chr21:45321800-45322000 | BX322557.13 | -14706 | C21orf93 | -16743 | NCRNA00316 | 19990 | NCRNA00316 | 16589 | BX322557.13 | -16665 | | | -----> 21_6022 ----> chr21_45322000 ... chr21:45343100-45343300 | NCRNA00316 | -1210 | BX322557.13 | 6494 | BX322559.3 | 36424 | BX322557.13 | 4535 | NCRNA00316 | -4611 | NCRNA00316 | | -----> 21_6034 ----> chr21_45343200 chr21:45343100-45343300 | NCRNA00316 | -1310 | BX322557.13 | 6594 | BX322559.3 | 36324 | BX322557.13 | 4635 | NCRNA00316 | -4711 | NCRNA00316 | | -----> 21_6034 ----> chr21_45343300 -0.83 -0.52 -0.37 -0.15 -0.24 -0.34 -0.25 -0.25 -0.24 -0.34 -0.2 0.05 0.04 0.03 -0.1 0.03 -0.05 -0.24 -0.25 -0.28 -0.39 -0.28 -0.39 -0.28 -0.39 -0.28 -0.39 -0.28 -0.39 -0.28 -0.39 -0.29 chr21:45501300-45501600 | MIR6815 | 23135 | SLC19A1 | 33306 | COL18A1 | -12319 | SLC19A1 | -3200 | COL18A1 | -12319 | SLC19A1 | -3200 | COL18A1 | -3200 | -3200 | COL18A1 | -3200 | -3200 | -3200 | -3200 | -3200 | -3200 | -3200 | -3200 | -3200 | -3200 | -3200 | -3200 | 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-0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0 chr21:46051400-46051600 | AP001476.4 | -1095 | AP001476.3 | -5015 | AP001476.2 | 14449 | AP001476.4 | -1605 | AP001476.4 | -1605 | AP001476.4 | | AP001476.4 | -----> 21_6390 -----> chr21_46051500 -0.39 -0.05 -0.14 -0.12 -0.09 chr21:46120200-46120400 | chr21:46120400 | ch $chr21:46125800-46126000 \mid COL6A2 \mid -3805 \mid FTCD \mid 10261 \mid \mid COL6A2 \mid -3805 \mid FTCD \mid 10261 \mid \mid COL6A2 \mid -3805 \mid FTCD \mid 10261 \mid \mid COL6A2 \mid -3805 \mid FTCD \mid 10261 \mid \mid COL6A2 \mid -3805 \mid FTCD \mid 10261 \mid \mid COL6A2 \mid -3805 \mid FTCD \mid 10261 \mid \mid COL6A2 \mid -3805 \mid FTCD \mid 10261 \mid \mid COL6A2 \mid -3805 \mid FTCD \mid 10261 \mid \mid COL6A2 \mid -3805 \mid FTCD \mid 10261 \mid \mid COL6A2 \mid -3805 \mid FTCD \mid 10261 \mid \mid COL6A2 \mid -3805 \mid FTCD \mid 10261 \mid \mid COL6A2 \mid -3805 \mid FTCD \mid 10261 \mid \mid COL6A2 \mid -3805 \mid FTCD \mid 10261 \mid \mid COL6A2 \mid -3805 \mid FTCD \mid 10261 \mid \mid COL6A2 \mid -3805 \mid FTCD \mid -38$ chr21:46160800-46162600 | FTCD | -5333 | AP001475.1 | 9287 | SPATC1L | 23559 | SPATC1L | 247 | AP001475.1 | 8253 | | | SPATC1L -----> 21_6441 -----> chr21_46160900 chr21:46160800-46162600 | FTCD | -5533 | AP001475.1 | 9487 | SPATC1L | 23359 | SPATC1L | 47 | AP001475.1 | 8453 | | | SPATC1L -----> 21_6441 ----> chr21_46161100 chr21:46160800-46162600 | FTCD | -5833 | AP001475.1 | 9787 | SPATC1L | 23059 | SPATC1L | -240 | AP001475.1 | 8753 | | SPATC1L | SPATC1L -----> 21_6441 ----> chr21_46161400 chr21:46160800-46162600 | FTCD | -6033 | AP001475.1 | 9987 | SPATC1L | 22859 | SPATC1L | -440 | AP001475.1 | 8953 | | SPATC1L | SPATC1L -----> 21_6441 -----> chr21_46161600 chr21:46160800-46162600 | FTCD | -6133 | AP001475.1 | 10087 | SPATC1L | 22759 | SPATC1L | -540 | AP001475.1 | 9053 | | SPATC1L | SPATC1L | -----> 21_6441 ----> chr21_46161700 chr21:46160800-46162600 | FTCD | -6233 | AP001475.1 | 10187 | SPATC1L | 22659 | SPATC1L | -640 | AP001475.1 | 9153 | | SPATC1L | SPATC1L | -----> 21_6441 -----> chr21_46161800 chr21:46160800-46162600 | FTCD | -6333 | AP001475.1 | 10287 | SPATC1L | 22559 | SPATC1L | -740 | AP001475.1 | 9253 | | SPATC1L | SPATC1L -----> 21_6441 -----> chr21_46161900 chr21:46160800-46162600 | FTCD | -6433 | AP001475.1 | 10387 | SPATC1L | 22459 | SPATC1L | -840 | AP001475.1 | 9353 | | SPATC1L | SPATC1L | -----> 21_6441 -----> chr21_46162000 chr21:46160800-46162600 | FTCD | -6533 | AP001475.1 | 10487 | SPATC1L | 22359 | SPATC1L | -940 | AP001475.1 | 9453 | | SPATC1L | SPATC1L | -----> 21_6441 ----> chr21_46162100 .13 0.09 -0.07 -0.07 0.34 0.37 chr21:46160800-46162600 | FTCD | -6633 | AP001475.1 | 10587 | SPATC1L | 22259 | SPATC1L | -1040 | AP001475.1 | 9553 | | SPATC1L | SPATC1L | -----> 21_6441 ----> chr21_46162200 chr21:46160800-46162600 | FTCD | -6733 | AP001475.1 | 10687 | SPATC1L | 22159 | SPATC1L | -1140 | AP001475.1 | 9653 | | SPATC1L | SPATC1L | -----> 21_6441 -----> chr21_46162300 -0.03 0.02 0.06 0.38 chr21:46160800-46162600 | FTCD | -6833 | AP001475.1 | 10787 | SPATC1L | 22059 | SPATC1L | -1240 | AP001475.1 | 9753 | | SPATC1L | SPATC1L | -----> 21_6441 -----> chr21_46162400 -0.16 -0.07 -0.64 0.06 0.03 0.15 0.66 chr21:46160800-46162600 | FTCD | -6933 | AP001475.1 | 10887 | SPATC1L | 21959 | SPATC1L | -1340 | AP001475.1 | 9853 | | SPATC1L | SPATC1L | -----> 21_6441 ----> chr21_46162500 chr21:46160800-46162600 | FTCD | -7033 | AP001475.1 | 10987 | SPATC1L | 21859 | SPATC1L | -1440 | AP001475.1 | 9953 | | SPATC1L | SPATC1L | -----> 21_6441 ----> chr21_4616260 chr21:46184100-46185500 | SPATC1L | 259 | AP001468.58 | -878 | FTCD | -28633 | LSS | 3940 | AP001468.58 | -4741 | SPATC1L, AP001468.58 | SPATC1L | -----> 21_6451 ----> chr21_46184200 chr21:46184100-46185500 | SPATC1L | 159 | AP001468.58 | -778 | FTCD | -28733 | LSS | 3840 | AP001468.58 | -4641 | SPATC1L, AP001468.58 | SPATC1L | -----> 21_6451 ----> chr21_46184300 chr21:46184100-46185500 | SPATC1L | 59 | AP001468.58 | -678 | FTCD | -28833 | LSS | 3740 | AP001468.58 | -4541 | SPATC1L, AP001468.58 | SPATC1L | -----> 21_6451 ----> chr21_46184400 chr21:46184100-46185500 | SPATC1L | -24 | AP001468.58 | -578 | FTCD | -28933 | LSS | 3640 | AP001468.58 | -4441 | SPATC1L, AP001468.58 | SPATC1L | -----> 21_6451 -----> chr21_46184500 chr21:46184100-46185500 | SPATC1L | -124 | AP001468.58 | -478 | FTCD | -29033 | LSS | 3540 | AP001468.58 | -4341 | SPATC1L, AP001468.58 | | -----> 21_6451 ----> chr21_46184600 chr21:46184100-46185500 | SPATC1L | -224 | AP001468.58 | -378 | FTCD | -29133 | LSS | 3440 | AP001468.58 | -4241 | SPATC1L, AP001468.58 | | -----> 21_6451 ----> chr21_46184700 chr21:46184100-46185500 | AP001468.58 | -278 | SPATC1L | -324 | FTCD | -29233 | LSS | 3340 | AP001468.58 | -4141 | SPATC1L, AP001468.58 | | -----> 21_6451 -----> chr21_46184800 chr21:46184100-46185500 | AP001468.58 | -178 | SPATC1L | -424 | FTCD | -29333 | LSS | 3240 | AP001468.58 | -4041 | SPATC1L, AP001468.58 | | -----> 21_6451 -----> chr21_46184900 chr21:46184100-46185500 | AP001468.58 | -78 | SPATC1L | -524 | FTCD | -29433 | LSS | 3140 | AP001468.58 | -3941 | SPATC1L, AP001468.58 | | -----> 21_6451 -----> chr21_46185000 chr21:46184100-46185500 | AP001468.58 | 22 | SPATC1L | -624 | FTCD | -29533 | LSS | 3040 | AP001468.58 | -3841 | SPATC1L, AP001468.58 | AP001468.58 | -----> 21_6451 ----> chr21_46185100 chr21:46184100-46185500 | AP001468.58 | 122 | SPATC1L | -724 | FTCD | -29633 | LSS | 2940 | AP001468.58 | -3741 | SPATC1L, AP001468.58 | AP001468.58 | LSS -----> 21_6451 -----> chr21_46185200 chr21:46184100-46185500 | AP001468.58 | 222 | SPATC1L | -824 | FTCD | -29733 | LSS | 2840 | AP001468.58 | -3641 | SPATC1L, AP001468.58 | AP001468.58 | LSS -----> 21_6451 -----> chr21_46185300 chr21:46184100-46185500 | AP001468.58 | 422 | SPATC1L | -1024 | FTCD | -29933 | LSS | 2640 | AP001468.58 | AP001468.58 | AP001468.58 | LSS -----> 21_6451 -----> chr21_46185500 chr21:46221700-46221900 | AP001469.5 | 1457 | LSS | 6981 | MCM3APAS | -7430 | AP001469.5 | -3564 | MCM3AP | 13325 | AP001469.5 | AP001469.5, LSS | -----> 21_6462 ----> chr21_46221800 chr21:46221700-46221900 | AP001469.5 | 1557 | LSS | 6881 | MCM3APAS | -7330 | AP001469.5 | -3464 | MCM3AP | 13225 | AP001469.5 | AP001469.5, LSS | -----> 21_6462 ----> chr21_46221900 chr21:46268900-46269100 | AP001469.9 | -14867 | MCM3AP | 16394 | YBEY | -17336 | AP001469.9 | -17189 | MCM3APAS | 17299 | | MCM3AP | -----> 21_6478 ----> chr21_46269000 chr21:46268900-46269100 | AP001469.9 | -14967 | MCM3AP | 16294 | YBEY | -17236 | AP001469.9 | -17289 | MCM3APAS | 17399 | | MCM3AP | -----> 21_6478 ----> chr21_46269100 chr21:46290800-46291000 | YBEY | 4256 | MCM3AP | -4603 | C21orf58 | 28237 | YBEY | -6823 | C21orf58 | 9529 | | YBEY | -----> 21_6485 ----> chr21_46290900 0.04 -0.08 0.04 -0.18 0.04 0.17 0.22 0.31 chr21:46509800-46510000 | RNU6-396P | -15717 | AP000337.3 | 47430 | DIP2A | 50790 | RNU6-396P | -15822 | DIP2A | -37305 | | DIP2A | -----> 21_6553 ----> chr21_46509900 chr21:46509800-46510000 | RNU6-396P | -15617 | AP000337.3 | 47530 | DIP2A | 50890 | RNU6-396P | -15722 | DIP2A | -37205 | | DIP2A | -----> 21_6553 -----> chr21_46510000 •-- ---- chr21_46510000 •-- ----chr21:46594300-46594800 | S100B | 8493 | PRMT2 | -40766 | RNU6-396P | 68783 | S100B | 4561 | DIP2A | 24548 | | | -----> 21_6569 -----> chr21_46594400 chr21:46594300-46594800 | S100B | 8393 | PRMT2 | -40666 | RNU6-396P | 68883 | S100B | 4461 | DIP2A | 24648 | | | -----> 21_6569 -----> chr21_46594500 chr21:46594300-46594800 | S100B | 8293 | PRMT2 | -40566 | RNU6-396P | 68983 | S100B | 4361 | DIP2A | 24748 | | | -----> 21_6569 ----> chr21_46594600 chr21:46594300-46594800 | S100B | 8093 | PRMT2 | -40366 | RNU6-396P | 69183 | S100B | 4161 | DIP2A | 24948 | | | -----> 21_6569 ----> chr21_46594800 chr21:46643400-46643800 | PRMT2 | -33 | S100B | -38292 | RNU6-396P | 117883 | PRMT2 | -6393 | S100B | -44220 | PRMT2 | -----> 21_6581 ----> chr21_46643500 chr21:46643400-46643800 | PRMT2 | 67 | S100B | -38392 | RNU6-396P | 117983 | PRMT2 | -6293 | S100B | -44320 | | PRMT2 | -----> 21_6581 ----> chr21_46643600

-0.2

---- -0.6

chr21:46643400-46643800 | PRMT2 | 167 | S100B | -38492 | RNU6-396P | 118083 | PRMT2 | -6193 | S100B | -44420 | | PRMT2 | -----> 21_6581 ----> chr21_46643700