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|--------|------|-------|--------|--------|--------------|------|----------|-------------|
| 58799 | 109 | 101 | 179.36 | 178.2 | -0.009360846 | Down | 0.966042 | 0.970825541 |
| 74157 | 69 | 64 | 71.91 | 71.52 | -0.007845673 | Down | 0.978786 | 0.981735572 |
| 98828 | 88.9 | 82.49 | 371.47 | 369.47 | -0.007788477 | Down | 0.999058 | 0.999058 |
| 268564 | 14 | 13 | 23.41 | 23.3 | -0.00679498 | Down | 0.998478 | 0.998598009 |
| 78887 | 28 | 26 | 46.53 | 46.32 | -0.006525934 | Down | 0.992784 | 0.993858959 |
| 66105 | 42 | 39 | 107.8 | 107.32 | -0.006438218 | Down | 0.989072 | 0.990858188 |
| 230649 | 14 | 13 | 40.46 | 40.28 | -0.006432637 | Down | 0.998478 | 0.998718048 |
| 21770 | 14 | 13 | 32.11 | 31.97 | -0.006303921 | Down | 0.998478 | 0.998838115 |
| 18132 | 14 | 13 | 14.13 | 14.07 | -0.006139137 | Down | 0.998478 | 0.999078335 |
| 27057 | 14 | 13 | 23.69 | 23.59 | -0.00610278 | Down | 0.998478 | 0.999198489 |
| 57247 | 14 | 13 | 19.17 | 19.09 | -0.006033234 | Down | 0.998478 | 0.998958211 |
| 231151 | 14 | 13 | 24.71 | 24.61 | -0.005850353 | Down | 0.998478 | 0.999318672 |
| 67266 | 127 | 118 | 313.23 | 312.01 | -0.005630127 | Down | 0.979864 | 0.98257994 |
| 235542 | 43 | 40 | 60.11 | 59.95 | -0.003845266 | Down | 0.99528 | 0.996237806 |

Supplementary Table 2 Differentially expressed unknown genes in CDK5-knockdown versus wild-type mice skin

| geneID | Wild-type -Expressi on | CDK5-knock down-Expres sion | Wild-type -FPKM | CDK5-knockdown n-FPKM | log2 Ratio(CDK5-knoc kdown/Wild-type) | Up-Down-Regulation(CDK 5-knockdown/Wild-type) | P-value | FDR |
|-----------|------------------------------|-----------------------------------|--------------------|--------------------------|---|--|-------------|-------------|
| 225884 | 0 | 4 | 0.001 | 43.92 | 15.42259043 | Up | 0.052321 | 0.355688759 |
| 633640 | 0 | 8 | 0.001 | 31.71 | 14.95265026 | Up | 0.00283656 | 0.060520553 |
| 100328588 | 0 | 9.77 | 0.001 | 30.41 | 14.8922582 | Up | 0.001368742 | 0.036739684 |
| 627302 | 0 | 7 | 0.001 | 27.98 | 14.77210834 | Up | 0.00587846 | 0.102331937 |
| 66206 | 0 | 5 | 0.001 | 25.53 | 14.63990592 | Up | 0.0252468 | 0.249499552 |
| 75328 | 0 | 7 | 0.001 | 18.82 | 14.19997901 | Up | 0.00587846 | 0.102546469 |

| | | | | | | | | |
|-----------|---|------|-------|-------|-------------|----|-----------|-------------|
| 69987 | 0 | 2.28 | 0.001 | 18.74 | 14.19383333 | Up | 0.224708 | 0.689198403 |
| 78896 | 0 | 2 | 0.001 | 16.69 | 14.02669633 | Up | 0.224708 | 0.653317704 |
| 68026 | 0 | 5 | 0.001 | 15.12 | 13.88417052 | Up | 0.0252468 | 0.254949785 |
| 77798 | 0 | 2 | 0.001 | 14.64 | 13.83762793 | Up | 0.224708 | 0.675016342 |
| 546347 | 0 | 1.39 | 0.001 | 13.93 | 13.76590764 | Up | 0.46568 | 0.785829098 |
| 66714 | 0 | 3 | 0.001 | 13.68 | 13.73978061 | Up | 0.1084294 | 0.506592385 |
| 100554 | 0 | 2 | 0.001 | 12.09 | 13.56152662 | Up | 0.224708 | 0.694574765 |
| 271278 | 0 | 4 | 0.001 | 10.85 | 13.40540742 | Up | 0.052321 | 0.345526223 |
| 100040299 | 0 | 1 | 0.001 | 10.36 | 13.33873638 | Up | 0.46568 | 0.828152015 |
| 230991 | 0 | 3 | 0.001 | 10 | 13.28771238 | Up | 0.1084294 | 0.503482722 |
| 74054 | 0 | 5.06 | 0.001 | 9.15 | 13.15955603 | Up | 0.0252468 | 0.251892833 |
| 68281 | 0 | 3 | 0.001 | 8.95 | 13.12767197 | Up | 0.1084294 | 0.502081824 |
| 74426 | 0 | 2 | 0.001 | 8.27 | 13.01367161 | Up | 0.224708 | 0.634043835 |
| 240755 | 0 | 2 | 0.001 | 8.2 | 13.00140819 | Up | 0.224708 | 0.638809453 |
| 97187 | 0 | 2 | 0.001 | 7.94 | 12.95492329 | Up | 0.224708 | 0.646987982 |
| 243780 | 0 | 2 | 0.001 | 7.42 | 12.85720347 | Up | 0.224708 | 0.660005389 |
| 100041433 | 0 | 3 | 0.001 | 7.31 | 12.83565569 | Up | 0.1084294 | 0.486908277 |
| 57355 | 0 | 2 | 0.001 | 7.13 | 12.79968636 | Up | 0.224708 | 0.696645033 |
| 70920 | 0 | 1 | 0.001 | 7.04 | 12.78135971 | Up | 0.46568 | 0.850136744 |
| 67750 | 0 | 1 | 0.001 | 6.9 | 12.75238065 | Up | 0.46568 | 0.768529012 |
| 77727 | 0 | 1 | 0.001 | 6.82 | 12.73555602 | Up | 0.46568 | 0.80845468 |
| 101835 | 0 | 3 | 0.001 | 6.32 | 12.62570884 | Up | 0.1084294 | 0.491416687 |
| 233103 | 0 | 5 | 0.001 | 6.16 | 12.58871464 | Up | 0.0252468 | 0.2434283 |
| 667803 | 0 | 1 | 0.001 | 5.67 | 12.46913302 | Up | 0.46568 | 0.781707339 |
| 80748 | 0 | 2 | 0.001 | 5.13 | 12.32474311 | Up | 0.224708 | 0.650137437 |
| 230757 | 0 | 2 | 0.001 | 5.05 | 12.30206767 | Up | 0.224708 | 0.683904634 |

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|-----------|-------|--------|--------|---------|-------------|----|-------------|-------------|
| 212439 | 0 | 2 | 0.001 | 4.89 | 12.25561875 | Up | 0.224708 | 0.634905015 |
| 622019 | 0 | 1 | 0.001 | 4.31 | 12.07347215 | Up | 0.46568 | 0.76670425 |
| 72190 | 0 | 3 | 0.001 | 4.16 | 12.02236781 | Up | 0.1084294 | 0.49222097 |
| 75799 | 0 | 1 | 0.001 | 3.93 | 11.9403136 | Up | 0.46568 | 0.852943711 |
| 243219 | 0 | 3 | 0.001 | 3.68 | 11.84549005 | Up | 0.1084294 | 0.493027889 |
| 69053 | 0 | 2 | 0.001 | 3.52 | 11.78135971 | Up | 0.224708 | 0.683155012 |
| 66839 | 0 | 1 | 0.001 | 3 | 11.55074679 | Up | 0.46568 | 0.824627214 |
| 232217 | 0 | 1 | 0.001 | 2.75 | 11.4252159 | Up | 0.46568 | 0.777160706 |
| 434223 | 0 | 3 | 0.001 | 2.47 | 11.27029533 | Up | 0.1084294 | 0.517043574 |
| 328829 | 0 | 1 | 0.001 | 2 | 10.96578428 | Up | 0.46568 | 0.792093884 |
| 223593 | 0 | 1 | 0.001 | 1.78 | 10.79766153 | Up | 0.46568 | 0.769597474 |
| 214239 | 0 | 1 | 0.001 | 1.52 | 10.56985561 | Up | 0.46568 | 0.810483849 |
| 237029 | 1 | 15.88 | 1.84 | 31.36 | 4.091147888 | Up | 0.000160331 | 0.006293 |
| 224833 | 1 | 8 | 1.33 | 11.38 | 3.097002407 | Up | 0.01604696 | 0.18859711 |
| 100041840 | 33 | 253.93 | 142.38 | 1174.32 | 3.044007182 | Up | 7.44E-47 | 7.74E-44 |
| 100039863 | 0.25 | 1 | 2.45 | 16.29 | 2.73313295 | Up | 0.46568 | 0.804593704 |
| 100039939 | 0.25 | 1 | 2.45 | 16.29 | 2.73313295 | Up | 0.46568 | 0.776537731 |
| 67326 | 4 | 18 | 22.02 | 106.18 | 2.269625673 | Up | 0.001495712 | 0.038294829 |
| 319266 | 1.02 | 4.43 | 1.88 | 8.77 | 2.221844181 | Up | 0.1876922 | 0.61031137 |
| 215928 | 2 | 9 | 5.68 | 25.5 | 2.166534412 | Up | 0.0286094 | 0.262179314 |
| 668661 | 1 | 4 | 3.37 | 14.47 | 2.102244425 | Up | 0.1876922 | 0.607699142 |
| 75304 | 2 | 7 | 4.05 | 15.18 | 1.906177978 | Up | 0.0868802 | 0.453532085 |
| 626802 | 16.52 | 54.42 | 27.28 | 96.35 | 1.820441022 | Up | 8.97E-07 | 6.98E-05 |
| 100317 | 3 | 9 | 5.15 | 16.86 | 1.710960199 | Up | 0.0703334 | 0.427497605 |
| 101148 | 1 | 3 | 1.61 | 5.19 | 1.68867385 | Up | 0.332862 | 0.70120119 |
| 68283 | 1 | 3 | 3.1 | 9.98 | 1.6867716 | Up | 0.332862 | 0.698724698 |

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|-----------|-------|--------|--------|--------|-------------|----|-------------|-------------|
| 74359 | 1 | 3 | 2.6 | 8.37 | 1.686716 | Up | 0.332862 | 0.701556409 |
| 320095 | 1 | 3 | 4.27 | 13.74 | 1.686074029 | Up | 0.332862 | 0.69679112 |
| 109299 | 1 | 3 | 2.91 | 9.36 | 1.685489377 | Up | 0.332862 | 0.695740945 |
| 117171 | 1 | 3 | 6.14 | 19.74 | 1.684811429 | Up | 0.332862 | 0.685071655 |
| 75480 | 1 | 3 | 9.2 | 29.57 | 1.684428477 | Up | 0.332862 | 0.684902251 |
| 225995 | 1 | 3 | 4.16 | 13.37 | 1.684344032 | Up | 0.332862 | 0.69784447 |
| 223739 | 1 | 3 | 1.33 | 4.27 | 1.682809824 | Up | 0.332862 | 0.69209013 |
| 207819 | 19.83 | 52.96 | 28.84 | 82.58 | 1.517721254 | Up | 2.13E-05 | 0.001145109 |
| 100233208 | 9.96 | 26.13 | 14.02 | 39.42 | 1.491441427 | Up | 0.001996508 | 0.048575857 |
| 78703 | 25 | 62 | 195.82 | 520.31 | 1.409843314 | Up | 1.52E-05 | 0.000857781 |
| 76964 | 7 | 17 | 26.88 | 69.97 | 1.380203354 | Up | 0.0281488 | 0.265261795 |
| 225594 | 53 | 124 | 125.4 | 314.54 | 1.326706148 | Up | 4.77E-09 | 5.67E-07 |
| 434234 | 2 | 5 | 7.42 | 18.02 | 1.280107919 | Up | 0.245598 | 0.670699363 |
| 628308 | 85.48 | 192.23 | 122.43 | 295.21 | 1.269784476 | Up | 1.49E-12 | 3.35E-10 |
| 319772 | 7 | 15 | 23.56 | 54.12 | 1.1998223 | Up | 0.0647598 | 0.400346431 |
| 545652 | 14.69 | 31.44 | 64.08 | 147.02 | 1.198066374 | Up | 0.00565008 | 0.101106055 |
| 100043915 | 3.59 | 7.44 | 5.28 | 11.74 | 1.152822574 | Up | 0.1846234 | 0.618209783 |
| 627914 | 3.59 | 7.44 | 5.28 | 11.74 | 1.152822574 | Up | 0.1846234 | 0.617961107 |
| 100043381 | 3.59 | 7.44 | 5.28 | 11.74 | 1.152822574 | Up | 0.1846234 | 0.616968398 |
| 668039 | 3.59 | 7.44 | 5.28 | 11.74 | 1.152822574 | Up | 0.1846234 | 0.614992519 |
| 68045 | 75 | 153 | 337.43 | 737.81 | 1.128661097 | Up | 1.01E-08 | 1.14E-06 |
| 69315 | 1 | 2 | 3.74 | 8.02 | 1.100563967 | Up | 0.573542 | 0.725846841 |
| 78625 | 2 | 4 | 5.48 | 11.75 | 1.100412958 | Up | 0.397842 | 0.785955195 |
| 70691 | 1 | 2 | 6.74 | 14.45 | 1.100248996 | Up | 0.573542 | 0.722550035 |
| 69770 | 1 | 2 | 10.78 | 23.1 | 1.099535674 | Up | 0.573542 | 0.729954571 |
| 381272 | 2 | 4 | 21.67 | 46.42 | 1.099047369 | Up | 0.397842 | 0.782610705 |

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|-----------|-------|--------|--------|--------|-------------|----|-------------|-------------|
| 68544 | 2 | 4 | 14.78 | 31.66 | 1.099014986 | Up | 0.397842 | 0.785395796 |
| 408059 | 1 | 2 | 4.03 | 8.63 | 1.098580721 | Up | 0.573542 | 0.731745321 |
| 667962 | 1.93 | 1.91 | 3.6 | 7.65 | 1.087462841 | Up | 0.947628 | 0.98874139 |
| 100303732 | 1.93 | 1.91 | 3.6 | 7.65 | 1.087462841 | Up | 0.947628 | 0.960557021 |
| 76421 | 4 | 7 | 8.67 | 16.26 | 0.907223359 | Up | 0.323714 | 0.688554242 |
| 668208 | 14.67 | 25.3 | 34.55 | 63.9 | 0.887130221 | Up | 0.049088 | 0.363076665 |
| 100101807 | 38.73 | 66.06 | 67.09 | 122.69 | 0.870848016 | Up | 0.001909832 | 0.0470169 |
| 319493 | 67 | 113.96 | 151.39 | 276.06 | 0.86671195 | Up | 9.43E-05 | 0.004085585 |
| 665211 | 3 | 5 | 22.88 | 40.85 | 0.836249026 | Up | 0.4415 | 0.822045536 |
| 100038657 | 3 | 5 | 26.26 | 46.88 | 0.836105654 | Up | 0.4415 | 0.825926596 |
| 243308 | 20 | 31 | 42.48 | 70.6 | 0.732884417 | Up | 0.0749048 | 0.406842585 |
| 102631730 | 24.19 | 37 | 231.57 | 379.34 | 0.712043143 | Up | 0.0535778 | 0.346134219 |
| 100041574 | 48.22 | 72.9 | 153.41 | 248.63 | 0.696607857 | Up | 0.01012224 | 0.149074618 |
| 74098 | 2 | 3 | 8.75 | 14.08 | 0.686292412 | Up | 0.623204 | 0.759250437 |
| 72244 | 2 | 3 | 3.99 | 6.42 | 0.686184551 | Up | 0.623204 | 0.759695354 |
| 233913 | 2 | 3 | 5.16 | 8.3 | 0.685740271 | Up | 0.623204 | 0.760698325 |
| 73667 | 2 | 3 | 7.7 | 12.38 | 0.685080964 | Up | 0.623204 | 0.763723194 |
| 67388 | 2 | 3 | 12.89 | 20.72 | 0.684771739 | Up | 0.623204 | 0.762824431 |
| 319482 | 2 | 3 | 1.68 | 2.7 | 0.684498174 | Up | 0.623204 | 0.766772214 |
| 100041261 | 2 | 3 | 20.19 | 32.44 | 0.684132909 | Up | 0.623204 | 0.764398656 |
| 215467 | 2 | 3 | 13.49 | 21.65 | 0.682476677 | Up | 0.623204 | 0.764285996 |
| 269700 | 2 | 3 | 0.86 | 1.38 | 0.682259702 | Up | 0.623204 | 0.764624076 |
| 100504263 | 28.52 | 42.09 | 49.77 | 78.75 | 0.662003536 | Up | 0.0500422 | 0.364624471 |
| 102639598 | 28.52 | 42.09 | 49.77 | 78.75 | 0.662003536 | Up | 0.0500422 | 0.364305465 |
| 100043133 | 52 | 75 | 97.24 | 150.37 | 0.628894968 | Up | 0.01500216 | 0.185212127 |
| 231807 | 5 | 7 | 13.15 | 19.74 | 0.58605919 | Up | 0.496454 | 0.805576001 |

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|-----------|--------|--------|--------|--------|-------------|----|-----------|-------------|
| 67593 | 20.56 | 27.24 | 67.94 | 96.51 | 0.506417218 | Up | 0.210074 | 0.668205563 |
| 77877 | 24.19 | 31.7 | 40.73 | 57.22 | 0.490427683 | Up | 0.231074 | 0.640708682 |
| 240613 | 7 | 9 | 5.81 | 8.01 | 0.463264079 | Up | 0.529262 | 0.838535625 |
| 100529082 | 76.75 | 95.99 | 389.15 | 521.62 | 0.422672829 | Up | 0.0563802 | 0.354335079 |
| 330173 | 19.24 | 24.01 | 140.43 | 187.72 | 0.418731195 | Up | 0.32412 | 0.6871344 |
| 58248 | 21 | 26 | 75.15 | 99.73 | 0.408254446 | Up | 0.334926 | 0.687958343 |
| 67392 | 22 | 27 | 56.08 | 73.78 | 0.39574344 | Up | 0.339754 | 0.688192073 |
| 228602 | 13.04 | 14.96 | 12.88 | 16.1 | 0.321928095 | Up | 0.707696 | 0.808670477 |
| 240327 | 7 | 8.01 | 17.77 | 21.8 | 0.294884454 | Up | 0.696088 | 0.803349272 |
| 623781 | 14 | 16 | 30.62 | 37.52 | 0.293185545 | Up | 0.5793 | 0.717421536 |
| 100190996 | 3.24 | 3.64 | 5.38 | 6.47 | 0.266159539 | Up | 0.923686 | 0.982612018 |
| 74356 | 58.42 | 64.06 | 123.41 | 145.1 | 0.233588218 | Up | 0.352886 | 0.710812008 |
| 73344 | 11 | 12 | 36.2 | 42.33 | 0.225690791 | Up | 0.706648 | 0.808805778 |
| 381994 | 23 | 24 | 155.85 | 174.26 | 0.161083293 | Up | 0.698442 | 0.805507399 |
| 100042856 | 0.75 | 0.76 | 0.56 | 0.61 | 0.123382416 | Up | 0.96507 | 0.971021459 |
| 100043665 | 0.98 | 0.98 | 3.83 | 4.13 | 0.108797389 | Up | 0.96507 | 0.971138889 |
| 620078 | 1 | 1 | 3.58 | 3.85 | 0.104898858 | Up | 0.947628 | 0.966206664 |
| 319277 | 182.41 | 182.88 | 207.49 | 223.06 | 0.10439002 | Up | 0.504144 | 0.815826959 |
| 76982 | 3 | 3 | 6.31 | 6.77 | 0.101515829 | Up | 0.923686 | 0.986521782 |
| 78809 | 3 | 3 | 5.24 | 5.62 | 0.101003319 | Up | 0.923686 | 0.980481083 |
| 66523 | 2 | 2 | 9.85 | 10.56 | 0.100414205 | Up | 0.93456 | 0.979158116 |
| 103712 | 2 | 2 | 8.34 | 8.94 | 0.100227448 | Up | 0.93456 | 0.986361461 |
| 381306 | 9 | 9 | 20.62 | 22.1 | 0.100002037 | Up | 0.87736 | 0.958072514 |
| 68067 | 2 | 2 | 11.72 | 12.56 | 0.099863894 | Up | 0.93456 | 0.989247393 |
| 69066 | 4 | 4 | 24.94 | 26.72 | 0.099458543 | Up | 0.914182 | 0.982423921 |
| 73737 | 1 | 1 | 10.39 | 11.13 | 0.099257938 | Up | 0.947628 | 0.983806935 |

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|-----------|--------|-------|---------|---------|--------------|------|-------------|-------------|
| 68920 | 1 | 1 | 8.86 | 9.49 | 0.099101388 | Up | 0.947628 | 0.960206112 |
| 73363 | 3 | 3 | 21.38 | 22.9 | 0.099085745 | Up | 0.923686 | 0.979981028 |
| 73103 | 1 | 1 | 6.67 | 7.14 | 0.098237313 | Up | 0.947628 | 0.981602463 |
| 240038 | 45.14 | 44.8 | 61.77 | 65.73 | 0.089645654 | Up | 0.820372 | 0.910661074 |
| 319887 | 25.36 | 24.84 | 82.22 | 86.33 | 0.070372617 | Up | 0.914714 | 0.980084367 |
| 639910 | 23 | 22.24 | 109.64 | 113.65 | 0.051823451 | Up | 0.927438 | 0.983460125 |
| 228356 | 761 | 723 | 1091.73 | 1118.42 | 0.034845963 | Up | 0.718556 | 0.820741864 |
| 68115 | 0 | 5 | 0.001 | 27.57 | 14.75081165 | Up | 0.0252468 | 0.244277468 |
| 625424 | 5 | 7 | 14.9 | 22.36 | 0.585607857 | Up | 0.496454 | 0.804634541 |
| 100038993 | 113.52 | 125 | 284.64 | 336.01 | 0.239365754 | Up | 0.1879076 | 0.606273416 |
| 114585 | 43.27 | 43.64 | 137.26 | 148.41 | 0.112677046 | Up | 0.743792 | 0.846661181 |
| 545651 | 13.78 | 0 | 64.09 | 0.001 | -15.96781165 | Down | 0.000197405 | 0.007640048 |
| 67101 | 6 | 0 | 52.03 | 0.001 | -15.66705609 | Down | 0.01986984 | 0.208758761 |
| 73410 | 3 | 0 | 41.16 | 0.001 | -15.32895536 | Down | 0.1434012 | 0.582922025 |
| 546049 | 9.11 | 0 | 38.1 | 0.001 | -15.21750338 | Down | 0.0027532 | 0.061750343 |
| 225058 | 2 | 0 | 29.51 | 0.001 | -14.8489163 | Down | 0.277122 | 0.635768448 |
| 73453 | 4 | 0 | 25.32 | 0.001 | -14.62798978 | Down | 0.074205 | 0.428493966 |
| 74892 | 2 | 0 | 24.06 | 0.001 | -14.55434902 | Down | 0.277122 | 0.693096532 |
| 69349 | 3 | 0 | 22.39 | 0.001 | -14.45056691 | Down | 0.1434012 | 0.54312307 |
| 628416 | 6 | 0 | 20.07 | 0.001 | -14.292753 | Down | 0.01986984 | 0.212515345 |
| 246735 | 2 | 0 | 19.65 | 0.001 | -14.26224169 | Down | 0.277122 | 0.63524302 |
| 100502831 | 2 | 0 | 17.34 | 0.001 | -14.08181628 | Down | 0.277122 | 0.631070652 |
| 545655 | 1.23 | 0 | 15.94 | 0.001 | -13.96036401 | Down | 0.53554 | 0.701768243 |
| 100233175 | 2.54 | 0 | 14.94 | 0.001 | -13.86689253 | Down | 0.277122 | 0.657522715 |
| 666926 | 3 | 0 | 14.87 | 0.001 | -13.86011703 | Down | 0.1434012 | 0.551405446 |
| 100041062 | 1.13 | 0 | 14.59 | 0.001 | -13.83269226 | Down | 0.53554 | 0.842865205 |

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|-----------|------|---|-------|-------|--------------|------|------------|-------------|
| 66323 | 2 | 0 | 14.45 | 0.001 | -13.81878187 | Down | 0.277122 | 0.666069371 |
| 75368 | 2 | 0 | 14.05 | 0.001 | -13.77828251 | Down | 0.277122 | 0.609390106 |
| 621080 | 4 | 0 | 13.69 | 0.001 | -13.74083483 | Down | 0.074205 | 0.419469976 |
| 72275 | 1 | 0 | 13.64 | 0.001 | -13.73555602 | Down | 0.535554 | 0.773113869 |
| 330097 | 1 | 0 | 13.07 | 0.001 | -13.67397152 | Down | 0.535554 | 0.755677182 |
| 545649 | 2.8 | 0 | 13.03 | 0.001 | -13.66954946 | Down | 0.277122 | 0.675434142 |
| 433215 | 1 | 0 | 12.44 | 0.001 | -13.60269887 | Down | 0.535554 | 0.746062002 |
| 77358 | 1 | 0 | 12.37 | 0.001 | -13.59455788 | Down | 0.535554 | 0.797749434 |
| 69662 | 2 | 0 | 10.91 | 0.001 | -13.41336348 | Down | 0.277122 | 0.67071907 |
| 626832 | 6 | 0 | 10.61 | 0.001 | -13.37313704 | Down | 0.01986984 | 0.216409606 |
| 75758 | 2 | 0 | 10.25 | 0.001 | -13.32333629 | Down | 0.277122 | 0.68690264 |
| 69068 | 2 | 0 | 10.24 | 0.001 | -13.32192809 | Down | 0.277122 | 0.665108786 |
| 58251 | 3 | 0 | 10.16 | 0.001 | -13.31061278 | Down | 0.1434012 | 0.568480889 |
| 240216 | 3 | 0 | 10.05 | 0.001 | -13.29490788 | Down | 0.1434012 | 0.542629097 |
| 545653 | 1.39 | 0 | 9.87 | 0.001 | -13.26883437 | Down | 0.535554 | 0.722709753 |
| 545648 | 1.14 | 0 | 9.78 | 0.001 | -13.25561875 | Down | 0.535554 | 0.822182351 |
| 100041488 | 0.53 | 0 | 9.67 | 0.001 | -13.23930017 | Down | 0.96507 | 0.971961688 |
| 381196 | 3 | 0 | 8.94 | 0.001 | -13.12605912 | Down | 0.1434012 | 0.559419309 |
| 71952 | 3 | 0 | 8.61 | 0.001 | -13.07179752 | Down | 0.1434012 | 0.566322442 |
| 622554 | 2 | 0 | 8.41 | 0.001 | -13.03789009 | Down | 0.277122 | 0.61639459 |
| 67290 | 1 | 0 | 8.08 | 0.001 | -12.98013958 | Down | 0.535554 | 0.786069561 |
| 239673 | 3 | 0 | 7.96 | 0.001 | -12.95855272 | Down | 0.1434012 | 0.545357123 |
| 67851 | 1 | 0 | 7.7 | 0.001 | -12.91064273 | Down | 0.535554 | 0.80904654 |
| 100126226 | 2 | 0 | 7.63 | 0.001 | -12.89746734 | Down | 0.277122 | 0.676821885 |
| 670550 | 1 | 0 | 7.5 | 0.001 | -12.87267488 | Down | 0.535554 | 0.723178893 |
| 381260 | 4 | 0 | 7.41 | 0.001 | -12.85525783 | Down | 0.074205 | 0.416078036 |

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|-----------|------|---|------|-------|--------------|------|-----------|-------------|
| 72056 | 2 | 0 | 7.18 | 0.001 | -12.80976813 | Down | 0.277122 | 0.672479487 |
| 70153 | 3 | 0 | 7.14 | 0.001 | -12.80170836 | Down | 0.1434012 | 0.537980787 |
| 226777 | 3 | 0 | 7.05 | 0.001 | -12.78340754 | Down | 0.1434012 | 0.537738344 |
| 97159 | 1 | 0 | 6.92 | 0.001 | -12.75655632 | Down | 0.53554 | 0.703540944 |
| 237880 | 1 | 0 | 6.62 | 0.001 | -12.6926155 | Down | 0.53554 | 0.740729445 |
| 75555 | 1 | 0 | 6.31 | 0.001 | -12.62342429 | Down | 0.53554 | 0.766201572 |
| 217830 | 3 | 0 | 6.23 | 0.001 | -12.60501645 | Down | 0.1434012 | 0.574779087 |
| 69861 | 1 | 0 | 5.75 | 0.001 | -12.48934624 | Down | 0.53554 | 0.795612987 |
| 280621 | 1 | 0 | 5.58 | 0.001 | -12.44604941 | Down | 0.53554 | 0.803648032 |
| 100039060 | 3.72 | 0 | 5.47 | 0.001 | -12.41732512 | Down | 0.1434012 | 0.553194893 |
| 100039123 | 1 | 0 | 5.15 | 0.001 | -12.33035672 | Down | 0.53554 | 0.76070815 |
| 70984 | 2 | 0 | 4.87 | 0.001 | -12.24970606 | Down | 0.277122 | 0.689779289 |
| 320333 | 1 | 0 | 4.78 | 0.001 | -12.2227949 | Down | 0.53554 | 0.77244381 |
| 73598 | 1 | 0 | 4.72 | 0.001 | -12.20457114 | Down | 0.53554 | 0.781794446 |
| 73212 | 1 | 0 | 4.59 | 0.001 | -12.16427844 | Down | 0.53554 | 0.726480003 |
| 667693 | 2 | 0 | 4.31 | 0.001 | -12.07347215 | Down | 0.277122 | 0.642678975 |
| 226499 | 2 | 0 | 4.25 | 0.001 | -12.05324713 | Down | 0.277122 | 0.674643699 |
| 69773 | 2 | 0 | 4.23 | 0.001 | -12.04644195 | Down | 0.277122 | 0.626101592 |
| 70617 | 1 | 0 | 4.23 | 0.001 | -12.04644195 | Down | 0.53554 | 0.693684362 |
| 100043456 | 1 | 0 | 4.12 | 0.001 | -12.00842862 | Down | 0.53554 | 0.79689348 |
| 328830 | 1 | 0 | 3.95 | 0.001 | -11.94763694 | Down | 0.53554 | 0.714941174 |
| 216393 | 2 | 0 | 3.91 | 0.001 | -11.93295289 | Down | 0.277122 | 0.659780304 |
| 114671 | 1 | 0 | 3.82 | 0.001 | -11.89935692 | Down | 0.53554 | 0.690673952 |
| 100041085 | 1 | 0 | 3.8 | 0.001 | -11.8917837 | Down | 0.53554 | 0.701436855 |
| 11615 | 1 | 0 | 3.22 | 0.001 | -11.65284497 | Down | 0.53554 | 0.841432844 |
| 100861908 | 0.86 | 0 | 3.14 | 0.001 | -11.61654884 | Down | 0.96507 | 0.971608889 |

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|--------|------|------|-------|-------|--------------|------|------------|-------------|
| 66808 | 1 | 0 | 2.97 | 0.001 | -11.53624722 | Down | 0.53554 | 0.798607229 |
| 665186 | 1 | 0 | 2.88 | 0.001 | -11.4918531 | Down | 0.53554 | 0.840480637 |
| 236366 | 1 | 0 | 2.72 | 0.001 | -11.40939094 | Down | 0.53554 | 0.809340418 |
| 106064 | 2 | 0 | 2.62 | 0.001 | -11.3553511 | Down | 0.277122 | 0.677617444 |
| 67430 | 1 | 0 | 2.57 | 0.001 | -11.32755264 | Down | 0.53554 | 0.692283415 |
| 271221 | 1 | 0 | 2.54 | 0.001 | -11.31061278 | Down | 0.53554 | 0.823702096 |
| 231201 | 1 | 0 | 2.33 | 0.001 | -11.18611424 | Down | 0.53554 | 0.7542702 |
| 381622 | 1 | 0 | 2.28 | 0.001 | -11.15481811 | Down | 0.53554 | 0.70834976 |
| 74200 | 1 | 0 | 2.24 | 0.001 | -11.12928302 | Down | 0.53554 | 0.727072661 |
| 213438 | 1 | 0 | 2.24 | 0.001 | -11.12928302 | Down | 0.53554 | 0.692390979 |
| 67313 | 1 | 0 | 2.23 | 0.001 | -11.12282799 | Down | 0.53554 | 0.738642191 |
| 214489 | 1 | 0 | 2.2 | 0.001 | -11.10328781 | Down | 0.53554 | 0.818708128 |
| 242594 | 1 | 0 | 2.19 | 0.001 | -11.09671515 | Down | 0.53554 | 0.809928815 |
| 68861 | 1 | 0 | 1.69 | 0.001 | -10.72280753 | Down | 0.53554 | 0.73088869 |
| 442834 | 2 | 0 | 1.6 | 0.001 | -10.64385619 | Down | 0.277122 | 0.636294747 |
| 208111 | 1 | 0 | 1.33 | 0.001 | -10.37721053 | Down | 0.53554 | 0.728022928 |
| 212728 | 1 | 0 | 1.32 | 0.001 | -10.36632221 | Down | 0.53554 | 0.746937368 |
| 210108 | 1 | 0 | 1.3 | 0.001 | -10.34429591 | Down | 0.53554 | 0.71967512 |
| 233865 | 1 | 0 | 1.08 | 0.001 | -10.0768156 | Down | 0.53554 | 0.822030684 |
| 320492 | 0.99 | 0 | 1.07 | 0.001 | -10.06339508 | Down | 0.96507 | 0.970904059 |
| 72503 | 1 | 0 | 0.88 | 0.001 | -9.781359714 | Down | 0.53554 | 0.719326609 |
| 69155 | 9.01 | 1 | 22.6 | 2.69 | -3.070644695 | Down | 0.01603832 | 0.192021382 |
| 76482 | 9 | 1 | 28.44 | 3.39 | -3.068564286 | Down | 0.01603832 | 0.193132939 |
| 67884 | 7 | 1 | 27.96 | 4.28 | -2.707681659 | Down | 0.0499732 | 0.368640955 |
| 630836 | 6.76 | 1.07 | 17.31 | 2.93 | -2.562633155 | Down | 0.0869852 | 0.449847016 |
| 432582 | 6 | 1 | 10.03 | 1.79 | -2.486290113 | Down | 0.0869852 | 0.452377406 |

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|-----------|-------|-------|--------|--------|--------------|------|-------------|-------------|
| 241944 | 8.6 | 1.74 | 8.65 | 1.88 | -2.201967471 | Down | 0.0284266 | 0.265474454 |
| 73545 | 4.89 | 1.03 | 10.58 | 2.4 | -2.140233317 | Down | 0.253238 | 0.684598245 |
| 98404 | 9 | 2 | 17.34 | 4.13 | -2.069890212 | Down | 0.0512964 | 0.364195686 |
| 414069 | 9.1 | 2.04 | 25.03 | 6.02 | -2.055822899 | Down | 0.0512964 | 0.365756079 |
| 432479 | 59 | 14 | 593.79 | 150.92 | -1.976168792 | Down | 3.03E-07 | 2.65E-05 |
| 667250 | 12.22 | 3 | 86.03 | 22.64 | -1.92596588 | Down | 0.0303596 | 0.268747055 |
| 70591 | 2.64 | 0.73 | 3.88 | 1.16 | -1.741931847 | Down | 0.277122 | 0.706257936 |
| 69399 | 32 | 9 | 21.74 | 6.56 | -1.72858422 | Down | 0.000626732 | 0.019904721 |
| 667214 | 6.55 | 2 | 11.34 | 3.71 | -1.611929548 | Down | 0.216528 | 0.678106695 |
| 67862 | 13 | 4 | 71.44 | 23.56 | -1.600392541 | Down | 0.044249 | 0.335333269 |
| 100503879 | 19 | 6 | 130.48 | 44.15 | -1.563343344 | Down | 0.01538816 | 0.188578615 |
| 74387 | 3 | 1 | 8.29 | 2.96 | -1.485774926 | Down | 0.420186 | 0.807102425 |
| 70730 | 3 | 1 | 18.14 | 6.48 | -1.485108738 | Down | 0.420186 | 0.792108678 |
| 100503353 | 6 | 2 | 11.89 | 4.25 | -1.484213969 | Down | 0.216528 | 0.682473291 |
| 434179 | 3 | 1 | 6.35 | 2.27 | -1.484064294 | Down | 0.420186 | 0.808782722 |
| 76261 | 3 | 1 | 10.85 | 3.88 | -1.483566485 | Down | 0.420186 | 0.795714089 |
| 217370 | 3 | 1 | 8.75 | 3.13 | -1.48312036 | Down | 0.420186 | 0.802471358 |
| 75939 | 65.32 | 22.58 | 220.06 | 81.57 | -1.431786375 | Down | 1.31E-05 | 0.000763758 |
| 381218 | 23 | 8 | 72.07 | 26.87 | -1.423402524 | Down | 0.01235926 | 0.158217542 |
| 105734734 | 17 | 6 | 177.82 | 67.22 | -1.40345515 | Down | 0.0348934 | 0.297792801 |
| 270156 | 24 | 9 | 48.23 | 19.39 | -1.314618007 | Down | 0.01599712 | 0.194608239 |
| 100141474 | 39 | 15 | 186.21 | 76.76 | -1.278503935 | Down | 0.00244186 | 0.057075048 |
| 381287 | 20.31 | 7.96 | 78.13 | 32.83 | -1.250861864 | Down | 0.0206816 | 0.216195469 |
| 66761 | 7 | 3 | 46.02 | 21.13 | -1.122968216 | Down | 0.274784 | 0.715418543 |
| 67317 | 7 | 3 | 12.58 | 5.78 | -1.121990524 | Down | 0.274784 | 0.714077971 |
| 68364 | 9 | 4 | 12.93 | 6.16 | -1.069720019 | Down | 0.226072 | 0.631468651 |

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|-----------|---------|--------|---------|---------|--------------|------|------------|-------------|
| 73133 | 161 | 74 | 601.12 | 296.16 | -1.021276221 | Down | 2.01E-07 | 1.80E-05 |
| 101056408 | 65 | 30 | 259.5 | 128.38 | -1.015314072 | Down | 0.00106952 | 0.030167715 |
| 432870 | 2 | 1 | 6.26 | 3.35 | -0.902001562 | Down | 0.678286 | 0.803190239 |
| 381353 | 2 | 1 | 2.84 | 1.52 | -0.901819606 | Down | 0.678286 | 0.794484488 |
| 217887 | 2 | 1 | 7.06 | 3.78 | -0.901281949 | Down | 0.678286 | 0.789152378 |
| 97820 | 2 | 1 | 6.16 | 3.3 | -0.900464326 | Down | 0.678286 | 0.796840012 |
| 76925 | 2 | 1 | 18.74 | 10.04 | -0.900361684 | Down | 0.678286 | 0.796952528 |
| 73449 | 4 | 2 | 10.75 | 5.76 | -0.900195943 | Down | 0.512406 | 0.816963082 |
| 74666 | 4 | 2 | 11.27 | 6.04 | -0.899867061 | Down | 0.512406 | 0.824546572 |
| 381933 | 4 | 2 | 23.58 | 12.64 | -0.899567255 | Down | 0.512406 | 0.81994814 |
| 71837 | 8 | 4 | 26.34 | 14.12 | -0.899515257 | Down | 0.325592 | 0.687801734 |
| 229588 | 2 | 1 | 9.25 | 4.96 | -0.899113245 | Down | 0.678286 | 0.793479236 |
| 268759 | 2 | 1 | 6.75 | 3.62 | -0.898897805 | Down | 0.678286 | 0.800797078 |
| 72139 | 2 | 1 | 7.62 | 4.09 | -0.897690155 | Down | 0.678286 | 0.792365268 |
| 70900 | 376 | 192 | 802.51 | 439.35 | -0.869148676 | Down | 3.48E-12 | 7.42E-10 |
| 66132 | 9 | 5 | 19.36 | 11.53 | -0.74768644 | Down | 0.370266 | 0.742048022 |
| 67609 | 16 | 9 | 81.94 | 49.4 | -0.730056851 | Down | 0.230942 | 0.64098345 |
| 330503 | 615.44 | 367.76 | 1397.73 | 895.45 | -0.642400919 | Down | 6.73E-12 | 1.30E-09 |
| 381438 | 9085.89 | 5465 | 51114.5 | 32948.4 | -0.6335242 | Down | 8.71E-149 | 7.25E-145 |
| 108899 | 11 | 7 | 14.64 | 9.99 | -0.55135897 | Down | 0.445424 | 0.824371242 |
| 110956 | 31.96 | 20.54 | 64.4 | 44.38 | -0.537151021 | Down | 0.201744 | 0.646653245 |
| 67038 | 3.07 | 2 | 11.02 | 7.68 | -0.520946008 | Down | 0.754082 | 0.850002211 |
| 100041621 | 33.78 | 22.1 | 110.61 | 77.58 | -0.511725141 | Down | 0.225964 | 0.631591012 |
| 73261 | 6 | 4 | 37.44 | 26.75 | -0.485041543 | Down | 0.630272 | 0.764169213 |
| 73430 | 15 | 10 | 19.41 | 13.87 | -0.48483233 | Down | 0.423096 | 0.793459954 |
| 78412 | 681 | 461 | 1341.97 | 973.99 | -0.462373555 | Down | 8.80E-08 | 8.22E-06 |

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|-----------|--------|--------|--------|--------|--------------|------|-------------|-------------|
| 234678 | 83 | 59 | 193.95 | 147.81 | -0.391940898 | Down | 0.1111176 | 0.486124895 |
| 72061 | 9 | 7 | 8.85 | 7.38 | -0.262056639 | Down | 0.736064 | 0.839012129 |
| 27660 | 126 | 98 | 724.21 | 606.37 | -0.25620972 | Down | 0.1787614 | 0.609870279 |
| 104457 | 7 | 5 | 60.86 | 51.56 | -0.23924207 | Down | 0.67177 | 0.801175028 |
| 67912 | 30 | 24 | 80.59 | 69.12 | -0.221497616 | Down | 0.583266 | 0.721903374 |
| 320827 | 5 | 4 | 4.87 | 4.18 | -0.22041883 | Down | 0.841222 | 0.926145576 |
| 633057 | 142.01 | 117.31 | 593.01 | 525.07 | -0.175546664 | Down | 0.323254 | 0.689868308 |
| 75462 | 29 | 24 | 121.25 | 107.56 | -0.172843087 | Down | 0.672932 | 0.801526936 |
| 545929 | 0.02 | 0.02 | 0.09 | 0.08 | -0.169925001 | Down | 0.96507 | 0.970317481 |
| 112415 | 27.31 | 22.74 | 39.29 | 35.2 | -0.158586739 | Down | 0.646622 | 0.781487533 |
| 66330 | 55 | 46 | 407.68 | 365.33 | -0.158236954 | Down | 0.590888 | 0.730467843 |
| 72650 | 18.32 | 15.57 | 73.26 | 66.76 | -0.134041746 | Down | 0.757732 | 0.852615006 |
| 240328 | 103.39 | 88.04 | 210.18 | 191.88 | -0.131421049 | Down | 0.54971 | 0.706212276 |
| 213393 | 8 | 7 | 41.52 | 38.93 | -0.092924099 | Down | 0.914966 | 0.979471515 |
| 319278 | 8 | 7 | 32.21 | 30.21 | -0.092482477 | Down | 0.914966 | 0.979723599 |
| 100041586 | 4.5 | 4 | 39.75 | 37.85 | -0.07066156 | Down | 0.914182 | 0.982550817 |
| 100041639 | 4.5 | 4 | 39.75 | 37.85 | -0.07066156 | Down | 0.914182 | 0.980524416 |
| 382523 | 1 | 0 | 12.58 | 0.001 | -13.6188443 | Down | 0.53554 | 0.738397405 |
| 545650 | 2.21 | 0 | 10.27 | 0.001 | -13.32614856 | Down | 0.277122 | 0.689366865 |
| 225289 | 2 | 0 | 2.48 | 0.001 | -11.27612441 | Down | 0.277122 | 0.630208298 |
| 210998 | 1 | 0 | 1.19 | 0.001 | -10.21674586 | Down | 0.53554 | 0.771908599 |
| 67246 | 1 | 0 | 1.1 | 0.001 | -10.10328781 | Down | 0.53554 | 0.826911921 |
| 227695 | 96 | 43 | 353.26 | 169.61 | -1.058509169 | Down | 3.72E-05 | 0.001862942 |
| 100861753 | 121 | 63 | 470.04 | 262.33 | -0.841400731 | Down | 0.000129691 | 0.005238651 |
| 620913 | 82.08 | 52.51 | 103.61 | 71.07 | -0.543850648 | Down | 0.0287854 | 0.261488333 |
| 227622 | 11 | 10 | 75.93 | 73.97 | -0.037729732 | Down | 0.962774 | 0.970353979 |