|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Table S1. 1850 DEGs between the low- and high-risk groups in the TCGA cohort were found | | | | | | |
| logFC | AveExpr | t | P.Value | adj.P.Val | B |  |
| FSTL1 | 1.667346137 | 10.28515865 | 19.07613209 | 1.24E-61 | 8.10E-58 | 129.5125208 |
| PDPN | 3.261308426 | 7.784653392 | 19.05419943 | 1.58E-61 | 8.10E-58 | 129.2696218 |
| DUSP26 | -1.710235893 | 9.748191496 | -18.97248789 | 3.93E-61 | 1.61E-57 | 128.3650885 |
| ANXA1 | 2.906784634 | 9.093288187 | 18.54990091 | 4.34E-59 | 1.27E-55 | 123.6979026 |
| MSN | 1.763174615 | 11.32283556 | 18.48842851 | 8.58E-59 | 2.20E-55 | 123.0205861 |
| CRTAC1 | -2.576619189 | 9.767962533 | -18.45128982 | 1.30E-58 | 2.66E-55 | 122.6115928 |
| MAP1LC3C | 2.386491975 | 1.839399028 | 18.11874366 | 5.16E-57 | 8.15E-54 | 118.9567314 |
| TNFRSF11B | 2.651829181 | 4.126625488 | 18.09061635 | 7.04E-57 | 1.03E-53 | 118.6482273 |
| HOXA1 | 2.333630735 | 1.873792438 | 17.82392827 | 1.34E-55 | 1.71E-52 | 115.7283526 |
| PDIA4 | 1.021978773 | 10.77647592 | 17.75254292 | 2.93E-55 | 3.34E-52 | 114.9484305 |
| SLC1A6 | -2.907945904 | 6.716796418 | -17.7223639 | 4.09E-55 | 4.42E-52 | 114.6189262 |
| CSMD3 | -2.968074606 | 8.839171309 | -17.64278128 | 9.81E-55 | 1.01E-51 | 113.7506458 |
| ATP6V1G2 | -1.638114417 | 11.02574695 | -17.63295697 | 1.09E-54 | 1.02E-51 | 113.6435223 |
| LRIT2 | -2.181097737 | 4.383479815 | -17.56874169 | 2.21E-54 | 1.89E-51 | 112.9436751 |
| RIPPLY2 | -1.708149247 | 5.215571138 | -17.55249527 | 2.64E-54 | 2.17E-51 | 112.7667115 |
| CBLN1 | -2.74548113 | 6.451011006 | -17.52957252 | 3.40E-54 | 2.68E-51 | 112.5170935 |
| HOXC10 | 3.169839338 | 1.268711241 | 17.42355765 | 1.09E-53 | 8.27E-51 | 111.3636813 |
| CD58 | 1.543983389 | 6.090230366 | 17.24317754 | 7.83E-53 | 5.54E-50 | 109.4052329 |
| GABBR1 | -1.611162649 | 13.13350789 | -17.19666653 | 1.30E-52 | 8.91E-50 | 108.9010956 |
| FNDC3B | 1.020209427 | 8.480245601 | 17.18086812 | 1.55E-52 | 1.02E-49 | 108.7299359 |
| SEMA4G | -1.080248935 | 8.192517555 | -17.14841292 | 2.20E-52 | 1.33E-49 | 108.3784464 |
| PRLHR | -4.099619392 | 5.722896212 | -17.12362792 | 2.89E-52 | 1.69E-49 | 108.1101432 |
| CRY2 | -1.098401687 | 10.88685905 | -16.94917839 | 1.93E-51 | 1.07E-48 | 106.224637 |
| FAM133A | -2.180620398 | 7.000250934 | -16.93106022 | 2.35E-51 | 1.26E-48 | 106.0291115 |
| SMC4 | 1.371377719 | 8.542063703 | 16.92989761 | 2.38E-51 | 1.26E-48 | 106.0165669 |
| HOXC9 | 2.24995822 | 0.830205519 | 16.92298011 | 2.57E-51 | 1.32E-48 | 105.941932 |
| RASL10A | -2.451204914 | 8.493959763 | -16.86612732 | 4.77E-51 | 2.39E-48 | 105.3288518 |
| STEAP3 | 2.197521012 | 7.773074454 | 16.83453636 | 6.72E-51 | 3.21E-48 | 104.9884349 |
| FAM57B | -1.797118711 | 9.192018903 | -16.82565815 | 7.40E-51 | 3.45E-48 | 104.8927976 |
| DNAJC12 | -1.168374329 | 8.453626843 | -16.8218771 | 7.71E-51 | 3.52E-48 | 104.852072 |
| SERP2 | -1.014736244 | 8.679155027 | -16.80080652 | 9.69E-51 | 4.33E-48 | 104.6251681 |
| CHI3L1 | 4.319315974 | 8.786042712 | 16.77953282 | 1.22E-50 | 5.33E-48 | 104.3961587 |
| IGFBP2 | 2.702214592 | 8.490055981 | 16.73563012 | 1.97E-50 | 8.41E-48 | 103.9238113 |
| CCDC109B | 1.820536682 | 6.071924827 | 16.72129627 | 2.30E-50 | 9.62E-48 | 103.7696706 |
| OTP | 2.701588445 | 1.179310251 | 16.6842103 | 3.43E-50 | 1.38E-47 | 103.371039 |
| EVC2 | 2.260494053 | 3.424821294 | 16.67997307 | 3.59E-50 | 1.42E-47 | 103.3255099 |
| HOXA5 | 2.950543921 | 1.323558451 | 16.66922088 | 4.04E-50 | 1.56E-47 | 103.2099926 |
| TMEM71 | 2.080940967 | 3.79781967 | 16.66474349 | 4.24E-50 | 1.61E-47 | 103.1618956 |
| CHRNA4 | -2.291752752 | 8.298373423 | -16.65090877 | 4.92E-50 | 1.84E-47 | 103.0133041 |
| PTGFRN | 1.43632516 | 9.650430365 | 16.64612063 | 5.18E-50 | 1.90E-47 | 102.9618856 |
| SHOX2 | 3.581144132 | 2.309168609 | 16.60249343 | 8.31E-50 | 2.94E-47 | 102.4935842 |
| ZDHHC22 | -1.998084266 | 11.08884148 | -16.58504496 | 1.00E-49 | 3.49E-47 | 102.3063905 |
| NOG | -2.20183932 | 7.63310586 | -16.57588695 | 1.11E-49 | 3.79E-47 | 102.2081631 |
| CDHR1 | -2.024015803 | 9.595157049 | -16.55357798 | 1.41E-49 | 4.75E-47 | 101.968948 |
| PCBP3 | -1.86145381 | 7.836917104 | -16.52097501 | 2.01E-49 | 6.64E-47 | 101.619524 |
| EMP3 | 2.78156681 | 6.633537672 | 16.44726222 | 4.45E-49 | 1.45E-46 | 100.8302642 |
| CPEB3 | -1.151593361 | 8.266156736 | -16.35469529 | 1.21E-48 | 3.75E-46 | 99.84064565 |
| LOC339674 | -1.465680464 | 8.81679232 | -16.29751561 | 2.23E-48 | 6.84E-46 | 99.23020458 |
| NTNG2 | -1.469206197 | 9.169175781 | -16.28574767 | 2.53E-48 | 7.64E-46 | 99.10465426 |
| GPX8 | 2.316458126 | 4.470389963 | 16.26987401 | 3.00E-48 | 8.94E-46 | 98.93534545 |
| TIMP1 | 2.642144604 | 8.37767555 | 16.2487226 | 3.77E-48 | 1.11E-45 | 98.7098242 |
| SH2D4A | 2.325632144 | 3.601987118 | 16.24590453 | 3.89E-48 | 1.12E-45 | 98.67978412 |
| CASP8 | 1.311527298 | 6.246384855 | 16.24225136 | 4.04E-48 | 1.14E-45 | 98.64084464 |
| PLSCR1 | 1.455928502 | 8.259898628 | 16.23489457 | 4.37E-48 | 1.21E-45 | 98.56243616 |
| C17orf96 | -1.400756657 | 8.272907616 | -16.21400101 | 5.47E-48 | 1.50E-45 | 98.33981419 |
| ZNF217 | 1.147378252 | 7.89852083 | 16.21206824 | 5.59E-48 | 1.50E-45 | 98.31922499 |
| ADAM12 | 2.236058688 | 5.454569828 | 16.15504508 | 1.03E-47 | 2.71E-45 | 97.71212499 |
| STARD10 | -1.0127876 | 9.153623688 | -16.15158964 | 1.07E-47 | 2.78E-45 | 97.67535837 |
| GALNT3 | 1.975738618 | 3.870698374 | 16.13695249 | 1.25E-47 | 3.17E-45 | 97.51964357 |
| SNAP91 | -2.232673262 | 10.34567523 | -16.10323596 | 1.80E-47 | 4.50E-45 | 97.16112828 |
| SGSM1 | -1.961319554 | 8.514127981 | -16.09709112 | 1.92E-47 | 4.75E-45 | 97.09581479 |
| PHYHIPL | -1.281652956 | 12.54125593 | -16.04414806 | 3.38E-47 | 8.17E-45 | 96.53341692 |
| SAMD9L | 1.604339305 | 8.414081761 | 16.01655351 | 4.55E-47 | 1.09E-44 | 96.24052711 |
| GNAL | -2.028769067 | 7.963509565 | -16.00263319 | 5.28E-47 | 1.24E-44 | 96.09283857 |
| KCNIP2 | -2.409383936 | 9.375175375 | -15.98288005 | 6.52E-47 | 1.52E-44 | 95.88333865 |
| JPH3 | -2.351452503 | 9.849633034 | -15.96967598 | 7.50E-47 | 1.73E-44 | 95.74334491 |
| TGFB2 | 2.261198958 | 8.788792052 | 15.96763723 | 7.67E-47 | 1.75E-44 | 95.72173288 |
| HOXA6 | 1.898493099 | 0.637796501 | 15.96167015 | 8.17E-47 | 1.84E-44 | 95.65848316 |
| DPYD | 1.64938754 | 7.057749194 | 15.92286327 | 1.24E-46 | 2.76E-44 | 95.24732956 |
| DPY19L1 | 1.074722639 | 10.17758675 | 15.91891435 | 1.29E-46 | 2.85E-44 | 95.20550987 |
| FAM155A | -1.924160283 | 9.094356347 | -15.89921946 | 1.59E-46 | 3.44E-44 | 94.99698931 |
| NAP1L3 | -1.098158157 | 10.9110706 | -15.87545047 | 2.05E-46 | 4.39E-44 | 94.74544872 |
| PYGL | 1.480874301 | 8.584191939 | 15.85885332 | 2.45E-46 | 5.18E-44 | 94.56988031 |
| CA3 | 2.64908414 | 4.174409759 | 15.83276387 | 3.24E-46 | 6.71E-44 | 94.29402496 |
| SHISA7 | -1.851921269 | 9.535952241 | -15.82190315 | 3.63E-46 | 7.46E-44 | 94.17923477 |
| WNT7B | -2.732288663 | 8.193096471 | -15.78918845 | 5.15E-46 | 1.05E-43 | 93.83362431 |
| SP100 | 1.375362147 | 8.20350914 | 15.76645827 | 6.55E-46 | 1.32E-43 | 93.59363707 |
| HOXA4 | 2.971865139 | 1.568497359 | 15.72427218 | 1.03E-45 | 2.05E-43 | 93.14854537 |
| PAK7 | -2.15832436 | 7.249127763 | -15.70636571 | 1.24E-45 | 2.45E-43 | 92.95974353 |
| HOXB3 | 2.938922593 | 2.593204019 | 15.66906742 | 1.85E-45 | 3.54E-43 | 92.56671687 |
| HOXA3 | 2.913852394 | 1.266293785 | 15.66816015 | 1.86E-45 | 3.54E-43 | 92.55716065 |
| FAM111A | 1.10090815 | 8.552075338 | 15.65446378 | 2.16E-45 | 4.06E-43 | 92.41292058 |
| IGF2BP3 | 2.437398443 | 4.490406295 | 15.65011505 | 2.26E-45 | 4.21E-43 | 92.36713219 |
| ADAMTSL4 | 1.509592743 | 5.555706784 | 15.6450341 | 2.38E-45 | 4.41E-43 | 92.31363968 |
| ZC3H12B | -1.574964561 | 7.421842556 | -15.61434203 | 3.30E-45 | 6.00E-43 | 91.99064053 |
| CLIC1 | 1.513183248 | 9.465450218 | 15.60051329 | 3.82E-45 | 6.88E-43 | 91.84518106 |
| MDGA2 | -2.148950821 | 7.37407223 | -15.59967074 | 3.86E-45 | 6.88E-43 | 91.83632011 |
| KIAA1543 | -2.075662871 | 7.907227964 | -15.59624201 | 4.00E-45 | 7.08E-43 | 91.8002622 |
| CD101 | 1.623757672 | 4.724874035 | 15.56235579 | 5.73E-45 | 9.96E-43 | 91.4440509 |
| ABCC3 | 3.463150759 | 4.770802601 | 15.50857184 | 1.01E-44 | 1.75E-42 | 90.87923633 |
| COL5A2 | 1.854754494 | 8.123570066 | 15.49107692 | 1.22E-44 | 2.07E-42 | 90.6956622 |
| SLITRK5 | -1.474668281 | 8.698203903 | -15.48649117 | 1.28E-44 | 2.15E-42 | 90.64755613 |
| SHANK2 | -2.179375299 | 8.850989582 | -15.46887052 | 1.54E-44 | 2.57E-42 | 90.46275694 |
| IQGAP1 | 1.276786588 | 10.24095093 | 15.46207193 | 1.66E-44 | 2.74E-42 | 90.39147581 |
| TGIF1 | 1.446220041 | 8.025303575 | 15.44538308 | 1.97E-44 | 3.22E-42 | 90.21654586 |
| GABRB3 | -2.177863858 | 10.03355106 | -15.43060277 | 2.31E-44 | 3.70E-42 | 90.06167747 |
| SERPINH1 | 1.492353082 | 9.117630661 | 15.40865375 | 2.91E-44 | 4.63E-42 | 89.83179379 |
| NSUN7 | 2.002977759 | 3.426618075 | 15.39018497 | 3.54E-44 | 5.54E-42 | 89.63845207 |
| EN1 | 3.271356471 | 2.386282642 | 15.37582763 | 4.12E-44 | 6.40E-42 | 89.48820916 |
| TUBA1C | 1.559783648 | 8.489498635 | 15.35647466 | 5.05E-44 | 7.76E-42 | 89.28576987 |
| FKBP9 | 1.369310754 | 9.694859956 | 15.35607944 | 5.07E-44 | 7.76E-42 | 89.2816367 |
| CACNA2D2 | -1.685397239 | 7.481200778 | -15.32090847 | 7.34E-44 | 1.12E-41 | 88.91397661 |
| H2AFY2 | -1.664701615 | 9.117816427 | -15.27774244 | 1.16E-43 | 1.73E-41 | 88.46316212 |
| MRC2 | 1.595056982 | 10.0346356 | 15.24929194 | 1.56E-43 | 2.31E-41 | 88.16628873 |
| NDRG2 | -1.262383336 | 14.84721128 | -15.247766 | 1.59E-43 | 2.33E-41 | 88.15037178 |
| TUB | -1.15857686 | 11.32483917 | -15.24104933 | 1.70E-43 | 2.48E-41 | 88.08031756 |
| TMEM154 | 1.459293628 | 4.515938125 | 15.22364904 | 2.04E-43 | 2.95E-41 | 87.89888751 |
| NCRNA00219 | -1.04389294 | 8.961057672 | -15.22222637 | 2.07E-43 | 2.98E-41 | 87.88405698 |
| SCRT1 | -2.872369092 | 8.088158025 | -15.21921368 | 2.14E-43 | 3.05E-41 | 87.852653 |
| PLCB1 | -1.354255008 | 10.41421132 | -15.11308528 | 6.52E-43 | 9.17E-41 | 86.74786674 |
| BMP2 | -2.15307765 | 9.771275365 | -15.10598576 | 7.03E-43 | 9.75E-41 | 86.67406522 |
| JPH4 | -1.71514928 | 10.99912271 | -15.07921153 | 9.30E-43 | 1.27E-40 | 86.39585759 |
| VAV3 | 2.557950755 | 5.106034519 | 15.06833492 | 1.04E-42 | 1.42E-40 | 86.28289361 |
| METTL7B | 2.631960517 | 7.133529484 | 15.06392771 | 1.09E-42 | 1.47E-40 | 86.23712929 |
| PLAT | 1.940172562 | 8.137464497 | 15.06008469 | 1.14E-42 | 1.53E-40 | 86.19722773 |
| TNFRSF12A | 2.310691092 | 6.975069144 | 15.05157004 | 1.24E-42 | 1.66E-40 | 86.10883503 |
| STAC | 2.730645347 | 3.086344228 | 15.04830157 | 1.29E-42 | 1.69E-40 | 86.0749093 |
| PRICKLE3 | 1.297106131 | 4.176272306 | 15.04549911 | 1.32E-42 | 1.73E-40 | 86.04582285 |
| TTC26 | 1.271747572 | 5.656806091 | 15.03381206 | 1.50E-42 | 1.94E-40 | 85.92454644 |
| FAM109B | 1.025988201 | 5.536411459 | 15.02687093 | 1.61E-42 | 2.06E-40 | 85.8525354 |
| HOXC6 | 2.278408796 | 1.205285796 | 15.01602505 | 1.80E-42 | 2.28E-40 | 85.74003987 |
| MACC1 | 1.870107916 | 2.228443606 | 15.00923691 | 1.94E-42 | 2.44E-40 | 85.66964784 |
| TAGLN2 | 1.505553987 | 10.32432559 | 15.00728576 | 1.98E-42 | 2.47E-40 | 85.64941694 |
| LOC647946 | 1.964172586 | 1.14367273 | 15.00599957 | 2.00E-42 | 2.49E-40 | 85.63608138 |
| SPHKAP | -3.02950655 | 8.30481375 | -14.99038999 | 2.36E-42 | 2.91E-40 | 85.47427213 |
| RUNDC3A | -1.527258705 | 11.01176108 | -14.96162984 | 3.18E-42 | 3.89E-40 | 85.1763135 |
| RAB34 | 1.661429187 | 7.568094486 | 14.94871831 | 3.64E-42 | 4.42E-40 | 85.04262037 |
| GDAP1L1 | -1.91452531 | 9.667015676 | -14.9455386 | 3.77E-42 | 4.55E-40 | 85.00970275 |
| HOXD11 | 2.418783817 | 0.911303898 | 14.93991123 | 3.99E-42 | 4.79E-40 | 84.9514526 |
| HOXC11 | 1.824759643 | 0.538366033 | 14.91166618 | 5.36E-42 | 6.36E-40 | 84.65921057 |
| SERPING1 | 1.871246226 | 9.710548869 | 14.91034661 | 5.44E-42 | 6.41E-40 | 84.64556268 |
| ANXA2P2 | 1.986458965 | 7.895013594 | 14.90516074 | 5.74E-42 | 6.69E-40 | 84.59193151 |
| NALCN | -1.186682047 | 9.956874666 | -14.8164977 | 1.45E-41 | 1.60E-39 | 83.67612658 |
| ANXA2 | 1.773410137 | 9.603518451 | 14.79636003 | 1.78E-41 | 1.94E-39 | 83.46842337 |
| HOXD13 | 2.564062071 | 1.029397759 | 14.7907655 | 1.89E-41 | 2.04E-39 | 83.41074033 |
| HOTAIR | 1.983128852 | 0.591383889 | 14.78528578 | 2.00E-41 | 2.15E-39 | 83.3542494 |
| HOXA2 | 2.49303186 | 0.964902892 | 14.78322955 | 2.04E-41 | 2.18E-39 | 83.33305361 |
| HOXA7 | 3.64699195 | 2.259363773 | 14.75874657 | 2.63E-41 | 2.79E-39 | 83.08077192 |
| AFF2 | -2.305067836 | 7.796326431 | -14.74889821 | 2.92E-41 | 3.06E-39 | 82.9793376 |
| GALNT5 | 2.16534398 | 0.995770642 | 14.70911783 | 4.41E-41 | 4.57E-39 | 82.56989044 |
| RCOR2 | -1.921456919 | 9.645713516 | -14.69659304 | 5.02E-41 | 5.18E-39 | 82.44106834 |
| LAMC1 | 1.200077059 | 9.856097017 | 14.68236367 | 5.82E-41 | 5.92E-39 | 82.29476745 |
| TEF | -1.047533067 | 10.57394032 | -14.64389699 | 8.67E-41 | 8.64E-39 | 81.89955386 |
| GALNT13 | -2.113924753 | 11.05272687 | -14.63986297 | 9.04E-41 | 8.97E-39 | 81.85813179 |
| DIRAS3 | 1.968079802 | 6.367261196 | 14.61914253 | 1.12E-40 | 1.10E-38 | 81.64544379 |
| ANXA5 | 1.081470996 | 12.11490516 | 14.61910475 | 1.12E-40 | 1.10E-38 | 81.64505615 |
| C10orf75 | -1.249878991 | 8.494301896 | -14.61601824 | 1.16E-40 | 1.13E-38 | 81.61338469 |
| GNG12 | 1.808044652 | 9.472151657 | 14.58449721 | 1.60E-40 | 1.55E-38 | 81.29009538 |
| CLEC18B | 2.011469879 | 5.170657512 | 14.57306229 | 1.80E-40 | 1.73E-38 | 81.17288576 |
| FAM129A | 1.685537142 | 7.590992093 | 14.56266469 | 2.01E-40 | 1.92E-38 | 81.06634136 |
| SSTR2 | -2.108017373 | 7.976506084 | -14.55453049 | 2.19E-40 | 2.08E-38 | 80.98301178 |
| DNM3 | -1.191334325 | 10.58137081 | -14.55171756 | 2.25E-40 | 2.13E-38 | 80.95419956 |
| CACNG2 | -3.099111724 | 5.663798579 | -14.55042589 | 2.28E-40 | 2.15E-38 | 80.94097004 |
| LRRTM4 | -1.850570978 | 8.125916139 | -14.54617301 | 2.38E-40 | 2.23E-38 | 80.89741467 |
| HMP19 | -2.450653464 | 11.31393164 | -14.54542557 | 2.40E-40 | 2.24E-38 | 80.88976042 |
| NCRNA00093 | -2.501004387 | 4.651959177 | -14.52941622 | 2.83E-40 | 2.61E-38 | 80.72585286 |
| RANBP17 | -2.138614145 | 5.786012024 | -14.52502393 | 2.96E-40 | 2.72E-38 | 80.68089656 |
| KCNK3 | -2.409002297 | 7.801686567 | -14.49367439 | 4.10E-40 | 3.74E-38 | 80.36018781 |
| MMP14 | 1.617848011 | 9.849242787 | 14.48762624 | 4.36E-40 | 3.94E-38 | 80.29834752 |
| WEE1 | 1.511947179 | 7.891846354 | 14.48536319 | 4.46E-40 | 4.02E-38 | 80.27521146 |
| SLC2A10 | 1.679312938 | 7.202883699 | 14.46972945 | 5.24E-40 | 4.66E-38 | 80.11542174 |
| FBXO39 | 1.590898848 | 1.200472801 | 14.46170929 | 5.70E-40 | 5.00E-38 | 80.03347678 |
| TCEAL2 | -1.124141072 | 10.89852382 | -14.45406813 | 6.16E-40 | 5.38E-38 | 79.95542181 |
| KSR2 | -2.49533495 | 7.921304705 | -14.44356984 | 6.87E-40 | 5.97E-38 | 79.84820899 |
| PCDH11X | -2.39437433 | 7.315846416 | -14.39152908 | 1.17E-39 | 1.01E-37 | 79.3172276 |
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| GABRA4 | -1.277669591 | 6.070914861 | -4.868609998 | 1.50E-06 | 4.01E-06 | 4.224445307 |
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| LOC285780 | -1.06966675 | 2.662445416 | -4.824881756 | 1.85E-06 | 4.90E-06 | 4.022327529 |
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| GJB6 | -1.443583834 | 5.36990272 | -4.775374306 | 2.35E-06 | 6.13E-06 | 3.795506518 |
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| GAD2 | -1.179044475 | 5.234239211 | -4.714170187 | 3.14E-06 | 8.06E-06 | 3.518054324 |
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| ADAMDEC1 | 1.020745124 | 2.067093876 | 4.634929339 | 4.54E-06 | 1.15E-05 | 3.163712375 |
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