

Sheet1

| chrom | loc.start | loc.end  | num.mark | seg.mean |
|-------|-----------|----------|----------|----------|
| 1     | 12848     | 267451   | 193      | 0.9253   |
| 1     | 568205    | 568405   | 3        | -0.8667  |
| 1     | 647218    | 1580786  | 1589     | 0.7931   |
| 1     | 1580841   | 1581552  | 11       | 2.81     |
| 1     | 1581668   | 1892184  | 472      | 0.8121   |
| 1     | 1893291   | 1893491  | 3        | -0.9503  |
| 1     | 1895142   | 2434819  | 552      | 0.6826   |
| 1     | 2434919   | 2435219  | 4        | -1.2308  |
| 1     | 2435702   | 3335493  | 423      | 0.4548   |
| 1     | 3342186   | 3347557  | 9        | -1.18    |
| 1     | 3347633   | 11097941 | 3949     | 0.726    |
| 1     | 11098033  | 11103329 | 6        | 2.329    |
| 1     | 11103400  | 12197338 | 1310     | 0.8338   |
| 1     | 12198435  | 12198512 | 2        | -1.366   |
| 1     | 12198612  | 13199004 | 959      | 1.1491   |
| 1     | 13201429  | 13201529 | 2        | -0.956   |
| 1     | 13201989  | 14108254 | 262      | 1.1348   |
| 1     | 14108354  | 14109054 | 5        | -1.3214  |
| 1     | 14109549  | 15709827 | 314      | 0.5649   |
| 1     | 15709866  | 15710657 | 7        | 2.76     |
| 1     | 15714586  | 16895986 | 1739     | 1.082    |
| 1     | 16896027  | 16900796 | 10       | 3.3155   |
| 1     | 16900862  | 17928485 | 1520     | 1.1075   |
| 1     | 17928585  | 17928856 | 4        | -1.0665  |
| 1     | 17928956  | 17981335 | 82       | 0.8088   |
| 1     | 17982396  | 17982695 | 4        | -0.8322  |
| 1     | 17982734  | 24977931 | 5113     | 0.7564   |
| 1     | 24978031  | 24979122 | 6        | -0.6187  |
| 1     | 24979208  | 26515582 | 1050     | 0.8205   |
| 1     | 26515825  | 26517382 | 7        | -0.575   |
| 1     | 26517475  | 28314899 | 1967     | 0.9034   |
| 1     | 28314999  | 28315299 | 4        | -0.5755  |
| 1     | 28316124  | 31196601 | 1011     | 1.0019   |
| 1     | 31206551  | 31206851 | 4        | -1.3458  |
| 1     | 31206913  | 32951045 | 1570     | 0.6957   |
| 1     | 33001808  | 33004876 | 5        | 2.2868   |
| 1     | 33004976  | 36379644 | 2258     | 0.7222   |
| 1     | 36379706  | 36380058 | 5        | 2.198    |
| 1     | 36380920  | 46546569 | 7410     | 0.7628   |
| 1     | 46570830  | 46597064 | 4        | -0.8908  |
| 1     | 46597113  | 52759454 | 2567     | 0.6821   |
| 1     | 52761496  | 52761802 | 5        | 2.2878   |
| 1     | 52769414  | 52882536 | 239      | 0.8005   |
| 1     | 52882577  | 52882915 | 5        | 2.4706   |
| 1     | 52883637  | 54511216 | 1106     | 0.6484   |
| 1     | 54511316  | 54511605 | 4        | -1.066   |
| 1     | 54512949  | 70616976 | 5528     | 0.5337   |
| 1     | 70618050  | 70618250 | 3        | -1.2957  |
| 1     | 70621260  | 77632274 | 1599     | 0.421    |
| 1     | 77632374  | 77632674 | 4        | -1.7153  |

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| 1 | 86874013  | 86874413  | 4    | -1.6433 |
| 1 | 86875005  | 87038509  | 191  | 0.4274  |
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| 1 | 92446254  | 92446554  | 4    | -0.9252 |
| 1 | 92446654  | 92464271  | 30   | 0.6277  |
| 1 | 92464371  | 92466824  | 6    | 2.2575  |
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| 1 | 111195347 | 111195547 | 3    | -0.9533 |
| 1 | 111214702 | 114225611 | 1654 | 0.5724  |
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| 1 | 121484154 | 146252845 | 2464 | 0.9895  |
| 1 | 146252978 | 146314847 | 6    | -0.8403 |
| 1 | 146314947 | 147126524 | 676  | 0.5695  |
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| 1 | 152279242 | 152279487 | 5    | 2.6602  |
| 1 | 152279543 | 154528277 | 2272 | 0.5991  |
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| 1 | 154535185 | 155203299 | 1027 | 0.4703  |
| 1 | 155203387 | 155203647 | 3    | 2.4653  |
| 1 | 155204737 | 169490121 | 9206 | 0.41    |
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| 1 | 172362644 | 182617550 | 4221 | 0.3414  |
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| 1 | 182641810 | 186274220 | 2341 | 0.4718  |
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|   |           |           |      |         |
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| 1 | 201179736 | 204006752 | 2602 | 0.5217  |
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| 1 | 204010160 | 204095321 | 55   | 0.15    |
| 1 | 204095421 | 204096161 | 9    | 1.5903  |
| 1 | 204096622 | 207245762 | 2435 | 0.3088  |
| 1 | 207245853 | 207252164 | 8    | 1.9362  |
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| 1 | 207512609 | 224174477 | 5211 | 0.2488  |
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| 1 | 224182765 | 225971125 | 927  | 0.3474  |
| 1 | 225971191 | 225976629 | 6    | 1.895   |
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| 1 | 244220425 | 244220851 | 6    | 1.9355  |
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| 2 | 13888     | 8926230   | 1518 | 0.4916  |
| 2 | 8926330   | 8930243   | 7    | -1.1161 |
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| 2 | 11317820  | 11342374  | 69   | 0.673   |
| 2 | 11347805  | 11348308  | 7    | 2.0609  |
| 2 | 11348408  | 17902676  | 1315 | 0.518   |
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| 2 | 17907523  | 24167204  | 1410 | 0.5675  |
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| 2 | 26596180  | 26597866  | 7    | 2.4803  |
| 2 | 26597966  | 27170340  | 494  | 0.5523  |
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| 2 | 40402957  | 44080009  | 1032 | 0.5687  |
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| 2 | 74682973 | 74746386 | 219  | 0.7125  |
| 2 | 74746461 | 74746961 | 6    | 2.0755  |
| 2 | 74747053 | 85806945 | 2036 | 0.5235  |
| 2 | 85807045 | 85809147 | 8    | 2.1261  |
| 2 | 85818771 | 85819071 | 4    | 0.5188  |
| 2 | 85820031 | 85820322 | 5    | 2.687   |
| 2 | 85822748 | 86380527 | 562  | 0.8067  |
| 2 | 86380627 | 86380908 | 4    | -0.8815 |
| 2 | 86380978 | 86709321 | 225  | 0.6074  |
| 2 | 86709379 | 86709474 | 3    | 2.4803  |
| 2 | 86709529 | 87015487 | 195  | 0.5782  |
| 2 | 87015578 | 87017636 | 9    | -0.7896 |
| 2 | 87017736 | 89157351 | 1267 | 0.9802  |
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| 2 | 90491317 | 91679410 | 32   | 1.3278  |
| 2 | 91679441 | 91679725 | 5    | 3.0924  |
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| 2 | 91940468 | 91940721 | 4    | 2.3765  |
| 2 | 91943785 | 92252795 | 181  | 0.9088  |
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| 2 | 99719390  | 99720714  | 7    | 2.1314  |
| 2 | 99721791  | 99949788  | 195  | 0.6221  |
| 2 | 99953885  | 99976807  | 7    | -0.7803 |
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| 2 | 107450766 | 110827767 | 1366 | 0.7854  |
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| 2 | 116600754 | 116601458 | 5    | 1.9012  |
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| 2 | 158152105 | 158152874 | 6    | 1.7153  |
| 2 | 158152953 | 162268039 | 1735 | 0.3893  |
| 2 | 162273100 | 162273575 | 6    | -1.0197 |
| 2 | 162274075 | 175991891 | 6147 | 0.5019  |
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| 2 | 175992248 | 179655018 | 3270 | 0.4611  |
| 2 | 179655330 | 179655730 | 6    | 1.9348  |
| 2 | 179656686 | 180725749 | 361  | 0.3347  |
| 2 | 180809844 | 180810577 | 9    | 1.5936  |
| 2 | 180815201 | 187531547 | 1603 | 0.2778  |
| 2 | 187531592 | 187532118 | 7    | 1.7129  |
| 2 | 187532355 | 187694636 | 106  | 0.4032  |
| 2 | 187694697 | 187698118 | 7    | 1.664   |
| 2 | 187698598 | 188691258 | 171  | 0.1162  |
| 2 | 188691358 | 188691588 | 4    | 2.1555  |
| 2 | 188691643 | 190611115 | 886  | 0.2501  |

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| 2 | 190611207 | 190611407 | 3    | -1.307  |
| 2 | 190615220 | 201822317 | 3808 | 0.5135  |
| 2 | 201822720 | 201822920 | 3    | -1.0843 |
| 2 | 201822977 | 202014739 | 188  | 0.8243  |
| 2 | 202025123 | 202025423 | 4    | 2.2345  |
| 2 | 202025523 | 203334017 | 1234 | 0.6814  |
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| 2 | 203369812 | 208717304 | 2298 | 0.6573  |
| 2 | 208717404 | 208717801 | 5    | -1.0278 |
| 2 | 208725780 | 210343827 | 587  | 0.6396  |
| 2 | 210368862 | 210369062 | 3    | -1.6263 |
| 2 | 210369144 | 211299479 | 809  | 0.4662  |
| 2 | 211300079 | 211300279 | 3    | -1.6893 |
| 2 | 211300917 | 217234697 | 1513 | 0.3028  |
| 2 | 217234797 | 217236062 | 4    | -1.1358 |
| 2 | 217279393 | 218746892 | 351  | 0.4643  |
| 2 | 218746992 | 218747292 | 4    | -1.513  |
| 2 | 218749686 | 219251941 | 552  | 0.5719  |
| 2 | 219252041 | 219252441 | 5    | 2.2206  |
| 2 | 219252518 | 220498286 | 2613 | 0.7854  |
| 2 | 220498506 | 220499045 | 7    | 2.2343  |
| 2 | 220499113 | 238925323 | 7001 | 0.5385  |
| 2 | 238925369 | 238934216 | 7    | 1.95    |
| 2 | 238939091 | 239149379 | 292  | 0.535   |
| 2 | 239152730 | 239153030 | 4    | -1.395  |
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| 2 | 241532123 | 241533813 | 10   | 1.8549  |
| 2 | 241533913 | 242970389 | 1772 | 0.5161  |
| 2 | 242970489 | 243037234 | 10   | -0.5348 |
| 2 | 243052577 | 243064523 | 24   | 0.7582  |
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| 3 | 44283553  | 44544253  | 181  | -0.2844 |
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| 3 | 47119795  | 47122495  | 5    | -1.4372 |
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| 3 | 48040123  | 48162771  | 16   | 0.9843  |
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| 3 | 49688910  | 49695717  | 70   | 0.2895  |
| 3 | 49695758  | 49697733  | 3    | 1.539   |
| 3 | 49697802  | 51478064  | 1714 | -0.0265 |
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| 3 | 52321366  | 52325712  | 8    | 1.1614  |
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| 3 | 52547661  | 52548061  | 5    | 0.8082  |
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| 3 | 58127486  | 58127885  | 5    | 1.0814  |
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| 3 | 99566969  | 99567569  | 7    | 1.1859  |
| 3 | 99567669  | 105290842 | 1181 | -0.2736 |
| 3 | 105293425 | 105293859 | 6    | 1.0462  |
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| 3 | 108355362 | 108361147 | 12   | 0.5108  |
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| 3 | 112356850 | 112357516 | 8    | 1.0503  |
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| 3 | 116088695 | 116144880 | 8    | -2.0029 |
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| 3 | 119427702 | 119428913 | 5    | 1.0212  |
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| 3 | 125551242 | 127392003 | 853  | -0.3341 |
| 3 | 127392094 | 127393146 | 4    | 1.395   |
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| 3 | 138543972 | 138545314 | 15   | 1.0849  |
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| 3 | 146116662 | 149657665 | 759  | -0.3724 |
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| 3 | 194140541 | 194140708 | 3    | -2.205  |
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| 3 | 196443955 | 196448269 | 6    | 2.1948  |
| 3 | 196449291 | 196537670 | 45   | 0.4534  |
| 3 | 196539004 | 196539511 | 5    | 1.7484  |
| 3 | 196539611 | 196555350 | 22   | 0.3773  |
| 3 | 196555396 | 196555969 | 6    | 1.9028  |
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| 4 | 515157    | 515898    | 7    | 1.7616  |
| 4 | 517322    | 762109    | 203  | 0.2182  |
| 4 | 762526    | 764014    | 16   | 1.4246  |
| 4 | 779192    | 1804913   | 747  | 0.2339  |
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| 4 | 2073634   | 2826982   | 471  | 0.2793  |
| 4 | 2828578   | 2828978   | 5    | 1.8602  |
| 4 | 2829078   | 3769189   | 809  | 0.3473  |
| 4 | 3769590   | 3770271   | 8    | -1.3685 |
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| 4 | 15842014  | 15850312  | 7    | 0.2606  |
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| 4 | 111219534 | 119559434 | 1726 | 0.1414  |
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| 5 | 154320533 | 156566434 | 293  | 0.2974  |
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Sheet1

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| 5 | 159520871 | 159831698 | 132  | 0.3907  |
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| 5 | 170814804 | 170837961 | 74   | 1.6026  |
| 5 | 170847243 | 171289116 | 37   | 0.047   |
| 5 | 171289216 | 171289688 | 7    | 0.812   |
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| 5 | 176884606 | 177020797 | 233  | 0.5824  |
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| 5 | 177021200 | 177151338 | 81   | 0.5154  |
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| 5 | 177156430 | 180777554 | 2334 | 0.4423  |
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| 6 | 30675105 | 30675405 | 4    | 0.1813  |
| 6 | 30675505 | 30676198 | 9    | 1.5871  |
| 6 | 30679117 | 30894198 | 309  | 0.2825  |
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| 6 | 30917136 | 31129657 | 173  | 0.0287  |
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| 6 | 58776843 | 58778743 | 20   | 2.0423  |
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| 7 | 2696727   | 2696977   | 4    | 2.1378  |
| 7 | 2698594   | 4239638   | 441  | 0.2468  |
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| 7 | 4247629   | 5112440   | 433  | 0.5043  |
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| 7 | 5984555   | 6017141   | 32   | 2.071   |
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| 7 | 23351646 | 23352344 | 8    | 1.8146  |
| 7 | 23352444 | 27146563 | 915  | 0.2748  |
| 7 | 27146663 | 27147374 | 5    | -1.3836 |
| 7 | 27147474 | 27156046 | 24   | 0.1335  |
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| 7 | 56718530 | 61822289 | 672  | 0.9069  |
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| 7 | 61979355 | 63219342 | 290  | 0.9564  |
| 7 | 63219399 | 63223801 | 12   | 2.6774  |
| 7 | 63225669 | 65139328 | 986  | 0.5972  |
| 7 | 65139377 | 65142251 | 6    | 2.7692  |
| 7 | 65150583 | 66459519 | 807  | 0.9173  |
| 7 | 66460205 | 66460505 | 4    | -0.5072 |
| 7 | 66460605 | 72395989 | 763  | 0.7322  |
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| 7 | 72396747 | 72410678 | 38   | 0.8096  |
| 7 | 72410808 | 72411471 | 6    | 2.0567  |
| 7 | 72411571 | 72664017 | 215  | 1.0673  |
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| 7 | 73118256  | 73472193  | 197  | 0.7837  |
| 7 | 73474160  | 73474903  | 9    | 2.2151  |
| 7 | 73475443  | 80418938  | 2948 | 0.7684  |
| 7 | 80427334  | 80427531  | 3    | -1.7047 |
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| 7 | 82595022  | 82595319  | 4    | 1.6718  |
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| 7 | 87329729  | 90044224  | 742  | 0.0485  |
| 7 | 90044324  | 90044724  | 5    | 1.5902  |
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| 7 | 91712072  | 94915791  | 1477 | 0.1604  |
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| 7 | 94917772  | 99578588  | 2245 | 0.3879  |
| 7 | 99578645  | 99580729  | 3    | 2.438   |
| 7 | 99580829  | 99628147  | 39   | 0.7293  |
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| 7 | 100647336 | 100647685 | 3    | 2.649   |
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| 7 | 102953397 | 105915512 | 1233 | 0.2394  |
| 7 | 105915578 | 105917800 | 8    | 1.2549  |
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| 7 | 128120822 | 128134091 | 15   | 1.7527  |
| 7 | 128138097 | 128449354 | 307  | 0.5823  |
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| 7 | 128457666 | 133886113 | 2100 | 0.3351  |
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| 10 | 114718979 | 114911062 | 53   | 0.7772  |
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| 11 | 34161829 | 34162456 | 7    | 1.3126  |
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| 12 | 56629595 | 56630082 | 3    | 2.5857  |
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| 14 | 23792369 | 23792732 | 5    | 1.4722  |
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| 15 | 41476305 | 41476852 | 7    | 1.9164  |
| 15 | 41482151 | 41772433 | 207  | 0.6655  |
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| 15 | 72956260  | 78197045  | 3256 | 0.4168  |
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| 15 | 79761203  | 79761528  | 5    | 1.4514  |
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| 15 | 83932242  | 83932531  | 4    | 1.7243  |
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| 16 | 1484474  | 4322940  | 3204 | 0.0297  |
| 16 | 4382269  | 4383512  | 5    | -1.4994 |
| 16 | 4384669  | 4387923  | 19   | -0.2709 |
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| 16 | 4389343  | 7762038  | 1012 | 0.1465  |
| 16 | 7762138  | 8622317  | 10   | -1.2302 |
| 16 | 8719635  | 8740087  | 29   | 0.047   |
| 16 | 8740187  | 8740560  | 5    | 1.2926  |
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| 16 | 11367126 | 11486062 | 51   | 0.0586  |
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| 16 | 18555172 | 18562796 | 11   | 1.3655  |
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| 16 | 21365567 | 21470098 | 32   | 0.1369  |
| 16 | 21474924 | 21482919 | 9    | 1.4984  |
| 16 | 21482955 | 21491035 | 17   | 0.5062  |
| 16 | 21491066 | 21513039 | 9    | 1.6373  |
| 16 | 21513139 | 21916218 | 339  | 0.4155  |
| 16 | 21916253 | 21922923 | 11   | 1.9886  |
| 16 | 21927664 | 23581951 | 709  | 0.0929  |
| 16 | 23582051 | 23582603 | 7    | 1.2639  |
| 16 | 23582987 | 30273112 | 2491 | 0.0741  |
| 16 | 30278729 | 30346186 | 102  | 1.2171  |
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| 16 | 33887747 | 34232873 | 41   | 1.2319  |
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| 16 | 68328535 | 69074348 | 334  | 0.1303  |
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| 16 | 81745543 | 81816917 | 5    | 1.671   |
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| 17 | 1962894  | 2298964  | 335  | 0.5747  |
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| 17 | 4787565  | 4836997  | 144  | 0.4653  |
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| 17 | 5433721  | 6661536  | 441  | 0.2409  |
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| 17 | 7117033  | 7217799  | 339  | 0.406   |
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| 17 | 30415940 | 33900897 | 1437 | 0.3844  |
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| 17 | 60505298 | 60517871 | 12   | 1.9602  |
| 17 | 60517971 | 61939983 | 1185 | 0.4291  |
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| 17 | 80276073 | 80277931 | 20   | 1.944   |
| 17 | 80279970 | 80441678 | 195  | 0.3519  |
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| 17 | 80443362 | 80759573 | 198  | 0.5199  |
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| 20 | 2474551  | 2474596  | 2    | 1.8945  |
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| 20 | 53226896 | 57897320 | 1391 | 0.1958  |
| 20 | 57897420 | 58389125 | 34   | -0.7939 |
| 20 | 58411436 | 60928533 | 1012 | 0.1114  |
| 20 | 60931396 | 60934286 | 4    | -1.445  |
| 20 | 60937355 | 60962539 | 8    | -0.0205 |
| 20 | 60962639 | 60963327 | 8    | 1.6122  |
| 20 | 60963385 | 61273152 | 155  | 0.3329  |
| 20 | 61273252 | 61287996 | 7    | -1.0283 |
| 20 | 61288047 | 61453597 | 171  | 0.299   |
| 20 | 61453639 | 61454182 | 8    | 1.6484  |
| 20 | 61455866 | 61461222 | 26   | -0.1612 |
| 20 | 61461273 | 61461579 | 3    | 1.2013  |
| 20 | 61461651 | 62202030 | 952  | 0.3547  |
| 20 | 62202097 | 62203454 | 11   | 1.803   |
| 20 | 62203554 | 62494666 | 311  | 0.3806  |
| 20 | 62494766 | 62500942 | 6    | 1.464   |
| 20 | 62507097 | 62514065 | 5    | 0.2784  |

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|    |          |          |     |         |
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| 20 | 62522547 | 62959140 | 515 | 0.4437  |
| 21 | 9452915  | 11103194 | 580 | 1.0644  |
| 21 | 11103294 | 11186716 | 39  | 0.0773  |
| 21 | 11186816 | 15221075 | 371 | 0.9268  |
| 21 | 15227334 | 15280815 | 23  | -0.282  |
| 21 | 15280915 | 15351885 | 186 | 1.37    |
| 21 | 15351962 | 15361132 | 14  | 0.1072  |
| 21 | 15373127 | 15380410 | 33  | 1.4636  |
| 21 | 15380510 | 15436917 | 53  | 0.3572  |
| 21 | 15436977 | 15481512 | 16  | 1.3941  |
| 21 | 15516869 | 15561834 | 31  | 0.1828  |
| 21 | 15568000 | 15583307 | 12  | -0.7118 |
| 21 | 15588407 | 15893336 | 180 | 0.4254  |
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| 21 | 15918461 | 16340910 | 131 | 0.3908  |
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| 21 | 22841009 | 22910372 | 16  | -0.6376 |
| 21 | 22910472 | 27134812 | 273 | 0.5471  |
| 21 | 27134842 | 27135641 | 7   | 2.0483  |
| 21 | 27136459 | 29621607 | 357 | 0.3855  |
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| 21 | 33060537 | 34015552 | 676 | 0.6667  |
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| 21 | 34131305 | 34444253 | 103 | 0.5831  |
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| 21 | 34617194 | 34804729 | 141 | 0.6033  |
| 21 | 34804787 | 34805223 | 6   | 2.0327  |
| 21 | 34809159 | 34809358 | 3   | -0.493  |
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| 21 | 35260433 | 35279842 | 14  | -0.4444 |

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| 21 | 37412969 | 37420792 | 21   | 0.0672  |
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| 21 | 38850603 | 38858975 | 8    | -1.003  |
| 21 | 38859079 | 39754852 | 177  | 0.566   |
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| 21 | 39755633 | 40684897 | 371  | 0.4899  |
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| 21 | 40717666 | 40721513 | 21   | 0.6062  |
| 21 | 40721568 | 40759627 | 7    | 1.734   |
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| 21 | 42065003 | 42080288 | 5    | 2.2846  |
| 21 | 42080331 | 42815909 | 265  | 0.4979  |
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| 22 | 16269967 | 16346035 | 53   | 0.5621  |
| 22 | 16346081 | 16354061 | 67   | 1.413   |
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| 22 | 18859631 | 18860441 | 8    | 2.6822  |
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| 22 | 18978455 | 20043633 | 811  | 0.2924  |
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| 22 | 24630105 | 24665942 | 111  | 0.9021  |
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| 22 | 24730301 | 26422335 | 1050 | 0.5469  |
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| 22 | 29885375 | 29887312 | 16   | -0.6124 |
| 22 | 29904405 | 29913455 | 16   | 0.4366  |
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| 22 | 29916084 | 30221328 | 228  | 0.5227  |
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| 22 | 30229635 | 30603268 | 170  | 0.3727  |
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| 22 | 35743448 | 36124731 | 171  | 0.415   |
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| 22 | 36135848 | 36140080 | 16   | 0.0829  |
| 22 | 36140180 | 36142129 | 7    | -0.9221 |
| 22 | 36142225 | 36327160 | 63   | 0.2708  |
| 22 | 36327247 | 36357740 | 13   | -0.6388 |
| 22 | 36357840 | 36591715 | 47   | 0.3215  |
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| 22 | 36962341 | 37154483 | 24   | 0.2596  |
| 22 | 37154560 | 37160142 | 11   | 1.1696  |
| 22 | 37162046 | 38087452 | 821  | 0.215   |
| 22 | 38097380 | 38097662 | 4    | 2.091   |
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| 22 | 39900559 | 40622247 | 391  | 0.4775  |
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| 22 | 40673034 | 41363930 | 582  | 0.6134  |
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| 22 | 41460071 | 42071262 | 730  | 0.6738  |
| 22 | 42072652 | 42073236 | 7    | 2.5037  |
| 22 | 42076136 | 42084974 | 10   | 0.157   |
| 22 | 42085006 | 42090327 | 11   | 1.2175  |
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| 22 | 42092027 | 42554372 | 579  | 0.5522  |
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| 22 | 46239255 | 46240004 | 9    | 1.5908  |

Sheet1

|   |    |          |          |      |         |
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|   | 22 | 46240104 | 46632263 | 113  | 0.1555  |
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|   | 22 | 46930377 | 46930846 | 6    | 1.9408  |
|   | 22 | 46930946 | 49246240 | 309  | 0.2319  |
|   | 22 | 49246573 | 49290992 | 7    | -1.2594 |
|   | 22 | 49291061 | 50942155 | 1221 | 0.4036  |
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|   | 22 | 50942975 | 50945372 | 23   | 0.3712  |
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|   | 22 | 50954828 | 50969364 | 90   | 0.4892  |
|   | 22 | 50969398 | 50970074 | 8    | 1.3864  |
|   | 22 | 50984773 | 51237756 | 386  | 0.364   |
| X |    | 200744   | 320729   | 127  | 1.0148  |
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| X |    | 322096   | 2420656  | 593  | 1.1166  |
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| X |    | 2640487  | 2641183  | 8    | 2.3308  |
| X |    | 2641283  | 10163161 | 1171 | 1.1021  |
| X |    | 10165846 | 10166134 | 4    | 2.757   |
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| X |    | 45011173 | 48163238 | 1536 | 1.2733  |
| X |    | 48163273 | 48163414 | 3    | 3.5227  |
| X |    | 48163491 | 49158031 | 1378 | 1.2504  |
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| X | 152555248 | 152935120 | 428  | 1.1706  |
| X | 152935220 | 152935420 | 3    | -0.457  |
| X | 152935909 | 154563840 | 2124 | 1.0814  |
| X | 154721001 | 154722210 | 7    | 2.393   |
| X | 154722282 | 155250791 | 280  | 0.7361  |
| X | 155250835 | 155251297 | 3    | 2.531   |
| X | 155251397 | 155257838 | 57   | 0.9192  |
| Y | 2655063   | 5742457   | 115  | -0.307  |
| Y | 6113181   | 6341792   | 42   | 0.5063  |
| Y | 6364549   | 7540164   | 42   | -0.3665 |
| Y | 7540264   | 7543726   | 15   | 0.5486  |
| Y | 7555798   | 7666806   | 25   | -0.0076 |
| Y | 7666906   | 7937192   | 22   | -0.8076 |
| Y | 7937232   | 8144855   | 41   | 0.1255  |
| Y | 8145116   | 9004515   | 74   | -0.3282 |
| Y | 9004615   | 9160634   | 73   | 0.1064  |
| Y | 9160734   | 9386660   | 114  | 0.9016  |
| Y | 9386760   | 9968125   | 156  | -0.0033 |
| Y | 9968225   | 10012106  | 14   | 1.1927  |
| Y | 10028164  | 13329192  | 66   | 0.2608  |
| Y | 13329292  | 13368576  | 11   | -0.8512 |
| Y | 13458740  | 13488153  | 6    | 0.8732  |
| Y | 13488672  | 13489612  | 3    | 3.0937  |
| Y | 13496165  | 14106840  | 96   | 0.483   |
| Y | 14107140  | 15360895  | 327  | 0.0571  |
| Y | 15360995  | 15361881  | 7    | -1.0969 |
| Y | 15362809  | 15470541  | 81   | 0.0825  |
| Y | 15470604  | 15472554  | 17   | 0.4728  |
| Y | 15478165  | 21629152  | 132  | -0.2612 |
| Y | 21629252  | 21646267  | 38   | 0.4446  |
| Y | 21646350  | 23702800  | 202  | -0.3092 |
| Y | 23702883  | 23710941  | 14   | 0.9708  |
| Y | 23749531  | 28585351  | 248  | 0.1309  |
| Y | 28586795  | 28587239  | 6    | 1.8823  |
| Y | 28600068  | 58827459  | 75   | 0.0088  |
| Y | 58979464  | 59002890  | 18   | 0.9142  |