

| Supplementary Data 1-1: SEER data baseline characteristics of patient with prostate cancer | | | | | | | | | |
|--|------------------|-----------------|--------|------------------|-----------------|--------|-----------------------|-----------------|-------|
| SEER data baseline characteristics of patient with prostate cancer | | | | | | | | | |
| | The total cohort | | | The train cohort | | | The validation cohort | | |
| | | Bone metastases | | | Bone metastases | | | Bone metastases | |
| | Total | Yes | No | Total | Yes | No | Total | Yes | No |
| Age | | | | | | | | | |
| Median | 66 | 71 | 66 | 66 | 71 | 66 | 66 | 71 | 66 |
| Range | 20-106 | 35-99 | 20-106 | 20-106 | 35-99 | 20-106 | 31-99 | 39-98 | 31-99 |
| PSA(ng/ml) | | | | | | | | | |
| Mean | 21.65 | 63.4 | 21.05 | 21.65 | 63.07 | 21.06 | 21.63 | 64.14 | 21.01 |
| Primary gleason grade | | | | | | | | | |
| 1 | 246 | 0 | 246 | 186 | 0 | 186 | 60 | 0 | 60 |
| 2 | 2882 | 10 | 2872 | 2002 | 4 | 1998 | 880 | 6 | 874 |
| 3 | 211535 | 786 | 210749 | 148082 | 555 | 147527 | 63453 | 231 | 63222 |
| 4 | 59926 | 2385 | 57541 | 42012 | 1656 | 40356 | 17914 | 729 | 17185 |
| 5 | 6961 | 804 | 6157 | 4808 | 543 | 4265 | 2153 | 261 | 1892 |
| Secondary gleason grade | | | | | | | | | |
| 1 | 117 | 0 | 117 | 81 | 0 | 81 | 36 | 0 | 36 |
| 2 | 3266 | 4 | 3262 | 2319 | 1 | 2318 | 947 | 3 | 944 |
| 3 | 160840 | 836 | 160004 | 112452 | 589 | 111863 | 48388 | 247 | 48141 |
| 4 | 100552 | 1686 | 98866 | 70533 | 1165 | 69368 | 30019 | 521 | 29498 |
| 5 | 16775 | 1459 | 15316 | 11705 | 1003 | 10702 | 5070 | 456 | 4614 |
| T stage | | | | | | | | | |
| T1 | 106325 | 1228 | 105097 | 74387 | 846 | 73541 | 31938 | 382 | 31556 |
| T2 | 149834 | 1743 | 148091 | 104967 | 1229 | 103738 | 44867 | 514 | 44353 |
| T3 | 22598 | 478 | 22120 | 15820 | 337 | 15483 | 6778 | 141 | 6637 |
| T4 | 2793 | 536 | 2257 | 1916 | 346 | 1570 | 877 | 190 | 687 |
| N stage | | | | | | | | | |
| N0 | 276818 | 3139 | 273679 | 193743 | 2187 | 191556 | 83075 | 952 | 82123 |
| N1 | 4732 | 846 | 3886 | 3347 | 571 | 2776 | 1385 | 275 | 1110 |
| Bone mets | | | | | | | | | |
| Yes | 3985 | 3985 | 0 | 2758 | 2758 | 0 | 1227 | 1227 | 0 |
| No | 277565 | 0 | 277565 | 194332 | 0 | 194332 | 83233 | 0 | 83233 |

Supplementary Data 1-2:trian group roc and validation roc, Delong's test

data: trian group roc and validation roc, Delong's test

D = -0.76576, df = 160270, p-value = 0.4438

alternative hypothesis: true difference in AUC is not equal to 0

sample estimates:

AUC of training group data

89.96380 90.38788

AUC of validation group
data

| Supplementary Data 1-3:clinical features of TCGA samples and predictive results | | | | | | | | | | |
|---|--------------|-----------------|-------------------|-------|---------|---------|-----|--------------------------------|-------------------------|--------------------------|
| | ID | primary_gleason | secondary_gleason | PSA | N_stage | T_stage | age | probability of bone metastasis | risk of bone metastasis | actually bone metastasis |
| | tcga-kk-a7b4 | 4 | 5 | 0.6 | N1 | 3 | 65 | 0.092531 | high_risk | YES |
| | tcga-ch-5751 | 5 | 5 | 0.01 | N1 | 4 | 68 | 0.278363 | high_risk | YES |
| | tcga-ej-5518 | 4 | 5 | 0.1 | N0 | 4 | 67 | 0.027717 | high_risk | YES |
| | tcga-ej-5525 | 4 | 5 | 3 | N0 | 2 | 67 | 0.02321 | high_risk | YES |
| | tcga-g9-a9s0 | 4 | 4 | 10.87 | N1 | 3 | 54 | 0.051137 | high_risk | YES |
| | tcga-hi-7168 | 4 | 5 | 0.3 | N0 | 3 | 63 | 0.023621 | high_risk | YES |
| | tcga-kk-a8i4 | 4 | 3 | 0.2 | N1 | 3 | 65 | 0.022602 | high_risk | YES |
| | tcga-kk-a8ii | 4 | 5 | 39.8 | N0 | 3 | 62 | 0.053847 | high_risk | YES |
| | tcga-vp-a878 | 4 | 5 | 0.1 | N1 | 2 | 59 | 0.076885 | high_risk | YES |
| | tcga-yl-a9wy | 5 | 4 | 1.8 | N1 | 3 | 58 | 0.131496 | high_risk | YES |
| | tcga-ch-5753 | 4 | 5 | 4.53 | N1 | 3 | 71 | 0.106369 | high_risk | NO |
| | tcga-c | 4 | 5 | 0. | N0 | 3 | 6 | 0.023747 | high_risk | NO |

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| | h-577 2 | | | 03 | | | 4 | | | |
| | tcga-e j-a65j | 4 | 5 | 0. 1 | N0 | 3 | 6 3 | 0.02352 | high_risk | NO |
| | tcga-h c-782 1 | 4 | 4 | 0. 01 | N1 | 3 | 5 5 | 0.041183 | high_risk | NO |
| | tcga-k k-a7b 3 | 4 | 5 | 0. 1 | N0 | 3 | 6 3 | 0.02352 | high_risk | NO |
| | tcga-2 a-a8vt | 4 | 5 | 0. 05 | N1 | 4 | 4 8 | 0.085776 | high_risk | NO |
| | tcga-2 a-a8w 3 | 4 | 5 | 0. 36 | N0 | 3 | 7 0 | 0.025568 | high_risk | NO |
| | tcga-c h-574 1 | 4 | 5 | 0. 02 | N1 | 3 | 5 7 | 0.084158 | high_risk | NO |
| | tcga-c h-575 4 | 4 | 5 | 37 .3 6 | N1 | 3 | 6 5 | 0.185979 | high_risk | NO |
| | tcga-c h-576 1 | 5 | 4 | 8. 49 | N0 | 3 | 6 1 | 0.042454 | high_risk | NO |
| | tcga-c h-576 6 | 4 | 3 | 13 .9 | N1 | 3 | 5 6 | 0.027414 | high_risk | NO |
| | tcga-c h-576 9 | 5 | 4 | 11 .1 6 | N0 | 3 | 4 9 | 0.03938 | high_risk | NO |
| | tcga-c h-578 8 | 4 | 3 | 3. 58 | N1 | 3 | 6 9 | 0.025406 | high_risk | NO |
| | tcga-c h-579 2 | 4 | 5 | 11 .4 9 | N0 | 3 | 5 8 | 0.028382 | high_risk | NO |
| | tcga-e j-5495 | 5 | 3 | 0. 13 | N1 | 3 | 6 8 | 0.072574 | high_risk | NO |
| | tcga-e j-5504 | 4 | 3 | 1 | N1 | 3 | 6 6 | 0.023251 | high_risk | NO |
| | tcga-e j-5506 | 5 | 3 | 0. 1 | N1 | 3 | 6 7 | 0.071766 | high_risk | NO |
| | tcga-e j-5507 | 4 | 5 | 0. 1 | N1 | 3 | 5 4 | 0.081688 | high_risk | NO |

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| tcga-e j-5514 | 4 | 5 | 0. 1 | N0 | 2 | 6 6 | 0.021568 | high_risk | NO |
| tcga-e j-5519 | 4 | 4 | 0. 2 | N1 | 3 | 6 5 | 0.046116 | high_risk | NO |
| tcga-e j-5524 | 4 | 5 | 0. 1 | N0 | 3 | 5 7 | 0.021997 | high_risk | NO |
| tcga-e j-5526 | 4 | 4 | 0. 1 | N1 | 3 | 5 6 | 0.041715 | high_risk | NO |
| tcga-e j-8469 | 4 | 5 | 3. 1 | N0 | 3 | 4 7 | 0.020982 | high_risk | NO |
| tcga-e j-a46f | 4 | 4 | 19 .8 | N1 | 3 | 5 8 | 0.064217 | high_risk | NO |
| tcga-e j-a65b | 4 | 5 | 0. 01 | N0 | 3 | 5 5 | 0.02147 | high_risk | NO |
| tcga-e j-a65f | 4 | 5 | 0. 8 | N0 | 3 | 5 9 | 0.022834 | high_risk | NO |
| tcga-e j-a6ra | 4 | 4 | 0. 65 2 | N1 | 3 | 7 0 | 0.049154 | high_risk | NO |
| tcga-e j-a7n m | 4 | 5 | 0. 1 | N1 | 3 | 6 5 | 0.091614 | high_risk | NO |
| tcga-e j-a7nn | 4 | 3 | 0. 3 | N1 | 3 | 6 2 | 0.021905 | high_risk | NO |
| tcga-fc -a5ob | 4 | 5 | 5. 22 | N0 | 3 | 5 3 | 0.023479 | high_risk | NO |
| tcga-g 9-635 6 | 4 | 5 | 0. 13 | N0 | 3 | 6 0 | 0.02276 | high_risk | NO |
| tcga-g 9-636 7 | 4 | 5 | 0. 42 | N0 | 3 | 6 1 | 0.023159 | high_risk | NO |
| tcga-g 9-649 9 | 4 | 5 | 0. 11 | N0 | 3 | 6 7 | 0.024596 | high_risk | NO |
| tcga-g 9-752 1 | 4 | 4 | 0. 06 | N1 | 3 | 5 3 | 0.040333 | high_risk | NO |
| tcga-g 9-752 3 | 5 | 5 | 0. 03 | N0 | 3 | 4 5 | 0.060271 | high_risk | NO |
| tcga-g 9-a9s4 | 4 | 4 | 0. 03 | N1 | 3 | 6 2 | 0.044474 | high_risk | NO |
| tcga-h | 4 | 5 | 4. | N0 | 3 | 5 | 0.023174 | high_risk | NO |

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| c-7213 | | | 09 | | | 4 | | | |
| tcga-hc-a8cy | 5 | 4 | 0.9 | N1 | 3 | 63 | 0.135816 | high_risk | NO |
| tcga-hc-a9te | 5 | 4 | 0.064 | N0 | 3 | 65 | 0.03714 | high_risk | NO |
| tcga-hc-a9th | 5 | 4 | 0.38 | N0 | 3 | 59 | 0.035001 | high_risk | NO |
| tcga-hi-7171 | 5 | 4 | 0.7 | N0 | 3 | 57 | 0.034471 | high_risk | NO |
| tcga-j4-aatz | 4 | 5 | 0 | N0 | 3 | 66 | 0.024267 | high_risk | NO |
| tcga-j9-a52b | 5 | 4 | 0.01 | N0 | 3 | 63 | 0.036291 | high_risk | NO |
| tcga-j9-a52e | 4 | 5 | 0.01 | N0 | 3 | 65 | 0.024003 | high_risk | NO |
| tcga-j9-a8cm | 5 | 4 | 0.55 | N1 | 3 | 66 | 0.138964 | high_risk | NO |
| tcga-kc-a4br | 4 | 5 | 0 | N1 | 3 | 76 | 0.10241 | high_risk | NO |
| tcga-kc-a4bv | 4 | 5 | 0.53 | N0 | 3 | 66 | 0.024544 | high_risk | NO |
| tcga-kk-a59v | 4 | 5 | 0.1 | N0 | 3 | 64 | 0.023783 | high_risk | NO |
| tcga-kk-a59y | 4 | 5 | 0.1 | N1 | 3 | 57 | 0.084293 | high_risk | NO |
| tcga-kk-a5a1 | 4 | 5 | 0.1 | N0 | 3 | 72 | 0.025998 | high_risk | NO |
| tcga-kk-a6e0 | 4 | 5 | 0.3 | N0 | 3 | 59 | 0.02259 | high_risk | NO |
| tcga-kk-a6e1 | 4 | 5 | 0.1 | N1 | 3 | 58 | 0.085178 | high_risk | NO |
| tcga-kk-a6e6 | 4 | 5 | 0.1 | N0 | 3 | 69 | 0.025145 | high_risk | NO |

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| tcga-k k-a6e 7 | 5 | 4 | 0. 1 | N1 | 3 | 4 7 | 0.113986 | high_risk | NO |
| tcga-k k-a6e 8 | 4 | 5 | 0. 1 | N0 | 2 | 6 9 | 0.022302 | high_risk | NO |
| tcga-k k-a7a u | 4 | 5 | 0 | N1 | 3 | 6 3 | 0.089553 | high_risk | NO |
| tcga-k k-a7a w | 4 | 3 | 0. 8 | N1 | 3 | 5 7 | 0.020939 | high_risk | NO |
| tcga-k k-a7b 0 | 4 | 5 | 0. 1 | N0 | 3 | 6 8 | 0.024866 | high_risk | NO |
| tcga-k k-a7b 2 | 4 | 5 | 0. 3 | N1 | 3 | 6 8 | 0.09488 | high_risk | NO |
| tcga-k k-a8i7 | 4 | 5 | 0. 1 | N0 | 3 | 5 5 | 0.021511 | high_risk | NO |
| tcga-k k-a8i8 | 4 | 5 | 0. 1 | N0 | 3 | 7 0 | 0.025426 | high_risk | NO |
| tcga-k k-a8ia | 4 | 5 | 0. 1 | N1 | 3 | 6 9 | 0.095485 | high_risk | NO |
| tcga-k k-a8ic | 4 | 5 | 0. 9 | N0 | 3 | 5 5 | 0.021884 | high_risk | NO |
| tcga-k k-a8id | 5 | 4 | 0. 1 | N1 | 3 | 7 1 | 0.144707 | high_risk | NO |
| tcga-k k-a8ij | 4 | 3 | 0. 1 | N1 | 3 | 6 0 | 0.021329 | high_risk | NO |
| tcga-k k-a8ik | 4 | 5 | 0 | N0 | 2 | 5 6 | 0.019245 | high_risk | NO |
| tcga-k k-a8il | 4 | 5 | 0. 1 | N1 | 3 | 6 5 | 0.091614 | high_risk | NO |
| tcga- m7-a7 23 | 4 | 3 | 0. 1 | N1 | 3 | 5 5 | 0.02017 | high_risk | NO |
| tcga- mg-aa mc | 4 | 5 | 0. 01 | N0 | 3 | 6 0 | 0.022702 | high_risk | NO |
| tcga-v 1-a8w v | 4 | 5 | 0. 01 | N1 | 3 | 5 3 | 0.080689 | high_risk | NO |
| tcga-v | 4 | 5 | 0. | N1 | 3 | 6 | 0.086826 | high_risk | NO |

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| 1-a8w w | | | 01 5 | | | 0 | | | |
| tcga-v 1-a9o 5 | 5 | 4 | 3. 26 | N1 | 4 | 6 5 | 0.160705 | high_risk | NO |
| tcga-v 1-a9o 7 | 5 | 4 | 9. 69 | N0 | 3 | 6 1 | 0.043538 | high_risk | NO |
| tcga-v 1-a9o a | 4 | 5 | 0. 01 | N1 | 3 | 6 2 | 0.088644 | high_risk | NO |
| tcga-v 1-a9ol | 5 | 4 | 0. 01 | N0 | 3 | 6 6 | 0.037507 | high_risk | NO |
| tcga-v 1-a9o y | 4 | 3 | 0. 09 9 | N1 | 3 | 5 8 | 0.020857 | high_risk | NO |
| tcga-v 1-a9z 7 | 5 | 4 | 28 .1 | N0 | 3 | 5 5 | 0.059858 | high_risk | NO |
| tcga-v 1-a9z 8 | 5 | 4 | 0. 01 | N0 | 3 | 6 0 | 0.035112 | high_risk | NO |
| tcga-v 1-a9z 9 | 4 | 5 | 0. 01 5 | N0 | 2 | 6 4 | 0.021053 | high_risk | NO |
| tcga-v 1-a9zg | 4 | 5 | 0. 01 5 | N0 | 2 | 6 5 | 0.021289 | high_risk | NO |
| tcga-v 1-a9zi | 4 | 5 | 3. 11 | N0 | 3 | 6 9 | 0.026816 | high_risk | NO |
| tcga-v n-a88 k | 4 | 4 | 0 | N1 | 3 | 5 9 | 0.043015 | high_risk | NO |
| tcga-v p-a87 2 | 5 | 3 | 0. 01 | N0 | 3 | 6 1 | 0.017301 | high_risk | NO |
| tcga-v p-a87 9 | 4 | 5 | 0. 01 | N0 | 2 | 7 1 | 0.022761 | high_risk | NO |
| tcga-v p-a87 d | 4 | 5 | 0. 2 | N1 | 3 | 5 4 | 0.081852 | high_risk | NO |
| tcga-v p-a87 | 4 | 5 | 0. 01 | N0 | 3 | 7 7 | 0.02743 | high_risk | NO |

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| h | | | | | | | | | |
| tcga-v p-aa1 n | 5 | 4 | 0. 01 | N0 | 3 | 7 1 | 0.039623 | high_risk | NO |
| tcga-x 4-a8k q | 4 | 5 | 0. 25 | N0 | 3 | 6 6 | 0.024397 | high_risk | NO |
| tcga-x k-aaiv | 5 | 5 | 0. 32 | N1 | 3 | 6 4 | 0.247067 | high_risk | NO |
| tcga-x k-aaiv | 5 | 4 | 0. 09 | N0 | 3 | 7 9 | 0.04332 | high_risk | NO |
| tcga-x q-a8tb | 4 | 5 | 0 | N0 | 3 | 6 7 | 0.024539 | high_risk | NO |
| tcga-yl -a8hk | 4 | 5 | 1 | N0 | 3 | 6 0 | 0.023189 | high_risk | NO |
| tcga-yl -a8hl | 4 | 5 | 0. 03 | N1 | 3 | 5 8 | 0.085059 | high_risk | NO |
| tcga-yl -a8hm | 4 | 5 | 0. 03 | N0 | 3 | 6 6 | 0.024282 | high_risk | NO |
| tcga-yl -a8s8 | 4 | 5 | 1. 36 | N0 | 3 | 6 9 | 0.025831 | high_risk | NO |
| tcga-yl -a8s9 | 4 | 5 | 0. 03 | N0 | 3 | 6 4 | 0.023747 | high_risk | NO |
| tcga-yl -a8sb | 4 | 5 | 0. 23 | N0 | 3 | 6 3 | 0.023585 | high_risk | NO |
| tcga-yl -a8sc | 4 | 5 | 0. 65 | N0 | 3 | 6 6 | 0.024607 | high_risk | NO |
| tcga-yl -a8si | 4 | 5 | 0. 48 | N0 | 3 | 6 9 | 0.02535 | high_risk | NO |
| tcga-yl -a8sj | 4 | 5 | 0. 24 | N0 | 3 | 6 0 | 0.022814 | high_risk | NO |
| tcga-yl -a8sk | 4 | 5 | 0. 03 | N1 | 3 | 6 8 | 0.094372 | high_risk | NO |
| tcga-yl -a8sl | 4 | 4 | 0 | N1 | 3 | 7 4 | 0.05064 | high_risk | NO |
| tcga-yl -a8sq | 4 | 5 | 1. 1 | N0 | 3 | 6 2 | 0.023763 | high_risk | NO |
| tcga-yl -a8sr | 4 | 5 | 0. 06 | N0 | 3 | 6 4 | 0.023763 | high_risk | NO |
| tcga-yl -a9wh | 4 | 5 | 0. 03 | N1 | 3 | 6 8 | 0.094372 | high_risk | NO |
| tcga-yl -a9wi | 4 | 5 | 0. 03 | N1 | 3 | 6 4 | 0.090542 | high_risk | NO |
| tcga-yl | 4 | 4 | 3. | N1 | 3 | 4 | 0.040265 | high_risk | NO |

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| -a9wj | | | 1 | | | 7 | | | |
| tcga-yl -a9wk | 4 | 5 | 15 .6 | N0 | 3 | 6 4 | 0.033101 | high_risk | NO |
| tcga-yl -a9wl | 4 | 5 | 6. 4 | N0 | 3 | 5 9 | 0.025743 | high_risk | NO |
| tcga-yl -a9wx | 4 | 5 | 0. 76 | N1 | 3 | 6 9 | 0.096743 | high_risk | NO |
| tcga-z g-a8qz | 4 | 5 | 0. 01 | N1 | 3 | 6 6 | 0.092402 | high_risk | NO |
| tcga-z g-a9l1 | 4 | 5 | 0. 07 | N1 | 3 | 6 6 | 0.092513 | high_risk | NO |
| tcga-z g-a9l2 | 4 | 5 | 0. 01 | N0 | 3 | 7 0 | 0.025377 | high_risk | NO |
| tcga-z g-a9l4 | 5 | 4 | 0. 03 | N0 | 3 | 6 1 | 0.035516 | high_risk | NO |
| tcga-z g-a9l6 | 5 | 4 | 0. 36 | N0 | 3 | 6 5 | 0.037373 | high_risk | NO |
| tcga-z g-a9lb | 5 | 4 | 0. 02 | N0 | 3 | 7 2 | 0.040068 | high_risk | NO |
| tcga-z g-a9l m | 4 | 5 | 0 | N1 | 3 | 7 2 | 0.098289 | high_risk | NO |
| tcga-z g-a9ln | 5 | 4 | 7. 42 | N1 | 3 | 5 8 | 0.146233 | high_risk | NO |
| tcga-z g-a9ls | 5 | 4 | 0. 03 | N1 | 3 | 6 4 | 0.134917 | high_risk | NO |
| tcga-z g-a9lu | 5 | 4 | 0. 7 | N0 | 3 | 6 8 | 0.038903 | high_risk | NO |
| tcga-z g-a9ly | 4 | 5 | 0. 01 | N1 | 3 | 6 0 | 0.086817 | high_risk | NO |
| tcga-z g-a9lz | 4 | 5 | 2. 19 | N0 | 3 | 6 6 | 0.025431 | high_risk | NO |
| tcga-z g-a9m 4 | 5 | 4 | 0. 95 | N1 | 3 | 6 6 | 0.140017 | high_risk | NO |
| tcga-z g-a9m c | 5 | 4 | 31 .8 5 | N1 | 3 | 7 0 | 0.251366 | high_risk | NO |
| tcga-z g-a9n 3 | 5 | 4 | 0. 1 | N1 | 3 | 7 4 | 0.148996 | high_risk | NO |
| tcga-z g-a9n d | 5 | 4 | 0. 08 | N0 | 3 | 5 6 | 0.033648 | high_risk | NO |

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| tcga-z g-a9ni | 5 | 4 | 0. 03 | NO | 3 | 7 3 | 0.040518 | high_risk | NO |
| tcga-c h-576 3 | 3 | 4 | 0. 1 | NO | 3 | 6 7 | 0.003668 | low_risk | NO |
| tcga-c h-576 4 | 4 | 3 | 13 .9 5 | NO | 3 | 6 6 | 0.007669 | low_risk | NO |
| tcga-c h-579 0 | 3 | 4 | 0. 1 | NO | 2 | 6 4 | 0.003137 | low_risk | NO |
| tcga-c h-579 1 | 3 | 4 | 0. 18 | NO | 3 | 7 2 | 0.00389 | low_risk | NO |
| tcga-e j-5542 | 3 | 4 | 0. 1 | NO | 3 | 6 0 | 0.003388 | low_risk | NO |
| tcga-e j-7123 | 3 | 4 | 0. 1 | NO | 2 | 6 0 | 0.002997 | low_risk | NO |
| tcga-e j-7312 | 4 | 3 | 0. 1 | NO | 3 | 5 8 | 0.005178 | low_risk | NO |
| tcga-e j-7325 | 3 | 4 | 0. 1 | NO | 3 | 6 3 | 0.003505 | low_risk | NO |
| tcga-e j-7791 | 3 | 4 | 0. 1 | NO | 2 | 6 7 | 0.003246 | low_risk | NO |
| tcga-e j-a46b | 4 | 4 | 0. 1 | NO | 3 | 6 7 | 0.011915 | low_risk | NO |
| tcga-e j-a46g | 4 | 4 | 0. 1 | NO | 3 | 7 2 | 0.012606 | low_risk | NO |
| tcga-g 9-636 4 | 3 | 4 | 0. 03 | NO | 3 | 7 3 | 0.003921 | low_risk | NO |
| tcga-h c-774 8 | 3 | 3 | 0. 1 | NO | 2 | 6 0 | 0.001436 | low_risk | NO |
| tcga-h c-a76 w | 3 | 4 | 0. 01 | NO | 3 | 7 3 | 0.00392 | low_risk | NO |
| tcga-k c-a7fa | 3 | 4 | 0 | NO | 3 | 6 4 | 0.003538 | low_risk | NO |
| tcga-q u-a6i m | 3 | 4 | 0. 1 | NO | 2 | 6 0 | 0.002997 | low_risk | NO |
| tcga-x k-aaj3 | 4 | 4 | 0. 09 | NO | 3 | 5 6 | 0.010522 | low_risk | NO |

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| tcga-x k-aak1 | 4 | 3 | 0. 09 | NO | 2 | 6 3 | 0.004849 | low_risk | NO |
| tcga-2 a-a8vl | 3 | 3 | 0. 05 | NO | 2 | 5 1 | 0.001294 | low_risk | NO |
| tcga-2 a-a8vv | 3 | 3 | 0. 05 | NO | 2 | 5 2 | 0.001309 | low_risk | NO |
| tcga-2 a-a8vx | 4 | 4 | 0. 05 | NO | 3 | 7 1 | 0.012451 | low_risk | NO |
| tcga-2 a-a8w 1 | 4 | 3 | 0. 05 | NO | 3 | 5 5 | 0.004999 | low_risk | NO |
| tcga-2 a-aay u | 3 | 3 | 0. 05 | NO | 3 | 5 6 | 0.001549 | low_risk | NO |
| tcga-4 l-aa1f | 4 | 4 | 3. 5 | NO | 3 | 6 5 | 0.012541 | low_risk | NO |
| tcga-c h-573 7 | 4 | 3 | 14 .6 9 | NO | 2 | 7 3 | 0.007468 | low_risk | NO |
| tcga-c h-573 9 | 3 | 4 | 0. 02 | NO | 3 | 6 6 | 0.003621 | low_risk | NO |
| tcga-c h-574 0 | 3 | 4 | 1. 6 | NO | 2 | 5 7 | 0.002993 | low_risk | NO |
| tcga-c h-574 3 | 3 | 4 | 0. 1 | NO | 2 | 6 7 | 0.003246 | low_risk | NO |
| tcga-c h-574 4 | 4 | 3 | 9. 63 | NO | 2 | 6 5 | 0.006108 | low_risk | NO |
| tcga-c h-574 5 | 3 | 4 | 4. 3 | NO | 3 | 6 8 | 0.004067 | low_risk | NO |
| tcga-c h-574 6 | 3 | 4 | 0. 1 | NO | 2 | 5 7 | 0.002897 | low_risk | NO |
| tcga-c h-575 0 | 3 | 4 | 0. 02 | NO | 2 | 7 2 | 0.00343 | low_risk | NO |
| tcga-c h-575 2 | 4 | 4 | 0. 02 | NO | 3 | 6 7 | 0.011895 | low_risk | NO |
| tcga-c | 4 | 3 | 0. | NO | 3 | 6 | 0.005286 | low_risk | NO |

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| | h-576 2 | | | 01 | | | 0 | | | |
| | tcga-c h-576 5 | 3 | 4 | 0. 02 | NO | 3 | 5 6 | 0.003231 | low_risk | NO |
| | tcga-c h-576 7 | 4 | 3 | 0. 04 | NO | 2 | 6 7 | 0.005069 | low_risk | NO |
| | tcga-c h-576 8 | 2 | 4 | 0. 1 | NO | 3 | 7 3 | 0.001202 | low_risk | NO |
| | tcga-c h-577 1 | 4 | 3 | 0. 03 | NO | 2 | 6 3 | 0.004842 | low_risk | NO |
| | tcga-c h-578 9 | 3 | 4 | 0. 02 | NO | 3 | 6 2 | 0.00346 | low_risk | NO |
| | tcga-c h-579 4 | 3 | 4 | 0. 01 | NO | 2 | 6 6 | 0.003203 | low_risk | NO |
| | tcga-e j-5496 | 3 | 4 | 0. 1 | NO | 2 | 6 0 | 0.002997 | low_risk | NO |
| | tcga-e j-5497 | 3 | 4 | 0. 1 | NO | 2 | 4 8 | 0.002615 | low_risk | NO |
| | tcga-e j-5498 | 4 | 3 | 0. 1 | NO | 2 | 5 6 | 0.004479 | low_risk | NO |
| | tcga-e j-5499 | 4 | 3 | 0. 1 | NO | 3 | 6 1 | 0.005357 | low_risk | NO |
| | tcga-e j-5501 | 4 | 3 | 0. 1 | NO | 3 | 5 6 | 0.005062 | low_risk | NO |
| | tcga-e j-5502 | 4 | 3 | 0. 1 | NO | 2 | 5 1 | 0.004232 | low_risk | NO |
| | tcga-e j-5503 | 5 | 3 | 0. 1 | NO | 3 | 5 0 | 0.015321 | low_risk | NO |
| | tcga-e j-5505 | 4 | 3 | 0. 1 | NO | 2 | 5 8 | 0.004582 | low_risk | NO |
| | tcga-e j-5508 | 3 | 4 | 0. 1 | NO | 3 | 6 5 | 0.003586 | low_risk | NO |
| | tcga-e j-5509 | 3 | 4 | 0. 1 | NO | 2 | 6 4 | 0.003137 | low_risk | NO |
| | tcga-e j-5510 | 4 | 3 | 0. 1 | NO | 2 | 4 9 | 0.004137 | low_risk | NO |
| | tcga-e j-5511 | 3 | 4 | 0. 04 | NO | 3 | 5 6 | 0.003233 | low_risk | NO |

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| tcga-e j-5512 | 3 | 4 | 0 | NO | 2 | 4 7 | 0.002579 | low_risk | NO |
| tcga-e j-5515 | 3 | 4 | 0. 1 | NO | 3 | 6 1 | 0.003426 | low_risk | NO |
| tcga-e j-5516 | 3 | 4 | 0. 12 | NO | 3 | 4 9 | 0.002991 | low_risk | NO |
| tcga-e j-5517 | 3 | 3 | 0. 1 | NO | 2 | 5 6 | 0.001372 | low_risk | NO |
| tcga-e j-5521 | 3 | 4 | 0. 1 | NO | 3 | 6 4 | 0.003545 | low_risk | NO |
| tcga-e j-5522 | 3 | 4 | 0. 1 | NO | 2 | 5 2 | 0.002736 | low_risk | NO |
| tcga-e j-5527 | 4 | 3 | 0. 1 | NO | 3 | 6 9 | 0.005867 | low_risk | NO |
| tcga-e j-5530 | 3 | 4 | 0. 1 | NO | 2 | 6 1 | 0.003032 | low_risk | NO |
| tcga-e j-5531 | 4 | 3 | 0. 1 | NO | 3 | 6 2 | 0.005418 | low_risk | NO |
| tcga-e j-5532 | 3 | 4 | 0. 1 | NO | 3 | 5 8 | 0.003312 | low_risk | NO |
| tcga-e j-7115 | 4 | 3 | 0. 1 | NO | 3 | 6 6 | 0.00567 | low_risk | NO |
| tcga-e j-7125 | 3 | 4 | 0. 1 | NO | 2 | 4 5 | 0.002527 | low_risk | NO |
| tcga-e j-7218 | 3 | 4 | 0. 1 | NO | 2 | 7 2 | 0.003436 | low_risk | NO |
| tcga-e j-7314 | 4 | 3 | 0. 1 | NO | 3 | 6 2 | 0.005418 | low_risk | NO |
| tcga-e j-7315 | 4 | 3 | 0. 1 | NO | 3 | 6 9 | 0.005867 | low_risk | NO |
| tcga-e j-7317 | 3 | 4 | 0. 1 | NO | 2 | 7 1 | 0.003397 | low_risk | NO |
| tcga-e j-7321 | 3 | 3 | 0. 1 | NO | 3 | 5 8 | 0.001587 | low_risk | NO |
| tcga-e j-7327 | 3 | 4 | 0. 1 | NO | 3 | 6 2 | 0.003466 | low_risk | NO |
| tcga-e j-7330 | 4 | 3 | 0. 1 | NO | 3 | 6 9 | 0.005867 | low_risk | NO |
| tcga-e j-7331 | 3 | 4 | 0. 8 | NO | 2 | 6 4 | 0.003185 | low_risk | NO |
| tcga-e j-7781 | 3 | 4 | 0. 1 | NO | 2 | 6 6 | 0.003209 | low_risk | NO |
| tcga-e j-7782 | 4 | 4 | 0. 1 | NO | 2 | 7 1 | 0.01104 | low_risk | NO |

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| tcga-e j-7783 | 4 | 3 | 0. 7 | NO | 3 | 7 0 | 0.006012 | low_risk | NO |
| tcga-e j-7784 | 4 | 3 | 0. 1 | NO | 2 | 6 4 | 0.004905 | low_risk | NO |
| tcga-e j-7785 | 3 | 4 | 0. 1 | NO | 3 | 5 5 | 0.0032 | low_risk | NO |
| tcga-e j-7786 | 3 | 4 | 0. 1 | NO | 2 | 6 2 | 0.003066 | low_risk | NO |
| tcga-e j-7788 | 3 | 4 | 0. 2 | NO | 3 | 5 4 | 0.003171 | low_risk | NO |
| tcga-e j-7792 | 3 | 4 | 0. 13 | NO | 2 | 5 3 | 0.00277 | low_risk | NO |
| tcga-e j-7794 | 3 | 4 | 0. 1 | NO | 2 | 6 7 | 0.003246 | low_risk | NO |
| tcga-e j-7797 | 3 | 4 | 0. 1 | NO | 2 | 5 4 | 0.002799 | low_risk | NO |
| tcga-e j-8468 | 4 | 4 | 0. 1 | NO | 3 | 6 4 | 0.011519 | low_risk | NO |
| tcga-e j-8472 | 4 | 4 | 0. 4 | NO | 3 | 6 3 | 0.011464 | low_risk | NO |
| tcga-e j-8474 | 4 | 4 | 0. 01 | NO | 3 | 7 0 | 0.012301 | low_risk | NO |
| tcga-e j-a46d | 3 | 5 | 0. 03 | NO | 2 | 5 3 | 0.00576 | low_risk | NO |
| tcga-e j-a46h | 3 | 4 | 0. 1 | NO | 2 | 6 0 | 0.002997 | low_risk | NO |
| tcga-e j-a46i | 3 | 4 | 0. 1 | NO | 3 | 5 8 | 0.003312 | low_risk | NO |
| tcga-e j-a65d | 4 | 4 | 0. 1 | NO | 3 | 6 7 | 0.011915 | low_risk | NO |
| tcga-e j-a65e | 4 | 3 | 0. 1 | NO | 3 | 6 7 | 0.005735 | low_risk | NO |
| tcga-e j-a65g | 3 | 5 | 0. 1 | NO | 2 | 5 7 | 0.006037 | low_risk | NO |
| tcga-e j-a65 m | 3 | 3 | 0. 1 | NO | 2 | 6 5 | 0.00152 | low_risk | NO |
| tcga-e j-a7nf | 3 | 4 | 0. 1 | NO | 2 | 5 6 | 0.002864 | low_risk | NO |
| tcga-e j-a7ng | 3 | 4 | 0. 1 | NO | 3 | 6 4 | 0.003545 | low_risk | NO |
| tcga-e j-a7nh | 3 | 4 | 0. 1 | NO | 2 | 5 7 | 0.002897 | low_risk | NO |
| tcga-e | 4 | 4 | 0. | NO | 2 | 6 | 0.00975 | low_risk | NO |

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| j-a7nj | | | 1 | | | 0 | | | |
| tcga-e j-a7nk | 3 | 4 | 0. 1 | NO | 3 | 5 9 | 0.003349 | low_risk | NO |
| tcga-e j-a8fn | 3 | 4 | 0. 1 | NO | 2 | 5 9 | 0.002963 | low_risk | NO |
| tcga-e j-a8fo | 4 | 3 | 0. 1 | NO | 3 | 5 2 | 0.004837 | low_risk | NO |
| tcga-e j-a8fp | 3 | 5 | 0. 2 | NO | 2 | 6 0 | 0.006259 | low_risk | NO |
| tcga-e j-a8fs | 3 | 4 | 0. 3 | NO | 3 | 6 7 | 0.003685 | low_risk | NO |
| tcga-e j-ab20 | 3 | 3 | 0. 1 | NO | 2 | 6 2 | 0.001469 | low_risk | NO |
| tcga-e j-ab27 | 3 | 3 | 0. 1 | NO | 2 | 5 1 | 0.001296 | low_risk | NO |
| tcga-fc -a66v | 4 | 3 | 10 .8 | NO | 3 | 7 5 | 0.007929 | low_risk | NO |
| tcga-fc -a8o0 | 3 | 3 | 7. 82 | NO | 3 | 6 9 | 0.00213 | low_risk | NO |
| tcga-g 9-633 2 | 4 | 3 | 0. 73 | NO | 3 | 5 5 | 0.005074 | low_risk | NO |
| tcga-g 9-633 3 | 4 | 3 | 0. 03 | NO | 2 | 6 6 | 0.00501 | low_risk | NO |
| tcga-g 9-633 8 | 4 | 3 | 0. 05 | NO | 3 | 6 1 | 0.005351 | low_risk | NO |
| tcga-g 9-633 9 | 3 | 4 | 0. 03 | NO | 3 | 5 8 | 0.003306 | low_risk | NO |
| tcga-g 9-634 8 | 3 | 4 | 0. 02 | NO | 2 | 6 8 | 0.003277 | low_risk | NO |
| tcga-g 9-636 1 | 3 | 4 | 0. 1 | NO | 3 | 6 2 | 0.003466 | low_risk | NO |
| tcga-g 9-636 2 | 4 | 3 | 0. 07 | NO | 3 | 5 8 | 0.005175 | low_risk | NO |
| tcga-g 9-636 3 | 4 | 3 | 0. 03 | NO | 4 | 6 4 | 0.006253 | low_risk | NO |
| tcga-g | 3 | 4 | 0. | NO | 4 | 7 | 0.00438 | low_risk | NO |

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| | 9-636 5 | | | 01 | | | 2 | | | |
| | tcga-g 9-636 9 | 4 | 3 | 0. 03 | NO | 2 | 5 5 | 0.004422 | low_risk | NO |
| | tcga-g 9-637 0 | 3 | 4 | 0. 03 | NO | 3 | 5 2 | 0.003088 | low_risk | NO |
| | tcga-g 9-637 7 | 3 | 4 | 0. 03 | NO | 2 | 6 1 | 0.003027 | low_risk | NO |
| | tcga-g 9-637 9 | 4 | 3 | 0. 03 | NO | 3 | 6 9 | 0.005858 | low_risk | NO |
| | tcga-g 9-638 4 | 3 | 4 | 0. 03 | NO | 3 | 5 4 | 0.003159 | low_risk | NO |
| | tcga-g 9-649 4 | 4 | 3 | 1. 13 | NO | 4 | 6 7 | 0.006627 | low_risk | NO |
| | tcga-g 9-649 6 | 4 | 3 | 0. 03 | NO | 2 | 6 2 | 0.004788 | low_risk | NO |
| | tcga-g 9-751 0 | 4 | 4 | 0. 03 | NO | 3 | 6 6 | 0.011764 | low_risk | NO |
| | tcga-g 9-752 2 | 3 | 4 | 0. 1 | NO | 2 | 4 9 | 0.002645 | low_risk | NO |
| | tcga-g 9-752 5 | 4 | 3 | 0. 03 | NO | 2 | 6 4 | 0.004898 | low_risk | NO |
| | tcga-g 9-a9s7 | 4 | 4 | 0. 13 | NO | 3 | 5 5 | 0.010413 | low_risk | NO |
| | tcga-h c-707 8 | 3 | 4 | 0. 01 | NO | 3 | 7 0 | 0.003788 | low_risk | NO |
| | tcga-h c-707 9 | 3 | 4 | 0. 1 | NO | 3 | 5 1 | 0.003058 | low_risk | NO |
| | tcga-h c-708 0 | 3 | 4 | 0. 1 | NO | 2 | 6 6 | 0.003209 | low_risk | NO |
| | tcga-h | 3 | 3 | 0. | NO | 2 | 6 | 0.001451 | low_risk | NO |

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| | c-720 9 | | | 05 | | | 1 | | | |
| | tcga-h c-721 0 | 3 | 4 | 0. 1 | NO | 2 | 7 5 | 0.003555 | low_risk | NO |
| | tcga-h c-721 1 | 3 | 4 | 10 .9 | NO | 2 | 6 2 | 0.003883 | low_risk | NO |
| | tcga-h c-721 2 | 3 | 4 | 0. 28 | NO | 2 | 5 6 | 0.002875 | low_risk | NO |
| | tcga-h c-723 0 | 3 | 4 | 3 | NO | 2 | 5 1 | 0.002883 | low_risk | NO |
| | tcga-h c-773 6 | 3 | 4 | 0. 02 | NO | 2 | 5 9 | 0.002958 | low_risk | NO |
| | tcga-h c-773 7 | 3 | 4 | 0. 1 | N1 | 2 | 5 5 | 0.011488 | low_risk | NO |
| | tcga-h c-774 0 | 3 | 4 | 0 | NO | 2 | 6 0 | 0.002991 | low_risk | NO |
| | tcga-h c-774 2 | 3 | 4 | 0. 1 | NO | 3 | 5 8 | 0.003312 | low_risk | NO |
| | tcga-h c-774 4 | 4 | 3 | 0. 04 | NO | 3 | 4 7 | 0.004564 | low_risk | NO |
| | tcga-h c-774 7 | 3 | 4 | 0. 19 | NO | 2 | 5 3 | 0.002773 | low_risk | NO |
| | tcga-h c-774 9 | 4 | 3 | 0. 1 | NO | 3 | 7 0 | 0.005933 | low_risk | NO |
| | tcga-h c-775 2 | 3 | 4 | 0. 1 | NO | 2 | 6 1 | 0.003032 | low_risk | NO |
| | tcga-h c-781 8 | 3 | 4 | 0. 01 | NO | 2 | 6 7 | 0.003239 | low_risk | NO |
| | tcga-h c-781 9 | 4 | 4 | 0. 01 | NO | 2 | 5 4 | 0.009092 | low_risk | NO |

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| tcga-h c-821 6 | 4 | 3 | 0. 19 | NO | 3 | 5 9 | 0.005247 | low_risk | NO |
| tcga-h c-825 7 | 3 | 4 | 0. 1 | N1 | 3 | 7 0 | 0.015355 | low_risk | NO |
| tcga-h c-825 8 | 3 | 3 | 0. 01 | NO | 2 | 5 7 | 0.001385 | low_risk | NO |
| tcga-h c-826 0 | 3 | 4 | 0. 01 | NO | 2 | 4 4 | 0.002493 | low_risk | NO |
| tcga-h c-826 2 | 4 | 4 | 0. 1 | NO | 2 | 5 7 | 0.009425 | low_risk | NO |
| tcga-h c-826 5 | 3 | 5 | 0. 1 | NO | 3 | 6 7 | 0.007639 | low_risk | NO |
| tcga-h c-a76x | 3 | 4 | 0. 01 | NO | 2 | 6 2 | 0.00306 | low_risk | NO |
| tcga-h c-a8d 0 | 3 | 4 | 0. 01 | NO | 2 | 6 2 | 0.00306 | low_risk | NO |
| tcga-h c-a8d 1 | 3 | 4 | 0. 01 | NO | 2 | 6 9 | 0.003314 | low_risk | NO |
| tcga-h i-7169 | 3 | 4 | 0. 1 | NO | 3 | 5 5 | 0.0032 | low_risk | NO |
| tcga-h i-7170 | 3 | 3 | 0. 1 | NO | 2 | 5 8 | 0.001403 | low_risk | NO |
| tcga-j 4-820 0 | 3 | 4 | 0. 1 | NO | 2 | 4 7 | 0.002585 | low_risk | NO |
| tcga-j 4-a67l | 3 | 4 | 0. 01 | NO | 3 | 5 5 | 0.003194 | low_risk | NO |
| tcga-j 4-a67 m | 4 | 3 | 0. 1 | NO | 3 | 5 5 | 0.005005 | low_risk | NO |
| tcga-j 4-a67 n | 3 | 4 | 0. 7 | NO | 3 | 6 1 | 0.003472 | low_risk | NO |
| tcga-j 4-a67 o | 3 | 4 | 0. 1 | NO | 2 | 5 9 | 0.002963 | low_risk | NO |

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| tcga-j 4-a67r | 4 | 3 | 0. 1 | NO | 2 | 6 5 | 0.004961 | low_risk | NO |
| tcga-j 4-a67s | 3 | 4 | 0. 1 | NO | 3 | 6 4 | 0.003545 | low_risk | NO |
| tcga-j 4-a6g 1 | 4 | 4 | 0. 1 | NO | 3 | 6 8 | 0.01205 | low_risk | NO |
| tcga-j 4-a6g 3 | 4 | 4 | 0. 4 | NO | 3 | 5 7 | 0.010713 | low_risk | NO |
| tcga-j 4-a83i | 4 | 3 | 0. 1 | NO | 3 | 6 4 | 0.005543 | low_risk | NO |
| tcga-j 4-a83j | 3 | 4 | 0. 04 | NO | 2 | 6 8 | 0.003279 | low_risk | NO |
| tcga-j 4-a83l | 3 | 4 | 0. 1 | NO | 2 | 6 1 | 0.003032 | low_risk | NO |
| tcga-j 4-a83 m | 4 | 3 | 0. 2 | NO | 2 | 6 5 | 0.004972 | low_risk | NO |
| tcga-j 4-aatv | 3 | 3 | 0 | NO | 2 | 7 1 | 0.001624 | low_risk | NO |
| tcga-j 4-aa u2 | 3 | 3 | 0 | NO | 2 | 5 9 | 0.001416 | low_risk | NO |
| tcga-k c-a4bl | 3 | 4 | 3. 15 | NO | 2 | 6 6 | 0.00343 | low_risk | NO |
| tcga-k c-a4b n | 3 | 4 | 0 | NO | 2 | 5 6 | 0.002858 | low_risk | NO |
| tcga-k c-a4b o | 3 | 4 | 0. 04 | NO | 2 | 5 6 | 0.00286 | low_risk | NO |
| tcga-k c-a7f3 | 3 | 4 | 0 | NO | 2 | 6 8 | 0.003276 | low_risk | NO |
| tcga-k c-a7f5 | 4 | 3 | 0 | NO | 2 | 5 5 | 0.004419 | low_risk | NO |
| tcga-k c-a7f6 | 3 | 4 | 0 | NO | 2 | 6 4 | 0.00313 | low_risk | NO |
| tcga-k c-a7fd | 3 | 4 | 0 | NO | 3 | 6 2 | 0.003458 | low_risk | NO |
| tcga-k c-a7fe | 3 | 4 | 0 | NO | 2 | 6 2 | 0.003059 | low_risk | NO |
| tcga-k k-a59z | 4 | 3 | 0. 1 | NO | 2 | 6 7 | 0.005075 | low_risk | NO |

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| tcga-k k-a6d y | 3 | 4 | 0. 1 | NO | 2 | 5 0 | 0.002675 | low_risk | NO |
| tcga-k k-a6e 2 | 3 | 4 | 0. 1 | NO | 2 | 5 5 | 0.002831 | low_risk | NO |
| tcga-k k-a6e 3 | 3 | 4 | 0. 1 | NO | 2 | 5 6 | 0.002864 | low_risk | NO |
| tcga-k k-a6e 4 | 3 | 4 | 0. 1 | NO | 2 | 6 9 | 0.00332 | low_risk | NO |
| tcga-k k-a6e 5 | 4 | 3 | 0. 1 | NO | 3 | 6 3 | 0.00548 | low_risk | NO |
| tcga-k k-a7a q | 4 | 3 | 0. 1 | NO | 2 | 6 2 | 0.004795 | low_risk | NO |
| tcga-k k-a7av | 3 | 4 | 0. 1 | NO | 2 | 5 8 | 0.00293 | low_risk | NO |
| tcga-k k-a7ay | 4 | 3 | 0. 2 | NO | 2 | 6 1 | 0.004751 | low_risk | NO |
| tcga-k k-a7b 1 | 4 | 3 | 0. 1 | NO | 3 | 6 5 | 0.005606 | low_risk | NO |
| tcga-k k-a8i5 | 3 | 4 | 0. 1 | NO | 2 | 5 6 | 0.002864 | low_risk | NO |
| tcga-k k-a8i6 | 4 | 3 | 0. 2 | NO | 3 | 5 9 | 0.005249 | low_risk | NO |
| tcga-k k-a8i9 | 4 | 4 | 0. 1 | NO | 3 | 6 1 | 0.011135 | low_risk | NO |
| tcga-k k-a8if | 4 | 3 | 0. 7 | NO | 3 | 5 7 | 0.005187 | low_risk | NO |
| tcga-k k-a8ig | 4 | 3 | 0. 1 | NO | 3 | 5 6 | 0.005062 | low_risk | NO |
| tcga-k k-a8ih | 4 | 3 | 0. 1 | NO | 3 | 5 1 | 0.004782 | low_risk | NO |
| tcga-k k-a8i m | 4 | 3 | 0. 1 | NO | 2 | 5 6 | 0.004479 | low_risk | NO |
| tcga-q u-a6il | 3 | 4 | 0. 2 | NO | 2 | 6 5 | 0.00318 | low_risk | NO |
| tcga-q u-a6in | 3 | 4 | 0. 1 | NO | 2 | 6 1 | 0.003032 | low_risk | NO |

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| | tcga-q u-a6io | 3 | 3 | 0. 1 | NO | 2 | 5 4 | 0.001341 | low_risk | NO |
| | tcga-q u-a6ip | 3 | 3 | 0 | NO | 2 | 6 6 | 0.001534 | low_risk | NO |
| | tcga-s u-a7e 7 | 5 | 3 | 0. 01 | NO | 2 | 6 1 | 0.015331 | low_risk | NO |
| | tcga-t p-a8tt | 4 | 3 | 0. 02 4 | NO | 3 | 6 4 | 0.005534 | low_risk | NO |
| | tcga-t p-a8tv | 4 | 3 | 0. 01 9 | NO | 2 | 6 3 | 0.004841 | low_risk | NO |
| | tcga-v 1-a8m f | 3 | 3 | 0. 14 | NO | 3 | 6 6 | 0.00174 | low_risk | NO |
| | tcga-v 1-a8m j | 3 | 4 | 0. 01 5 | N1 | 3 | 5 9 | 0.013543 | low_risk | NO |
| | tcga-v 1-a8m k | 3 | 3 | 0. 83 | NO | 2 | 4 2 | 0.001188 | low_risk | NO |
| | tcga-v 1-a8m l | 3 | 4 | 0. 01 | NO | 2 | 6 4 | 0.003131 | low_risk | NO |
| | tcga-v 1-a8m m | 4 | 3 | 0. 37 | NO | 3 | 6 1 | 0.005389 | low_risk | NO |
| | tcga-v 1-a8m u | 3 | 4 | 0. 01 5 | N1 | 3 | 5 7 | 0.013241 | low_risk | NO |
| | tcga-v 1-a8w l | 3 | 4 | 0. 01 5 | NO | 3 | 6 5 | 0.003579 | low_risk | NO |
| | tcga-v 1-a8x 3 | 3 | 4 | 0. 03 | NO | 2 | 5 2 | 0.002732 | low_risk | NO |
| | tcga-v 1-a9o 9 | 3 | 5 | 5. 04 | NO | 3 | 5 7 | 0.007596 | low_risk | NO |
| | tcga-v 1-a9o x | 3 | 5 | 0. 04 | NO | 2 | 5 7 | 0.006029 | low_risk | NO |
| | tcga-v | 4 | 4 | 0. | NO | 3 | 6 | 0.012163 | low_risk | NO |

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| | 1-a9zk | | | 01 | | | 9 | | | |
| | tcga-v 1-a9zr | 4 | 4 | 1. 44 | NO | 4 | 6 9 | 0.014163 | low_risk | NO |
| | tcga-v n-a88i | 4 | 4 | 0. 16 | NO | 3 | 5 9 | 0.010901 | low_risk | NO |
| | tcga-v n-a88l | 3 | 4 | 0 | NO | 2 | 5 5 | 0.002825 | low_risk | NO |
| | tcga-v n-a88 n | 4 | 3 | 0 | NO | 2 | 6 2 | 0.004785 | low_risk | NO |
| | tcga-v n-a88 o | 3 | 4 | 0 | NO | 2 | 4 9 | 0.002639 | low_risk | NO |
| | tcga-v n-a88 p | 3 | 4 | 0 | NO | 2 | 6 0 | 0.002991 | low_risk | NO |
| | tcga-v n-a88 q | 4 | 4 | 0 | NO | 2 | 6 1 | 0.009839 | low_risk | NO |
| | tcga-v n-a88r | 4 | 4 | 0. 15 | NO | 2 | 5 3 | 0.009018 | low_risk | NO |
| | tcga-v n-a94 3 | 4 | 4 | 0. 01 | NO | 2 | 7 2 | 0.011143 | low_risk | NO |
| | tcga-v p-a87 5 | 3 | 4 | 0. 01 | NO | 3 | 6 8 | 0.003703 | low_risk | NO |
| | tcga-v p-a87 6 | 3 | 5 | 0. 1 | NO | 2 | 4 6 | 0.005328 | low_risk | NO |
| | tcga-v p-a87 b | 4 | 4 | 3. 37 | NO | 2 | 6 4 | 0.010951 | low_risk | NO |
| | tcga-v p-a87 c | 4 | 3 | 0. 5 | NO | 2 | 6 7 | 0.00512 | low_risk | NO |
| | tcga-v p-a87 e | 3 | 3 | 0. 11 | NO | 2 | 6 0 | 0.001436 | low_risk | NO |
| | tcga-v p-a87j | 3 | 4 | 0. 13 | N1 | 3 | 5 7 | 0.013274 | low_risk | NO |
| | tcga-v p-a87 k | 4 | 4 | 0. 3 | NO | 3 | 6 3 | 0.011439 | low_risk | NO |

| | | | | | | | | | |
|--------------|---|---|------|----|---|----|----------|----------|----|
| tcga-ww-a8zi | 4 | 4 | 0 | NO | 2 | 70 | 0.010892 | low_risk | NO |
| tcga-xa-a8jr | 4 | 3 | 0 | NO | 2 | 69 | 0.00518 | low_risk | NO |
| tcga-xk-aair | 4 | 4 | 0.09 | NO | 2 | 76 | 0.011678 | low_risk | NO |
| tcga-xk-aaja | 4 | 3 | 0.09 | NO | 3 | 62 | 0.005417 | low_risk | NO |
| tcga-xk-aajp | 4 | 3 | 0.09 | NO | 3 | 67 | 0.005734 | low_risk | NO |
| tcga-xk-aajr | 4 | 3 | 0.09 | NO | 3 | 62 | 0.005417 | low_risk | NO |
| tcga-xk-aajt | 4 | 3 | 0.09 | NO | 3 | 75 | 0.006278 | low_risk | NO |
| tcga-xk-aaju | 4 | 3 | 0.09 | NO | 2 | 66 | 0.005017 | low_risk | NO |
| tcga-y6-a8tl | 3 | 3 | 0 | NO | 3 | 65 | 0.001715 | low_risk | NO |
| tcga-yl-a8ho | 4 | 3 | 0.01 | NO | 3 | 67 | 0.005724 | low_risk | NO |
| tcga-yl-a8sa | 4 | 4 | 0.06 | NO | 3 | 69 | 0.012176 | low_risk | NO |
| tcga-yl-a8sf | 4 | 4 | 0.01 | NO | 3 | 63 | 0.011367 | low_risk | NO |
| tcga-yl-a8sh | 4 | 3 | 0.06 | NO | 3 | 70 | 0.005928 | low_risk | NO |