000 13400000 4.726825 scaffold\_3 43516963 43713206 0.00392213534654 0.000983041580949 0.00400062830404 0.00100708036642 0.392406763723 0.390890493651 0.07539 0.05023873463 0.030235 0.0278736056828 0.039 Chr2 157769492

N00004 13400000 13600000 2.395709 scaffold\_3 43321563 43516963 0.00467851081898 0.00102248600428 0.00478045149601 0.00106241010505 0.397034107761 0.399527359685 0.07894 0.0575588536336 0.030865 0.0422722620266 0.0496666666667 Chr2 157769492

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N00004 13800000 14000000 2.395709 scaffold\_3 42924218 43125491 0.00426002609955 0.00116194223402 0.00427132726388 0.00116418180877 0.398437585779 0.394767658044 0.091685 0.0793847162809 0.00737 0.00710477808747 0.04 Chr2 157769492

N00004 14000000 14200000 2.395709 scaffold\_3 42709421 42924218 0.00387112779036 0.000948712734695 0.0039463023764 0.000974098912926 0.378229781091 0.379168223621 0.07388 0.0539672341792 0.02885 0.0272163950148 0.0913333333333 Chr2 157769492

N00004 14200000 14400000 2.395709 scaffold\_3 42515930 42709421 0.00401722092239 0.000898568061795 0.00414376253509 0.000934972002384 0.395672118994 0.395726673448 0.062935 0.0532686274814 0.047845 0.0493046188195 0.1 Chr2 157769492

N00004 14400000 14600000 2.395709 scaffold\_3 42316312 42515930 0.00405413351879 0.00108495086908 0.00406066436916 0.00108718524559 0.393257092897 0.395503159672 0.09781 0.0555360739012 0.00178 0.00289052089491 0.1 Chr2 157769492

N00004 14800000 15000000 2.395709 scaffold\_3 41936285 42128393 0.00452539358378 0.000926582294453 0.0045776389256 0.000935787990799 0.376436982628 0.37564622287 0.10829 0.084358798176 0.013455 0.0146063672518 0.086 Chr2 157769492

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N00004 15200000 15400000 2.430384 scaffold\_3 41555323 41747565 0.00351744461444 0.00107441413371 0.00356272290515 0.00108787150846 0.375439637985 0.375714646271 0.07455 0.0487302462521 0.01355 0.0143360972108 0.034 Chr2 157769492

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N00004 15600000 15800000 2.606913 scaffold\_3 41167689 41363424 0.00402582436215 0.00110406245809 0.00402840020546 0.00110563068455 0.374829504615 0.374476882246 0.103525 0.0711778680359 0.0016 0.00131810866733 0.049 Chr2 157769492

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N00004 16200000 16400000 2.606913 scaffold\_3 40572332 40771704 0.00450784242199 0.00121713076407 0.004512202419 0.00122075142944 0.373018463514 0.373660748346 0.078155 0.0651395381498 0.00433 0.0044339225167 0.165 Chr2 157769492

N00004 16400000 16600000 2.606913 scaffold\_3 40376934 40572332 0.00525879419489 0.00144964438537 0.00528288606305 0.00147834580686 0.353837237712 0.358669448558 0.06372 0.0716537528532 0.01125 0.0276256665882 0.16 Chr2 157769492

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N00004 17000000 17200000 0.9727286 scaffold\_3 39778534 39983354 0.00433211867729 0.00131797052029 0.0045141913634 0.00140835705684 0.370506711621 0.372752570374 0.079335 0.0687384044527 0.06814 0.0761497900596 0.078 Chr2 157769492

N00004 17200000 17400000 0 scaffold\_3 39577546 39778534 0.00407630304593 0.00121760835288 0.00424251549753 0.00127049515281 0.374974909531 0.372112932175 0.10376 0.0700390073039 0.050005 0.0509831432722 0.0565 Chr2 157769492

N00004 17400000 17600000 1.40844 scaffold\_3 39379613 39577546 0.00368480986026 0.00114763551954 0.003780190748 0.00116899210353 0.394250398501 0.390564720989 0.06414 0.0529421571946 0.040285 0.0414584733218 0.0625 Chr2 157769492

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N00004 17800000 18000000 1.502438 scaffold\_3 38976059 39179862 0.00331482209012 0.00105429486442 0.00333514500312 0.00106137755645 0.39074366349 0.39244202561 0.104415 0.0825257724371 0.010695 0.0113737285516 0.045 Chr2 157769492

N00004 18000000 18200000 3.997519 scaffold\_3 38780319 38976059 0.00411397162105 0.00120190914764 0.00417385451735 0.00122006833208 0.377980960093 0.371971587637 0.06836 0.0661540819454 0.02002 0.0196536221518 0.0285 Chr2 157769492

N00004 18400000 18600000 0.6934524 scaffold\_3 38394034 38598769 0.00407775246017 0.00118695115182 0.00423350659904 0.0012436870476 0.359429225542 0.358480785584 0.09153 0.109111778641 0.05 0.0529806823455 0.0923333333333 Chr2 157769492

N00004 18600000 18800000 0.8814873 scaffold\_3 38198447 38394034 0.0045641303604 0.000971720378456 0.00464252686348 0.000990411819905 0.389084662144 0.388030919759 0.06483 0.043750351506 0.02248 0.0241120319858 0.076 Chr2 157769492

N00004 18800000 19000000 1.274914 scaffold\_3 37993580 38198447 0.00465049319096 0.00132689673186 0.00465049319096 0.00132689673186 0.382155998276 0.381199141274 0.121955 0.0967603371944 0 0 NA Chr2 157769492

N00004 19000000 19200000 1.274914 scaffold\_3 37795359 37993580 0.0045788508417 0.00122765670265 0.00461585184855 0.00124519503617 0.3751567023 0.373452063819 0.115205 0.0864086045374 0.019485 0.0205074134426 0.113 Chr2 157769492

N00215 0 200000 0 scaffold\_3 37471723 37669888 0.00426298535338 0.00118407789096 0.00433325182385 0.00121044265954 0.370135537381 0.370002338754 0.086245 0.0878510332299 0.02554 0.0262659904625 0.068 Chr2 157769492

N00215 200000 400000 0.5972598 scaffold\_3 37277770 37471723 0.0042673902932 0.00102220455407 0.00429469466646 0.00103387460425 0.382915392925 0.384826006581 0.118625 0.0728527014277 0.015385 0.0154161059638 0.059 Chr2 157769492

N00215 400000 600000 0.8514129 scaffold\_3 37082473 37277770 0.00424789175743 0.00108594887812 0.00426249157173 0.00109210772502 0.37550744249 0.378052644976 0.032775 0.0358377240818 0.004715 0.00539690829864 0.045 Chr2 157769492

N00215 600000 800000 0.8514129 scaffold\_3 36889068 37082473 0.0036622830682 0.0010344722766 0.00366246571426 0.00103502996937 0.399768294408 0.403055664414 0.056045 0.0350508001344 0.00841 0.00522737261188 0.036 Chr2 157769492

N00003 0 200000 0 scaffold\_3 16625113 16826127 0.000805524165347 0.00137326052771 0.000820555956565 0.0014253659501 0.397601840448 0.391105897018 0.146145 0.0864168664869 0.03556 0.0404897171341 0.0435 Chr2 157769492

N00003 200000 400000 1.057423 scaffold\_3 16826127 17019121 0.00206790380081 0.00112126715365 0.0020899063504 0.00114661025404 0.418580584858 0.415308839482 0.06598 0.026415328974 0.02141 0.0248712395204 0.2065 Chr2 157769492

N00003 400000 600000 1.23571 scaffold\_3 17019121 17212732 0.00327050197689 0.00123544876298 0.00332468480371 0.00125061524265 0.445319071544 0.444074431104 0.118185 0.0493308747953 0.025955 0.0250863845546 0.0733333333333 Chr2 157769492

N00003 600000 800000 1.23571 scaffold\_3 17212732 17406960 0.00343342043095 0.00123528202113 0.00347060503938 0.00125912930796 0.379972572836 0.379445827591 0.078975 0.0485511872645 0.02124 0.0219020944457 0.0655 Chr2 157769492

N00003 800000 1000000 1.23571 scaffold\_3 17406960 17597639 0.0032473299889 0.000962645214191 0.00326187902614 0.000969827340426 0.426865855089 0.429804566553 0.0889 0.0403033370219 0.005095 0.0102423444637 0.088 Chr2 157769492

N00003 1000000 1200000 1.23571 scaffold\_3 17597639 17794921 0.00385241430747 0.000883984316295 0.0038822281787 0.000905853807035 0.407330003929 0.408237546854 0.06605 0.0472521568111 0.013365 0.0338348151377 0.117 Chr2 157769492

N00003 1200000 1400000 1.23571 scaffold\_3 17794921 17994121 0.00364898498107 0.000911866464064 0.00371650259464 0.000936221743695 0.396492529875 0.39702526691 0.06989 0.0432178714859 0.02952 0.0318524096386 0.087 Chr2 157769492

N00003 1400000 1600000 1.23571 scaffold\_3 17994121 18184075 0.00377156260875 0.00119908596506 0.0038462190037 0.00122739790865 0.382890612488 0.381257025722 0.063385 0.046737631216 0.023165 0.0249007654485 0.051 Chr2 157769492

N00003 1600000 1800000 1.408884 scaffold\_3 18184075 18383024 0.00384985139533 0.00105383931379 0.00385666549493 0.0010564275419 0.38253539135 0.382640997831 0.075805 0.0566828684738 0.002195 0.00224178055683 NA Chr2 157769492

N00003 1800000 2000000 3.55625 scaffold\_3 18383024 18577293 0.00398688218541 0.00131211373468 0.00402976344754 0.00132960915791 0.402197644276 0.403451149566 0.06604 0.0482732705681 0.01598 0.0165234803288 0.065 Chr2 157769492

N00003 2000000 2200000 3.55625 scaffold\_3 18577293 18774723 0.0044201740671 0.00122955442894 0.00442536916448 0.00123100015021 0.387261605657 0.388938943134 0.039705 0.0433166185483 0.001065 0.00111431899914 0.02 Chr2 157769492

N00003 2200000 2400000 3.55625 scaffold\_3 18774723 18966308 0.00401465441076 0.00109090776506 0.00402842056455 0.00109308097215 0.38948906232 0.389305108341 0.0557 0.0462301328392 0.003255 0.00339796956964 0.02 Chr2 157769492

N00003 2400000 2600000 3.55625 scaffold\_3 18966308 19153797 0.00387677911843 0.000990857629148 0.00388055979023 0.000991742220702 0.393298701872 0.394047109208 0.064255 0.031260500616 0.001605 0.00171210044323 0.02 Chr2 157769492

N00003 2600000 2800000 3.55625 scaffold\_3 19153797 19349822 0.00375663311418 0.00101780607819 0.00375663311418 0.00101865160215 0.39226859779 0.392960682497 0.06657 0.0553296773371 0.000375 0.00102537941589 0.02 Chr2 157769492

N00003 2800000 3000000 3.55625 scaffold\_3 19349822 19541866 0.00383397518973 0.00104386292212 0.00385321695094 0.00104960610692 0.385760182752 0.382847175545 0.09373 0.0659119785049 0.005815 0.00607673241549 0.083 Chr2 157769492

N00003 3000000 3200000 1.334321 scaffold\_3 19541866 19739887 0.00394822784918 0.00093371381275 0.00395397818861 0.000935076982763 0.387654805268 0.38358859226 0.098755 0.0945859277551 0.0015 0.00125744239247 NA Chr2 157769492

N00003 3200000 3400000 0.2480447 scaffold\_3 19739887 19938299 0.00431710495155 0.00106642125666 0.00439223102927 0.00109124963735 0.398386415195 0.401351223923 0.07496 0.0426990303006 0.02333 0.0230681611999 0.0625 Chr2 157769492

N00003 3400000 3600000 0.2480447 scaffold\_3 19938300 20133698 0.00464111161515 0.00128404572543 0.00464324412451 0.0012887138441 0.37325676316 0.371488392554 0.100965 0.0864696670386 0.00039 0.0170165508347 0.032 Chr2 157769492

N00003 3600000 3800000 0.2480447 scaffold\_3 20133698 20337227 0.00455970973358 0.00107449814916 0.00456945646222 0.00107646010828 0.399525131621 0.401303538175 0.056345 0.0773403298793 0.003885 0.00383237769556 0.053 Chr2 157769492

N00003 3800000 4000000 5.660955 scaffold\_3 20337227 20530213 0.00505354885662 0.00127685273645 0.00510948051615 0.00129764753227 0.388655971922 0.387082870547 0.070785 0.0578694827604 0.01678 0.0174883152146 0.119 Chr2 157769492

N00003 4000000 4200000 7.783738 scaffold\_3 20530213 20724102 0.00347812372998 0.000990682565895 0.0035845678148 0.00101951907331 0.401467185324 0.40145559614 0.03995 0.030192532841 0.032005 0.0320905260226 NA Chr2 157769492

N00003 4200000 4400000 1.824038 scaffold\_3 20724102 20917159 0.00342966276665 0.00100262443183 0.00342966276665 0.00100365453768 0.397087603716 0.397913179273 0.06505 0.0325914108269 0 0.000922007490016 NA Chr2 157769492

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N00003 4800000 5000000 3.330935 scaffold\_3 21299132 21494330 0.00394575572302 0.00102556170857 0.00395312585028 0.0010277198388 0.396750005379 0.396355788959 0.05738 0.0352001557393 0.00188 0.00194161825429 NA Chr2 157769492

N00003 5000000 5200000 3.374676 scaffold\_3 21494330 21693224 0.00448556043561 0.00119131290874 0.00448929001026 0.00119300562166 0.38424202311 0.387212146135 0.074725 0.0769505364667 0.00113 0.00114131145233 NA Chr2 157769492

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N00003 5400000 5600000 2.656002 scaffold\_3 21887194 22079708 0.00487835207145 0.00128286460126 0.00488042163027 0.00128334320657 0.363709346912 0.362251854715 0.06682 0.0722596798155 0.000825 0.000857080524014 0.095 Chr2 157769492

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N00003 5800000 6000000 2.30291 scaffold\_3 22271619 22465472 0.00518455973854 0.00133832165892 0.00518455973854 0.00133832165892 0.373576060886 0.371337753448 0.062 0.0558258061521 0 0 NA Chr2 157769492

N00003 6000000 6200000 2.308764 scaffold\_3 22465472 22652150 0.00425286327791 0.00108740874225 0.00432287623557 0.00111325945326 0.382263362912 0.384505418753 0.09069 0.0579554098501 0.02441 0.0339729373574 0.0675 Chr2 157769492

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N00003 6600000 6800000 3.007972 scaffold\_3 23035595 23223679 0.00318837911581 0.000907564161268 0.00320010139114 0.000910519868714 0.379033420387 0.381733008094 0.09453 0.053438889007 0.003195 0.00339741817486 0.007 Chr2 157769492

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N00003 10200000 10400000 0.6427907 scaffold\_3 26951456 27144825 0.00426794919167 0.00107329445991 0.00436125875297 0.00110351450623 0.385824175199 0.385900633456 0.06479 0.0490668100885 0.029065 0.0310753016254 0.0335 Chr2 157769492

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N00003 11600000 11800000 2.988016 scaffold\_3 28316897 28514349 0.00450230784824 0.00108326456965 0.00450230784824 0.00108326456965 0.376482490529 0.379377748819 0.07908 0.0679405627697 0 0 NA Chr2 157769492

N00003 11800000 12000000 2.966481 scaffold\_3 28514349 28711325 0.00469832246848 0.00125492693422 0.00481328234844 0.00128256197677 0.393660549653 0.393619424381 0.10897 0.0859749411096 0.027225 0.0269423686134 0.091 Chr2 157769492

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N00003 16600000 16800000 0.7926375 scaffold\_3 33219696 33408295 0.00509327021826 0.0011175483853 0.00509327021826 0.0011175483853 0.348183336212 0.348704295944 0.098335 0.0791573656276 0 0 NA Chr2 157769492

N00003 16800000 17000000 0.7926375 scaffold\_3 33408301 33606625 0.00473362386333 0.00123675333818 0.00473362386333 0.00123675333818 0.358966687762 0.358710515907 0.115125 0.117903027369 0 0 NA Chr2 157769492

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N00003 18000000 18200000 0.7926375 scaffold\_3 34599976 34790036 0.00351511331449 0.000904954612725 0.00351671322637 0.000904954612725 0.412192617413 0.40904034194 0.05987 0.0240345154162 0.000735 0 0.085 Chr2 157769492

N00003 18200000 18400000 0.7926375 scaffold\_3 34790036 34986077 0.00360629928259 0.00102890785452 0.0036446329505 0.00104109676773 0.394120177188 0.38850627487 0.070345 0.0613596135502 0.014835 0.0159303411021 0.0475 Chr2 157769492

N00003 18400000 18600000 0.9713187 scaffold\_3 34986077 35176561 0.00411361887497 0.0010684735076 0.00416133267148 0.00108226232362 0.408910018579 0.409285558226 0.068195 0.0365227525671 0.016995 0.0176077780811 0.0716666666667 Chr2 157769492

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N00003 19600000 19800000 1.935933 scaffold\_3 36177267 36387179 0.00401908335365 0.000618698312927 0.0040484221671 0.000638399540453 0.380955149721 0.376770303623 0.084185 0.0488680971074 0.010225 0.0324278745379 0.049 Chr2 157769492

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N00113 0 200000 2.48862 scaffold\_3 14104110 14299768 0.00375051409056 0.00109900891303 0.0037634863003 0.00110148650081 0.430727394856 0.425565281401 0.05924 0.0463410645105 0.00335 0.00869885207863 0.024 Chr2 157769492

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N00113 400000 600000 2.48862 scaffold\_3 14503766 14698209 0.00394579531039 0.00135277484543 0.00398614163224 0.00137132971658 0.366666111213 0.365430731345 0.055345 0.0462243433808 0.014725 0.0168172677854 NA Chr2 157769492

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N00113 1200000 1400000 2.48862 scaffold\_3 15227460 15425532 0.00336475705487 0.00106905306731 0.00348485777593 0.00115104006776 0.424506446117 0.417818432577 0.071485 0.0505927137607 0.08058 0.087165273234 0.0877142857143 Chr2 157769492

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N00113 1800000 2000000 2.48862 scaffold\_3 15817248 16003895 0.00280627622523 0.000926476273299 0.00297129160125 0.000996299606392 0.375727548818 0.373792193029 0.099095 0.0388755243856 0.0841 0.0891201037252 0.06 Chr2 157769492

N00113 2000000 2200000 2.48862 scaffold\_3 16003895 16200040 0.00263052214665 0.000976711234823 0.00264408291028 0.000980779322525 0.391194516641 0.388197767145 0.09876 0.0676744245329 0.00774 0.00790741543246 0.064 Chr2 157769492

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N00096 0 200000 2.48862 scaffold\_3 13892299 14080170 0.00357427779609 0.00107231233465 0.0036597654324 0.00110255375992 0.428852529396 0.424528085375 0.09379 0.0477827871252 0.034755 0.0408950822639 0.106 Chr2 157769492

N00096 200000 400000 2.48862 scaffold\_3 13701119 13892299 0.00392667262821 0.00115608329038 0.0039655813496 0.00117558148584 0.400216804591 0.395105124836 0.06491 0.0304477455801 0.02302 0.0201067057224 0.044 Chr2 157769492

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N00096 1800000 2000000 2.583882 scaffold\_3 12220475 12403636 0.00417535612143 0.00103818715238 0.00424641346822 0.00106346046856 0.420111002285 0.41175886442 0.10952 0.0376280976846 0.034185 0.0376663154274 0.099 Chr2 157769492

N00096 2000000 2200000 2.583882 scaffold\_3 12037315 12220475 0.00372032971013 0.00116241685834 0.00375159536417 0.00117229367628 0.415978763487 0.406113208421 0.125 0.0297335662808 0.011435 0.013889495523 0.092 Chr2 157769492

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N00238 0 200000 4.797327 scaffold\_3 10038085 10227207 0.00423260806541 0.00125000846082 0.00436502377543 0.00129293748507 0.3711479693 0.36572632762 0.077245 0.0471177335265 0.031555 0.0364526601876 0.045 Chr2 157769492

N00238 400000 600000 4.797327 scaffold\_3 10397450 10582174 0.00415194546465 0.00111961809772 0.00415194546465 0.00111961809772 0.399830938292 0.390730762705 0.12492 0.0621088759447 0 0 NA Chr2 157769492

N00175 0 200000 3.584012 scaffold\_3 9753893 9953645 0.00418431328789 0.00124251639249 0.00428834310284 0.00128069633448 0.392460869812 0.385973713839 0.11192 0.063874204013 0.029685 0.0395740718491 0.0496666666667 Chr2 157769492

N00175 200000 400000 1.410156 scaffold\_3 9563845 9753893 0.00450330003558 0.0012599796959 0.00452957411228 0.00126790703918 0.389936928878 0.382747522562 0.08782 0.0604321013639 0.008005 0.00843997305944 NA Chr2 157769492

N00175 600000 800000 1.410156 scaffold\_3 9201142 9382442 0.00509902779197 0.0014206252944 0.00511624545373 0.00142763325319 0.355511240029 0.349551011274 0.101195 0.0511913954771 0.005115 0.00564258135687 NA Chr2 157769492

N00175 1200000 1400000 3.607335 scaffold\_3 8622634 8815394 0.00473489219298 0.00131597216663 0.00473489219298 0.00131684369716 0.361002449245 0.357721021162 0.12529 0.0980130732517 0 0.000503216434945 NA Chr2 157769492

N00081 400000 600000 3.607335 scaffold\_3 8026292 8220551 0.00439462776296 0.00109886051742 0.00439891024476 0.00110129921086 0.38231246681 0.381668448962 0.089555 0.0836512079234 0.001195 0.00199218569024 0.063 Chr2 157769492

N00081 600000 800000 1.997931 scaffold\_3 7824143 8026292 0.00436506344522 0.00123604125376 0.00437495805799 0.00123596853296 0.397530822363 0.396317128774 0.091285 0.115578113174 0.002895 0.00289390499087 0.0855 Chr2 157769492

N00081 800000 1000000 1.263203 scaffold\_3 7625521 7824143 0.00433495773794 0.00109334238752 0.00434262156578 0.00109745184532 0.416502308242 0.417673095163 0.04874 0.029815428301 0.00236 0.00328261723273 NA Chr2 157769492

N00081 1000000 1200000 1.263203 scaffold\_3 7422713 7625506 0.00425284186303 0.00111069189666 0.00432167960598 0.00113224766009 0.415617002615 0.414295142851 0.08288 0.0754168043276 0.023155 0.0229396478182 0.072 Chr2 157769492

N00081 1400000 1600000 1.263203 scaffold\_3 7066370 7265978 0.00427891805986 0.00099710562376 0.00434479107509 0.00101816622576 0.399081611355 0.401100102793 0.0615 0.0783134944491 0.024015 0.0247835758086 0.058 Chr2 157769492

N00081 1600000 1800000 1.263203 scaffold\_3 6871930 7066370 0.0047569799 0.00102285877156 0.00479727931678 0.00103275515882 0.407778624489 0.409033819473 0.11436 0.0938438592882 0.01399 0.0149506274429 0.105 Chr2 157769492

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N00081 2600000 2800000 1.263203 scaffold\_3 5888063 6094287 0.0038911600463 0.000913988620642 0.00389612090084 0.000914999289469 0.368671491556 0.367718789964 0.11496 0.116727442005 0.001125 0.00110559391729 NA Chr2 157769492

N00081 2800000 3000000 1.263203 scaffold\_3 5693175 5888063 0.00374040194903 0.000940497474241 0.00379724059701 0.000954978236363 0.360413286448 0.364290958212 0.116385 0.121495423012 0.016545 0.0168917532121 0.055 Chr2 157769492

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N00081 3400000 3600000 1.390582 scaffold\_3 5137494 5347693 0.00416398133861 0.00101418193736 0.0041764357156 0.001016591538 0.382465050119 0.378554184549 0.1024 0.13584270144 0.00287 0.00264511248864 0.039 Chr2 157769492

N00076 2600000 2800000 1.55013 scaffold\_3 1863479 2066308 0.00427447237235 0.00109777834027 0.00432125457698 0.00111426530144 0.373547965562 0.374050199658 0.11005 0.105113174152 0.013385 0.0151704144871 0.0945 Chr2 157769492

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N00076 3200000 3400000 1.798246 scaffold\_3 1285432 1473211 0.00454127418352 0.00118702361024 0.00460179259564 0.00121043445365 0.416166098454 0.418325642716 0.099745 0.0642510610878 0.02779 0.0334542201205 0.084 Chr2 157769492

N00076 3400000 3600000 1.798246 scaffold\_3 1085973 1285026 0.00459289929113 0.00106569378649 0.00464572649246 0.00108074635523 0.397466750404 0.399016398927 0.09022 0.0779591365114 0.013075 0.0131422284517 0.062 Chr2 157769492

N00076 3600000 3800000 1.828722 scaffold\_3 895675 1085973 0.00384637169117 0.000930178320716 0.00390997143077 0.000948721077124 0.414552759908 0.420999200322 0.08305 0.0271521508371 0.022755 0.0258121472638 0.073 Chr2 157769492

N00076 3800000 4000000 2.269458 scaffold\_3 699666 895675 0.0043080393833 0.00121331460375 0.00436342099674 0.00123447649073 0.365528382426 0.367305683005 0.094965 0.0489263248116 0.02448 0.0249733430608 0.0505 Chr2 157769492

N00009 400000 600000 0.434968 scaffold\_33 2950815 3156876 0.00422061693245 0.00124095299177 0.00422061693245 0.00124095299177 0.353295321338 0.348187811268 0.13154 0.147174865695 0 0 NA Chr2 157769492

N00009 600000 800000 0.5854939 scaffold\_33 2762088 2950815 0.00420422758336 0.00122149309903 0.00423908523257 0.00123044358096 0.350757661935 0.348306171789 0.13294 0.102423076719 0.009425 0.0125578216153 0.071 Chr2 157769492

N00009 2200000 2400000 1.00583 scaffold\_33 1180583 1377011 0.00437483135071 0.00127633796992 0.00437483135071 0.00127633796992 0.360367067786 0.355547578718 0.108505 0.109969047183 0 0 NA Chr2 157769492

N00009 2400000 2600000 1.00583 scaffold\_33 979066 1180583 0.00392457221049 0.00117231604195 0.00392457221049 0.00117231604195 0.380347882159 0.378447307919 0.06483 0.0862706372167 0 0 NA Chr2 157769492

N00009 2600000 2800000 1.00583 scaffold\_33 784369 979066 0.0036629882954 0.000987598002427 0.00368844721242 0.0010004177504 0.398832837663 0.398711579828 0.07925 0.0583265278869 0.01185 0.0121881693092 0.098 Chr2 157769492

N00009 2800000 3000000 1.00583 scaffold\_33 588346 784369 0.00432795767658 0.00124232374931 0.00439849641777 0.00127255953563 0.376501623617 0.376869753429 0.11216 0.0969325028185 0.031225 0.0315422169847 0.076 Chr2 157769492

N00009 3000000 3200000 1.00583 scaffold\_33 390422 588346 0.0043658342216 0.0011995561114 0.0043658342216 0.0011995561114 0.383251486742 0.386627185744 0.07296 0.0832996503708 0 0 NA Chr2 157769492

N00009 3200000 3400000 1.00583 scaffold\_33 192728 389798 0.0038509537309 0.0010847516596 0.0038568462762 0.00108410491635 0.400414225494 0.404970631586 0.087125 0.0882732024154 0.00329 0.00333891510631 0.08 Chr2 157769492

N00009 3400000 3600000 1.00583 scaffold\_33 88 192728 0.00385232146577 0.000885597653742 0.00385474465741 0.000891154092534 0.42287881835 0.424014277547 0.051565 0.055050872093 0.011725 0.0122041112957 0.08 Chr2 157769492

N00009 3600000 3800000 1.00583 scaffold\_106 908266 1105087 0.00444414308412 0.00106777245199 0.00452080545194 0.00109780930897 0.380258369312 0.379836994845 0.059885 0.0603441705916 0.025295 0.0328471047297 0.0565 Chr2 157769492

N00009 3800000 4000000 1.00583 scaffold\_106 713577 908266 0.00382483532222 0.00103964702821 0.00387774293814 0.00105582704152 0.42016053527 0.419837064437 0.093 0.0527405246316 0.029105 0.0232370601318 0.0325 Chr2 157769492

N00009 4000000 4200000 1.00583 scaffold\_106 514484 713577 0.00342463443162 0.000888352264355 0.00346214679594 0.000894930416099 0.411143984221 0.409515409921 0.05272 0.0436831028715 0.023425 0.023672354126 0.0773333333333 Chr2 157769492

N00009 4200000 4400000 1.00583 scaffold\_106 322603 514484 0.00396533522061 0.00108518457758 0.0040433884696 0.00112233200853 0.41002728909 0.409493663706 0.073515 0.0366425023843 0.045145 0.0461536056201 0.04925 Chr2 157769492

N00009 4800000 5000000 1.00583 scaffold\_85 824682 1016967 0.00416217721517 0.00102699024312 0.00416683640797 0.00102956106709 0.381981113473 0.383769508053 0.03648 0.0457862027719 0.003345 0.003619627116 0.119 Chr2 157769492

N00009 5000000 5200000 1.00583 scaffold\_85 633202 824682 0.00368318746416 0.00101955577239 0.00368665268098 0.0010202689973 0.405097185349 0.41735095179 0.056365 0.0343273448924 0.00172 0.00181742218508 0.119 Chr2 157769492

N00009 5200000 5400000 1.404249 scaffold\_85 441546 633202 0.00426399141352 0.00116183626081 0.00426399141352 0.00116249842119 0.423335123523 0.430951675067 0.072425 0.0304973494177 0 0.00336540468339 NA Chr2 157769492

N00009 5400000 5600000 4.645933 scaffold\_85 252062 441546 0.00449387562802 0.00106072258498 0.00449334205 0.00106423916999 0.396456592988 0.398346710754 0.05516 0.037517679593 0.00268 0.00282873487999 0.072 Chr2 157769492

N00009 5600000 5800000 4.61264 scaffold\_85 58561 252062 0.00408690078935 0.000934321061037 0.00415648442021 0.000951799762095 0.398842464998 0.395565996976 0.05278 0.0361548519129 0.02097 0.0216174593413 0.0646666666667 Chr2 157769492

N00009 6000000 6200000 2.972935 scaffold\_85 1746371 1949801 0.00481518377525 0.00119599645345 0.00483214429774 0.00119994019493 0.423390142696 0.423047719483 0.044715 0.0329253305805 0.00685 0.00252666764981 0.05 Chr2 157769492

N00009 6200000 6400000 2.972935 scaffold\_85 1550203 1746371 0.004475187252 0.00125827493172 0.0045537094659 0.00128224706167 0.386348991201 0.38539946723 0.069715 0.0538008237837 0.023075 0.021547856939 0.032 Chr2 157769492

N00009 6400000 6600000 2.972935 scaffold\_85 1352796 1550203 0.00463884805548 0.000965181380052 0.0046557536064 0.000967574627837 0.380716250394 0.379519539347 0.071885 0.0753012811096 0.003455 0.00198067950985 NA Chr2 157769492

N00009 6600000 6800000 2.972935 scaffold\_85 1157912 1352796 0.00427920960143 0.00112515381313 0.00431878596173 0.00113887306539 0.384891655009 0.385757938684 0.088455 0.0771535888015 0.010935 0.0113400792266 0.099 Chr2 157769492

N00009 7000000 7200000 2.972935 scaffold\_42 89501 297037 0.00388084216836 0.00115276236143 0.00390687674008 0.00116236356523 0.426963686851 0.432446456171 0.083575 0.0743678205227 0.01083 0.00847081952047 0.297666666667 Chr2 157769492

N00009 7200000 7400000 2.972935 scaffold\_42 297037 489248 0.00400321630339 0.00112523802651 0.00402089130064 0.00113008904273 0.436167997984 0.433035048471 0.05595 0.0440141303047 0.00535 0.00559281206591 0.0935 Chr2 157769492

N00009 7400000 7600000 2.972935 scaffold\_42 489248 676616 0.0035699230366 0.000901539105909 0.00360085376825 0.000913073661117 0.439574039592 0.440059980329 0.050815 0.00675675675676 0.019115 0.0204036975364 0.057 Chr2 157769492

N00009 7600000 7800000 2.972935 scaffold\_42 676616 886029 0.00450699792915 0.00139468231393 0.0046385169731 0.00146648327547 0.418415606633 0.415985214672 0.070995 0.0621690152951 0.049935 0.0596811086227 0.0695 Chr2 157769492

N00009 7800000 8000000 2.972935 scaffold\_42 886029 1073870 0.00435129715458 0.00112173265994 0.00439278842906 0.00113482868126 0.404752490906 0.403738101534 0.079185 0.0313190411039 0.013175 0.015598298561 0.062 Chr2 157769492

N00009 8000000 8200000 2.972935 scaffold\_42 1073908 1263333 0.00479544868422 0.00130382553278 0.00482267366772 0.00131271448736 0.379361160014 0.377236865845 0.079935 0.0513606968457 0.00553 0.00585983898641 0.034 Chr2 157769492

N00009 8200000 8400000 2.972935 scaffold\_42 1263333 1456838 0.00507160601306 0.0014411635486 0.00507160601306 0.0014411635486 0.382581086629 0.38252015182 0.073845 0.0559675460582 0 0 NA Chr2 157769492

N00009 8400000 8600000 2.972935 scaffold\_42 1456838 1640539 0.00443860608843 0.00107647526243 0.00443860608843 0.00107647526243 0.389263728706 0.391511714801 0.08494 0.0398092552572 0 0 NA Chr2 157769492

N00009 8600000 8800000 2.42801 scaffold\_42 1640539 1830043 0.00427337472593 0.000940576968929 0.00427511484261 0.000945160717575 0.387105846541 0.390237980883 0.047425 0.0296827507599 0.00036 0.0134086879433 0.053 Chr2 157769492

N00009 8800000 9000000 2.075148 scaffold\_42 1830043 2030490 0.00415752416878 0.0012689898712 0.00416752515141 0.00127280672647 0.414055660632 0.420851086493 0.054755 0.0642913089246 0.00294 0.00372667089056 0.053 Chr2 157769492

N00009 9200000 9400000 2.075148 scaffold\_42 2217723 2413355 0.00477841310008 0.00125345585383 0.00478772105681 0.00126429623887 0.421734081462 0.427426302989 0.071315 0.0362568495952 0.0117 0.0135253946185 0.226 Chr2 157769492

N00009 9400000 9600000 2.075148 scaffold\_42 2413355 2605030 0.00435988592423 0.00111029971267 0.00437837062423 0.00111529707555 0.414557515385 0.416683177035 0.085965 0.0510134341985 0.00547 0.00590061301683 0.0275 Chr2 157769492

N00009 9600000 9800000 2.075148 scaffold\_42 2605030 2785178 0.0037282899705 0.00100012459675 0.0037523672974 0.00103880611243 0.414495239623 0.418221759217 0.096685 0.0507027555121 0.01474 0.0464062881631 0.08 Chr2 157769492

N00009 9800000 10000000 2.075148 scaffold\_42 2785178 2978969 0.00401563798831 0.00109021933967 0.0040182459288 0.00109021933967 0.403323533727 0.401033494873 0.06506 0.0467875185122 0.001185 0 NA Chr2 157769492

N00009 10000000 10200000 2.075148 scaffold\_42 2978969 3173916 0.0041077638353 0.00118847872573 0.0041221366699 0.00119470564151 0.406942809154 0.403263416083 0.08171 0.0688546117663 0.009175 0.0083407285057 0.055 Chr2 157769492

N00009 10200000 10400000 2.075148 scaffold\_42 3173916 3372310 0.00444986934649 0.00106680142849 0.00451635254838 0.00109346112247 0.412868186823 0.414292581867 0.098675 0.0779761484722 0.021905 0.0250914846215 0.07125 Chr2 157769492

N00009 10400000 10600000 2.075148 scaffold\_42 3372310 3558562 0.00374380845398 0.000994206292208 0.00381152199958 0.00101895687423 0.39145651296 0.392099381928 0.071915 0.0364184008762 0.03032 0.0356613620256 0.0466666666667 Chr2 157769492

N00009 10600000 10800000 2.075148 scaffold\_42 3558747 3749502 0.00306642248146 0.000909914166072 0.00306642248146 0.000909914166072 0.412061862412 0.41499834679 0.06243 0.0295300254253 0 0 NA Chr2 157769492

N00009 10800000 11000000 2.075148 scaffold\_42 3749502 3942768 0.00332949746832 0.000946956048076 0.00334497056586 0.00095512107626 0.43375349058 0.433913197978 0.054905 0.039075678081 0.016405 0.0175095464282 0.034 Chr2 157769492

N00009 11000000 11200000 2.075148 scaffold\_42 3942768 4141232 0.0044173055135 0.00119372227505 0.004442322662 0.00120276950465 0.396924378612 0.396577612519 0.07742 0.0691309255079 0.006785 0.00629837149307 0.038 Chr2 157769492

N00009 11200000 11400000 2.075148 scaffold\_42 4141232 4337052 0.00395534349599 0.00096995278071 0.00401377323941 0.00098154551562 0.400296503772 0.399062962354 0.06437 0.0431314472475 0.023525 0.0236135226228 0.0365 Chr2 157769492

N00009 11400000 11600000 2.075148 scaffold\_42 4337052 4538213 0.00362613113175 0.000899102397872 0.00362613113175 0.000899400203553 0.424389587315 0.426440245067 0.052505 0.0628948951337 0 0.000223701413296 NA Chr2 157769492

N00009 11600000 11800000 2.075148 scaffold\_42 4538213 4731112 0.00366406472834 0.000871322975937 0.00366406472834 0.000871322975937 0.429865962899 0.434439186981 0.066935 0.0472838117357 0 0 NA Chr2 157769492

N00009 11800000 12000000 2.075148 scaffold\_42 4731112 4917710 0.00404468848906 0.00108679671586 0.00406809720234 0.00109401103432 0.403776021427 0.408167388167 0.12392 0.0829215747221 0.009795 0.0121919849087 0.0625 Chr2 157769492

N00009 12000000 12200000 2.075148 scaffold\_42 4917710 5107296 0.0041958487125 0.00114209903445 0.00431793699694 0.00118355308511 0.389350014729 0.389614770007 0.052615 0.0267319316827 0.043205 0.044671020012 0.05625 Chr2 157769492

N00009 12200000 12400000 2.238523 scaffold\_42 5107296 5296139 0.00438263165075 0.0010532103049 0.00446193410631 0.00107935673728 0.399264606705 0.402470134745 0.081685 0.0423950053748 0.02896 0.0331227527629 0.068 Chr2 157769492

N00009 12400000 12600000 2.269458 scaffold\_42 5296139 5487600 0.0035998327848 0.000982620397858 0.0035998327848 0.000982620397858 0.422832448991 0.424024585783 0.06291 0.0398984649615 0 0 NA Chr2 157769492

N00009 12600000 12800000 2.269458 scaffold\_42 5487600 5680496 0.00386094241418 0.00100539802966 0.00386094241418 0.00100539802966 0.407707285413 0.410178416915 0.05307 0.041291680491 0 0 NA Chr2 157769492

N00009 12800000 13000000 2.269458 scaffold\_42 5680784 5869224 0.00371542347975 0.0010010728413 0.00371542347975 0.0010010728413 0.408213561821 0.413149026425 0.109295 0.0588197834855 0.001665 0 NA Chr2 157769492

N00009 13000000 13200000 2.269458 scaffold\_42 5869449 6063203 0.00452657267665 0.00106618757364 0.00458183207786 0.00108001697832 0.4057387336 0.407773698023 0.089095 0.0464764598408 0.013495 0.0140797093221 0.0503333333333 Chr2 157769492

N00009 13200000 13400000 2.269458 scaffold\_42 6063203 6255044 0.00456418630522 0.000927200537547 0.00457745804571 0.000930574740003 0.373285500883 0.372887894033 0.07655 0.0711735239078 0.003115 0.00324748098686 0.052 Chr2 157769492

N00009 13400000 13600000 2.269458 scaffold\_42 6255045 6445035 0.00411737080647 0.000994846234044 0.00412672045037 0.000999946321642 0.378217799667 0.378887342774 0.062895 0.0445181325333 0.00421 0.00445286594031 0.052 Chr2 157769492

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N00009 13800000 14000000 2.269458 scaffold\_42 6642359 6836382 0.00454615287281 0.00101438739074 0.00454615287281 0.00101438739074 0.398476236546 0.398964742651 0.07841 0.0620081124403 0 0 NA Chr2 157769492

N00009 14000000 14200000 2.269458 scaffold\_42 6836382 7035961 0.00419691155664 0.00114703610075 0.0042074756366 0.00114831133738 0.387300892222 0.390524691691 0.06966 0.074266330626 0.003435 0.00345727756928 0.096 Chr2 157769492

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N00009 14600000 14800000 2.269458 scaffold\_42 7438459 7640459 0.00482523334209 0.00115145217894 0.00497475973208 0.00119898191147 0.391977332475 0.39347183062 0.08707 0.116262376238 0.04368 0.0439158415842 0.0544 Chr2 157769492

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N00301 0 200000 2.155754 scaffold\_19 6608494 6796723 0.00451340003796 0.00105356057072 0.00475333949585 0.00112297758524 0.390517144533 0.391262743366 0.11212 0.0672903750219 0.07043 0.0648837320498 0.0725 Chr2 157769492

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N00027 0 200000 0.1791082 scaffold\_24 2530757 2735367 0.00387657095854 0.00119375820306 0.00387657095854 0.00121556486393 0.353513617314 0.350189873772 0.10564 0.102981281462 0 0.0178143785739 NA Chr2 157769492

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N00027 6800000 7000000 0.9013772 scaffold\_19 3990921 4180165 0.00419891066534 0.00122227681415 0.00425160682793 0.00123817182358 0.388186881703 0.390535123386 0.108805 0.0951945636321 0.014125 0.0149172496882 0.045 Chr2 157769492

N00027 7000000 7200000 0.9013772 scaffold\_19 4180165 4379653 0.00462160669269 0.00124775092827 0.00465337767998 0.00125709408043 0.370078960946 0.369209584137 0.085115 0.0959355951235 0.007125 0.00714328681424 0.04 Chr2 157769492

N00027 7200000 7400000 0.9013772 scaffold\_19 4379653 4579928 0.00448669771765 0.00129823439547 0.00450865620225 0.00130876344619 0.385002769804 0.38855594152 0.07456 0.0754113094495 0.00838 0.0101260766446 0.073 Chr2 157769492

N00027 7400000 7600000 0.9013772 scaffold\_19 4579928 4772350 0.00440433245261 0.00130978661844 0.00443598748265 0.00132016373987 0.37424744001 0.373013043601 0.10323 0.0688019041482 0.012745 0.0125401461371 0.061 Chr2 157769492

N00027 7600000 7800000 0.9013772 scaffold\_19 4772350 4959048 0.00413556312522 0.000983032183368 0.00413556312522 0.000983032183368 0.369727932251 0.371256814696 0.102445 0.067499384032 0 0 NA Chr2 157769492

N00027 8000000 8200000 0.9013772 scaffold\_19 5147995 5339663 0.00464108781526 0.00134466182708 0.00464724069664 0.00134994930767 0.369729201403 0.371239987811 0.07304 0.0604743619175 0.00591 0.0061825656865 0.042 Chr2 157769492

N00027 8200000 8400000 0.9013772 scaffold\_19 5339663 5530645 0.00437192933548 0.000991923799567 0.00437192933548 0.000991923799567 0.362578230779 0.36278078262 0.117855 0.092846446262 0 0 NA Chr2 157769492

N00027 8400000 8600000 0.9013772 scaffold\_19 5530645 5724700 0.00361243426584 0.000968544371403 0.00361243426584 0.000968544371403 0.361363014884 0.361479524728 0.086635 0.0744943443869 0 0 NA Chr2 157769492

N00027 8600000 8800000 0.9013772 scaffold\_19 5724700 5919162 0.00388005828713 0.00101013880104 0.00388391996161 0.00101056836951 0.377300579446 0.37842912277 0.08223 0.0586027090126 0.007165 0.0040882023223 0.033 Chr2 157769492

N00027 8800000 9000000 0.9013772 scaffold\_19 5919162 6114943 0.00456823646491 0.00111989078686 0.00456823646491 0.00111989078686 0.366121611944 0.364975818243 0.066415 0.0585194681813 0 0 NA Chr2 157769492

N00027 9000000 9200000 2.349722 scaffold\_19 6114943 6302828 0.00418342212029 0.00120612067648 0.00418794485031 0.00120612067648 0.377279205502 0.376369127962 0.09472 0.0556829975783 0.003535 0 NA Chr2 157769492

N00010 200000 400000 0.8653143 scaffold\_38 4884378 5082491 0.0034436593048 0.00136628239097 0.00346079285167 0.00137359686603 0.352300977536 0.347479846918 0.073315 0.0954505761863 0.00519 0.00523943406036 0.036 Chr2 157769492

N00010 400000 600000 0.8653143 scaffold\_38 5082491 5282426 0.00424129994385 0.0016134965313 0.00424129994385 0.0016134965313 0.365031386733 0.363166571379 0.09921 0.10026258534 0 0 NA Chr2 157769492

N00010 800000 1000000 6.654067 scaffold\_38 5479005 5667066 0.00375288356831 0.00112824439348 0.00376730694087 0.00113486527303 0.394709137062 0.398511505888 0.11751 0.0850894124779 0.00574 0.00566305613604 0.1565 Chr2 157769492

N00010 1000000 1200000 6.801739 scaffold\_38 5667131 5856350 0.00348798451607 0.00110295191823 0.00348798451607 0.00110295191823 0.401917640381 0.405718062242 0.06937 0.0552692911388 0 0 NA Chr2 157769492

N00010 1200000 1400000 6.09111 scaffold\_38 5856350 6053302 0.00437228439997 0.00112819974868 0.00453812142892 0.00119879292868 0.383066796626 0.385003317071 0.0912 0.0776432836427 0.05708 0.0687578699379 0.066 Chr2 157769492

N00010 1400000 1600000 0 scaffold\_38 6053302 6239215 0.00365137319629 0.00113405115132 0.0036733072338 0.00115073965701 0.396016125207 0.39895482093 0.089 0.0338007562677 0.01873 0.0179815289947 NA Chr2 157769492

N00010 1600000 1800000 0 scaffold\_38 6239215 6431270 0.00423269908547 0.00129657006108 0.00425809134303 0.0013088241854 0.401811193961 0.404916917144 0.1041 0.0678347348416 0.01392 0.0100127567624 0.079 Chr2 157769492

N00010 1800000 2000000 0 scaffold\_38 6431270 6621825 0.00438477961614 0.00120800063773 0.00442466635052 0.0012212170757 0.410429081556 0.409328618799 0.07889 0.0647372149773 0.01176 0.0130828369762 NA Chr2 157769492

N00010 2200000 2400000 0.963494 scaffold\_38 6807963 7004108 0.00416795720599 0.00125080865553 0.0041941188912 0.00125901784166 0.388938750618 0.385608514317 0.101365 0.100135104132 0.0079 0.008075658314 0.048 Chr2 157769492

N00010 2400000 2600000 2.934277 scaffold\_38 7004108 7190802 0.00413819223496 0.00116911239949 0.00423597482368 0.00120290628796 0.367448170863 0.364923293538 0.10872 0.0807203230955 0.029935 0.0360107984188 0.056 Chr2 157769492

N00010 2600000 2800000 2.934277 scaffold\_38 7190802 7386233 0.00471670605815 0.00142887215037 0.00471886933695 0.00142887215037 0.378052844041 0.377970581286 0.08013 0.0632397112024 6,00E-04 0 0.052 Chr2 157769492

N00010 2800000 3000000 2.934277 scaffold\_38 7386233 7578213 0.00429631304647 0.00116160269898 0.00432143966618 0.00116771392933 0.404147744821 0.403128156196 0.09136 0.0640535472445 0.012575 0.00867798729034 0.116 Chr2 157769492

N00010 3000000 3200000 2.934277 scaffold\_38 7578213 7774708 0.00419705816847 0.00108274275552 0.00434168754823 0.00112093472568 0.393303054798 0.388967564322 0.066495 0.0630245044403 0.048085 0.0474770350391 0.0906666666667 Chr2 157769492

N00010 3200000 3400000 2.911703 scaffold\_38 7774708 7961415 0.00496406821905 0.00110215747514 0.00504970335478 0.00113090673803 0.385110536275 0.382526214168 0.107165 0.0675711140986 0.02652 0.0296186002667 0.05525 Chr2 157769492

N00010 3400000 3600000 2.913183 scaffold\_38 7961415 8156834 0.00454948920544 0.0011340256927 0.00463511620441 0.00115766337248 0.373167683953 0.372961327541 0.127465 0.104345022746 0.029575 0.03229982755 0.073 Chr2 157769492

N00010 3600000 3800000 2.441463 scaffold\_38 8156834 8360895 0.00493673190889 0.00116881375881 0.00493673190889 0.00116881375881 0.354302249645 0.355925054009 0.121915 0.129083950387 0 0 NA Chr2 157769492

N00010 4000000 4200000 0.2326907 scaffold\_24 13372824 13566070 0.0052685081811 0.000706673931688 0.0052685081811 0.000706673931688 0.358967621383 0.356674852041 0.113005 0.113797957008 0 0 NA Chr2 157769492

N00010 4200000 4400000 0 scaffold\_24 13184861 13372824 0.00476175514827 0.00127960652942 0.00476175514827 0.00127960652942 0.362736595371 0.359164829825 0.13574 0.0920553513191 0 0 NA Chr2 157769492

N00010 4400000 4600000 0 scaffold\_24 12990364 13184008 0.0039023269662 0.00117487392725 0.0039023269662 0.00117487392725 0.380790209597 0.38270047098 0.096545 0.0672574414906 0 0 NA Chr2 157769492

N00010 4600000 4800000 0.9771624 scaffold\_24 12800116 12990364 0.00405267628172 0.00125856614027 0.00409169779944 0.00127297168882 0.387749927975 0.392886720236 0.093095 0.0534933350153 0.01332 0.01630503343 0.062 Chr2 157769492

N00010 4800000 5000000 1.722892 scaffold\_24 12601913 12800116 0.0045094463449 0.00111804298584 0.00451130616374 0.00111807322922 0.399526603082 0.401661975462 0.068675 0.0594844679445 5,00E-04 0.000504533231081 0.059 Chr2 157769492

N00010 5000000 5200000 1.722892 scaffold\_24 12417163 12601913 0.00457390303124 0.0011843567515 0.00460189341805 0.00119434276337 0.404116400488 0.401788912835 0.110175 0.0648876860622 0.010175 0.0111393775372 0.0895 Chr2 157769492

N00010 5200000 5400000 1.722892 scaffold\_24 12223530 12417163 0.00372178280934 0.00115246935349 0.00374903718066 0.00116383871338 0.422133233036 0.421954915186 0.07261 0.0362748085295 0.013275 0.0128490494905 0.092 Chr2 157769492

N00010 5400000 5600000 1.722892 scaffold\_24 12031217 12223530 0.00394921303179 0.00105163758936 0.00397597117148 0.00105855823196 0.400381472941 0.401569775762 0.08276 0.0597463510007 0.00875 0.0108209013431 0.0605 Chr2 157769492

N00010 5600000 5800000 4.376635 scaffold\_24 11841976 12031217 0.00348254691503 0.000972676537215 0.00348679369964 0.000973592408232 0.407527166412 0.409401263359 0.07819 0.0443878440718 0.001715 0.00144788919949 0.05 Chr2 157769492

N00010 5800000 6000000 3.246928 scaffold\_24 11649638 11841976 0.00302303821719 0.000893439953174 0.003053424702 0.000906984243458 0.403132253733 0.403626162453 0.04215 0.0242541775416 0.018565 0.0193201551435 0.05 Chr2 157769492

N00010 6000000 6200000 4.74808 scaffold\_24 11464056 11649638 0.00380188504547 0.00112989830585 0.00380050999238 0.00112995399796 0.420681984487 0.420445728807 0.103285 0.0660839952151 0.00582 0.0064661443459 NA Chr2 157769492

N00010 6200000 6400000 4.74808 scaffold\_24 11267459 11464056 0.00454207866211 0.00121787685628 0.00465495465445 0.00126812004195 0.389122745915 0.38571596382 0.09182 0.0909830770561 0.04898 0.0513995635742 0.06925 Chr2 157769492

N00010 6600000 6800000 2.434247 scaffold\_24 10883536 11086858 0.00420503188692 0.00130239923784 0.00425630335759 0.00132567304771 0.416112290116 0.414264899054 0.07552 0.0723089483676 0.018455 0.0207700101317 0.0373333333333 Chr2 157769492

N00010 6800000 7000000 2.434247 scaffold\_24 10689139 10883536 0.00406591030161 0.00117581064774 0.00410102073241 0.00118776317164 0.411984770733 0.411592677726 0.0814 0.0374645699265 0.01359 0.0139199679007 0.095 Chr2 157769492

N00010 7000000 7200000 2.434247 scaffold\_24 10488831 10689139 0.00396497324534 0.00108905462854 0.00398871411092 0.00110624458934 0.419094217505 0.419530785448 0.05549 0.0529085208778 0.01959 0.0179573456876 0.078 Chr2 157769492

N00010 7200000 7400000 2.851215 scaffold\_24 10295646 10488831 0.00434090910607 0.00109780008846 0.00449019907994 0.00115344528663 0.384853454188 0.385091677615 0.07458 0.0614178119419 0.0503 0.0523487848435 0.053 Chr2 157769492

N00010 7400000 7600000 3.420253 scaffold\_24 10107783 10295646 0.00451644341052 0.000886533118127 0.00460257184656 0.00091226832047 0.381818181818 0.383615327196 0.080945 0.0558651783481 0.028375 0.0310226068997 0.04 Chr2 157769492

N00010 7600000 7800000 2.2584 scaffold\_24 9916566 10107783 0.00419613770953 0.00125319936453 0.00425903107888 0.00128595917353 0.40680538499 0.407389708156 0.084635 0.063268433246 0.025985 0.0294482185161 0.06325 Chr2 157769492

N00010 8000000 8200000 0.8254469 scaffold\_24 9547242 9740293 0.00453290676932 0.00122307637402 0.00453290676932 0.00122307637402 0.383212383451 0.383601340675 0.0855 0.0796421670957 0 0 NA Chr2 157769492

N00010 8200000 8400000 0.8254469 scaffold\_24 9346456 9547242 0.00490874204023 0.00114246886712 0.00490874204023 0.00114246886712 0.376418702722 0.376361010504 0.113375 0.113583616388 0 0 NA Chr2 157769492

N00010 8400000 8600000 0.8254469 scaffold\_24 9140193 9346456 0.00479859282125 0.00123435513652 0.00482619813372 0.00124661736302 0.38450625584 0.386464034673 0.083965 0.106630854782 0.01338 0.0131918957835 0.094 Chr2 157769492

N00010 8600000 8800000 1.75549 scaffold\_24 8951829 9140193 0.00441350899503 0.00123041171541 0.00465312558611 0.0013101127421 0.371082166585 0.372322259689 0.127225 0.0733792019707 0.06084 0.0661591386889 0.187 Chr2 157769492

N00010 8800000 9000000 0.9751623 scaffold\_24 8756839 8951016 0.00452201323758 0.000979790017902 0.00462114155446 0.0010038936361 0.400071083053 0.408756450995 0.075935 0.06300952224 0.03656 0.0306678957858 0.0865 Chr2 157769492

N00010 9000000 9200000 1.28863 scaffold\_24 8563539 8756839 0.00457580290127 0.00124597590304 0.00460569320514 0.0012614058174 0.388945187074 0.391551146221 0.09456 0.075421624418 0.014625 0.0158768753233 NA Chr2 157769492

N00010 9200000 9400000 2.593175 scaffold\_24 8360767 8563539 0.0048036420664 0.00148058571966 0.0048036420664 0.00148058571966 0.369680011082 0.368723170334 0.09486 0.109960941353 0 0 NA Chr2 157769492

N00010 9400000 9600000 3.230952 scaffold\_24 8160415 8360767 0.00532326061798 0.00164336856194 0.00536547780059 0.0016563307343 0.381922831203 0.38597816579 0.096625 0.112382207315 0.00774 0.00775634882607 NA Chr2 157769492

N00010 9600000 9800000 2.485809 scaffold\_24 7968049 8160415 0.00426074824745 0.00130317948106 0.00431843195039 0.00132212532482 0.407240000458 0.409892100235 0.07123 0.0599534221224 0.01731 0.0188390879885 0.05 Chr2 157769492

N00010 9800000 10000000 1.928571 scaffold\_24 7777413 7968049 0.00492318514462 0.00139121673631 0.00492919281788 0.00139381723219 0.38693639936 0.386921640112 0.09793 0.080173734237 0.0118 0.00857655427097 0.1075 Chr2 157769492

N00010 10000000 10200000 1.928571 scaffold\_24 7582860 7777413 0.0051910170315 0.00123034258023 0.0051910170315 0.00123060602884 0.373793701242 0.374821068293 0.112105 0.107271540403 0.000625 0.000673338370521 0.094 Chr2 157769492

N00010 10200000 10400000 1.097804 scaffold\_24 7389033 7582860 0.00464553396895 0.00133790617296 0.00478844638494 0.00140458502781 0.383418873207 0.383454806313 0.067875 0.0451485087217 0.05505 0.0569167350266 0.094 Chr2 157769492

N00010 10400000 10600000 1.080935 scaffold\_24 7196988 7389033 0.00452200431366 0.00114160251284 0.0045224844952 0.00114469879042 0.38414712112 0.387386647391 0.082335 0.0490093467677 0.00456 0.00535811919081 0.1155 Chr2 157769492

N00010 10600000 10800000 1.080935 scaffold\_24 7000000 7195729 0.00464506260433 0.00135823026936 0.00468551753697 0.00137377177789 0.370184925196 0.367915020668 0.06185 0.0529507635557 0.01031 0.0105962836371 0.083 Chr2 157769492

N00010 10800000 11000000 1.080935 scaffold\_24 6792155 7000000 0.00406115450415 0.00111593225206 0.00409885824386 0.00112576840758 0.381167386831 0.380600842445 0.07244 0.104419158508 0.01108 0.0108782987322 0.083 Chr2 157769492

N00010 11000000 11200000 1.080935 scaffold\_24 6601535 6792155 0.00427440359701 0.00136436622492 0.00432248107118 0.00139056896145 0.406586881052 0.405264549682 0.06533 0.0393085720281 0.027175 0.0317752596789 0.071 Chr2 157769492

N00010 11200000 11400000 8.503731 scaffold\_24 6403263 6601535 0.00445728612493 0.00134085443278 0.0045838291725 0.00139758721465 0.390101284924 0.391307368933 0.096255 0.0600185603615 0.040945 0.0413875887669 0.0525 Chr2 157769492

N00010 11400000 11600000 1.853747 scaffold\_24 6215860 6403263 0.00408422091443 0.0013711709874 0.00416863189792 0.00140282305931 0.398797643819 0.39708862984 0.12283 0.0734299877803 0.023455 0.0241991857121 0.091 Chr2 157769492

N00010 11600000 11800000 0.3034282 scaffold\_24 6021194 6215860 0.0040955885562 0.00111640934202 0.00412508532686 0.00112533434237 0.403056502404 0.40280100566 0.085675 0.0613871965315 0.011405 0.0112500385275 0.098 Chr2 157769492

N00010 11800000 12000000 0.3034282 scaffold\_24 5829403 6021194 0.0047358984486 0.00125625547324 0.00483303399915 0.00129258468479 0.401790093183 0.401400737999 0.0834 0.0735123128823 0.026535 0.0283485669296 0.0525 Chr2 157769492

N00010 12000000 12200000 0.3034282 scaffold\_24 5629273 5829403 0.00473633999185 0.0013888654872 0.00480341079123 0.00141141653409 0.381284661362 0.378179469907 0.08549 0.0733673112477 0.017285 0.0185979113576 0.061 Chr2 157769492

N00010 12200000 12400000 0.3034282 scaffold\_24 5429282 5629273 0.00462112821017 0.00135985604006 0.00462112821017 0.00135985604006 0.376586218318 0.373248465977 0.126455 0.103489657035 0 0 NA Chr2 157769492

N00010 12400000 12600000 0.3034282 scaffold\_24 5231725 5429282 0.00421401851502 0.00127529599653 0.00422016520629 0.00127809181946 0.379866160128 0.377376071562 0.055855 0.056085079243 0.002425 0.00245498767444 0.029 Chr2 157769492

N00010 12600000 12800000 0.4277174 scaffold\_24 5035814 5231725 0.00400722382846 0.0012460261852 0.0041348690165 0.00129584647134 0.408091990186 0.411061242715 0.08396 0.0450714865424 0.037965 0.042131375982 0.0495 Chr2 157769492

N00010 12800000 13000000 1.981584 scaffold\_24 4845819 5035814 0.00381112164942 0.00110450229864 0.00389751151161 0.00113018336937 0.387546537924 0.385220897712 0.063975 0.0359062080581 0.029565 0.03148503908 0.062 Chr2 157769492

N00010 13000000 13200000 0 scaffold\_24 4654604 4845819 0.00383564959749 0.00105311746939 0.00387551903391 0.00109468914662 0.375762244424 0.375301923828 0.08892 0.0518787752007 0.027165 0.046094710143 0.044 Chr2 157769492

N00010 13200000 13400000 0.54371 scaffold\_24 4467546 4654604 0.00314980453122 0.000935759778812 0.00315267575218 0.000937037739429 0.407422859245 0.409939365746 0.052995 0.0198227287793 0.001125 0.00179623432304 0.147 Chr2 157769492

N00010 13400000 13600000 1.517857 scaffold\_24 4275938 4467546 0.00443631902108 0.00158319306379 0.00450357665385 0.00161508817093 0.385621767031 0.38704888811 0.121565 0.0859619640099 0.02288 0.0242056699094 0.086 Chr2 157769492

N00010 13600000 13800000 1.517857 scaffold\_24 4076061 4275938 0.00454924881473 0.00111823299653 0.00454924881473 0.00111823299653 0.368287103231 0.368499273851 0.115175 0.12291559309 0 0 NA Chr2 157769492

N00010 13800000 14000000 1.436297 scaffold\_24 3873289 4076061 0.00448407869253 0.00127172542246 0.00448407869253 0.00127172542246 0.364697538687 0.363577105609 0.1255 0.142983252126 0 0 NA Chr2 157769492

N00010 14200000 14400000 1.288435 scaffold\_24 3467755 3675556 0.00357964435856 0.00116798460946 0.00358398517934 0.00116823988377 0.360713636177 0.360056332455 0.13829 0.139522908937 0.002525 0.00243020967175 0.084 Chr2 157769492

N00010 14800000 15000000 0.1791082 scaffold\_24 2882466 3076352 0.00406822582711 0.00139305659942 0.00406822582711 0.00139305659942 0.346110589894 0.343820440538 0.114895 0.1138916683 0 0 0.105 Chr2 157769492

N00095 0 200000 0.8653143 scaffold\_38 4479209 4687157 0.00281158108928 0.00177084579065 0.00281158108928 0.00177084579065 0.353347605534 0.348550107101 0.131525 0.117231230885 0 0 NA Chr2 157769492

N00095 200000 400000 0.8653143 scaffold\_38 4282991 4479209 0.0023894323655 0.0011724138544 0.00241418597273 0.00118810536907 0.380284861791 0.376939261392 0.083565 0.0650042299891 0.01283 0.0144380230152 0.034 Chr2 157769492

N00095 400000 600000 0.8653143 scaffold\_38 4082920 4282991 0.0034560569739 0.00120802836132 0.00347567128712 0.00121745632492 0.365743432528 0.361535394349 0.052485 0.0456937787086 0.00703 0.0086919143704 0.035 Chr2 157769492

N00095 600000 800000 0.8653143 scaffold\_38 3884423 4082920 0.00393060686821 0.00126247488321 0.00401397376512 0.00129020552333 0.369220144141 0.366552487967 0.07539 0.0579101951163 0.02397 0.026176718036 0.046 Chr2 157769492

N00095 800000 1000000 0.8653143 scaffold\_38 3684474 3884423 0.00473803636748 0.00124698277561 0.00475386318124 0.00125447003272 0.38245484133 0.383352050971 0.09003 0.0829411499932 0.010615 0.0106527164427 0.08 Chr2 157769492

N00095 1000000 1200000 0.8653143 scaffold\_38 3492623 3684474 0.00402271872157 0.000969409884916 0.00409687636824 0.00098871869324 0.384900923838 0.382969510892 0.08846 0.0759599897837 0.02235 0.0226582087141 0.0306666666667 Chr2 157769492

N00095 1200000 1400000 0.8653143 scaffold\_38 3293344 3492623 0.00496501096683 0.000917565892577 0.0049766763326 0.00093473819791 0.379204040756 0.379095467331 0.084945 0.0747444537558 0.006285 0.0313881542962 0.16 Chr2 157769492

N00095 1400000 1600000 0.8653143 scaffold\_38 3094641 3293344 0.00435758477728 0.000812150810732 0.0043420304295 0.000812488972821 0.365180336314 0.366377761811 0.101805 0.0802202281797 0.007125 0.021529619583 0.16 Chr2 157769492

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N00095 1800000 2000000 0.8653143 scaffold\_38 2704080 2897814 0.00442434825197 0.000600188123174 0.00452016781365 0.000617780657765 0.39704492224 0.392636598587 0.097215 0.101185130127 0.028255 0.0349086892337 0.0843333333333 Chr2 157769492

N00095 2000000 2200000 0.8653143 scaffold\_38 2498909 2704080 0.00383699796072 0.000460934031716 0.00390844270697 0.000471347327853 0.392036115423 0.393029539625 0.09105 0.0648288500812 0.03363 0.034654020305 0.0985 Chr2 157769492

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N00070 2400000 2600000 0 scaffold\_5 35486038 35679385 0.00466763628331 0.000918919313109 0.00466763628331 0.000918919313109 0.37961794969 0.380362338732 0.082235 0.0856698060999 0 0 NA Chr2 157769492

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N00045 400000 600000 1.814662 scaffold\_5 32604870 32803589 0.00405480097865 0.00108170187679 0.00408847351402 0.00108969615181 0.385042984726 0.386788222986 0.086455 0.0776674600818 0.009795 0.0095562075091 0.043 Chr2 157769492

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N00045 2400000 2600000 1.454452 scaffold\_5 30620940 30811051 0.00401417661548 0.00107977311484 0.00402027620052 0.00108338455778 0.357695051636 0.358660542472 0.117775 0.0902367564212 0.00314 0.00332437365539 0.076 Chr2 157769492

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N00045 2800000 3000000 1.454452 scaffold\_5 30248334 30432307 0.00304757916993 0.00103726665538 0.00304884769845 0.00103726665538 0.362744292505 0.364625687635 0.119735 0.0599055296158 0.00568 0 NA Chr2 157769492

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N00045 3600000 3800000 1.805139 scaffold\_5 29461986 29659724 0.00355063463046 0.000968959235554 0.00355063463046 0.000968959235554 0.374264684491 0.375127206572 0.120225 0.113513841548 0 0 NA Chr2 157769492

N00045 3800000 4000000 2.481935 scaffold\_5 29262128 29461986 0.00434350058985 0.00112525763121 0.00435839069162 0.00112884802139 0.367263320446 0.375809318965 0.08015 0.0970439011698 0.00402 0.00462828608312 NA Chr2 157769492

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N00045 4800000 5000000 1.034005 scaffold\_5 28282595 28476341 0.00401139317163 0.00131488365474 0.00403117408121 0.00132625318181 0.411568502564 0.408588075398 0.0866 0.0512939621979 0.005385 0.00775241811444 0.046 Chr2 157769492

N00045 5000000 5200000 1.034005 scaffold\_5 28084456 28282595 0.00459100663046 0.00116805275276 0.00464920316829 0.00118660095571 0.39609616049 0.395895756393 0.12028 0.112522017372 0.018555 0.0186687123686 0.0596 Chr2 157769492

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N00024 400000 600000 0.9115578 scaffold\_5 26325216 26523185 0.00444462673497 0.00136248180423 0.004543904561 0.00139716702008 0.365187060739 0.364320630571 0.087765 0.0853517469907 0.0235 0.0241856048169 0.044 Chr2 157769492

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N00024 7000000 7200000 2.0864 scaffold\_5 19872553 20064929 0.00349806551623 0.00107097009818 0.00367685807891 0.00113514632802 0.405116425931 0.408509834255 0.09579 0.0681685865181 0.057415 0.0657306524722 0.0715 Chr2 157769492

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N00014 5000000 5200000 0 scaffold\_5 11649948 11841345 0.00410411432257 0.000713359788437 0.00413546362929 0.000719279396416 0.410199048104 0.419129423638 0.06266 0.0522996703188 0.008295 0.00868352168529 NA Chr2 157769492

N00014 5200000 5400000 1.677503 scaffold\_5 11461642 11649948 0.00449300404025 0.000816508447292 0.00449300404025 0.000816508447292 0.394013759173 0.401020443302 0.128735 0.0975433602753 0 0 NA Chr2 157769492

N00014 5400000 5600000 2.232967 scaffold\_5 11266745 11461642 0.00442630704927 0.000932397086502 0.00442630704927 0.000932397086502 0.411608533999 0.417508193449 0.098365 0.0760760812121 0 0 NA Chr2 157769492

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N00014 7600000 7800000 1.455707 scaffold\_5 9078012 9266704 0.00361572311017 0.000806960397532 0.00362944460608 0.000805461108623 0.455446246566 0.459212244595 0.116685 0.0734636338584 0.006535 0.0030207957942 0.032 Chr2 157769492

N00014 7800000 8000000 3.661765 scaffold\_5 8883063 9078012 0.00360059130597 0.000931760975911 0.00360059130597 0.000931760975911 0.410752819398 0.416415732105 0.078435 0.0685153552981 0 0 NA Chr2 157769492

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N00014 9600000 9800000 1.445992 scaffold\_5 7119755 7320166 0.00377883145181 0.000729529341552 0.00385787756253 0.000749800328959 0.391415530458 0.389527414346 0.105635 0.103452405307 0.02719 0.0249187918827 0.068 Chr2 157769492

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N00014 10600000 10800000 1.12554 scaffold\_5 6157744 6351528 0.00395004923365 0.00108094569315 0.00400378476557 0.00109436951121 0.385934428004 0.387729018229 0.1168 0.113002105437 0.018475 0.019769434009 0.087 Chr2 157769492

N00014 11200000 11400000 3.292754 scaffold\_5 5574254 5769877 0.00414678924284 0.00109478976975 0.00415052233703 0.00109745359013 0.377037011059 0.377854604163 0.12017 0.119852982523 0.002115 0.00275018786135 0.103 Chr2 157769492

N00014 13200000 13400000 2.235687 scaffold\_5 3592858 3790933 0.00349765938265 0.000976599181264 0.00350243046874 0.000975868384634 0.423683490319 0.426337210621 0.11444 0.0922630316799 0.00342 0.00346838318819 0.037 Chr2 157769492

N00014 13400000 13600000 1.173804 scaffold\_5 3396282 3592858 0.00378436747824 0.0010107229793 0.00378436747824 0.00101186529536 0.384334862512 0.384950423177 0.08671 0.0688029057464 0 0.00124633729448 NA Chr2 157769492

N00014 13800000 14000000 2.194954 scaffold\_5 3015102 3205639 0.00427127856922 0.000985525033071 0.00437798901642 0.00101109361413 0.399149983879 0.396897988225 0.081595 0.069723990616 0.03122 0.0310648325522 0.101 Chr2 157769492

N00359 0 200000 2.539762 scaffold\_5 2539308 2725750 0.00372361119261 0.00100018668794 0.00372833124419 0.00100102965007 0.478040581393 0.478589008342 0.13362 0.0990978427608 0.007885 0.00872121088596 0.0795 Chr2 157769492

N00074 0 200000 3.093588 scaffold\_43 4048201 4243618 0.00391006872117 0.00105609340925 0.00392687959866 0.00106290399599 0.425495427844 0.421377659714 0.040285 0.0289227651637 0.009185 0.00973814970038 0.0945 Chr3 116185509

N00074 200000 400000 7.622689 scaffold\_43 4243618 4440921 0.00556693017724 0.00148086147626 0.00556910913597 0.00148086147626 0.416664050482 0.417102975924 0.03642 0.0231927542916 0.00164 0.000648748371794 0.0515 Chr3 116185509

N00074 600000 800000 5.686053 scaffold\_43 3826685 4022461 0.00349990139808 0.00127192248305 0.00349990139808 0.00127192248305 0.452276566965 0.44902711573 0.040215 0.0293600849951 0 0 NA Chr3 116185509

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N00074 1400000 1600000 2.636126 scaffold\_43 3062078 3248097 0.00341183381015 0.00122979973492 0.00346236854307 0.00125727410458 0.435666668621 0.442692479288 0.09484 0.0222719184599 0.019715 0.0257231788151 0.07225 Chr3 116185509

N00074 1600000 1800000 2.594542 scaffold\_43 2862751 3062078 0.00299064898715 0.00102003121704 0.00299064898715 0.00102008255498 0.449515583051 0.458528021607 0.06454 0.0390764923969 0.01046 0.0100638649054 0.028 Chr3 116185509

N00074 1800000 2000000 2.571332 scaffold\_43 2671008 2862751 0.00281026181086 0.00109931770767 0.00281026181086 0.00109931770767 0.448758153872 0.453440286717 0.05691 0.0237140338891 0 0 NA Chr3 116185509

N00074 2000000 2200000 2.571332 scaffold\_43 2479898 2671008 0.00305442740664 0.00110238065045 0.00305442740664 0.00110238065045 0.42945365885 0.432426453159 0.050775 0.0213698916854 0 0 NA Chr3 116185509

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N00227 200000 400000 5.033012 scaffold\_81 1100365 1294833 0.00357348681122 0.0010726938157 0.00359680161709 0.0010883551519 0.483565007904 0.485544951006 0.101475 0.073580229138 0.025815 0.0272075611412 0.103 Chr3 116185509

N00227 400000 600000 4.033835 scaffold\_81 1294833 1484745 0.00393915232206 0.00107473967644 0.00413784925098 0.0011374991533 0.442390150841 0.444971245705 0.08 0.0403502674923 0.06675 0.0756666245419 0.068375 Chr3 116185509

N00092 0 200000 3.143885 scaffold\_81 730513 924341 0.0040718057606 0.00125126009329 0.00419618810026 0.0013051887772 0.415327664989 0.413925413738 0.07199 0.0374300926595 0.046225 0.0503590812473 0.0915 Chr3 116185509

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N00092 600000 800000 1.05253 scaffold\_81 153489 343269 0.00342022999408 0.00106938684183 0.00345624095292 0.00108701427796 0.399975934404 0.398586023562 0.108195 0.0511434292338 0.015935 0.0170355148066 0.1005 Chr3 116185509

N00092 1000000 1200000 2.386795 scaffold\_80 2089961 2278209 0.0034273477462 0.00106038143079 0.00347573906322 0.00107519344314 0.433877434135 0.432564175263 0.06339 0.0283987080872 0.01862 0.0202551952743 0.0495 Chr3 116185509

N00092 1200000 1400000 2.42029 scaffold\_80 1890785 2089961 0.00340960384995 0.00108273520028 0.00345894782991 0.00110532365931 0.434205025524 0.431545792718 0.051485 0.0368568502229 0.02779 0.0317859581476 0.055 Chr3 116185509

N00092 1400000 1600000 1.415772 scaffold\_80 1699035 1890785 0.00335955513149 0.000981868562154 0.00335972049436 0.000981872532458 0.421572110581 0.415047599213 0.08352 0.0505606258149 8,00E-05 8.86571056063e-05 0.019 Chr3 116185509

N00092 1600000 1800000 1.14115 scaffold\_80 1509141 1699035 0.00306130611833 0.000908686399051 0.00306130611833 0.000908686399051 0.409584166731 0.404248959228 0.078775 0.046831390144 0 0 NA Chr3 116185509

N00092 1800000 2000000 0.8645455 scaffold\_80 1321570 1509141 0.00252108622052 0.000784088001487 0.00253084329247 0.000786739744802 0.425301024001 0.42488119428 0.08561 0.0324623742476 0.00585 0.00556589238208 NA Chr3 116185509

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N00092 2200000 2400000 0.8886463 scaffold\_80 943768 1131157 0.00172059815012 0.000955079757333 0.0017332851597 0.00095895960893 0.389904502046 0.382548166276 0.120565 0.0591123278314 0.01285 0.010694331044 0.103 Chr3 116185509

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N00092 2600000 2800000 0.02215012 scaffold\_80 557076 753710 0.00177354359242 0.00102593697447 0.00178535171624 0.0010403517327 0.389640238462 0.386704961265 0.13593 0.093590121749 0.0124 0.0124952958288 0.0785 Chr3 116185509

N00236 200000 400000 0.2885067 scaffold\_18 5110642 5308518 0.000999410224367 0.00126339922196 0.00103662424742 0.00132726752298 0.447727731189 0.440936791799 0.0932 0.0436839232651 0.05521 0.0569447532798 0.0783333333333 Chr3 116185509

N00236 400000 600000 0.4426705 scaffold\_18 4915764 5110642 0.00207427220853 0.00152938036433 0.00207427220853 0.00152938036433 0.394386631979 0.384983877865 0.134675 0.0722708566385 0 0 NA Chr3 116185509

N00011 0 200000 0.4426705 scaffold\_18 4180317 4368224 0.0029613426588 0.00127462769298 0.00296242045156 0.00127487804549 0.36745088109 0.362874972319 0.083395 0.0594762302628 3,00E-04 0.000149009882548 0.05 Chr3 116185509

N00011 200000 400000 1.639858 scaffold\_18 3992267 4180317 0.00309688372928 0.00175685578675 0.00311472103597 0.00177214449993 0.364821199601 0.359552651771 0.13173 0.0571443764956 0.00771 0.0083116192502 0.05 Chr3 116185509

N00011 400000 600000 3.457085 scaffold\_18 3800880 3992267 0.00291082236835 0.00123709234468 0.00292393037493 0.00124291998564 0.377378116297 0.372825668919 0.083935 0.0515238757073 0.005995 0.00612371791187 0.05 Chr3 116185509

N00011 600000 800000 2.085546 scaffold\_18 3608528 3800880 0.00323058521211 0.00138465594151 0.0032408734442 0.00138904407676 0.388994153751 0.384183005843 0.051305 0.0293732324073 0.00487 0.00461653635002 0.05 Chr3 116185509

N00011 800000 1000000 2.085546 scaffold\_18 3414287 3608528 0.00342841573295 0.0013546512999 0.00342841573295 0.0013546512999 0.411463306317 0.406646840471 0.07847 0.0556473659011 0 0 NA Chr3 116185509

N00011 1000000 1200000 2.085546 scaffold\_18 3224818 3414287 0.00336868639883 0.00125114246618 0.00337134128045 0.00125920658539 0.41310685982 0.408997068653 0.11387 0.0606959449831 0.00933 0.0109886049961 0.105 Chr3 116185509

N00011 1200000 1400000 2.085546 scaffold\_18 3039154 3224818 0.00361932876764 0.0012918761078 0.00372414881176 0.00133463566775 0.415764183177 0.416460754525 0.10832 0.0453830575664 0.04581 0.0502035935884 0.085 Chr3 116185509

N00011 1400000 1600000 4.024911 scaffold\_18 2837174 3039154 0.00330791346653 0.00109200480078 0.00335953165011 0.00111857676252 0.409621198843 0.407778954999 0.077105 0.0538469155362 0.02615 0.0312803247846 0.0625 Chr3 116185509

N00011 1600000 1800000 5.099726 scaffold\_18 2644535 2837174 0.00400529296864 0.00112530894847 0.00408171735587 0.00114953061043 0.412288523223 0.410105001953 0.096025 0.0446534710002 0.03745 0.031847133758 0.092 Chr3 116185509

N00011 2000000 2200000 1.671345 scaffold\_18 2260088 2452899 0.00382505693442 0.00108461296677 0.00382846345547 0.00108807750512 0.399867212571 0.397120964102 0.079735 0.0581605821245 8,00E-04 0.00347490547738 0.067 Chr3 116185509

N00011 2400000 2600000 5.709472 scaffold\_18 1889214 2078454 0.00386711900176 0.00116955127336 0.00388215058917 0.00117346529788 0.435719814241 0.434845792752 0.081745 0.0331642358909 0.00492 0.00503064891144 0.1175 Chr3 116185509

N00011 2600000 2800000 4.925581 scaffold\_18 1702244 1889214 0.00372643608864 0.0011116315682 0.00375914828764 0.00112199995343 0.461344338394 0.45784092193 0.09417 0.0497192062898 0.02074 0.0206824624271 0.128666666667 Chr3 116185509

N00011 2800000 3000000 2.418192 scaffold\_18 1509235 1702244 0.00399564031428 0.00117065635097 0.00410293357261 0.00120981915277 0.46188663259 0.456215089894 0.04348 0.0246620623909 0.03988 0.0408996471667 0.078 Chr3 116185509

N00011 3000000 3200000 1.56802 scaffold\_18 1314033 1509235 0.00438597687194 0.00128196257952 0.00442604449719 0.00129802204873 0.388977137807 0.383066184637 0.06917 0.0338008831877 0.012295 0.0121873751294 0.0595 Chr3 116185509

N00011 3200000 3400000 1.007772 scaffold\_18 1119100 1314033 0.00381656585474 0.00112750560182 0.00389639768216 0.00116137324394 0.435121034708 0.429422510409 0.05386 0.0320109986508 0.034695 0.0353865174188 0.0515 Chr3 116185509

N00011 3600000 3800000 2.987013 scaffold\_18 739535 935759 0.00379951374402 0.00123313197587 0.00390893012106 0.00127055568006 0.426192424597 0.420982478392 0.108745 0.053836431833 0.04114 0.0406830968689 0.0776 Chr3 116185509

N00011 3800000 4000000 3.67809 scaffold\_18 543922 739535 0.00353974533245 0.00122710190574 0.00358605356443 0.00124273700896 0.409100211852 0.407076122433 0.08885 0.0383870192676 0.020015 0.0208575094702 0.101666666667 Chr3 116185509

N00011 4000000 4200000 4.047368 scaffold\_18 343512 543922 0.00395606395099 0.00108052368838 0.00402942867193 0.00109774124019 0.392351166817 0.392160922113 0.08211 0.0468489596328 0.02295 0.0198193702909 0.069 Chr3 116185509

N00011 4600000 4800000 8.7976 scaffold\_18 5682885 5879436 0.00392479929297 0.00114287962207 0.00400733313409 0.00118944897135 0.404305148958 0.404495210858 0.07939 0.0382140004375 0.03986 0.0618211049549 0.0763333333333 Chr3 116185509

N00011 4800000 5000000 3.390916 scaffold\_18 5879436 6077107 0.0041114740159 0.00115622405418 0.0041114740159 0.00115628685992 0.429464540329 0.430491250951 0.079855 0.0568115707413 0 0.00269134066201 NA Chr3 116185509

N00011 5000000 5200000 2.452647 scaffold\_18 6077107 6270239 0.0041639051183 0.00131518691125 0.00417160571953 0.00132007886419 0.448277191301 0.452724812533 0.06542 0.0427634985399 0.00721 0.00748710726343 0.084 Chr3 116185509

N00011 5200000 5400000 5.606156 scaffold\_18 6270239 6464568 0.00375949549716 0.00105809905418 0.00375984070809 0.00105906369561 0.432980041294 0.438642804038 0.069235 0.0291207179577 0.00262 0.00242372471427 0.044 Chr3 116185509

N00011 5600000 5800000 3.594771 scaffold\_18 6638985 6829587 0.00386000882986 0.00131441446809 0.00402835985604 0.00135738037614 0.393174157475 0.394879681013 0.107435 0.0576489228864 0.07047 0.0722605219253 0.792 Chr3 116185509

N00011 5800000 6000000 4.866835 scaffold\_18 6829587 7021232 0.0040655850173 0.00110395594141 0.00407104780936 0.00110633443757 0.399866831127 0.398573275243 0.058295 0.0419160426831 0.001765 0.00185760129406 0.048 Chr3 116185509

N00011 6000000 6200000 5.56519 scaffold\_18 7021232 7214241 0.00400470807486 0.00101030837077 0.00401072862431 0.00101160496998 0.399370337114 0.396142919287 0.06628 0.0561061919392 0.00177 0.00183929246823 0.048 Chr3 116185509

N00011 6200000 6400000 3.846821 scaffold\_18 7214241 7408553 0.00395476768916 0.00121459627262 0.00397501195904 0.00122452591864 0.411217007992 0.417108987024 0.05412 0.0459621639425 0.00979 0.0101743587632 0.0935 Chr3 116185509

N00011 6400000 6600000 3.209302 scaffold\_18 7408553 7595406 0.00404767044618 0.00108493150519 0.0040474534957 0.00108631718792 0.385770002229 0.38559728152 0.08071 0.0367561666123 0.001085 0.00117739613493 0.157 Chr3 116185509

N00011 6600000 6800000 1.900556 scaffold\_18 7595406 7787484 0.00430971223687 0.00118604271768 0.00435183255988 0.00119798008406 0.358561571066 0.356270655393 0.056295 0.0440810504066 0.011985 0.0127083788877 0.1075 Chr3 116185509

N00011 6800000 7000000 4.047457 scaffold\_18 7787484 7975512 0.00353086611159 0.0010548504851 0.00353086611159 0.0010548504851 0.404787123747 0.407900252593 0.069635 0.0307773310358 0 0 NA Chr3 116185509

N00011 7000000 7200000 3.842352 scaffold\_18 7975512 8169449 0.00342767508507 0.0010440385314 0.00343088391327 0.00104565099673 0.396963548813 0.397088878142 0.036145 0.0182172561193 0.00236 0.00232549745536 0.045 Chr3 116185509

N00011 7200000 7400000 1.820221 scaffold\_18 8169449 8357397 0.00383463667138 0.00109397493375 0.00386587734395 0.00110769128263 0.383558683365 0.383442715865 0.034835 0.0242886330262 0.01227 0.0132696277694 0.045 Chr3 116185509

N00011 7400000 7600000 4.254237 scaffold\_18 8357397 8548078 0.00424457607997 0.00114406036605 0.00432461829602 0.00116910759839 0.359861820764 0.355557697542 0.0843 0.0963441559463 0.02881 0.0301236095888 NA Chr3 116185509

N00011 7600000 7800000 3.906857 scaffold\_18 8548078 8752918 0.00406825586979 0.000988470780561 0.00416397429422 0.00102412012047 0.383375595844 0.380984008871 0.05943 0.0796133567663 0.05225 0.0521187268112 0.042 Chr3 116185509

N00011 7800000 8000000 2.768978 scaffold\_18 8752918 8943866 0.00437983496152 0.00116723667931 0.00440224719219 0.00117355128811 0.386820942432 0.388402290419 0.07444 0.0492909064248 0.006325 0.00664578838218 0.032 Chr3 116185509

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N00011 8400000 8600000 1.292568 scaffold\_18 9323113 9508202 0.00355805378597 0.00105041129837 0.00355805378597 0.00105041129837 0.41996027973 0.426929526547 0.08155 0.0396890144741 0 0 NA Chr3 116185509

N00011 8600000 8800000 1.153536 scaffold\_18 9508202 9702801 0.00357529012257 0.000901947478724 0.00361639349459 0.000909536478226 0.407093154971 0.410149817789 0.06004 0.0337411805816 0.01381 0.013581775857 0.058 Chr3 116185509

N00011 8800000 9000000 4.458861 scaffold\_18 9702801 9897234 0.00409411364848 0.00112274078354 0.00418753612436 0.00114922052599 0.42457848492 0.430281011089 0.09847 0.0713253408629 0.030935 0.028714261468 0.063875 Chr3 116185509

N00011 9000000 9200000 5.134348 scaffold\_18 9897234 10086340 0.00450022067477 0.0010910676482 0.00458093828252 0.00111446557163 0.402906142043 0.404339359607 0.07156 0.0174505303904 0.02462 0.0245840956924 0.0504 Chr3 116185509

N00011 9200000 9400000 2.090615 scaffold\_18 10086340 10285813 0.00415422923073 0.00131261952322 0.00424804724302 0.00134730896063 0.410955022505 0.411012493394 0.04485 0.0357642387692 0.034915 0.0312272838931 0.074 Chr3 116185509

N00011 9400000 9600000 2.090615 scaffold\_18 10285813 10472792 0.0036888257023 0.000977889633847 0.00374633702653 0.000996787801799 0.415464130659 0.414847487609 0.10312 0.0409939084068 0.02671 0.0298215307601 0.104 Chr3 116185509

N00011 9600000 9800000 2.090615 scaffold\_18 10472792 10669541 0.00424805642588 0.000992941150326 0.00425982555937 0.000996489982197 0.404184027589 0.399423153499 0.061445 0.0555377663927 0.009735 0.00985011359651 0.099 Chr3 116185509

N00011 9800000 10000000 2.948249 scaffold\_18 10669541 10863086 0.00419834227239 0.00101232769126 0.00425293331224 0.00102756213404 0.400470328617 0.397443094967 0.084355 0.049647368829 0.01632 0.0172414683924 0.071 Chr3 116185509

N00011 10000000 10200000 2.974638 scaffold\_18 10863086 11061722 0.0041298551671 0.00103733583206 0.00420359258434 0.00106296888557 0.400018781002 0.398256427342 0.06675 0.0435570591434 0.032805 0.0395446948187 0.08625 Chr3 116185509

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N00011 10600000 10800000 2.798611 scaffold\_18 11448409 11640107 0.00380768148401 0.00128695091273 0.00382207038163 0.00129319915327 0.401781935386 0.402915002822 0.04772 0.0265104487266 0.004405 0.00439754196705 0.077 Chr3 116185509

N00011 10800000 11000000 1.484475 scaffold\_18 11640107 11826226 0.00439411032194 0.00118900593529 0.00440551937427 0.00119421593983 0.397519433331 0.397250692707 0.06728 0.0207125548708 0.003395 0.00376103460689 0.054 Chr3 116185509

N00011 11000000 11200000 4.374365 scaffold\_18 11826226 12022057 0.00495463807934 0.00112660873478 0.00500195168505 0.00113685310502 0.39403300589 0.3927412577 0.048695 0.0486593031747 0.011315 0.0115916274747 0.054 Chr3 116185509

N00011 11200000 11400000 2.824194 scaffold\_18 12022057 12215044 0.00476112556768 0.00115566433437 0.00482409288822 0.00117255408161 0.372959795515 0.374048582116 0.06152 0.0454227486826 0.01793 0.0155761787063 0.0603333333333 Chr3 116185509

N00011 11400000 11600000 2.841155 scaffold\_18 12215044 12412518 0.00464419309612 0.00130545306688 0.00464713150408 0.00131236129896 0.387301166783 0.387339649535 0.04763 0.0632133850532 0.004325 0.00444109097907 0.095 Chr3 116185509

N00011 11600000 11800000 3.03856 scaffold\_18 12412518 12609311 0.0044353177571 0.00137855995218 0.0044353177571 0.00137855995218 0.374974236589 0.375506726362 0.05521 0.062354860183 0 0 NA Chr3 116185509

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N00011 12600000 12800000 3.631908 scaffold\_18 13375467 13561057 0.00376571205308 0.000894654382142 0.00395418164291 0.000948801568242 0.365765236723 0.373508393447 0.044265 0.0216660380408 0.064865 0.07186270812 0.077 Chr3 116185509

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N00011 13000000 13200000 2.270391 scaffold\_18 15333955 15524140 0.00387216392825 0.00108448259159 0.00389737092024 0.00108863300915 0.427308315335 0.426258552943 0.073895 0.0518021926019 0.00609 0.00732444724873 0.0325 Chr3 116185509

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N00018 6400000 6600000 0.5507042 scaffold\_14 11195275 11393779 0.00454241570686 0.00124196608609 0.00454241570686 0.00124196608609 0.380362275611 0.380004754855 0.07463 0.0711018417765 0 0 NA Chr3 116185509

N00018 6600000 6800000 0.5507042 scaffold\_14 10989673 11195275 0.00479089458401 0.00126108487258 0.00479089458401 0.00126108487258 0.377862113917 0.380293586221 0.056645 0.0729662162819 0 0 NA Chr3 116185509

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N00001 0 200000 2.224919 scaffold\_1 23108417 23296483 0.0046119624361 0.0010418523368 0.00469617557696 0.00106536325994 0.402952554064 0.404292372249 0.06515 0.0435538587517 0.02607 0.0277243095509 0.1085 Chr3 116185509

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N00001 9600000 9800000 0.6757136 scaffold\_1 13793474 13991330 0.00413322198854 0.00112830210043 0.00415050732674 0.00114338667002 0.393874267196 0.392613403767 0.09 0.0688783761928 0.01716 0.018700469028 0.063 Chr3 116185509

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N00001 10000000 10200000 2.144198 scaffold\_1 13400870 13597028 0.00403026313312 0.00120724452354 0.00403921380944 0.00121194433674 0.393921173514 0.395427112349 0.047655 0.0444947440329 0.004465 0.00456774640851 NA Chr3 116185509

N00001 10400000 10600000 6.042357 scaffold\_1 13030618 13227453 0.0043585232931 0.00106444259786 0.0043585232931 0.00106444259786 0.396971834808 0.399786672355 0.06209 0.060471968908 0 0 NA Chr3 116185509

N00001 10600000 10800000 2.675472 scaffold\_1 12836370 13030618 0.00399099668732 0.00123648909071 0.0040242184176 0.00124509869338 0.381546637047 0.386352946265 0.06529 0.0320724022899 0.00945 0.0103578930028 0.034 Chr3 116185509

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N00001 11200000 11400000 2.850267 scaffold\_1 12270974 12462179 0.00453154356872 0.00132740878272 0.00457086130509 0.00134485259343 0.39951789968 0.400576179109 0.073605 0.0631782641667 0.01487 0.0161397452995 0.066 Chr3 116185509

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N00001 12200000 12400000 2.33998 scaffold\_1 11284703 11480047 0.00410500964687 0.00106524872761 0.0041914223452 0.00109361668587 0.395097415737 0.393529508878 0.08145 0.0659247276599 0.03082 0.0306894504054 0.0722 Chr3 116185509

N00001 12400000 12600000 1.118572 scaffold\_1 11086155 11284591 0.00429470349627 0.00122148729062 0.00429822729054 0.00122647485897 0.40180878553 0.403975188069 0.04799 0.0283164345179 0.00472 0.00525106331512 0.0555 Chr3 116185509

N00001 12600000 12800000 0.5988235 scaffold\_1 10902053 11086155 0.00445543927287 0.00102326853928 0.00455803651236 0.00105913342758 0.394105341621 0.394448733829 0.057775 0.0551705033079 0.036385 0.0400484514019 0.104 Chr3 116185509

N00001 12800000 13000000 0.5988235 scaffold\_1 10702604 10902053 0.00407421562008 0.00103259230044 0.00420722538362 0.00108540995771 0.403739012009 0.404047929119 0.05871 0.0248735265657 0.061515 0.0603161710512 0.0703333333333 Chr3 116185509

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N00001 13200000 13400000 0.5988235 scaffold\_1 10309680 10503971 0.00424925448408 0.00109656326237 0.00454309101247 0.00120061891528 0.365137073794 0.363776468226 0.05762 0.0445826106202 0.09579 0.117334307817 NA Chr3 116185509

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N00001 13800000 14000000 0.5988235 scaffold\_1 9707002 9906954 0.00480927462131 0.00135208199539 0.00480927462131 0.00135208199539 0.364228426368 0.36408407352 0.090245 0.0976934464271 0 0 NA Chr3 116185509

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N00001 15000000 15200000 1.078962 scaffold\_1 8509119 8704852 0.00351700871022 0.000910360406282 0.00351700871022 0.000910360406282 0.407317484771 0.40791262239 0.058035 0.0614408403284 0 0 NA Chr3 116185509

N00001 15200000 15400000 1.078962 scaffold\_1 8323213 8509119 0.00316593046171 0.000888501726829 0.00316997685347 0.000889780394835 0.395641235766 0.395784968478 0.07808 0.0318063967812 0.00291 0.00238830376642 0.026 Chr3 116185509

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N00001 16000000 16200000 5.543408 scaffold\_1 7535717 7736544 0.00391360670464 0.000896574612036 0.00399800528931 0.000917045217163 0.382637217501 0.381825512103 0.05782 0.0529361091885 0.02966 0.0295976138667 0.0536666666667 Chr3 116185509

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N00001 16800000 17000000 0.7210973 scaffold\_1 6752787 6945679 0.00368617253005 0.000925014283453 0.00369081164658 0.000926259480666 0.398563121995 0.39974668957 0.075435 0.0489496713187 0.002425 0.001897434834 0.023 Chr3 116185509

N00001 17000000 17200000 0.7210973 scaffold\_1 6556805 6752787 0.00395363542409 0.000972807642052 0.00409661425864 0.00101909009992 0.398271945389 0.400469379772 0.067985 0.043555020359 0.05 0.0524282842302 0.0835 Chr3 116185509

N00001 17600000 17800000 0.9037675 scaffold\_1 5986511 6182546 0.00471318477539 0.00138390819309 0.00471318477539 0.00138390819309 0.356965525024 0.360453106406 0.10911 0.0945341393119 0 0 NA Chr3 116185509

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N00108 2600000 2800000 2.224919 scaffold\_1 23438645 23636283 0.00449162499837 0.00105000897667 0.00455850609538 0.0010861861627 0.386235126584 0.380750334971 0.099755 0.0921887491272 0.02659 0.0523836509173 0.0845 Chr3 116185509

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N00121 0 200000 1.518975 scaffold\_1 27771357 27964940 0.00475630143375 0.00108250001687 0.00476320392556 0.00108815873515 0.37156134139 0.374746360236 0.064995 0.0603513738293 0.00567 0.0103159884907 0.094 Chr3 116185509

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N00121 1200000 1400000 0.1625324 scaffold\_1 28959762 29146764 0.00349344841849 0.00106413726754 0.00349344841849 0.00106413726754 0.369877830785 0.369392836621 0.086325 0.060662452808 0 0 NA Chr3 116185509

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N00121 2000000 2200000 0.1625324 scaffold\_1 29744569 29946541 0.00283759054084 0.00131606440669 0.00284465556531 0.00132150381879 0.366914006638 0.366681179753 0.063785 0.0563791020538 0.005385 0.00571861446141 NA Chr3 116185509

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N00296 0 200000 1.142361 scaffold\_59 808434 1001668 0.00363035013059 0.00135156993517 0.00365880942309 0.00136981016229 0.395124403932 0.399852472686 0.049675 0.0180558286844 0.01489 0.0151888384032 0.0705 Chr4 72322651

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N00103 0 200000 1.660441 scaffold\_59 4006309 4219351 0.00570849111492 0.00139208896212 0.00570849111492 0.00139208896212 0.365712709122 0.366935037408 0.051685 0.0615559373269 0 0 NA Chr4 72322651

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N00103 1800000 2000000 3.934501 scaffold\_59 2133168 2336325 0.00400734777467 0.00131870476896 0.0040181612421 0.00132870539292 0.415346355111 0.419766274275 0.04494 0.0310892560926 0.01886 0.0185816880541 0.243 Chr4 72322651

N00103 2000000 2200000 4.179887 scaffold\_59 1936511 2133168 0.00323519092966 0.00121130684249 0.00323519092966 0.00121130684249 0.413764675189 0.411093757395 0.049115 0.0242706844913 0 0 NA Chr4 72322651

N00103 2200000 2400000 4.179887 scaffold\_59 1734292 1936511 0.0031860913933 0.00137540622009 0.00319709445879 0.00138856504923 0.408722949931 0.409183509355 0.04904 0.0325686508192 0.017225 0.0195134977425 0.075 Chr4 72322651

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N00103 2600000 2800000 0.2443857 scaffold\_59 1339515 1537131 0.00381779203856 0.00154095633642 0.00392784869438 0.00160386612479 0.4037109299 0.406726912643 0.05646 0.0248917091733 0.03982 0.0430329527973 0.0676666666667 Chr4 72322651

N00180 200000 400000 6.44 scaffold\_59 4682683 4898146 0.00439361087649 0.00139398892607 0.00439361087649 0.00139398892607 0.374901337733 0.377748306627 0.087575 0.0885813341502 0 0 NA Chr4 72322651

N00180 400000 600000 6.44 scaffold\_59 4898146 5117686 0.00477253693512 0.00123402784518 0.00478552958033 0.00123402784518 0.378722769169 0.384546677608 0.087765 0.0903024505785 0.01723 0 NA Chr4 72322651

N00180 800000 1000000 1.930079 scaffold\_82 14461 220645 0.00523156417397 0.00119380566422 0.00523156417397 0.00119380566422 0.370749179817 0.372443404877 0.08929 0.0819510728282 0 0 NA Chr4 72322651

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N00017 3400000 3600000 4.308917 scaffold\_9 19270557 19463162 0.00436264677268 0.00101662983364 0.00441930583698 0.00103225810498 0.378647023961 0.382965251885 0.05589 0.0476726980089 0.016955 0.0183328574025 0.11 Chr4 72322651

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N00017 9800000 10000000 1.559281 scaffold\_9 12985479 13176734 0.0046678226284 0.00146959648499 0.0046678226284 0.00147204740635 0.370034453963 0.36883400423 0.04729 0.0413949962092 0 0.00278162662414 NA Chr4 72322651

N00017 10000000 10200000 1.559281 scaffold\_9 12782948 12985479 0.00505433569308 0.0015948034648 0.00505433569308 0.0015948034648 0.3741519158 0.377843713783 0.06812 0.0608795690536 0 0 NA Chr4 72322651

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N00152 0 200000 2.663057 scaffold\_9 635770 849889 0.00396168211983 0.00104949898411 0.0039858406773 0.00105778248565 0.412351276543 0.411624131298 0.057475 0.0803431736558 0.00938 0.0092098319159 0.1065 Chr4 72322651

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N00091 2000000 2200000 2.653294 scaffold\_9 5258825 5447464 0.00381784055905 0.000978358412149 0.00381784055905 0.000978358412149 0.411477017064 0.401240183739 0.103365 0.0645783745673 0 0 NA Chr4 72322651

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N00053 5600000 5800000 2.517049 scaffold\_4 11482901 11678706 0.0059759260582 0.00152811431642 0.0059938864811 0.00153389374702 0.344714686623 0.344304746329 0.106425 0.109981869717 0.00363 0.0045453384745 0.04 Chr4 72322651

N00177 200000 400000 0.5622318 scaffold\_4 17301495 17501300 0.00449680005969 0.00110090909098 0.00468412077807 0.00115138656295 0.36668836443 0.363506988857 0.066235 0.0522809739496 0.066365 0.0689221991442 0.0855 Chr4 72322651

N00177 400000 600000 0.5622318 scaffold\_4 17501300 17689746 0.00384149608654 0.000972982615556 0.00384859770042 0.000981880540036 0.407079749099 0.406826599613 0.078875 0.0576876134277 0.01723 0.0189762584507 0.099 Chr4 72322651

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N00177 800000 1000000 0.5622318 scaffold\_4 17880599 18085527 0.00448908794954 0.00114765411504 0.0045765386674 0.00117691556827 0.376086173954 0.376216246219 0.074125 0.0852884915678 0.025015 0.0260823313554 0.061 Chr4 72322651

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N00008 1400000 1600000 0.9059081 scaffold\_4 21217195 21415107 0.00389642621406 0.000986500697835 0.00389642621406 0.000986500697835 0.357048302727 0.357033804646 0.122305 0.124125874126 0 0 NA Chr4 72322651

N00008 1600000 1800000 0.9059081 scaffold\_4 21415107 21609524 0.0039509518883 0.000900965530206 0.00398421375118 0.000909819551057 0.367755102041 0.37018038427 0.099085 0.106117263408 0.009465 0.0104877659875 0.045 Chr4 72322651

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N00008 2600000 2800000 1.490909 scaffold\_4 22394250 22588359 0.00368936872055 0.000877028025759 0.00368936872055 0.000877028025759 0.401726179854 0.403175411514 0.05579 0.0467469308481 0 0 NA Chr4 72322651

N00008 2800000 3000000 1.490909 scaffold\_4 22588359 22781130 0.00343606987778 0.000847276538813 0.00347837869201 0.000857684257419 0.399401674642 0.401501677347 0.07447 0.0562999621312 0.01186 0.0124344429401 0.034 Chr4 72322651

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N00008 3400000 3600000 0 scaffold\_4 23169684 23363134 0.00498717033643 0.00118865576442 0.00498717033643 0.00119015117 0.359278892393 0.362613311556 0.08104 0.0627138795554 0 0.00121995347635 NA Chr4 72322651

N00008 3600000 3800000 0 scaffold\_4 23363134 23553867 0.00449203129893 0.00126558827474 0.0045002229049 0.0012684221579 0.360357533133 0.361549225496 0.076205 0.0579920622021 0.001695 0.0023016468047 0.038 Chr4 72322651

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N00008 4200000 4400000 2.442599 scaffold\_4 23946611 24145376 0.00493687760352 0.00118621673214 0.00493687760352 0.00118621673214 0.356717305448 0.355093527779 0.086615 0.0992478555078 0 0 NA Chr4 72322651

N00008 4400000 4600000 2.396124 scaffold\_4 24145376 24349007 0.00468349474144 0.00121236576814 0.00468349474144 0.00121236576814 0.355133622112 0.355660872435 0.075725 0.0771640860183 0 0 NA Chr4 72322651

N00008 4600000 4800000 2.396124 scaffold\_4 24349130 24549937 0.0041894700519 0.000945482028557 0.0041915248768 0.000945901722784 0.367312982884 0.365182226495 0.09275 0.0843247496352 0.000425 0.000423292016713 0.01 Chr4 72322651

N00008 4800000 5000000 2.396124 scaffold\_4 24549937 24741595 0.00407709742167 0.00110610331788 0.00427144597511 0.00117548535162 0.365227495108 0.363175290298 0.077545 0.0524162831711 0.06559 0.0805340763235 0.0605 Chr4 72322651

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N00008 5400000 5600000 2.396124 scaffold\_4 25135284 25341087 0.00435615841973 0.00104828544833 0.00443742073446 0.0010712154892 0.38322917004 0.383134783099 0.04575 0.065242003275 0.024295 0.0229734260434 0.0663333333333 Chr4 72322651

N00008 5600000 5800000 2.396124 scaffold\_4 25341087 25529312 0.00433317348507 0.000950055333221 0.00448168941596 0.000993680570671 0.383369225341 0.38724566264 0.06859 0.0658839155266 0.04937 0.053643246115 0.074 Chr4 72322651

N00008 5800000 6000000 2.396124 scaffold\_4 25529312 25723445 0.0039046814132 0.000936015554119 0.0039294847298 0.000943508440672 0.401121972709 0.404982877562 0.082055 0.0522579880803 0.01267 0.00645948911313 0.019 Chr4 72322651

N00008 6000000 6200000 2.396124 scaffold\_4 25723445 25912801 0.00435234319296 0.000750321597746 0.00435234319296 0.000750321597746 0.394598070014 0.398308626763 0.077475 0.0636314666554 0 0 NA Chr4 72322651

N00008 6200000 6400000 2.396124 scaffold\_4 25912801 26111779 0.00423836085459 0.000784754409184 0.00423836085459 0.000784754409184 0.386680743002 0.388674656744 0.106755 0.0996492074501 0 3.01540873865e-05 NA Chr4 72322651

N00008 6400000 6600000 2.396124 scaffold\_4 26111779 26302948 0.00427599821195 0.000980830200541 0.00441559274901 0.00102012651016 0.386331029903 0.395343137255 0.097275 0.0721351265111 0.045605 0.048668978757 0.0935 Chr4 72322651

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N00008 7800000 8000000 2.396124 scaffold\_4 27462928 27658926 0.00429596405873 0.000996896185296 0.00431715246189 0.00100519776002 0.377479444669 0.378316289903 0.053685 0.0350156634251 0.00607 0.00805110256227 0.023 Chr4 72322651

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N00008 8200000 8400000 0.07854051 scaffold\_4 27849832 28058433 0.00407377609278 0.00131142476527 0.00412959005655 0.00133205586929 0.38250459722 0.381684144949 0.06204 0.0758481502965 0.019575 0.0187870623823 0.0785 Chr4 72322651

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N00008 8800000 9000000 0.07854051 scaffold\_4 28433915 28650942 0.00438143699929 0.000999138548829 0.00444955657581 0.00101448168724 0.382845908867 0.37990426341 0.08202 0.107060411838 0.019445 0.0187442115497 0.069 Chr4 72322651

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N00008 9200000 9400000 0.07854051 scaffold\_4 28847343 29036550 0.00405989183733 0.000866077686867 0.00418530284059 0.000893751298447 0.382208827061 0.385276123569 0.09867 0.0674869323017 0.03922 0.0399086714551 0.0615 Chr4 72322651

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N00008 9600000 9800000 0.4388525 scaffold\_4 29237472 29436592 0.00443752913375 0.00108220792585 0.00443964590479 0.00108277815563 0.37603433733 0.376378570316 0.06721 0.0567346323825 5,00E-04 0.00050220972278 NA Chr4 72322651

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N00008 11800000 12000000 3.739677 scaffold\_4 31380353 31575143 0.00357765907523 0.000949652106885 0.00366740021552 0.000973312571304 0.391335530472 0.394916443069 0.067585 0.0493813850814 0.034415 0.035761589404 0.05175 Chr4 72322651

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N00008 15400000 15600000 1.693215 scaffold\_4 34822995 35015454 0.00424815399929 0.00108482029692 0.00439330606339 0.00112060551987 0.429825404645 0.436552416464 0.07409 0.0549259842356 0.05377 0.0593477052255 0.0822 Chr4 72322651

N00008 15600000 15800000 3.046847 scaffold\_4 35015454 35210739 0.00407272832405 0.00121598704297 0.00409581276843 0.00123145616176 0.470290056015 0.473663081478 0.08464 0.0354609929078 0.01876 0.0242568553652 0.0785 Chr4 72322651

N00127 200000 400000 3.621051 scaffold\_4 35893810 36089640 0.00513089193163 0.00133392529009 0.00513089193163 0.00133392529009 0.373915441683 0.378968386023 0.09841 0.0736965735587 0 0 NA Chr4 72322651

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N00127 1200000 1400000 2.188264 scaffold\_4 36864942 37062361 0.00481401251579 0.00138450201325 0.0048178563172 0.0013906061847 0.382554333402 0.38374275735 0.13374 0.12805758311 0.0054 0.00539461753935 NA Chr4 72322651

N00185 0 200000 14.55022 scaffold\_50 2018723 2233207 0.00501700139937 0.00140869529739 0.00501700139937 0.00140869529739 0.37781147586 0.391236437211 0.09828 0.0440405811156 0 0 NA Chr5 64724594

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N00112 200000 400000 0.9313544 scaffold\_50 4504410 4700554 0.00313053857288 0.000940302916052 0.00313986413418 0.000946994870828 0.419509991497 0.43535665021 0.055 0.0267660494331 0.00661 0.00689799331104 0.067 Chr5 64724594

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N00112 1000000 1200000 8.194261 scaffold\_50 3718234 3924896 0.00461987369874 0.00143532513695 0.00464169130407 0.00144397375287 0.394992303426 0.399151848821 0.118325 0.0471639682186 0.00798 0.00773727148678 0.144 Chr5 64724594

N00112 1200000 1400000 1.266743 scaffold\_50 3519029 3718234 0.00492291600666 0.00133910002168 0.00493595628128 0.00134134604962 0.382745482024 0.392456907244 0.086835 0.0499836851485 0.004045 0.00406616299792 0.144 Chr5 64724594

N00112 1600000 1800000 4.033784 scaffold\_50 3130093 3326637 0.00424995392318 0.00135292887164 0.00430418922027 0.00137279772583 0.401303522991 0.406006969284 0.108585 0.024946068056 0.021785 0.0260806740475 0.095 Chr5 64724594

N00112 1800000 2000000 6.642214 scaffold\_50 2932626 3130082 0.00419124778374 0.00124687604531 0.0043794963002 0.00133290935449 0.380285427507 0.389998047167 0.058565 0.0286899359857 0.070625 0.0752927234422 0.0602857142857 Chr5 64724594

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N00178 200000 400000 0.9313544 scaffold\_96 132155 323590 0.000883115432441 0.00115763365333 0.000884504571182 0.00116183389564 0.409940083479 0.397175762422 0.09547 0.061906130018 0.00358 0.00424164860135 0.064 Chr5 64724594

N00178 400000 600000 0.9313544 scaffold\_96 323590 521455 0.00119097744628 0.00115574384997 0.00121689193865 0.00118545324259 0.406144855173 0.394235916446 0.09397 0.0656912541379 0.03775 0.0383746493822 0.095 Chr5 64724594

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N00183 200000 400000 1.108365 scaffold\_94 961508 1144265 0.000992493910963 0.00114867678099 0.000981168002879 0.00123343772377 0.411485948693 0.39468546832 0.091645 0.0226475593274 0.051705 0.0738685795893 0.083 Chr5 64724594

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N00183 800000 1000000 0.7873564 scaffold\_94 388168 575235 0.00228834818693 0.00113531296265 0.00229944096548 0.00114319512144 0.437622051531 0.420233657858 0.08581 0.0394992168581 0.01567 0.0135833685257 0.086 Chr5 64724594

N00183 1000000 1200000 0.6247289 scaffold\_94 191552 378345 0.0023790016891 0.000976562797189 0.0023790016891 0.000976562797189 0.425934051286 0.40443952144 0.09033 0.030948697221 0 0 NA Chr5 64724594

N00306 0 200000 7.739927 scaffold\_94 1323705 1508976 0.00274686727496 0.0014669163916 0.00278463568907 0.00149820469917 0.435439828937 0.418675541464 0.099775 0.0429748854381 0.03558 0.0349434072251 0.092 Chr5 64724594

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N00065 800000 1000000 2.949245 scaffold\_0 2685332 2877405 0.00283906713896 0.00110107304065 0.00284760477079 0.00110451776351 0.375463216753 0.379994802157 0.07338 0.027354183045 0.003075 0.0041390512982 0.04 Chr5 64724594

N00065 1000000 1200000 2.949245 scaffold\_0 2493416 2685332 0.00319771164661 0.00101977585728 0.00321223355624 0.00102210590824 0.368730828013 0.372443866345 0.055 0.0313887325705 0.00689 0.00718022468163 0.06 Chr5 64724594

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N00065 1400000 1600000 2.949245 scaffold\_0 2112852 2306701 0.00469600156938 0.0012824143381 0.00469600156938 0.0012824143381 0.362743408582 0.367819730952 0.099725 0.0681097142621 0 0 NA Chr5 64724594

N00065 1600000 1800000 2.949245 scaffold\_0 1907950 2112852 0.00495363011475 0.00130264018199 0.00497872130691 0.00131163945422 0.385546862825 0.387226229934 0.069045 0.0527471669383 0.007305 0.00778908941836 0.077 Chr5 64724594

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N00065 2000000 2200000 3.32994 scaffold\_0 1514929 1712522 0.0041853691066 0.00150756002088 0.0042080963063 0.00151333207702 0.411844247592 0.414171968414 0.08142 0.0618594788277 0.005985 0.00522791799305 0.0545 Chr5 64724594

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N00065 3200000 3400000 2.405172 scaffold\_0 374060 561681 0.00375761033577 0.00118316820823 0.00387100393939 0.00123015681772 0.404910034782 0.411781713883 0.10018 0.0325336716039 0.03513 0.0378742251667 0.06875 Chr5 64724594

N00065 3400000 3600000 4.769071 scaffold\_0 185592 374060 0.00429114776064 0.00103554088606 0.00433945353959 0.00105066385467 0.373283901326 0.374520528288 0.07758 0.0542744656918 0.01457 0.0154615107074 0.068 Chr5 64724594

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N00087 800000 1000000 2.949245 scaffold\_0 4515448 4696967 0.00381010927955 0.0010852256859 0.00386899666157 0.00111579981758 0.433382910912 0.44047369587 0.07213 0.0355444884558 0.028815 0.0306744748484 0.077 Chr5 64724594

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N00087 2800000 3000000 1.319979 scaffold\_0 6455862 6647058 0.00361119085396 0.000991078801574 0.00379406254076 0.00103655395558 0.391799969875 0.392786567182 0.061095 0.0421870750434 0.07026 0.0883543588778 NA Chr5 64724594

N00087 3000000 3200000 1.009702 scaffold\_0 6647058 6836175 0.00382040161279 0.000969391644337 0.00391363976093 0.00100741100514 0.374536172627 0.372872747228 0.06591 0.0483563085286 0.0778 0.0500272318195 0.0513333333333 Chr5 64724594

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N00361 0 200000 1.009702 scaffold\_0 7326883 7520277 0.00425851988493 0.00106976324638 0.00435363568923 0.00110066938524 0.468173357538 0.466757320077 0.06488 0.0430054706971 0.03726 0.0399185083301 0.0483333333333 Chr5 64724594

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N00062 800000 1000000 1.009702 scaffold\_0 11726483 11918361 0.00384882707487 0.001034707017 0.00388055516896 0.00104759444778 0.434807662974 0.431574615106 0.060095 0.0312229645921 0.01656 0.0168231897351 0.0636666666667 Chr5 64724594

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N00062 1400000 1600000 1.009702 scaffold\_0 11148860 11346392 0.00357766102818 0.00115055449258 0.00357766102818 0.00115055449258 0.386322589223 0.380669505276 0.081665 0.0854140088694 0 0 NA Chr5 64724594

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N00135 600000 800000 0.4053581 scaffold\_36 1565546 1757834 0.00348094672068 0.00126980225542 0.00350878122414 0.00128339514756 0.393799679313 0.414737466007 0.088125 0.0523745631553 0.007905 0.0123408637044 0.086 Chr6 37227452

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N00006 4600000 4800000 0.6817708 scaffold\_10 20129994 20320792 0.00438320760378 0.00112868755844 0.00438320760378 0.00112868755844 0.383833044244 0.388234474106 0.067395 0.0477049025671 0 0 NA Chr6 37227452

N00006 4800000 5000000 0.6817708 scaffold\_10 19932168 20129994 0.00429345392266 0.00127887856312 0.00429345392266 0.00127887856312 0.374801351337 0.375662090023 0.036835 0.0379222144713 0 0 NA Chr6 37227452

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N00006 5400000 5600000 1.529084 scaffold\_10 19358055 19547106 0.00442954992143 0.00153883293991 0.00445597152474 0.00154760889992 0.351433663456 0.361026204436 0.074895 0.0560430783228 0.00574 0.00607243548037 0.023 Chr6 37227452

N00006 5600000 5800000 1.350216 scaffold\_10 19163934 19358055 0.00400895031005 0.00108765731522 0.00404839960841 0.00109891431502 0.365712687089 0.369661338391 0.065855 0.0615492399071 0.011255 0.0135482508332 0.023 Chr6 37227452

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N00019 10800000 11000000 3.875926 scaffold\_6 781065 998959 0.00505418957921 0.00151280772722 0.00507291494123 0.00152005009421 0.376290965671 0.377144382885 0.02269 0.0484318062911 0.003545 0.00446547403783 0.02 Chr7 39412250

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N00233 0 200000 1.300211 scaffold\_6 12633680 12837997 0.00350273706716 0.000698545257487 0.00354303977651 0.000705373654386 0.387762795577 0.396138441566 0.07451 0.0445092674618 0.020405 0.0177028832647 0.0486666666667 Chr7 39412250

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N00240 200000 400000 0 scaffold\_6 13687431 13893418 0.00380672241597 0.00112504425311 0.00382946852821 0.00113160415439 0.367345279769 0.366270667743 0.05168 0.0357935209504 0.00724 0.00712180865783 0.032 Chr7 39412250

N00214 0 200000 2.063187 scaffold\_6 14913095 15104397 0.00344649925569 0.000868521518332 0.00344649925569 0.000868521518332 0.36611516879 0.365655528128 0.094555 0.0601771021735 0 0 NA Chr7 39412250

N00214 200000 400000 3.202243 scaffold\_6 14713216 14913069 0.00303740462262 0.00102507134737 0.00307006517074 0.00104855049271 0.36543014139 0.366677517361 0.0549 0.0489709936804 0.02348 0.0246180942993 0.1175 Chr7 39412250

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N00260 0 200000 1.363636 scaffold\_6 15780022 15978268 0.00362042659741 0.00099844811721 0.00370062130716 0.0010216581811 0.36855425839 0.366389426665 0.047655 0.0347245341646 0.02761 0.0285352541792 0.0685 Chr7 39412250

N00260 200000 400000 1.363636 scaffold\_6 15574057 15780022 0.00349219846237 0.00100039357859 0.00360753738926 0.00104188226861 0.35839016186 0.356837427685 0.060095 0.0554851552448 0.04593 0.0450416332872 0.048 Chr7 39412250

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N00093 1200000 1400000 7.178182 scaffold\_6 17815752 18010885 0.00388464517949 0.000773262321041 0.00388464517949 0.000773262321041 0.422104681791 0.426329866587 0.060655 0.0349966433151 0 0 NA Chr7 39412250

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N00016 0 200000 0 scaffold\_6 19212892 19412371 0.00447615243196 0.00123933863964 0.00447615243196 0.00123933863964 0.38339840179 0.385164385164 0.057735 0.0617408348748 0 0 NA Chr7 39412250

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N00189 200000 400000 0.3075607 scaffold\_7 8431026 8623228 0.00323188613199 0.00118421178972 0.00333494273726 0.00124729381211 0.456829939395 0.462282848126 0.07239 0.0251402170633 0.06835 0.0623250538496 0.12375 Chr8 32100816

N00189 400000 600000 1.268657 scaffold\_7 8623228 8813272 0.00273653964217 0.00121126216993 0.00273892101073 0.00121445252966 0.461434975075 0.465113328589 0.07894 0.039901286018 0.0055 0.00573025194166 0.153 Chr8 32100816

N00189 600000 800000 0.6018816 scaffold\_7 8813420 9009190 0.00160133889959 0.0010873872837 0.00163309234448 0.00113194512508 0.505326357219 0.506958170071 0.072365 0.0294784696327 0.062405 0.0762220973591 0.0905714285714 Chr8 32100816

N00189 800000 1000000 0.2903955 scaffold\_7 9009190 9206361 0.000405024480504 0.00098194400046 0.000408835917947 0.00101090950431 0.44441801116 0.443992930935 0.045865 0.0130597298791 0.037465 0.0380076177531 0.0575 Chr8 32100816

N00189 1000000 1200000 0.2903955 scaffold\_7 9206361 9395035 0.000179328220212 0.00102464655631 0.000184939263429 0.00106050372876 0.394014510632 0.396729741206 0.099535 0.0251438990004 0.04179 0.0410867422114 0.094 Chr8 32100816

N00049 200000 400000 2.827605 scaffold\_7 9612199 9807843 0.000459366625054 0.000761499049227 0.000466935382247 0.000770570815446 0.464243999634 0.466753116983 0.05754 0.0225869436323 0.052405 0.0484093557686 0.0578 Chr8 32100816

N00049 400000 600000 0.9533898 scaffold\_7 9807843 10006193 0.00101519431861 0.000995950654183 0.00104464433075 0.00102046446773 0.494233213914 0.493027062046 0.05979 0.0237005293673 0.060605 0.0675371817494 0.0868 Chr8 32100816

N00049 600000 800000 0.9533898 scaffold\_7 10006193 10196681 0.00148473489271 0.000813182493212 0.00149119145911 0.000817472253634 0.476657534247 0.47311337462 0.061995 0.0183948595187 0.006315 0.00665133761707 0.0245 Chr8 32100816

N00049 800000 1000000 0.9533898 scaffold\_7 10196681 10386681 0.00133343610198 0.000898430524956 0.0013503914354 0.000910247065234 0.533700097257 0.533451257862 0.074315 0.0236736842105 0.036005 0.0361263157895 0.0398333333333 Chr8 32100816

N00049 1000000 1200000 3.327009 scaffold\_7 10386681 10589024 0.002691450159 0.000995610750273 0.00270766260961 0.00100685654601 0.445858568442 0.447965998123 0.064375 0.0329638287462 0.01889 0.0172084035524 0.048 Chr8 32100816

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N00049 1400000 1600000 1.855042 scaffold\_7 10784717 10982202 0.00266952919091 0.00103009612823 0.00267022993091 0.00103147763499 0.417025694264 0.417208645551 0.02887 0.0224320834494 0.000905 0.00188875104438 0.074 Chr8 32100816

N00049 1600000 1800000 1.855042 scaffold\_7 10982202 11165927 0.00280447260761 0.000986552267509 0.00283664372669 0.00102265749726 0.462052352463 0.472183108964 0.093715 0.0178201115798 0.05759 0.0629473397741 0.122 Chr8 32100816

N00049 1800000 2000000 5.005505 scaffold\_7 11165927 11370101 0.0033765298058 0.00115361631674 0.00345263407205 0.0012005064998 0.438064453159 0.436979688921 0.070615 0.038041082606 0.07185 0.0719827206206 0.0945 Chr8 32100816

N00049 2000000 2200000 1.235725 scaffold\_7 11370101 11566340 0.00333006808228 0.00113266817262 0.00333849811375 0.00113602152081 0.383630213013 0.38219939241 0.042485 0.028424523158 0.00457 0.00492256890832 0.075 Chr8 32100816

N00049 2200000 2400000 1.235725 scaffold\_7 11566340 11768255 0.00356006820353 0.00111278806081 0.00359168623501 0.00112577195935 0.384129228083 0.38685785483 0.04398 0.0198548894337 0.012805 0.0124507837456 0.101 Chr8 32100816

N00049 2400000 2600000 1.259319 scaffold\_7 11768255 11964919 0.00343000678195 0.0010047908338 0.00352013887241 0.00104078636033 0.366787957884 0.366562575066 0.06845 0.031403815645 0.036505 0.0372869462637 0.0455 Chr8 32100816

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N00049 3400000 3600000 2.675388 scaffold\_7 12745332 12930907 0.00377942348719 0.00116692151885 0.00377942348719 0.00116692151885 0.364476126912 0.371325224106 0.077945 0.0392132560959 0 0 NA Chr8 32100816

N00049 3600000 3800000 2.595745 scaffold\_7 12930907 13121094 0.00351245797064 0.0010734261861 0.00351245797064 0.0010734261861 0.371040577854 0.376189881064 0.037 0.0231140929717 0 0 NA Chr8 32100816

N00049 3800000 4000000 4.838625 scaffold\_7 13121094 13312291 0.00332182272059 0.000936656573002 0.00332182272059 0.000936656573002 0.370600516184 0.373914031925 0.075665 0.0356543251202 0 0 NA Chr8 32100816

N00049 4000000 4200000 7.510345 scaffold\_7 13312291 13505964 0.00314326914672 0.000934400303829 0.00320538541021 0.000953345847799 0.37151692761 0.373530285666 0.03543 0.0197601111151 0.02221 0.0235293510195 0.054 Chr8 32100816

N00049 4200000 4400000 1.311526 scaffold\_7 13505964 13705323 0.00395493641173 0.00116260036488 0.00395493641173 0.00116260036488 0.363226789081 0.367037930232 0.05451 0.0580661018564 0 0 NA Chr8 32100816

N00049 4400000 4600000 1.311526 scaffold\_7 13705323 13899456 0.00387777170438 0.00107554425205 0.00387777170438 0.00107554425205 0.371299593827 0.370697911678 0.03776 0.0323592588586 0 0 NA Chr8 32100816

N00049 4600000 4800000 1.25171 scaffold\_7 13899456 14100060 0.00372014148993 0.0010460866204 0.00374866973552 0.0010579172433 0.373960575746 0.371008983205 0.02883 0.0379454048773 0.011045 0.0123925744252 0.068 Chr8 32100816

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N00049 5600000 5800000 3.762 scaffold\_7 14884757 15080400 0.00381520191156 0.00122722782903 0.00386245099968 0.00124767904094 0.379125196438 0.387262699311 0.06868 0.0319817218096 0.01603 0.0173530358868 0.0345 Chr8 32100816

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N00049 6000000 6200000 3.762 scaffold\_7 15270940 15476563 0.00352291418974 0.000823786243673 0.00352291418974 0.000823786243673 0.382869939779 0.380883329994 0.05177 0.05651605122 0 0 NA Chr8 32100816

N00300 0 200000 4.021129 scaffold\_7 15608950 15805090 0.00358845041496 0.00096095853095 0.00364705529644 0.000986891422718 0.373758044252 0.375636665419 0.05412 0.0248343020292 0.024085 0.0270979912308 0.036 Chr8 32100816

N00300 200000 400000 4.38206 scaffold\_7 15805090 16007515 0.00358266731428 0.000902848228318 0.00371950711997 0.00094279917528 0.412779478307 0.416500221926 0.053535 0.0473558107941 0.04531 0.0446091144868 0.0445 Chr8 32100816

N00204 0 200000 1.040576 scaffold\_7 16914433 17109330 0.00377768755328 0.00103837976384 0.00391229603241 0.00108763447581 0.364837591209 0.37207349741 0.069885 0.0277018117262 0.054045 0.0565837339723 0.0322 Chr8 32100816

N00204 200000 400000 2.898104 scaffold\_7 16724042 16914433 0.00336908350526 0.000821160396935 0.00344688138088 0.000855379113323 0.378268188439 0.383779136524 0.059725 0.0375858102536 0.056245 0.0606698846059 0.0515 Chr8 32100816

N00204 400000 600000 4.831729 scaffold\_7 16523746 16724042 0.00373702694608 0.00097116204045 0.00380454958268 0.000988739801351 0.392167544011 0.394448678998 0.03577 0.0271847665455 0.03084 0.0298358429524 0.045 Chr8 32100816

N00204 600000 800000 4.38206 scaffold\_7 16337201 16523746 0.00387277403971 0.000885912463307 0.00400642218092 0.000924485371396 0.378566989257 0.380472542519 0.068555 0.0260794982444 0.047715 0.0533008121365 0.0565 Chr8 32100816

N00204 800000 1000000 4.38206 scaffold\_7 16140387 16337201 0.00329642352307 0.000942028832914 0.00330323160136 0.000944234553962 0.434761001175 0.443915194653 0.07188 0.0399209405835 0.00681 0.00150395805176 0.046 Chr8 32100816

N00046 0 200000 1.040576 scaffold\_7 17110239 17306366 0.00388987262944 0.00102078000349 0.00400499275302 0.00106021540302 0.374949982247 0.378711419497 0.04887 0.0340799583943 0.04749 0.0492181086745 0.0564 Chr8 32100816

N00046 200000 400000 1.040576 scaffold\_7 17309231 17513013 0.00418948056027 0.000937783568264 0.00439007027152 0.000985249170631 0.376920652649 0.376018300892 0.06267 0.0411812623294 0.06093 0.0618307799511 0.07125 Chr8 32100816

N00046 400000 600000 1.404082 scaffold\_7 17517242 17706157 0.00421012859484 0.000983311277108 0.00428538142757 0.00100625391793 0.387117572549 0.39377421216 0.05871 0.0252494508112 0.02396 0.0258476034195 0.0644 Chr8 32100816

N00046 600000 800000 1.537615 scaffold\_7 17706157 17909240 0.00381850892119 0.00119400624861 0.00383378939203 0.00119907315952 0.396034939121 0.401849318044 0.061995 0.0583948434876 0.00574 0.00588429361394 0.0485 Chr8 32100816

N00046 800000 1000000 1.559471 scaffold\_7 17909240 18098568 0.00350226308942 0.000938917483462 0.00350226308942 0.000939067689284 0.405532264196 0.414795155192 0.037315 0.0317385701006 0 0.000116200456351 NA Chr8 32100816

N00046 1000000 1200000 3.734149 scaffold\_7 18098568 18299428 0.00372963703727 0.000904212437343 0.00377506362805 0.000911539642349 0.392321219226 0.396612423294 0.070475 0.0449566862491 0.012205 0.0127601314348 0.0795 Chr8 32100816

N00046 1200000 1400000 3.734149 scaffold\_7 18299428 18507357 0.00387564048252 0.00111134445446 0.00390640427588 0.00112110007386 0.369755005988 0.372521479189 0.04668 0.0689658489196 0.00954 0.00939262921478 0.117 Chr8 32100816

N00046 1400000 1600000 3.734149 scaffold\_7 18507357 18698926 0.00328367633113 0.000864632657935 0.00328615336655 0.000865258130641 0.40891840095 0.415540486467 0.06221 0.0190166467435 0.000625 0.000657726458874 0.117 Chr8 32100816

N00046 1600000 1800000 3.734149 scaffold\_7 18698926 18899606 0.00382342351079 0.000968963411154 0.00386448130936 0.000979402563833 0.384795875421 0.388137912984 0.07001 0.0284084114012 0.01302 0.0133894757823 0.0386666666667 Chr8 32100816

N00046 1800000 2000000 2.911349 scaffold\_7 18899606 19104675 0.00392627315366 0.00112954270728 0.00405938673817 0.00117832459186 0.377638453501 0.375975493728 0.04356 0.0306482208427 0.046705 0.0474815793708 0.07075 Chr8 32100816

N00046 2000000 2200000 2.128492 scaffold\_7 19104675 19297262 0.00378375862313 0.00118523069756 0.00393760832407 0.00125692421619 0.36660318662 0.373409574162 0.057175 0.0299552929325 0.059275 0.0719415121478 0.0697142857143 Chr8 32100816

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N00046 2600000 2800000 2.74996 scaffold\_7 19722027 19916661 0.00411278980709 0.00131086283375 0.00418723235394 0.00133639011418 0.366577232656 0.363208440417 0.0524 0.0361653154125 0.023865 0.0252628009495 0.033 Chr8 32100816

N00046 2800000 3000000 4.127008 scaffold\_7 19916661 20124695 0.00432299231201 0.00112980573108 0.00436828470816 0.00115241522194 0.378075452473 0.384441144913 0.05927 0.0319322803003 0.01803 0.02465943067 0.033 Chr8 32100816

N00046 3000000 3200000 4.177778 scaffold\_7 20124695 20344366 0.00426481851485 0.00144286763977 0.00426481851485 0.00144286763977 0.378637766535 0.386756841774 0.045995 0.0309553832777 0 0 NA Chr8 32100816

N00046 3200000 3400000 4.177778 scaffold\_7 20344366 20560626 0.00439815726502 0.00137833301566 0.00439815726502 0.00137833301566 0.370249386567 0.375458968846 0.05356 0.0655923425506 0 0 NA Chr8 32100816

N00046 3400000 3600000 4.177778 scaffold\_7 20560626 20759625 0.0043079093021 0.00139631521373 0.0043079093021 0.00139631521373 0.376177229967 0.387101144203 0.039215 0.04436203197 0 0 NA Chr8 32100816

N00046 3600000 3800000 4.177778 scaffold\_7 20759625 20962010 0.00403995857708 0.00143570885478 0.00404521637318 0.00144096036586 0.392677707968 0.39993676889 0.049425 0.0464955406774 0.00123 0.0048768436396 0.056 Chr8 32100816

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N00046 4000000 4200000 1.002886 scaffold\_7 21164417 21360790 0.00465348712902 0.00114683593067 0.00472327068114 0.00116294502022 0.39031795518 0.393445044861 0.101885 0.030783254317 0.01817 0.0201351509627 0.049 Chr8 32100816

N00046 4200000 4400000 1.002886 scaffold\_7 21360790 21551785 0.00390092837114 0.00129671223781 0.00415989169622 0.00140827643552 0.371100143842 0.372839939273 0.0782 0.0332888295505 0.095685 0.105657216157 0.0818571428571 Chr8 32100816

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N00046 4600000 4800000 0.821503 scaffold\_7 21743725 21946339 0.00344945085824 0.00103292042147 0.00347364526225 0.00103952190131 0.390945188054 0.392415284036 0.03206 0.0134640251908 0.00811 0.00695904527821 0.037 Chr8 32100816

N00046 4800000 5000000 1.038504 scaffold\_7 21946339 22139515 0.00351587157106 0.00130943044886 0.00351587157106 0.00131068283982 0.381484415843 0.382242453939 0.050995 0.0365573363151 0 0.000885203130824 NA Chr8 32100816

N00046 5000000 5200000 1.038504 scaffold\_7 22139515 22341206 0.00378235181365 0.00117771809933 0.00382065201711 0.00119373269502 0.388135960393 0.389143824823 0.04412 0.0405223832496 0.01991 0.0211065441691 0.05 Chr8 32100816

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N00046 5400000 5600000 2.193775 scaffold\_7 22532653 22733180 0.00374130222046 0.00104557730807 0.00375584449209 0.00105542009573 0.384776958017 0.382702595082 0.03857 0.032344771527 0.007125 0.0131004802346 NA Chr8 32100816

N00046 5600000 5800000 4.961192 scaffold\_7 22733180 22926962 0.00408357670468 0.00114248774922 0.00429098722423 0.0012506185045 0.390796021434 0.395940190304 0.058605 0.037893096366 0.112495 0.114654611883 0.13425 Chr8 32100816

N00046 5800000 6000000 4.118138 scaffold\_7 22926962 23136455 0.00447923864388 0.00120254947447 0.00454876095166 0.00121943413723 0.370157464419 0.369208061616 0.049115 0.0295618469352 0.019305 0.0215233921897 0.028 Chr8 32100816

N00046 6400000 6600000 3.31489 scaffold\_7 23625219 23828311 0.00430816100156 0.00105706268612 0.00436243395459 0.00107095151724 0.389047202842 0.386111565516 0.063895 0.0255844641837 0.016015 0.0149045752664 0.0465 Chr8 32100816

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N00067 600000 800000 10.34513 scaffold\_7 4486526 4666621 0.00360897202099 0.00115205899129 0.00360897202099 0.00115205899129 0.449616045845 0.45521093339 0.09737 0.0310669368944 0 0 NA Chr8 32100816

N00067 800000 1000000 8.814685 scaffold\_7 4297891 4486281 0.00368569900235 0.00127628306678 0.00368807521187 0.00127885780258 0.460387451207 0.471644700971 0.08892 0.0414034715218 0.00321 0.00342374860661 NA Chr8 32100816

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N00067 1400000 1600000 5.442793 scaffold\_7 3723420 3914523 0.00381901753202 0.00129660008589 0.00381901753202 0.00129660008589 0.432216923589 0.430364383487 0.081195 0.051809757042 0 0 NA Chr8 32100816

N00067 1600000 1800000 6.199691 scaffold\_7 3524881 3723420 0.00351295734256 0.00109968067608 0.00356414214658 0.00112690241221 0.414838875491 0.413699730871 0.055855 0.0287651292693 0.035555 0.0413420033344 0.0446666666667 Chr8 32100816

N00067 1800000 2000000 2.707776 scaffold\_7 3334329 3524881 0.00347536906604 0.00102092852274 0.00349179504903 0.00102741868216 0.420067119213 0.415646361513 0.064585 0.0265754229817 0.015475 0.00791909819892 0.041 Chr8 32100816

N00067 2000000 2200000 1.592797 scaffold\_7 3150672 3334329 0.00352905907823 0.00128861510258 0.00356010186198 0.00130984467103 0.436570856402 0.429516322186 0.06803 0.0405593034842 0.02971 0.0282809803057 0.055 Chr8 32100816

N00067 2200000 2400000 2.027458 scaffold\_7 2955958 3150672 0.00320916481324 0.00113269324444 0.00320916481324 0.0011327599025 0.408049420686 0.403942672751 0.034645 0.0307117105087 0 0.000220836714361 NA Chr8 32100816

N00067 2400000 2600000 4.323199 scaffold\_7 2766796 2955958 0.00273126819909 0.000787568291327 0.00273705381881 0.000787788974382 0.439889327336 0.4409764889 0.080985 0.037412376693 0.003125 0.000348907285819 0.004 Chr8 32100816

N00067 2600000 2800000 5.526468 scaffold\_7 2577537 2766796 0.00260179620186 0.000922080978825 0.00264159702724 0.000936857265761 0.430299824039 0.431075482199 0.08672 0.0524096608352 0.0179 0.0184244870786 0.0055 Chr8 32100816

N00067 2800000 3000000 6.089619 scaffold\_7 2391781 2577537 0.00352886691153 0.00123455207874 0.00364635116053 0.00128099660965 0.444191553018 0.452729452355 0.082955 0.0438263097827 0.062445 0.0646116410775 0.0793333333333 Chr8 32100816

N00067 3000000 3200000 5.598549 scaffold\_7 2196127 2391781 0.00352997855261 0.0011723780318 0.00357258399045 0.0011985711608 0.429555198729 0.434819925215 0.062 0.0343003465301 0.023 0.0269148599058 0.0716666666667 Chr8 32100816

N00146 0 200000 2.565035 scaffold\_51 3182130 3378310 0.00444272919065 0.00126785662615 0.00445290348795 0.00128721503892 0.448479757552 0.46040838594 0.08692 0.0450504638597 0.010585 0.0172800489347 0.1075 Chr9 26793321

N00146 400000 600000 5.070312 scaffold\_51 2821630 3009598 0.00445292884141 0.000842356878445 0.00456907560488 0.000865181565513 0.416564895263 0.429695971726 0.096505 0.0313404409261 0.030395 0.0322182499149 0.0356666666667 Chr9 26793321

N00146 800000 1000000 2.886686 scaffold\_51 2469157 2650127 0.00464087701042 0.000970335154994 0.0047003503118 0.000980244447383 0.393261389201 0.420831773455 0.09058 0.026982372769 0.014135 0.0228711941206 0.097 Chr9 26793321

N00146 1200000 1400000 5.06865 scaffold\_51 2095364 2295040 0.00464212616377 0.00112755793422 0.00464212616377 0.00112870814674 0.386662105306 0.402922176643 0.062685 0.0183397103307 0 0.000831346781786 0.131 Chr9 26793321

N00101 400000 600000 4.987578 scaffold\_51 5700068 5900812 0.00441398313143 0.00124404243667 0.00453954477723 0.00128312330515 0.478407201654 0.473456146998 0.10886 0.0739598692863 0.046705 0.0455505519468 0.093 Chr9 26793321

N00101 600000 800000 9.444667 scaffold\_51 5501517 5700068 0.00459368075971 0.00123775762285 0.00485207011804 0.00133416438747 0.500053086844 0.499315126296 0.123265 0.0479373057804 0.106575 0.108470871464 0.0705 Chr9 26793321

N00101 800000 1000000 3.662096 scaffold\_51 5294761 5501517 0.00440296926779 0.00125775255915 0.00463461788723 0.00134906393835 0.411744334407 0.418250583018 0.09039 0.0418947938633 0.08171 0.081511540173 0.0645 Chr9 26793321

N00101 1000000 1200000 7.23438 scaffold\_51 5104830 5294734 0.00409659511051 0.0013277528512 0.00410801549703 0.00133389164455 0.431932143787 0.434533665258 0.129925 0.0204419074901 0.006405 0.00678237425225 0.0735 Chr9 26793321

N00101 1800000 2000000 5.443103 scaffold\_51 4356002 4540081 0.00404207204166 0.00145656636473 0.00408215694365 0.00147347458682 0.429914075497 0.440751038419 0.09589 0.0234627524052 0.01565 0.0183508167689 0.0455 Chr9 26793321

N00101 2000000 2200000 3.068028 scaffold\_51 4173145 4356002 0.00468747838928 0.00133151294747 0.0047314110321 0.00139489434648 0.418503357584 0.426014312939 0.099145 0.0295968981226 0.014725 0.0480976938263 0.108 Chr9 26793321

N00101 2200000 2400000 4.937839 scaffold\_51 3985508 4173145 0.00397516060791 0.00125776522409 0.00411349771366 0.0013154851954 0.434946872766 0.444741170437 0.098375 0.0546214232801 0.05407 0.0572115307748 0.12725 Chr9 26793321

N00101 2400000 2600000 5.208654 scaffold\_51 3792467 3985508 0.00383060763228 0.00115633626168 0.00383534095297 0.00115772334052 0.455021890222 0.461175833108 0.0738 0.0207676089535 0.003435 0.00296828134956 0.108 Chr9 26793321

N00101 2600000 2800000 9.310642 scaffold\_51 3604839 3792467 0.00427706942908 0.00109405603012 0.00427621553516 0.00109485426257 0.42668072276 0.436989544966 0.11596 0.0216065832392 0.001 0.00108192807044 0.088 Chr9 26793321

N00101 2800000 3000000 5.063028 scaffold\_51 3413197 3604839 0.0045311403635 0.00130467536145 0.00454332635719 0.00131147506634 0.413875009362 0.423465556464 0.087505 0.0158994374928 0.00642 0.00669999269471 0.088 Chr9 26793321

N00125 1200000 1400000 0 scaffold\_83 420300 623780 0.00347288328127 0.00130828789917 0.00351540151594 0.00134462296541 0.466482373519 0.45744722692 0.05863 0.0426331826224 0.051815 0.0493856890112 0.066 Chr9 26793321

N00125 1400000 1600000 0 scaffold\_83 216570 420300 0.00288705705582 0.00129699256638 0.00299496194924 0.00134346999193 0.440763285988 0.433449974444 0.0551 0.0338339959751 0.055015 0.0527266480145 0.0506 Chr9 26793321

N00125 1600000 1800000 0 scaffold\_83 3738 216570 0.00295412247453 0.00138601983824 0.00302086708733 0.00141982164807 0.431478624712 0.423232395255 0.04129 0.0290651781687 0.04707 0.033481807247 0.091 Chr9 26793321

N00125 1800000 2000000 0 scaffold\_124 326639 509018 0.00206149054415 0.00107960974497 0.00210100616815 0.00111075534445 0.441322762488 0.434463661379 0.0587 0.0240159228859 0.04297 0.0523141370443 0.0886 Chr9 26793321

N00125 2000000 2200000 1.858887 scaffold\_124 126407 326639 0.00283126624519 0.00115437093792 0.00295140206032 0.00122952360249 0.437036782478 0.428577092336 0.050115 0.032806943945 0.067305 0.0795177593991 0.077 Chr9 26793321

N00007 200000 400000 2.31348 scaffold\_51 1414709 1620782 0.004300747499 0.00085995640547 0.00434122429143 0.000870069622173 0.40497801166 0.400482392148 0.059255 0.0535247218219 0.011875 0.0135437442071 0.053 Chr9 26793321

N00007 400000 600000 1.844514 scaffold\_51 1207783 1414709 0.00487859692386 0.000615431551297 0.00487859692386 0.000615431551297 0.389283660458 0.393189390561 0.032125 0.0335482249693 0 0 NA Chr9 26793321

N00007 600000 800000 1.837408 scaffold\_51 1010919 1207783 0.00479125723424 0.000978566333996 0.00479125723424 0.000978566333996 0.378251450799 0.38929608052 0.04222 0.0305083712614 0 0 NA Chr9 26793321

N00007 800000 1000000 1.837408 scaffold\_51 820801 1010919 0.0047131786564 0.000723670010736 0.00471268240725 0.000723670010736 0.377835804285 0.389128531635 0.056605 0.0310912170336 0.00586 0 NA Chr9 26793321

N00007 1000000 1200000 1.837408 scaffold\_51 632006 820801 0.00363083869252 0.000541432086058 0.00364375069168 0.000546101552993 0.405824209579 0.417966107113 0.050725 0.0230355676792 0.01069 0.0113244524484 0.134 Chr9 26793321

N00007 1200000 1400000 4.089052 scaffold\_51 443253 632006 0.00411678808892 0.00062788956864 0.00411861740643 0.000629637747426 0.41314774296 0.421771336554 0.057145 0.0135626983412 0.00366 0.00393106334734 0.134 Chr9 26793321

N00007 1400000 1600000 3.774832 scaffold\_51 254415 443253 0.00387981980349 0.000574356320032 0.0039113079505 0.000579574644295 0.418820789052 0.4319447132 0.081285 0.0307988858175 0.014375 0.0153147141995 0.0473333333333 Chr9 26793321

N00007 1600000 1800000 1.130653 scaffold\_51 47160 254415 0.00431631412712 0.00042612271594 0.00439212541302 0.000436132884189 0.404532607834 0.412353128836 0.050405 0.0430870184073 0.02489 0.0243033943693 0.05975 Chr9 26793321

N00007 2000000 2200000 3.484456 scaffold\_56 156110 347451 0.00394610918332 0.000479264808384 0.00403918314307 0.000496075633244 0.424309160802 0.433330129637 0.08128 0.0317443726122 0.029455 0.0369131550478 0.0755 Chr9 26793321

N00007 2200000 2400000 0.6482122 scaffold\_56 347451 531659 0.00387268297312 0.000514536113197 0.00395581598428 0.000525924481674 0.400677861124 0.407383117798 0.038405 0.0180122470251 0.02769 0.0310572830713 NA Chr9 26793321

N00007 2400000 2600000 0.6482122 scaffold\_56 531659 727626 0.00359967301638 0.00043888308354 0.00362945501295 0.00044228947669 0.400452643131 0.400675204694 0.027525 0.0172682135257 0.010705 0.0109457204529 0.046 Chr9 26793321

N00007 2600000 2800000 0.6482122 scaffold\_56 727626 929124 0.00322583827159 0.000360596579665 0.00322583827159 0.000360596579665 0.395863737026 0.39492614468 0.03448 0.0274146641654 0 0 NA Chr9 26793321

N00007 2800000 3000000 0.6482122 scaffold\_56 929124 1126359 0.00302947545137 0.000484133120364 0.00303078045028 0.000485371966281 0.402062403657 0.401920296773 0.07027 0.0229269652952 0.014025 0.011605445281 0.022 Chr9 26793321

N00007 3000000 3200000 0.6482122 scaffold\_56 1126359 1328735 0.00333451692269 0.000712591776088 0.00347486892218 0.000740965365164 0.375466933669 0.376331028279 0.0479 0.0277404435309 0.06275 0.0637081472111 0.0596666666667 Chr9 26793321

N00007 3200000 3400000 0.6482122 scaffold\_56 1328735 1527952 0.0034238835658 0.000441954289197 0.00352722071128 0.000453430390991 0.38740521494 0.392612372554 0.05724 0.0382547674144 0.05658 0.0593172269435 0.0712 Chr9 26793321

N00007 3400000 3600000 0.6482122 scaffold\_56 1527952 1739775 0.00401641373689 0.000753604796458 0.00401641373689 0.000753604796458 0.391839262709 0.395065008126 0.04003 0.034958432276 0 0 NA Chr9 26793321

N00007 3600000 3800000 0.6482122 scaffold\_56 1739775 1938917 0.00329636169056 0.00051413645481 0.00332882635996 0.00051833354832 0.396723927089 0.39879114208 0.03996 0.0262927960952 0.012865 0.0127446746543 0.096 Chr9 26793321

N00007 3800000 4000000 1.975892 scaffold\_56 1938917 2128878 0.00331427036204 0.000638843875335 0.00342562750422 0.000665601053857 0.373335221607 0.380423364998 0.08547 0.0467938155727 0.038635 0.0416927685156 0.0355 Chr9 26793321

N00007 4000000 4200000 1.708689 scaffold\_56 2128878 2331946 0.00268764065346 0.000607249649825 0.00278561437867 0.00062682382757 0.373908418407 0.378260335333 0.057385 0.0278921346544 0.047545 0.0470975239821 0.04525 Chr9 26793321

N00007 4200000 4400000 0.6538945 scaffold\_56 2331946 2534655 0.00318845347333 0.000875997915137 0.00340072701231 0.000953144816136 0.365377359569 0.367391202125 0.055375 0.0221894439813 0.09396 0.0925069927828 0.0634 Chr9 26793321

N00007 4400000 4600000 0.6538945 scaffold\_56 2534655 2727894 0.00317835719996 0.000635251311867 0.00323960889628 0.000647905977707 0.396926239868 0.401749749996 0.076 0.0255538478257 0.02895 0.0311220819814 0.0722 Chr9 26793321

N00007 4600000 4800000 0.6538945 scaffold\_56 2727894 2925442 0.00365094120395 0.0007246314371 0.00365916638321 0.000727989001607 0.378137340294 0.38499013287 0.05835 0.0360469354284 0.01149 0.0086763723247 0.077 Chr9 26793321

N00007 4800000 5000000 0.6538945 scaffold\_56 2925442 3129845 0.00396083468699 0.000512935066142 0.00397099791383 0.000514112524563 0.381552365492 0.387823533393 0.03679 0.0341139807146 0.00288 0.00283753173877 0.045 Chr9 26793321

N00007 5000000 5200000 0.6538945 scaffold\_56 3129845 3337646 0.00435853907498 0.000826369377084 0.00435853907498 0.000826369377084 0.370585830324 0.377541222265 0.031395 0.0230508996588 0 0 NA Chr9 26793321

N00007 5200000 5400000 0.6538945 scaffold\_56 3337646 3544682 0.00433239168321 0.000753916408753 0.00435089720156 0.000756732345926 0.377418912815 0.388174424051 0.05681 0.0438860874437 0.00387 0.00375297049788 0.068 Chr9 26793321

N00007 5400000 5600000 0.6538945 scaffold\_56 3544682 3732402 0.00384895776786 0.000585289881895 0.00387965023669 0.000592992535344 0.39331472896 0.401208250253 0.059335 0.0255220541232 0.015295 0.0158693799276 0.113 Chr9 26793321

N00007 5600000 5800000 1.786476 scaffold\_56 3732402 3921769 0.00363381487636 0.000584900255791 0.00363381487636 0.000584900255791 0.379978052512 0.387713776099 0.0469 0.0218623096949 0 0 NA Chr9 26793321

N00007 5800000 6000000 2.504698 scaffold\_56 3921769 4114686 0.00277075481031 0.000667453213754 0.00277358958786 0.000669650956328 0.415326804828 0.428764419153 0.077945 0.0153952217793 0.014425 0.00655722409119 0.0115 Chr9 26793321

N00007 6000000 6200000 2.504698 scaffold\_56 4114686 4309676 0.0034069940578 0.000727563360788 0.0034069940578 0.000727563360788 0.382072679766 0.384748045201 0.060335 0.0382327298836 0 0 NA Chr9 26793321

N00007 6200000 6400000 2.504698 scaffold\_56 4309676 4515819 0.00414399290383 0.000704895603825 0.00418046810513 0.000709254616439 0.380541890524 0.385466870626 0.035215 0.0246042795535 0.010345 0.00999791406936 0.0865 Chr9 26793321

N00007 6400000 6600000 3.275494 scaffold\_56 4515819 4717037 0.00371587091071 0.00101827590364 0.00380927765605 0.00104449148408 0.37746001048 0.378270330729 0.06 0.0341818326392 0.036995 0.0407915792822 0.08475 Chr9 26793321

N00007 6600000 6800000 3.337662 scaffold\_56 4718091 4914036 0.00363840693621 0.000979056914286 0.00368882523381 0.00100529141848 0.438029103741 0.434676295658 0.04912 0.0134476511266 0.028655 0.0291612442267 0.0405 Chr9 26793321

N00007 6800000 7000000 1.330751 scaffold\_56 4914036 5109400 0.00349961193743 0.000800511596074 0.00363810464681 0.00084252117496 0.467863100374 0.465479838458 0.047085 0.014772424807 0.06304 0.0582758338281 0.0615 Chr9 26793321

N00007 7000000 7200000 1.236677 scaffold\_56 5109400 5298129 0.00335013678081 0.000744598089005 0.00339545962728 0.000757216495945 0.476126047731 0.47894107397 0.064 0.0202671555511 0.01143 0.0255869527206 0.055 Chr9 26793321

N00007 7600000 7800000 5.068182 scaffold\_27 174549 365264 0.00371072636367 0.00122133357974 0.00372040370428 0.00122365357559 0.444571748092 0.449077867762 0.055135 0.0255145111816 0.004225 0.00248538394987 0.018 Chr9 26793321

N00007 7800000 8000000 4.59257 scaffold\_27 365264 560161 0.00424346876249 0.00111549577442 0.00425882502757 0.00112122083104 0.441501080202 0.448771305066 0.058595 0.0215960225145 0.00898 0.0087584724239 0.07 Chr9 26793321

N00007 8000000 8200000 1.058824 scaffold\_27 560161 758834 0.00378173545357 0.00103150366656 0.00380258340689 0.0010414303958 0.440390005303 0.446522724302 0.065435 0.04595994423 0.017065 0.0135750705934 0.106 Chr9 26793321

N00007 8200000 8400000 1.192416 scaffold\_27 758834 945444 0.00400682785291 0.00102608964627 0.00404057134933 0.00103308024216 0.47578294363 0.488283654868 0.059045 0.017876855474 0.02124 0.0211028347891 0.1002 Chr9 26793321

N00007 8400000 8600000 1.6691 scaffold\_27 945444 1136050 0.00383151615951 0.000987186718418 0.00383805865592 0.000990078800888 0.454364599296 0.460365095243 0.048705 0.0165104980955 0.006745 0.00729777656527 0.105 Chr9 26793321

N00007 8600000 8800000 1.395068 scaffold\_27 1136051 1325556 0.00296140484761 0.00100137079642 0.00296852945836 0.00100464894082 0.441711264601 0.447940919291 0.046985 0.0170021899158 0.0036 0.0038152027651 0.106 Chr9 26793321

N00007 8800000 9000000 2.965192 scaffold\_27 1325556 1522113 0.00315572985109 0.000889859691583 0.00315572985109 0.000890989325107 0.440451347015 0.440342926361 0.04149 0.0237946244601 0.00082 0.00563195408965 0.106 Chr9 26793321

N00007 9000000 9200000 3.425308 scaffold\_27 1522113 1710985 0.00320066948444 0.000881585284553 0.00320066948444 0.000881585284553 0.465280626617 0.468670285302 0.065005 0.0261393959931 0 0 NA Chr9 26793321

N00007 9200000 9400000 3.340101 scaffold\_27 1710985 1900567 0.00318913443912 0.00091092589923 0.00319541587816 0.000929240198102 0.494071375871 0.498198014228 0.061985 0.0316274751822 0.032555 0.0353778312287 0.0974 Chr9 26793321

N00007 9400000 9600000 1.120824 scaffold\_27 1900567 2091876 0.0036503355557 0.000876508149706 0.00377531655411 0.00091755859953 0.492234945369 0.506264801615 0.05391 0.0101981610902 0.0909 0.11838962098 0.0798888888889 Chr9 26793321

N00007 9600000 9800000 1.455316 scaffold\_27 2091876 2289081 0.00403912436699 0.00103179595634 0.00417972307499 0.00108112835803 0.411234702127 0.409617218363 0.034685 0.0245379173956 0.047955 0.0536396136001 0.0904 Chr9 26793321

N00007 9800000 10000000 0.7341176 scaffold\_27 2289081 2477542 0.00344318049309 0.00107421201032 0.00351238651868 0.00109915133337 0.507565263402 0.513566169921 0.09815 0.0172078042672 0.02743 0.0277192628714 0.0808 Chr9 26793321

N00007 10000000 10200000 0.7341176 scaffold\_27 2477542 2672425 0.00340966343544 0.000765950818379 0.00343551389672 0.000776477278817 0.449133065378 0.449945453881 0.029395 0.0159377677889 0.01268 0.0194834849628 0.044 Chr9 26793321

N00007 10200000 10400000 0.7341176 scaffold\_27 2672425 2864054 0.00382757006567 0.000875523358242 0.00400462505994 0.000916588945522 0.468974659665 0.474797495878 0.04725 0.0176278120744 0.10864 0.111538441468 0.0945454545455 Chr9 26793321

N00007 10400000 10600000 1.843015 scaffold\_27 2864054 3057694 0.00341395799965 0.000902744699022 0.00359986888446 0.000956855663859 0.446075424733 0.446152865725 0.06585 0.0276285891345 0.07159 0.0734145837637 0.031 Chr9 26793321

N00007 10800000 11000000 2.442029 scaffold\_27 3240365 3438515 0.00260315452111 0.000895384375458 0.00262876498142 0.000908232274574 0.492085183314 0.495332675493 0.043285 0.025379762806 0.00859 0.00866010598032 0.0515 Chr9 26793321

N00007 11000000 11200000 1.299986 scaffold\_27 3438515 3630750 0.00376961741939 0.000959265202693 0.00384525551964 0.000989028077809 0.408087688169 0.409237361415 0.05317 0.0316383592998 0.039915 0.0489192914922 0.0828333333333 Chr9 26793321

N00007 11200000 11400000 0.9201416 scaffold\_27 3630750 3836213 0.00329168072375 0.00105430640971 0.00340905612909 0.00110111401462 0.404032172153 0.401616511669 0.035045 0.0213858456267 0.053075 0.0504129697318 0.047 Chr9 26793321

N00007 11400000 11600000 0.8528045 scaffold\_27 3836213 4034347 0.00325715371591 0.00111382443971 0.00326239464242 0.00111417115534 0.410237916094 0.410278427642 0.026 0.023342788214 0.00157 0.000393672968799 NA Chr9 26793321

N00007 11600000 11800000 0.6598746 scaffold\_27 4034347 4235392 0.00367693824019 0.00106659510489 0.00367693824019 0.00106659510489 0.396884590769 0.400018629587 0.03377 0.0129921161929 0 0 NA Chr9 26793321

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N00007 12000000 12200000 0.6479143 scaffold\_27 4428540 4631664 0.00350112730541 0.00129039423911 0.00355084033957 0.00130884593217 0.379505634506 0.379137963896 0.05983 0.0336444733266 0.021645 0.0191065556015 0.068 Chr9 26793321

N00007 12200000 12400000 0.6371951 scaffold\_27 4631664 4835225 0.00389864466835 0.0011652698054 0.00393505426678 0.00118089734033 0.389302773777 0.392288089918 0.03292 0.0235261174783 0.01177 0.019497840942 0.0835 Chr9 26793321

N00007 12400000 12600000 1.268784 scaffold\_27 4835225 5033875 0.00343013157713 0.0010254124229 0.00355382381041 0.00106166049574 0.406071520741 0.407080532989 0.04845 0.0291769443745 0.052385 0.0534507928517 0.0572 Chr9 26793321

N00007 12600000 12800000 3.892937 scaffold\_27 5033875 5243008 0.00342244664641 0.00119388170866 0.00348876269764 0.0012222799967 0.433489780162 0.440120034696 0.045095 0.032013120837 0.02433 0.0234970090803 0.0605 Chr9 26793321

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N00007 13000000 13200000 2.350585 scaffold\_27 5435640 5617858 0.0036573458924 0.00109722762339 0.0036573458924 0.00109722762339 0.437490348594 0.441710454191 0.096895 0.0292726294878 0 0 0.035 Chr9 26793321

N00007 13200000 13400000 4.559137 scaffold\_27 5617858 5822604 0.00404355435611 0.00101385230446 0.00407678194897 0.00102225914838 0.395436256632 0.405683823213 0.062685 0.0322008732771 0.007695 0.00761919646782 0.035 Chr9 26793321

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N00139 600000 800000 2.13017 scaffold\_91 1187433 1388268 0.00374148548262 0.000345524141291 0.00379700658349 0.00034896184017 0.40117225313 0.422714186439 0.07566 0.0206039783902 0.01819 0.0165708168397 0.06275 Chr10 21346708

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N00139 1400000 1600000 10.72099 scaffold\_91 421506 609844 0.00325622967902 0.000934416065472 0.00325720400684 0.000936645552311 0.521219245948 0.532839314 0.076105 0.0293567946989 0.00975 0.00978028863002 0.034 Chr10 21346708

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N00037 7000000 7200000 2.430507 scaffold\_13 11120520 11306078 0.00253983710177 0.00137362961405 0.00253983710177 0.0013763088356 0.422816857694 0.422101142615 0.054785 0.0251242199205 0 0.00252212246306 0.066 Chr10 21346708

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N00033 5400000 5600000 2.052006 scaffold\_13 2903992 3100854 0.00373278360436 0.000818335843026 0.0039055515458 0.000860730355131 0.383380547686 0.388667075287 0.071275 0.0285529965153 0.056675 0.0561713281385 0.076 Chr10 21346708

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N00033 8000000 8200000 13.08009 scaffold\_13 5849366 6036215 0.00350418063279 0.000871588292006 0.00351306131468 0.000873823949035 0.458123269291 0.470219717298 0.10568 0.0463796969746 0.003245 0.00435645895884 0.114 Chr10 21346708

N00033 8200000 8400000 9.146146 scaffold\_13 5657212 5849366 0.00358847832368 0.00117857803876 0.00359453948239 0.00117942887252 0.471241048146 0.478362137493 0.08195 0.0431737044246 0.01258 0.00884186641964 0.091 Chr10 21346708

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N00025 7400000 7600000 3.480969 scaffold\_25 12238009 12435508 0.00287283754414 0.000924490565992 0.00292345600994 0.000955096647424 0.427397947803 0.431667795845 0.071365 0.0237570823143 0.042335 0.0426837604241 0.0754285714286 Chr11 21727166

N00025 7600000 7800000 2.574818 scaffold\_25 12040319 12238009 0.00344880481517 0.0011609182371 0.00352673558074 0.00118686055236 0.433850571539 0.446651856202 0.05614 0.025909251859 0.040435 0.0437351408771 0.0764 Chr11 21727166

N00025 7800000 8000000 0.612987 scaffold\_25 11834430 12040319 0.00321684051451 0.000939404705346 0.00326674915314 0.000961787794366 0.381264676195 0.386242131586 0.03988 0.028588219866 0.032245 0.0327895127957 0.105 Chr11 21727166

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N00025 8600000 8800000 0.9093178 scaffold\_25 11032110 11226612 0.00221882168498 0.000946772882603 0.00221882168498 0.000946772882603 0.40688244986 0.414075914806 0.05826 0.0132646450936 0.003805 0 NA Chr11 21727166

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N00025 9200000 9400000 0.1125414 scaffold\_25 10438850 10632757 0.000712438162228 0.00068389884118 0.000712438162228 0.00068389884118 0.395038237961 0.399370292304 0.048455 0.0161314444553 0 0 NA Chr11 21727166

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N00061 400000 600000 0.1125414 scaffold\_25 9055904 9255625 0.000946444875533 0.000937116969795 0.000946444875533 0.000937116969795 0.36204150775 0.366246898456 0.03677 0.0127828320507 0 0 NA Chr11 21727166

N00061 600000 800000 0.1125414 scaffold\_25 8863544 9055904 0.00121415219131 0.00102131849846 0.00122637874907 0.00104155698919 0.382919634907 0.394755653576 0.077915 0.0272717820753 0.019615 0.0204148471616 0.044 Chr11 21727166

N00061 800000 1000000 0.1125414 scaffold\_25 8657880 8863544 0.00180743842438 0.00106282181592 0.00183554993421 0.00108517534099 0.390763478349 0.397612390905 0.03583 0.0147035942119 0.02334 0.0221477750117 0.0625 Chr11 21727166

N00061 1000000 1200000 0.1125414 scaffold\_25 8460715 8657880 0.00174151105159 0.000736134190735 0.00174599677615 0.000738111957482 0.395063153642 0.398218011676 0.047515 0.0240813531813 0.003545 0.0026576725078 0.062 Chr11 21727166

N00061 1200000 1400000 0.1125414 scaffold\_25 8266713 8460715 0.00201958467474 0.00111938301688 0.00207395291767 0.00115588289443 0.378885816055 0.379480548066 0.05865 0.0180771332254 0.03317 0.0344274801291 0.0436666666667 Chr11 21727166

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N00061 1600000 1800000 0.3711256 scaffold\_25 7876992 8074664 0.00222695836338 0.000882836393145 0.00225069864869 0.000896508536164 0.409002685385 0.411661601299 0.04926 0.0211714355093 0.017915 0.0181462220244 0.028 Chr11 21727166

N00061 1800000 2000000 0.3711256 scaffold\_25 7683824 7876992 0.00318108677969 0.000909156987776 0.00318532127707 0.000909156987776 0.390195960666 0.400855361302 0.062665 0.0289126563406 0.002865 0 NA Chr11 21727166

N00061 2000000 2200000 0.3711256 scaffold\_25 7490353 7683824 0.00330737030376 0.00116828508859 0.00332519375023 0.00118221763694 0.368488963218 0.370854604373 0.069945 0.0470664854164 0.013795 0.0130097017124 0.09 Chr11 21727166

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N00061 2600000 2800000 0.3711256 scaffold\_25 6905680 7102102 0.00316667856336 0.00108478885166 0.003300213764 0.0011344947999 0.400235276479 0.409379153663 0.08778 0.0295384427406 0.060245 0.0571219109876 0.06275 Chr11 21727166

N00061 2800000 3000000 5.065061 scaffold\_25 6700034 6905680 0.00402370680181 0.00117529399219 0.00402455691992 0.00117743631393 0.382554941537 0.393828928525 0.07479 0.0447516606207 0.003045 0.00360327942192 0.12 Chr11 21727166

N00061 3000000 3200000 5.709268 scaffold\_25 6500357 6700034 0.00350726394437 0.00106371839792 0.00350817656998 0.00106470209428 0.402891850939 0.41187436507 0.04405 0.0183846912764 0.0011 0.00132213524843 NA Chr11 21727166

N00061 3200000 3400000 3.178423 scaffold\_25 6314629 6500357 0.00380983551891 0.00107062472429 0.00366653865684 0.00108285179178 0.43272213233 0.445455806373 0.11125 0.0357404376292 0.02355 0.021596097519 0.0875 Chr11 21727166

N00061 3400000 3600000 2.544502 scaffold\_25 6123877 6314629 0.00247677026314 0.000930757275973 0.00248228243339 0.000939002003261 0.402922986713 0.410243108645 0.07766 0.0220810266734 0.00664 0.00698288877705 NA Chr11 21727166

N00061 3600000 3800000 6.486819 scaffold\_25 5928591 6123877 0.0027665698416 0.000836754368839 0.00279779171359 0.000846770802382 0.390206592188 0.393358883021 0.05585 0.0192845365259 0.01954 0.019991192405 0.044 Chr11 21727166

N00061 3800000 4000000 7.554072 scaffold\_25 5746870 5928591 0.00294551065716 0.000876139742669 0.00294551065716 0.000876364547533 0.41342957382 0.42336571454 0.093285 0.0338816097204 0 0.00129869415202 NA Chr11 21727166

N00061 4000000 4200000 1.644909 scaffold\_25 5560046 5746870 0.00304830771541 0.000863934291207 0.00304786084556 0.000863934291207 0.403267564406 0.416693132413 0.08195 0.0325868196806 0.004885 0 NA Chr11 21727166

N00061 4200000 4400000 6.60451 scaffold\_25 5371256 5559986 0.00305355245548 0.000933698591234 0.00308417358444 0.000945746011275 0.395463220836 0.408673483681 0.091935 0.0284162560271 0.015825 0.0160387855667 0.037 Chr11 21727166

N00061 4400000 4600000 1.648202 scaffold\_25 5179617 5371256 0.00328927550142 0.00116563525827 0.00328927550142 0.00116563525827 0.377113725238 0.382999240102 0.04441 0.0245565881684 0 0 NA Chr11 21727166

N00061 4600000 4800000 3.216393 scaffold\_25 4986317 5179617 0.00358595316761 0.00130263389364 0.00361762002734 0.00130915851786 0.36867881611 0.377465956124 0.040405 0.0350387997931 0.01142 0.0115519917227 0.055 Chr11 21727166

N00061 4800000 5000000 1.856288 scaffold\_25 4796346 4986317 0.00372044317483 0.00112182051842 0.00392577581266 0.00119416721379 0.385359175117 0.392944119398 0.089005 0.0393165272594 0.07399 0.0793278974159 0.0535 Chr11 21727166

N00147 400000 600000 8.125793 scaffold\_25 3387581 3578035 0.00371084598722 0.00106236951226 0.00374740929868 0.00107390511514 0.390002987956 0.398071082337 0.085135 0.0670660631964 0.011985 0.0130897749588 0.071 Chr11 21727166

N00147 800000 1000000 6.003959 scaffold\_25 3761164 3946176 0.00364306702483 0.00121174460802 0.00364306702483 0.00121174460802 0.400335255544 0.407044785033 0.12688 0.0833567552375 0 0 NA Chr11 21727166

N00147 1000000 1200000 4.072208 scaffold\_25 3946176 4135666 0.0036686277256 0.00124702437114 0.0036686277256 0.00124702437114 0.399492816754 0.413789510628 0.086385 0.0477175576548 0 0 NA Chr11 21727166

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N00147 1400000 1600000 4.244015 scaffold\_25 4321677 4510976 0.0034240893624 0.00117849276695 0.00346151391284 0.00119609653294 0.408109455492 0.414652038897 0.06684 0.0233017607066 0.018385 0.0194824061406 0.099 Chr11 21727166

N00097 800000 1000000 3.6157 scaffold\_25 2211538 2408475 0.00392412711561 0.00124431095667 0.00392412711561 0.00124431095667 0.414612849003 0.425278360587 0.098255 0.0610652137486 0 0 NA Chr11 21727166

N00097 2200000 2400000 5.462511 scaffold\_25 1024802 1216004 0.00416540889721 0.00119334404331 0.00422367628566 0.00121085793695 0.391549598583 0.40049601256 0.10341 0.0353343584272 0.022575 0.0191577493959 0.067 Chr11 21727166

N00097 2600000 2800000 4.237442 scaffold\_25 618122 829983 0.00402558534901 0.00124530801337 0.00404281011277 0.00125027496835 0.411313007637 0.41091709909 0.07109 0.0814449096341 0.00474 0.0044179910413 0.069 Chr11 21727166

N00097 2800000 3000000 3.705899 scaffold\_25 422914 618122 0.00388192931841 0.00110660054505 0.00389525141375 0.00111133886601 0.424589456668 0.436783999912 0.075745 0.0245430515143 0.01042 0.00722818736937 0.0473333333333 Chr11 21727166

N00141 1400000 1600000 7.124043 scaffold\_72 1349453 1542590 0.00391103447262 0.0011434877731 0.00393365208631 0.00115275481586 0.445454343306 0.452401891645 0.078985 0.0455065575213 0.01095 0.0127992047096 0.062 Chr12 21938106

N00282 0 200000 9.063949 scaffold\_72 2766106 2950231 0.00441242970592 0.00148396451218 0.0044246903701 0.00149052860429 0.422729015168 0.433315600171 0.12919 0.0398642226748 0.004025 0.00721792260692 0.095 Chr12 21938106

N00195 0 200000 2.907242 scaffold\_12 914098 1097490 0.00431106803458 0.00114944317438 0.00433368873384 0.00115659118838 0.41721226248 0.424504868517 0.085175 0.022890856744 0.00898 0.012236084453 0.117 Chr12 21938106

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N00195 400000 600000 3.597015 scaffold\_12 541362 731931 0.00381547172686 0.00114079610202 0.00392407883529 0.00118724685219 0.471826603155 0.472194019491 0.06924 0.032319002566 0.05985 0.0606709380854 0.0672 Chr12 21938106

N00247 0 200000 3.911531 scaffold\_12 1097614 1281566 0.00423249161463 0.00114154424639 0.00424147524334 0.00114761737563 0.448165016242 0.448843911705 0.07109 0.0191843524398 0.009405 0.0106984430721 0.0745 Chr12 21938106

N00247 200000 400000 5.858039 scaffold\_12 1281566 1464293 0.00370314456701 0.00103014754164 0.0037048165645 0.00103107780503 0.462306663901 0.462906812209 0.10868 0.043923448642 0.000765 0.00108358370684 NA Chr12 21938106

N00279 200000 400000 3.626239 scaffold\_12 1803918 1996548 0.00448625935194 0.000993493452107 0.00448625935194 0.000993493452107 0.416178964654 0.414025790117 0.053445 0.0198359549395 0 0 NA Chr12 21938106

N00057 0 200000 0.5991091 scaffold\_12 7031821 7218556 0.000663975292647 0.000941893691996 0.000666626497351 0.000951338077169 0.446221694513 0.44366372061 0.08339 0.0273864031917 0.0094 0.0165742897689 0.213 Chr12 21938106

N00057 200000 400000 0.5991091 scaffold\_12 6838421 7031821 0.0011363123629 0.00111022473579 0.0011363123629 0.00111022473579 0.450006687532 0.447769262569 0.05643 0.0324560496381 0 0 NA Chr12 21938106

N00057 400000 600000 1.19203 scaffold\_12 6636417 6838421 0.00144032284162 0.000919461156725 0.0014409789938 0.000925582288236 0.484368837316 0.477657066446 0.04865 0.0268262014614 0.01686 0.0166778875666 0.052 Chr12 21938106

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N00217 200000 400000 1.012167 scaffold\_101 936336 1147363 0.00072811673827 0.000404285823756 0.00072540667911 0.000405384447002 0.409587342818 0.403693038444 0.13348 0.106825192985 0.00381 0.00535950376018 0.156 Chr13 18641552

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N00100 800000 1000000 3.393443 scaffold\_57 4514129 4706814 0.00454069544993 0.000705369786479 0.00460247639283 0.00071477572753 0.36354439251 0.371710617071 0.078875 0.0504709759452 0.01499 0.0141837714404 0.057 Chr13 18641552

N00100 1000000 1200000 3.393443 scaffold\_57 4295050 4514129 0.00515065476935 0.0012360277159 0.00518290574227 0.00124544338834 0.36856400191 0.373212390446 0.078955 0.0921859237992 0.007105 0.00630822671274 NA Chr13 18641552

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N00100 2000000 2200000 1.996283 scaffold\_57 3205160 3394226 0.00386451448552 0.00108561413904 0.00386451448552 0.00108561413904 0.37011667897 0.374696932801 0.055195 0.0626765256577 0 0 NA Chr13 18641552

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N00100 2600000 2800000 1.996283 scaffold\_57 2619317 2809576 0.00361681383207 0.00111063184147 0.00361681383207 0.00111063184147 0.383719737659 0.385500708786 0.05119 0.023767601007 0 0 NA Chr13 18641552

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N00028 1600000 1800000 0 scaffold\_15 7117122 7310548 0.00319251229572 0.000928748335713 0.00320667672203 0.000932764561309 0.389508614912 0.391127455643 0.046515 0.0277728950606 0.00719 0.00688118453569 0.055 Chr14 17374186

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N00028 4800000 5000000 8.089961 scaffold\_15 3996036 4192841 0.00440030112133 0.00171627328534 0.00440030112133 0.00171952458155 0.383166077663 0.391015832536 0.058895 0.0467874291812 0 0.00193592642463 NA Chr14 17374186

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N00028 5400000 5600000 7.046174 scaffold\_15 3432524 3620430 0.00405447118048 0.00124032304382 0.00405447118048 0.0012406309752 0.401491782413 0.414817905875 0.12531 0.039785850372 0 0.000175619724756 NA Chr14 17374186

N00028 5600000 5800000 10.07877 scaffold\_15 3250155 3432524 0.00472265038665 0.00129128215869 0.00472197824465 0.00129396473451 0.409693626132 0.430864620183 0.077375 0.0237595205325 0.002505 0.00434284335605 0.352 Chr14 17374186

N00028 5800000 6000000 5.286357 scaffold\_15 3069793 3250149 0.00355803957498 0.000960763503491 0.00373472039865 0.00101827051987 0.433222227876 0.450805245358 0.105195 0.0426268047639 0.06249 0.074325223447 0.13425 Chr14 17374186

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N00028 6600000 6800000 4.446154 scaffold\_15 2329160 2518596 0.00347930311134 0.00114459061901 0.00355475041291 0.00117862132393 0.435714542384 0.441030700346 0.09711 0.0524609894635 0.046505 0.0459363584535 0.068 Chr14 17374186

N00036 1000000 1200000 0.5107692 scaffold\_15 9999986 10196547 0.00116688833832 0.00100141915076 0.00118939905133 0.00105511782734 0.482555448752 0.484624322005 0.077085 0.0468912958318 0.06649 0.0677753979681 0.0955 Chr14 17374186

N00036 1200000 1400000 0.5107692 scaffold\_15 10196547 10389141 0.00138526971237 0.00105815796628 0.0013854139328 0.00106857781106 0.490940980049 0.493760044334 0.08197 0.0332564877411 0.016145 0.0162518043137 0.03225 Chr14 17374186

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N00036 1600000 1800000 1.159032 scaffold\_15 10582175 10769486 0.000767722099801 0.00115940019858 0.000796617591711 0.00119906069252 0.488791839726 0.494348494964 0.08991 0.0366823091009 0.049625 0.0451762042806 0.052 Chr14 17374186

N00036 1800000 2000000 0.1108857 scaffold\_15 10769486 10953837 0.000468427010334 0.00119173104865 0.000482668187352 0.00124151182479 0.501085410085 0.50418980249 0.124385 0.0350201517757 0.08764 0.0958714625904 0.0724285714286 Chr14 17374186

N00036 2000000 2200000 0.1108857 scaffold\_15 10954120 11141220 0.000739532991169 0.0011219530129 0.000716198458744 0.00114134159854 0.451393331604 0.449776721654 0.07429 0.0331640833779 0.03317 0.0344575093533 0.0926666666667 Chr14 17374186

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N00036 2600000 2800000 0.1108857 scaffold\_15 11518216 11713092 0.00103399699899 0.00104591897303 0.00103992368021 0.00108466899937 0.426327918291 0.427907029312 0.063075 0.0233481803814 0.05221 0.0533262176974 0.0642 Chr14 17374186

N00036 2800000 3000000 0.1108857 scaffold\_15 11713092 11905296 0.0012020251443 0.00112050966243 0.00121047359746 0.00113975063839 0.489492570757 0.489534511999 0.051865 0.0135793219704 0.02552 0.0288911781232 0.0594 Chr14 17374186

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N00036 3600000 3800000 2.047872 scaffold\_15 12501184 12693207 0.00253790616982 0.00102418891934 0.00261146852336 0.0010768291991 0.492389122959 0.493676572611 0.05729 0.0224035662395 0.063935 0.0653984158148 0.048 Chr14 17374186

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N00012 4200000 4400000 10.16502 scaffold\_68 3219906 3407414 0.00377430788038 0.000974512261825 0.00383057793326 0.000994815138516 0.467281633919 0.480827008453 0.098885 0.0242336326983 0.043995 0.0484192674446 0.0752 Chr15 14943019

N00012 5000000 5200000 2.970696 scaffold\_68 2484918 2680865 0.00210093158446 0.00109951538427 0.00210093158446 0.00109951538427 0.472444042115 0.455594778754 0.086355 0.0473801589205 0 0 NA Chr15 14943019

N00012 5200000 5400000 2.387552 scaffold\_68 2290334 2484918 0.00185268700853 0.00102060383159 0.00186801888421 0.00102951637082 0.437812379331 0.427485450226 0.05656 0.0228538831559 0.027215 0.0283065411339 0.099 Chr15 14943019

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N00012 6000000 6200000 0 scaffold\_29 2237416 2428645 0.00157971816266 0.000886816484035 0.00159106799336 0.000898077033274 0.429396480256 0.430118902002 0.074225 0.0183497272903 0.018305 0.0191707324726 0.06225 Chr15 14943019

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N00012 7600000 7800000 3.467351 scaffold\_29 3792575 3987758 0.00230380151733 0.000925559676165 0.00231537674284 0.000934808690548 0.438848185014 0.442937674517 0.036035 0.0135513851104 0.01572 0.0172607245508 0.043 Chr15 14943019

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N00012 8000000 8200000 5.81202 scaffold\_29 4180391 4377828 0.00304137104716 0.00113415577858 0.00304137104716 0.00113415577858 0.444177608935 0.449396078431 0.043715 0.0127838247137 0 0 NA Chr15 14943019

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N00012 8400000 8600000 0 scaffold\_29 4567686 4760962 0.00326437267103 0.00112842832841 0.00326598382885 0.00113002299326 0.431573587368 0.434077527375 0.04758 0.0187866056831 0.00211 0.00216788426913 0.123 Chr15 14943019

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N00012 12600000 12800000 1.319671 scaffold\_29 8523792 8718336 0.00290208647278 0.00115740216932 0.0029122404903 0.00116907727751 0.505335774863 0.506870505373 0.053145 0.0113855991447 0.036925 0.036331112756 0.1025 Chr15 14943019

N00012 12800000 13000000 3.37326 scaffold\_29 8718336 8905935 0.00292367329839 0.00127648929533 0.00292381396265 0.00127708582472 0.500397663385 0.502821838384 0.08944 0.0187207820937 0.00304 0.00377400732413 0.105 Chr15 14943019

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N00138 0 200000 0.5745657 scaffold\_28 2963480 3146165 0.00165943142167 0.000950143141169 0.00166668071596 0.000960809722348 0.458593594938 0.455853169104 0.07581 0.0365711470564 0.02191 0.0245778252183 0.061 Chr17 12378331

N00138 200000 400000 1.62183 scaffold\_28 2778556 2963480 0.00244448447618 0.000977460749666 0.00244448447618 0.000977921736114 0.446698547539 0.448515989059 0.13957 0.0839696307672 0.00198 0.00214682788605 0.061 Chr17 12378331

N00224 200000 400000 0 scaffold\_28 3554056 3739164 0.000814884400754 0.00122181135454 0.000816393277258 0.00123468261898 0.466445252781 0.466364200881 0.10468 0.0587656935411 0.001355 0.0136785011993 0.145 Chr17 12378331

N00224 400000 600000 0 scaffold\_28 3368198 3554056 0.00103863364742 0.00112339488595 0.00103868422015 0.001123763985 0.50302617246 0.499979880085 0.12632 0.0632902538497 0.003665 0.00387930570651 NA Chr17 12378331

N00039 0 200000 0 scaffold\_28 3892298 4079435 0.000944247684698 0.00117800209143 0.000943752273009 0.00117795788611 0.44814551639 0.457299123664 0.108085 0.0656257180568 0.005725 0.0122156494974 0.035 Chr17 12378331

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N00039 1400000 1600000 0.6927395 scaffold\_28 5241900 5437053 0.00248576653183 0.00108092287615 0.00273352902574 0.00120208899485 0.426771754044 0.430863366579 0.06548 0.0347778409761 0.118765 0.129155073199 0.0842857142857 Chr17 12378331

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N00039 1800000 2000000 0.5816796 scaffold\_28 5631388 5814114 0.00295270975882 0.000866086419405 0.00296447717081 0.000871091485857 0.536794930862 0.540911997807 0.10495 0.0269091426507 0.015295 0.0167846940227 0.061 Chr17 12378331

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N00039 2400000 2600000 7.504308 scaffold\_28 6186949 6375343 0.00346708008886 0.00107972164148 0.00354859414055 0.00111918597965 0.478124922142 0.485475471121 0.06932 0.0149633215495 0.080375 0.0826618682124 0.0644 Chr17 12378331

N00039 2600000 2800000 4.34758 scaffold\_28 6375343 6564854 0.0032126590609 0.00103692596361 0.00334112308757 0.00110648428901 0.471275202292 0.473039040328 0.0871 0.0284521742801 0.073345 0.0792249526413 0.0783333333333 Chr17 12378331

N00039 2800000 3000000 5.168702 scaffold\_28 6564854 6751323 0.00336386321774 0.00105467391079 0.00337220727895 0.00105930365824 0.443184396841 0.446441036604 0.074055 0.0370356466759 0.00896 0.00963162777727 0.0445 Chr17 12378331

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N00039 5600000 5800000 5.33866 scaffold\_28 9081607 9275434 0.0031820926648 0.000997795932972 0.00320779097382 0.00101711107954 0.46973108577 0.475103990313 0.08284 0.024913969674 0.026015 0.0296088780201 0.0543333333333 Chr17 12378331

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N00188 1000000 1200000 NA scaffold\_70 126045 315987 0.00194811593379 0.000520980365323 0.00195197354886 0.000522199953062 0.451297236323 0.451431657929 0.13709 0.0577386781228 0.011075 0.00393277948005 0.083 Chr18 13235786

N00068 800000 1000000 5.174727 scaffold\_70 2823853 3008760 0.00389942407412 0.00134540094216 0.00396283454413 0.0013687886571 0.403029728783 0.404055425597 0.051715 0.0283493864483 0.027005 0.02987447744 0.0873333333333 Chr18 13235786

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N00072 400000 600000 0.19221 scaffold\_60 1295222 1508079 0.000951106322385 0.00092908644822 0.00096426352947 0.000948583441722 0.404883702552 0.408622849303 0.05114 0.0606792353552 0.02607 0.0273094143016 0.06725 Chr18 13235786

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N00072 1000000 1200000 0.19221 scaffold\_60 673836 882549 0.00185267041573 0.000651633225401 0.00186401988565 0.000662924764628 0.440632451825 0.444677570613 0.040865 0.0492925692219 0.01544 0.0151595731938 0.0495 Chr18 13235786

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N00072 1400000 1600000 0.04337899 scaffold\_60 286208 473332 0.00158322382618 0.000284199585524 0.00165595260331 0.000313264915264 0.416507618049 0.421154957384 0.080965 0.0392520467711 0.088325 0.09835723905 0.0652 Chr18 13235786

N00072 1600000 1800000 0.04337899 scaffold\_60 91724 286208 0.00205955415894 0.000270095602316 0.002157498295 0.000287189345508 0.400592724483 0.404084775722 0.059965 0.0298019374344 0.07119 0.0744739927192 0.0784 Chr18 13235786

N00072 2000000 2200000 0.7043011 scaffold\_78 2130067 2321265 0.00252400451053 0.000169901931604 0.00261025168716 0.000177332108945 0.408142458661 0.415169064708 0.068375 0.0268046736891 0.044285 0.0464910720823 NA Chr18 13235786

N00072 2200000 2400000 1.317151 scaffold\_78 1928597 2130067 0.00318984811526 0.000494330209136 0.00321778558889 0.0005004081995 0.415713410967 0.420550785351 0.04807 0.0655879287239 0.01342 0.0133518638011 NA Chr18 13235786

N00072 2400000 2600000 5.429123 scaffold\_78 1735246 1928597 0.00339079077189 0.000622628024313 0.00341682602842 0.00063387944831 0.400236219595 0.41100909356 0.070455 0.0423685421849 0.020545 0.0208687826802 NA Chr18 13235786

N00162 0 200000 3.798889 scaffold\_107 11340 207399 0.000665003702586 0.000510059147544 0.000706503613726 0.00055035377763 0.402125903383 0.418127002073 0.11083 0.0524842011843 0.09055 0.0981133230303 0.0718888888889 Chr18 13235786

N00114 1600000 1800000 6.770891 scaffold\_73 1364660 1550684 0.00310005197166 0.00107131659689 0.00310005197166 0.00107157373255 0.457328045663 0.462555953447 0.105845 0.0547940050746 0 0.000161269513611 NA Chr19 11933672

N00169 1000000 1200000 2.954807 scaffold\_40 7539583 7737474 0.00177856344603 0.000985934862387 0.00180432744215 0.00101687332371 0.44428663654 0.448967072416 0.084225 0.0511342102471 0.035355 0.040865931245 0.094 Chr19 11933672

N00169 1200000 1400000 2.848614 scaffold\_40 7345956 7539583 0.00176142298703 0.00108626615456 0.0017862147828 0.00111387252332 0.418770135873 0.422276464543 0.07737 0.0311165281701 0.026855 0.0293605747132 0.0896666666667 Chr19 11933672

N00281 200000 400000 6.056138 scaffold\_40 6984622 7166937 0.00178086491189 0.00109389331653 0.0018328957161 0.00114004189585 0.462372947615 0.469630745157 0.10056 0.0300414118421 0.050015 0.0538463648082 0.077 Chr19 11933672

N00192 200000 400000 7.65459 scaffold\_40 6422395 6615966 0.0022851281593 0.000942734942029 0.00229310884616 0.000944269787554 0.4241703985 0.424216004435 0.060655 0.0275609466294 0.00343 0.0018236202737 0.023 Chr19 11933672

N00192 400000 600000 7.216789 scaffold\_40 6232621 6422395 0.00241559043857 0.00108541269448 0.00248419371484 0.00112151743212 0.467776378142 0.469064824717 0.103425 0.0520619262913 0.05131 0.0491584727096 0.0553333333333 Chr19 11933672

N00192 800000 1000000 8.406836 scaffold\_40 5864161 6054358 0.00339321622866 0.00111169809527 0.00347220332926 0.0011507914748 0.491669233231 0.49606562392 0.06097 0.0241276150518 0.05707 0.0661051436143 0.05825 Chr19 11933672

N00052 800000 1000000 2.701241 scaffold\_40 771059 965686 0.00251916928511 0.00103218391249 0.00264860418734 0.00108966213031 0.456436055262 0.47327584697 0.07286 0.01301977629 0.07106 0.0723537844184 0.143333333333 Chr19 11933672

N00052 2000000 2200000 4.76788 scaffold\_40 1882633 2073086 0.00356848158007 0.0011636750416 0.00368956605549 0.0012061771709 0.415789868581 0.421999249172 0.078425 0.0262111912125 0.042585 0.044625183116 0.0556666666667 Chr19 11933672

N00052 2200000 2400000 5.41085 scaffold\_40 2073086 2263928 0.0028851385727 0.00111910918861 0.00289383018597 0.00112475521333 0.419292192857 0.422161307327 0.043375 0.0251726559143 0.00825 0.00863541568418 0.064 Chr19 11933672

N00052 2600000 2800000 5.642443 scaffold\_40 2452595 2646098 0.00318417799252 0.000987278202344 0.00336004498347 0.00105756629157 0.39717287084 0.404457047922 0.03732 0.0149041616926 0.09074 0.0910218446226 0.069 Chr19 11933672

N00052 3000000 3200000 9.842949 scaffold\_40 2827301 3010374 0.00341765194007 0.0011164840717 0.00349258364349 0.00115441864908 0.435991276665 0.439760643135 0.12029 0.0205819536469 0.055385 0.0748826970662 0.172666666667 Chr19 11933672

N00052 3200000 3400000 7.011391 scaffold\_40 3010374 3191977 0.00331829308866 0.00117658104537 0.00337158887465 0.00120676833473 0.490048824007 0.492437880475 0.10291 0.0130779777867 0.053575 0.055395560646 0.161142857143 Chr19 11933672

N00052 3400000 3600000 3.102199 scaffold\_40 3191977 3384730 0.00334787658538 0.00112117347623 0.00343393203801 0.00116602419085 0.456153129702 0.464419135946 0.05027 0.016508173673 0.06138 0.0668316446437 0.2045 Chr19 11933672

N00052 3600000 3800000 1.758904 scaffold\_40 3384730 3576711 0.00347736859549 0.00103433493353 0.00364963320767 0.00109598026976 0.439010563659 0.443655920264 0.07296 0.0200696943968 0.071605 0.0950041931233 0.16275 Chr19 11933672

N00052 3800000 4000000 3.927171 scaffold\_40 3576711 3770733 0.003396900326 0.00104819160461 0.00354333959277 0.00112254608442 0.450059345273 0.452654954322 0.03266 0.00933399305233 0.079185 0.0819030831555 0.0655714285714 Chr19 11933672

N00052 4000000 4200000 4.036357 scaffold\_40 3770733 3962718 0.00388713022085 0.00113699059159 0.00402754587518 0.00119445802066 0.455526470108 0.457899031756 0.072795 0.0122144959242 0.065965 0.0707294840743 0.0661666666667 Chr19 11933672

N00052 4200000 4400000 2.707198 scaffold\_40 3962718 4155928 0.00316364003972 0.000956951457503 0.00321995703213 0.000987999577197 0.452236299039 0.466304989459 0.041925 0.0114486827804 0.068985 0.051177475286 0.0826 Chr19 11933672

N00052 4400000 4600000 4.026718 scaffold\_40 4155928 4345281 0.00276446141337 0.000836027011483 0.00283966520822 0.000873463180409 0.511397716422 0.518807104563 0.0943 0.0216421181603 0.09569 0.101492978722 0.057875 Chr19 11933672

N00052 4800000 5000000 5.837772 scaffold\_40 4533730 4727304 0.00384802323196 0.00111690928044 0.00394014226212 0.00115871569119 0.50565365599 0.504786642369 0.071895 0.0308202547863 0.07965 0.0745193052786 0.0890909090909 Chr19 11933672

N00052 5200000 5400000 3.21386 scaffold\_40 4913619 5101543 0.00318707373417 0.00107010268893 0.00331072960561 0.00113184359316 0.45425488663 0.465895090978 0.06203 0.0163789617079 0.093545 0.0913773653179 0.09375 Chr19 11933672

N00059 0 200000 3.074469 scaffold\_26 8029266 8218209 0.00322029709406 0.000952924041754 0.00329855231986 0.00100006356798 0.516808533227 0.521295546559 0.0522 0.0163647237527 0.061185 0.0701693103211 0.05325 Chr20 15675940

N00059 400000 600000 2.691187 scaffold\_26 8406660 8598947 0.0033096023377 0.00100503514429 0.00356075090163 0.00111086630347 0.475561244337 0.477658104151 0.076165 0.0425561790449 0.100525 0.103953985449 0.069125 Chr20 15675940

N00059 600000 800000 3.102283 scaffold\_26 8598947 8783392 0.00337288536125 0.000839689719564 0.00347266868336 0.000868446292258 0.400204475083 0.4090047761 0.06062 0.0265228116783 0.03696 0.0412046951666 0.0685 Chr20 15675940

N00059 800000 1000000 5.545225 scaffold\_26 8783392 8964655 0.0035179227452 0.000960752902658 0.00358033642437 0.000978712969536 0.459777205269 0.464483845133 0.10687 0.0221942702041 0.03781 0.040708804334 0.1336 Chr20 15675940

N00059 1000000 1200000 5.218161 scaffold\_26 8964730 9146570 0.00355310947058 0.00102767558 0.0036447255483 0.00106116717463 0.490782987364 0.495860599427 0.09333 0.0215354157501 0.048125 0.0522107347118 0.0822857142857 Chr20 15675940

N00059 1200000 1400000 5.397242 scaffold\_26 9146570 9336046 0.00328683498288 0.00104875986409 0.00332536416353 0.00107185238687 0.481253322854 0.481864464306 0.081015 0.0217019569761 0.03508 0.0323787709261 0.0982857142857 Chr20 15675940

N00059 1800000 2000000 4.357635 scaffold\_26 9691093 9881072 0.00354677681476 0.0010957125487 0.00360139157568 0.00112707145296 0.481505378867 0.483798926679 0.06782 0.0252922691455 0.04413 0.0411045431337 0.069 Chr20 15675940

N00059 2000000 2200000 4.6992 scaffold\_26 9881072 10071865 0.00314703243666 0.00120263979641 0.00313368075376 0.00120278342602 0.453179396487 0.461347923731 0.08537 0.0296446934636 0.010125 0.00490584036102 NA Chr20 15675940

N00059 2200000 2400000 4.578668 scaffold\_26 10071865 10262794 0.00340472779893 0.0013404260115 0.00340472779893 0.0013404260115 0.435586659681 0.438344247509 0.063085 0.0203583531051 0 0 NA Chr20 15675940

N00059 2400000 2600000 3.427018 scaffold\_26 10262794 10453879 0.00333044911568 0.00101384727984 0.00333044911568 0.00101384727984 0.431354542473 0.433702241074 0.0766 0.0421854148677 0 0 NA Chr20 15675940

N00059 2600000 2800000 3.013686 scaffold\_26 10453879 10648866 0.0036298485227 0.00104024926849 0.0036298485227 0.00104024926849 0.422018201884 0.42520724544 0.063065 0.0348433485309 0 0 NA Chr20 15675940

N00059 2800000 3000000 3.044369 scaffold\_26 10648866 10836611 0.00380638325962 0.00132012064222 0.00380638325962 0.00132012064222 0.430835127156 0.431723226467 0.06049 0.0275533303151 0 0 NA Chr20 15675940

N00059 3000000 3200000 6.578796 scaffold\_26 10836611 11020597 0.0040869118594 0.00138323701539 0.00423985699338 0.00142327702027 0.456996929438 0.463667800193 0.07636 0.0379702803474 0.04764 0.0528409770309 0.1028 Chr20 15675940

N00059 3400000 3600000 3.242855 scaffold\_26 11195213 11375364 0.00333548949236 0.00121785484293 0.00333548949236 0.00121785484293 0.453130614577 0.457083876575 0.125075 0.0576849420764 0 0 NA Chr20 15675940

N00059 3600000 3800000 3.45916 scaffold\_26 11375364 11560952 0.00348604064796 0.00105911677616 0.00351256320639 0.00106807232739 0.438988715864 0.438908852368 0.121145 0.0688460460806 0.013085 0.0138586546544 NA Chr20 15675940

N00059 4000000 4200000 4.570744 scaffold\_26 11736755 11926174 0.00425031638528 0.00180156626604 0.00425093309763 0.00180182752515 0.420088215608 0.429207857306 0.102985 0.0662393952032 0.000105 0.000116144631742 NA Chr20 15675940

N00196 600000 800000 3.482427 scaffold\_26 7286688 7480170 0.00163709556354 0.00103723422363 0.0017203841363 0.00110508561533 0.53672507858 0.536445117718 0.10885 0.045642488707 0.099235 0.0962260055199 0.093 Chr20 15675940

N00196 800000 1000000 1.247031 scaffold\_26 7097322 7286688 0.00185114881719 0.000971450420179 0.00188422804507 0.00100519004546 0.459459973138 0.464229364018 0.10757 0.0558125534679 0.05917 0.063818214463 0.0795714285714 Chr20 15675940

N00063 200000 400000 5.136641 scaffold\_26 6571369 6756716 0.00167717664403 0.00163297381209 0.00168253508667 0.00164976102746 0.47951815737 0.479000109359 0.120075 0.0425202458092 0.01113 0.0188727090269 0.059 Chr20 15675940

N00063 400000 600000 6.059628 scaffold\_26 6376771 6571369 0.00228515322406 0.00124007691008 0.00232615396268 0.00127735322516 0.477777388624 0.482162175157 0.10485 0.0456376735629 0.06376 0.0646666461115 0.0597142857143 Chr20 15675940

N00063 600000 800000 4.106164 scaffold\_26 6191805 6376771 0.00276163265453 0.00100648888822 0.00279868978145 0.00102770467474 0.459796558046 0.46414430774 0.083395 0.0349199312306 0.04656 0.0509120595136 0.094 Chr20 15675940

N00063 800000 1000000 3.033838 scaffold\_26 5996690 6191805 0.00269891179013 0.00116112308141 0.00274051802032 0.00118316156459 0.447859807196 0.452899680945 0.06037 0.0332214335136 0.024365 0.0241396099736 0.063 Chr20 15675940

N00063 1000000 1200000 2.228937 scaffold\_26 5815669 5996690 0.00254758075794 0.00108507789058 0.00254758075794 0.00108507789058 0.449912407343 0.455111366195 0.0938 0.0262124283923 0.00233 0 NA Chr20 15675940

N00063 1200000 1400000 2.525436 scaffold\_26 5625489 5815669 0.00321002090583 0.00111074770754 0.00336105767819 0.00118424044535 0.426560825947 0.432726800717 0.075505 0.0274371647913 0.079335 0.0809864339047 0.0403333333333 Chr20 15675940

N00063 1400000 1600000 2.802311 scaffold\_26 5445034 5625489 0.00313657251739 0.00114683172994 0.00314501543055 0.00115151040958 0.455845638063 0.460890432798 0.0888 0.0374220719847 0.018945 0.0118866199329 0.1145 Chr20 15675940

N00063 1600000 1800000 2.802311 scaffold\_26 5254267 5445034 0.00288337262059 0.00115188664657 0.00288624095101 0.00115482987152 0.472465957305 0.48165273516 0.048325 0.0184780386545 0.00606 0.0050480429005 0.0955 Chr20 15675940

N00063 1800000 2000000 2.802311 scaffold\_26 5069590 5254267 0.00336050485799 0.00104565613546 0.00343748517404 0.0010929335471 0.479189184181 0.483488420905 0.0622 0.0154973277669 0.08008 0.0834700585346 0.094 Chr20 15675940

N00063 2000000 2200000 5.736166 scaffold\_26 4884144 5069590 0.0028144360352 0.000922695884875 0.0029035163644 0.000956270209966 0.42639852085 0.429445164805 0.107975 0.0233976467543 0.04736 0.0510229392923 0.0434 Chr20 15675940

N00063 2200000 2400000 8.044669 scaffold\_26 4693954 4884144 0.00308332843409 0.00102720935432 0.00309726314101 0.0010340207784 0.4306682285 0.440150903306 0.05595 0.0213943950786 0.012865 0.0135443503865 0.135 Chr20 15675940

N00063 2400000 2600000 3.654639 scaffold\_26 4498706 4693954 0.00318290376754 0.00121454857879 0.00318290376754 0.00121454857879 0.414402445044 0.426471048105 0.040645 0.0246199704991 0 0 NA Chr20 15675940

N00063 2600000 2800000 2.537549 scaffold\_26 4302015 4498706 0.00298279026902 0.00126737239942 0.00298284207917 0.00126803967804 0.400845068955 0.404304053414 0.049025 0.0177994926052 0.00652 0.00253697423878 NA Chr20 15675940

N00063 2800000 3000000 0.06312312 scaffold\_26 4102132 4302015 0.00321625915249 0.00132972921179 0.00322586090622 0.00133842870465 0.390086362558 0.391909133344 0.030115 0.0225782082518 0.005835 0.00768449542983 NA Chr20 15675940

N00063 3000000 3200000 0 scaffold\_26 3910351 4102132 0.00314916466349 0.00100380534285 0.00322258266267 0.00104118474718 0.406145459762 0.408818980842 0.045355 0.0295493297042 0.046135 0.0482894551598 0.0795 Chr20 15675940

N00063 3400000 3600000 0 scaffold\_26 3542151 3731988 0.00283683749748 0.00110936117453 0.0028629228598 0.00112430686104 0.425369474599 0.433523432228 0.06955 0.0180681321344 0.01163 0.0128267935123 0.013 Chr20 15675940

N00063 3600000 3800000 1.426908 scaffold\_26 3352824 3542151 0.00293454074792 0.00104088529428 0.00296070703928 0.00106299521543 0.403477275405 0.407025239865 0.04476 0.00885769066219 0.03013 0.0281470682998 0.0895 Chr20 15675940

N00063 3800000 4000000 3.585106 scaffold\_26 3161727 3352645 0.00278232473336 0.000938185306694 0.00278232473336 0.000938732384249 0.435456203883 0.440210376353 0.065675 0.0218208864539 0.00071 0.00160278234635 0.075 Chr20 15675940

N00063 4000000 4200000 3.557834 scaffold\_26 2970552 3161727 0.00323242218719 0.00117055053504 0.00330363181916 0.00120265652779 0.449409434419 0.456072842793 0.07394 0.0152739636459 0.0324 0.0326507126978 0.112 Chr20 15675940

N00063 4200000 4400000 3.036939 scaffold\_26 2773341 2970552 0.00329037602166 0.00123665797801 0.00329336127067 0.00124050291054 0.434054949449 0.444441506101 0.048785 0.0129911617506 0.005965 0.0047309734244 0.079 Chr20 15675940

N00128 1000000 1200000 0.9724771 scaffold\_26 1095239 1297589 0.0035876085071 0.00123852138566 0.00364246589247 0.00127391676079 0.444882901101 0.458577332278 0.10596 0.0236273783049 0.04075 0.0384531751915 0.101 Chr20 15675940

N00128 1400000 1600000 0.9110231 scaffold\_26 1475579 1670812 0.00355801194983 0.00122937353641 0.00357155042882 0.00123544167749 0.44088998599 0.454967061622 0.096085 0.0277975547167 0.026205 0.0255540815333 0.202 Chr20 15675940

N00128 1600000 1800000 3.88506 scaffold\_26 1670812 1865506 0.0033183254503 0.00134940682984 0.0033183254503 0.00134940682984 0.437861279404 0.447510578161 0.10152 0.0392667467924 0 0.000205450604538 NA Chr20 15675940

N00128 1800000 2000000 0.9964664 scaffold\_26 1865506 2052450 0.00287749472338 0.00110421822724 0.00289929793048 0.0011142986837 0.435030345245 0.438761844457 0.073115 0.0335127096885 0.015525 0.0164380777131 0.076 Chr20 15675940

N00056 600000 800000 3.681623 scaffold\_55 3126718 3314024 0.00312036097143 0.000962594379544 0.00319969245263 0.0010028721477 0.407403260876 0.416351317158 0.06804 0.0163582586783 0.043425 0.0585672642628 0.0918 Chr21 8319191

N00056 800000 1000000 1.839357 scaffold\_55 2936662 3126718 0.00271810369304 0.000880618727422 0.00273933582501 0.000894112766798 0.445082442482 0.449351806143 0.053785 0.0270972765922 0.014865 0.020241402534 0.068 Chr21 8319191

N00056 1000000 1200000 4.14647 scaffold\_55 2750875 2936662 0.00317458767695 0.00101333331483 0.00324102203551 0.0010519919996 0.420094579501 0.427351780444 0.06224 0.0249210116962 0.04697 0.055450596651 0.066 Chr21 8319191

N00056 1200000 1400000 12.17962 scaffold\_55 2565460 2749528 0.00356521736471 0.00109669016324 0.00360448035768 0.00112625299426 0.465050445104 0.466736945357 0.08842 0.0438750896408 0.02869 0.0380076928092 0.065 Chr21 8319191

N00056 2000000 2200000 7.234818 scaffold\_55 1849718 2037208 0.00257428948286 0.00137832871626 0.00257428948286 0.00137886838057 0.526919781756 0.516714380334 0.084035 0.0243106299003 0.00253 0.00395221078458 0.046 Chr21 8319191

N00056 2400000 2600000 0.7580846 scaffold\_55 1479115 1666458 0.00265697470534 0.00113552053994 0.00266471075259 0.00113956365993 0.469730321667 0.464623709229 0.067705 0.0110439141041 0.00453 0.00328808655781 0.036 Chr21 8319191

N00056 2600000 2800000 5.079167 scaffold\_55 1289500 1479115 0.00286079021766 0.000947049956422 0.00297899737829 0.000991085448205 0.418257240766 0.419252664983 0.109685 0.0362049415922 0.05682 0.0604540780002 0.1465 Chr21 8319191

N00056 3000000 3200000 5.930328 scaffold\_55 912179 1096267 0.00329053920195 0.000918598623065 0.00336608880257 0.000950917802904 0.411703137551 0.415254388948 0.127235 0.0564023727782 0.03592 0.0397364304029 0.131 Chr21 8319191

N00056 3400000 3600000 5.212364 scaffold\_55 538132 725468 0.00314252699482 0.00083955027213 0.00341908558278 0.000942497444202 0.400302632515 0.407394506685 0.092495 0.0245121065892 0.11762 0.128848699663 0.1636 Chr21 8319191

N00154 200000 400000 1.253731 scaffold\_55 5159801 5360445 0.00127581884137 0.000689354505464 0.00128898679373 0.000702103084421 0.464735286213 0.481980446282 0.060065 0.0323807340364 0.03246 0.0333127329997 0.2 Chr21 8319191

N00154 400000 600000 0 scaffold\_55 4959036 5159801 0.00160432588976 0.00110086979205 0.0016883368085 0.00118296060043 0.40353037301 0.435789337899 0.06776 0.0105695713894 0.076925 0.0789480238089 0.0752 Chr21 8319191

N00237 200000 400000 3.569536 scaffold\_47 179337 371653 0.000278974621406 0.000986225427895 0.00032283084274 0.00113073114355 0.515203524515 0.5271762605 0.07625 0.0232741945548 0.149565 0.147117244535 0.0864444444444 Chr24 8009359

N00237 400000 600000 0.5682844 scaffold\_47 371653 558057 0.00157846984832 0.0009871698895 0.00159278562663 0.000997421691898 0.498037804397 0.516180990324 0.101825 0.0157721937297 0.020365 0.0173762365614 0.102 Chr24 8009359

N00051 0 200000 NA scaffold\_47 6673193 6855120 0.00109571667173 0.000885380808713 0.0011343045268 0.000912019740742 0.442694831173 0.441496738095 0.10764 0.0593149999725 0.06364 0.072408163714 0.0825 Chr24 8009359

N00051 200000 400000 0.9546279 scaffold\_47 6477946 6673193 0.00263552254521 0.00101968154488 0.00263915837866 0.00102478996347 0.444112735921 0.438877656146 0.084065 0.0621674084621 0.007885 0.00851229468314 0.163 Chr24 8009359

N00051 2800000 3000000 3.536496 scaffold\_47 4239607 4421698 0.00298217194293 0.0015306899721 0.0029831391101 0.00153798565849 0.512148823083 0.504754720432 0.116005 0.0641547358189 0.008835 0.010989010989 0.066 Chr24 8009359

N00051 3000000 3200000 6.208751 scaffold\_47 4056189 4239607 0.00269350817083 0.00137747539366 0.00269350817083 0.00137747539366 0.509951470502 0.501121548918 0.110235 0.0574534669444 0.000215 0 0.069 Chr24 8009359

N00051 3200000 3400000 6.430134 scaffold\_47 3870599 4056189 0.00283892543886 0.00112272926067 0.00284320318753 0.00112596414372 0.513484981044 0.503991328599 0.092845 0.0432243116547 0.0213 0.0154049248343 0.037 Chr24 8009359

N00075 1000000 1200000 0.7635904 scaffold\_49 5468967 5674203 0.00323690696842 0.00118906329759 0.00334290425294 0.00124978654072 0.461142846867 0.457830163084 0.106745 0.0895651834961 0.064045 0.0608226626908 0.0675 Chr26 7775072

N00075 3400000 3600000 5.518803 scaffold\_49 3377994 3565969 0.00325440643409 0.0010130860289 0.00327729810243 0.00102437016389 0.531114973622 0.529141531048 0.07746 0.0110333820987 0.071545 0.0755153610853 0.07775 Chr26 7775072

N00245 400000 600000 1.008217 scaffold\_110 114313 319857 0.00179909507055 0.000485193747027 0.00182496747373 0.000499856246369 0.487676341333 0.479823531548 0.13878 0.110686762932 0.034985 0.0362550110925 0.09425 Chr27 6193995

N00118 1200000 1400000 4.224111 scaffold\_89 421399 609921 0.00324042905104 0.00110470761346 0.00344072340259 0.0011834374542 0.471658070239 0.484669627785 0.080375 0.0376083427929 0.08423 0.10605658756 0.0908333333333 Chr28 6423408

N00118 1400000 1600000 2.578745 scaffold\_89 609921 797819 0.00361067491834 0.00113990954407 0.00383495644022 0.00123383966411 0.441171107812 0.449374678773 0.123085 0.0363601528489 0.09064 0.109463645169 0.126857142857 Chr28 6423408