

Supplementary tables

Table SI. Clinical data of bladder cancer.

| ID | Futime | Fustat | Age, years | Sex | Grade | Stage | T | M | N |
|------------------|--------|--------|---------------|--------|-------|-------|-----|----|----|
| TCGA-GU- AATP | 1003 | 0 | 74 | Male | High | IV | T2 | MX | N2 |
| TCGA-CF- A1HR | 389 | 0 | 62 | Male | High | III | T3 | M0 | N0 |
| TCGA-GV- A3QK | 832 | 0 | 56 | Female | High | IV | T4a | M0 | N2 |
| TCGA-XF- A9SJ | 98 | 1 | 83 | Male | High | IV | T3b | MX | N2 |
| TCGA-FD- A6TB | 572 | 0 | 82 | Male | High | III | T3a | MX | N0 |
| TCGA-FD- A5C0 | 407 | 0 | 61 | Male | High | IV | T3a | MX | N2 |
| TCGA-XF- AAMX | 206 | 1 | 87 | Female | High | III | T3b | MX | N0 |
| TCGA-E7- A6ME | 395 | 0 | 75 | Male | High | II | T2b | M0 | NX |
| TCGA-FD- A3SS | 391 | 1 | 66 | Male | High | IV | T4 | MX | N3 |
| TCGA-DK- A3WW | 497 | 0 | 57 | Male | High | III | T3 | M0 | N0 |
| TCGA-FD- A3SM | 547 | 1 | 70 | Male | High | IV | T3a | M1 | N2 |

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|--------------|------|---|----|--------|---------|-----|---------|----|----|
| TCGA-UY-A78K | 536 | 1 | 60 | Male | High | IV | Unknown | MX | N2 |
| TCGA-XF-AAMQ | 2177 | 0 | 59 | Female | High | II | T2a | MX | N0 |
| TCGA-UY-A9PD | 542 | 0 | 80 | Male | High | III | T3a | MX | N0 |
| TCGA-MV-A51V | 410 | 0 | 75 | Male | High | III | T3a | M0 | N0 |
| TCGA-GV-A6ZA | 691 | 0 | 54 | Male | High | II | T2b | MX | N0 |
| TCGA-R3-A69X | 433 | 0 | 70 | Male | High | III | T3a | M0 | N0 |
| TCGA-FJ-A3Z7 | 945 | 0 | 76 | Male | High | IV | T4a | MX | N2 |
| TCGA-E7-A7XN | 428 | 0 | 66 | Male | High | III | T3 | M0 | N0 |
| TCGA-UY-A9PB | 899 | 0 | 49 | Male | High | III | T3a | MX | N0 |
| TCGA-GU-AATO | 324 | 1 | 75 | Male | High | IV | T4a | MX | N2 |
| TCGA-ZF-A9R2 | 642 | 0 | 75 | Male | High | II | T2b | M0 | N0 |
| TCGA-DK-AA6U | 578 | 0 | 64 | Male | Unknown | II | Unknown | M0 | N0 |
| TCGA-KQ-A41O | 1538 | 0 | 84 | Male | High | IV | T3 | M0 | N1 |

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|--------------|------|---|----|--------|------|-----|-----------------|----|----|
| TCGA-ZF-A9R9 | 864 | 1 | 58 | Male | High | IV | T3b | MX | N2 |
| TCGA-FD-A62S | 368 | 0 | 60 | Female | High | III | T3b | MX | N0 |
| TCGA-XF-AAN2 | 1869 | 1 | 73 | Male | High | II | T2b | MX | N0 |
| TCGA-GV-A3JW | 649 | 0 | 74 | Male | High | II | T2 | MX | NX |
| TCGA-CF-A47X | 384 | 0 | 60 | Male | Low | II | T2 | M0 | N0 |
| TCGA-FD-A43Y | 369 | 0 | 65 | Male | High | III | T4 | MX | N0 |
| TCGA-BT-A20V | 154 | 1 | 59 | Female | High | IV | T4a | M0 | N2 |
| TCGA-DK-A2HX | 55 | 0 | 80 | Female | High | IV | T3 | M0 | N2 |
| TCGA-S5-A6DX | 56 | 1 | 83 | Male | High | IV | T4a | MX | N2 |
| TCGA-GC-A3YS | 758 | 0 | 61 | Male | High | IV | T3a | MX | N1 |
| TCGA-LT-A5Z6 | 474 | 0 | 56 | Male | High | II | Unk now n | MX | NX |
| TCGA-CU-A3KJ | 562 | 0 | 75 | Male | High | III | T3b | M0 | N0 |
| TCGA-CU-A72E | 413 | 1 | 76 | Male | High | IV | T3b | M0 | N2 |

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|--------------|------|---|----|--------|------|-----|-----|----|----|
| TCGA-FD-A5BY | 251 | 0 | 63 | Female | High | III | T3a | MX | N0 |
| TCGA-CF-A8HY | 345 | 0 | 59 | Male | High | II | T2 | M0 | N0 |
| TCGA-C4-A0F1 | 89 | 0 | 71 | Male | High | III | T3b | M0 | N0 |
| TCGA-BL-A0C8 | 876 | 0 | 73 | Male | High | I | T1 | M0 | NX |
| TCGA-SY-A9G0 | 378 | 0 | 82 | Male | High | IV | T4 | M0 | N1 |
| TCGA-DK-A3IL | 413 | 1 | 79 | Female | High | IV | T3 | M0 | N2 |
| TCGA-FD-A3B6 | 209 | 0 | 75 | Male | High | II | T2b | MX | N0 |
| TCGA-UY-A9PA | 1072 | 0 | 48 | Male | High | III | T3a | MX | N0 |
| TCGA-XF-A9SU | 182 | 1 | 74 | Female | High | IV | T3b | MX | N1 |
| TCGA-E7-A85H | 394 | 0 | 64 | Male | High | III | T3 | M0 | N0 |
| TCGA-K4-A4AB | 76 | 0 | 76 | Male | High | III | T4a | MX | N0 |
| TCGA-E7-A677 | 443 | 0 | 81 | Male | Low | II | T2b | M0 | N0 |
| TCGA-XF-A9SK | 486 | 1 | 65 | Male | High | IV | T3b | MX | N1 |
| TCGA-CF-A47W | 368 | 0 | 42 | Male | Low | II | T2 | M0 | N0 |

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|--------------|------|---|----|--------|------|-----|---------|----|----|
| TCGA-CF-A47Y | 373 | 0 | 55 | Male | Low | II | T2 | M0 | N0 |
| TCGA-5N-A9KI | 76 | 1 | 76 | Female | High | III | T4 | MX | NX |
| TCGA-GV-A3JX | 581 | 0 | 59 | Male | High | III | T3b | MX | N0 |
| TCGA-ZF-A9RG | 1786 | 0 | 70 | Female | High | III | T3b | MX | N0 |
| TCGA-FD-A5BT | 328 | 1 | 84 | Male | High | III | T3b | MX | N0 |
| TCGA-CF-A9FM | 398 | 0 | 50 | Male | High | I | T1 | M0 | N0 |
| TCGA-H4-A2HQ | 590 | 0 | 64 | Female | High | IV | Unknown | M1 | NX |
| TCGA-ZF-AA5N | 168 | 1 | 62 | Female | High | IV | T2 | M1 | NX |
| TCGA-ZF-A9RC | 2868 | 0 | 77 | Male | High | III | T3a | MX | N0 |
| TCGA-BL-A3JM | 205 | 1 | 62 | Male | High | III | T3 | M0 | N0 |
| TCGA-FD-A5BR | 656 | 0 | 57 | Male | High | II | T2b | MX | N0 |
| TCGA-4Z-AA7R | 522 | 1 | 73 | Male | High | IV | T4b | M0 | N0 |
| TCGA-YF-AA3M | 415 | 0 | 57 | Male | High | II | T2a | MX | NX |

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|--------------|------|---|----|--------|------|-----|---------|----|---------|
| TCGA-ZF-A9RE | 106 | 1 | 78 | Female | High | II | Unknown | MX | unknown |
| TCGA-DK-A3IQ | 539 | 1 | 74 | Male | High | III | T3 | M0 | N0 |
| TCGA-E7-A6MF | 436 | 0 | 37 | Male | Low | II | T2a | M0 | NX |
| TCGA-K4-A3WU | 105 | 0 | 87 | Male | High | III | T4a | MX | N0 |
| TCGA-4Z-AA7N | 1367 | 1 | 65 | Male | High | III | T3a | M0 | N0 |
| TCGA-FD-A3SN | 390 | 0 | 79 | Male | High | III | T3b | MX | N0 |
| TCGA-DK-A1A5 | 65 | 1 | 79 | Male | High | II | T2b | M0 | N0 |
| TCGA-FD-A5BS | 1261 | 0 | 68 | Male | High | III | T3b | MX | N0 |
| TCGA-2F-A9KQ | 2787 | 0 | 69 | Male | High | III | T3a | M0 | N0 |
| TCGA-E7-A3X6 | 407 | 0 | 70 | Male | Low | II | T2 | M0 | NX |
| TCGA-K4-A54R | 842 | 0 | 59 | Male | High | II | T2b | MX | N0 |
| TCGA-FD-A6TE | 376 | 0 | 54 | Male | High | IV | T3a | MX | N2 |
| TCGA-BT-A3PH | 142 | 1 | 76 | Male | High | IV | T3b | MX | N2 |

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|--------------|------|---|----|--------|------|-----|-------------|----|----|
| TCGA-DK-AA6M | 1582 | 0 | 64 | Female | High | II | T2 | M0 | N0 |
| TCGA-GV-A3QF | 617 | 1 | 79 | Male | High | IV | T3b | MX | N2 |
| TCGA-DK-A6AV | 1952 | 0 | 82 | Female | High | II | T2a | M0 | N0 |
| TCGA-ZF-AA4R | 1036 | 1 | 67 | Male | High | IV | T3a | MX | N1 |
| TCGA-DK-AA6T | 572 | 0 | 63 | Male | High | II | Unkn own | M0 | N0 |
| TCGA-4Z-AA7M | 405 | 0 | 65 | Male | High | III | T3a | M0 | N0 |
| TCGA-BT-A20Q | 593 | 1 | 73 | Male | High | IV | T3b | M0 | N2 |
| TCGA-G2-A2EO | 1072 | 0 | 69 | Male | High | III | T3a | M0 | N0 |
| TCGA-DK-A1AF | 536 | 0 | 84 | Female | High | IV | T3 | M0 | N2 |
| TCGA-E7-A6MD | 129 | 0 | 66 | Male | High | IV | T4a | M0 | N1 |
| TCGA-FD-A5BX | 173 | 1 | 82 | Male | High | IV | T3b | MX | N1 |
| TCGA-ZF-A9R4 | 921 | 0 | 83 | Male | High | II | T2 | M0 | NX |
| TCGA-DK-A1A7 | 560 | 0 | 67 | Female | High | IV | T3 | M0 | N2 |

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|--------------|------|---|----|--------|------|-----|-------------|----|----|
| TCGA-XF-A9T2 | 575 | 1 | 54 | Male | High | III | T3b | MX | N0 |
| TCGA-K4-A5RJ | 53 | 0 | 75 | Male | High | II | T2b | MX | N0 |
| TCGA-K4-A5RH | 276 | 0 | 69 | Male | High | III | T3a | MX | N0 |
| TCGA-4Z-AA7S | 1064 | 1 | 66 | Male | High | III | T4a | M0 | N0 |
| TCGA-GU-A42P | 332 | 1 | 72 | Male | High | IV | T3a | M0 | N1 |
| TCGA-BT-A20N | 795 | 1 | 72 | Male | High | III | T3a | MX | N0 |
| TCGA-G2-A3IB | 220 | 1 | 66 | Male | High | II | Unkn own | MX | NX |
| TCGA-XF-AAMY | 3011 | 0 | 78 | Male | High | III | T3b | MX | N0 |
| TCGA-XF-A9T8 | 418 | 1 | 64 | Male | High | III | T3b | MX | N0 |
| TCGA-FD-A3B4 | 477 | 0 | 55 | Female | High | III | T4a | MX | N0 |
| TCGA-BT-A42C | 873 | 0 | 64 | Male | High | II | Unkn own | M0 | N0 |
| TCGA-ZF-A9RF | 1949 | 0 | 74 | Male | High | II | T1 | M0 | NX |
| TCGA-BL-A5ZZ | 377 | 0 | 80 | Female | High | III | T4a | MX | N0 |

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|--------------|------|---|----|--------|------|-----|-----|----|--------|
| TCGA-4Z-AA7Y | 1494 | 0 | 60 | Male | High | II | T2a | M0 | N0 |
| TCGA-GV-A3QI | 322 | 0 | 47 | Male | High | III | T3b | MX | N0 |
| TCGA-E5-A4U1 | 1181 | 0 | 72 | Male | High | II | T2b | M0 | N0 |
| TCGA-DK-AA74 | 1708 | 0 | 75 | Male | High | III | T3 | M0 | N0 |
| TCGA-4Z-AA7W | 840 | 0 | 55 | Male | High | II | T2a | M0 | N0 |
| TCGA-CU-A5W6 | 56 | 1 | 70 | Male | High | III | T4a | M0 | N0 |
| TCGA-FD-A5BU | 476 | 0 | 76 | Female | High | II | T2b | MX | N0 |
| TCGA-K4-AAQO | 359 | 0 | 56 | Male | High | III | T3a | MX | N0 |
| TCGA-4Z-AA89 | 1029 | 0 | 60 | Male | High | IV | T4b | M0 | N0 |
| TCGA-UY-A78M | 690 | 1 | 81 | Female | High | IV | T2 | MX | N2 |
| TCGA-DK-A2I2 | 237 | 1 | 63 | Female | High | IV | T3 | M0 | N3 |
| TCGA-XF-A9ST | 128 | 1 | 68 | Male | High | III | T3b | MX | N0 |
| TCGA-4Z-AA81 | 1270 | 1 | 80 | Male | High | II | T2b | M0 | N0 |
| TCGA-YC-A9TC | 20 | 1 | 71 | Male | High | IV | Unk | M1 | unknow |

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| TCGA-KQ- A41N | 1604 | 0 | 73 | Male | High | III | T3b | M0 | N0 |
| TCGA-E5- A2PC | 1326 | 0 | 61 | Female | High | IV | T2b | MX | N1 |
| TCGA-DK- A1A3 | 665 | 1 | 60 | Male | High | IV | T3 | M0 | N2 |
| TCGA-XF- A8HG | 467 | 1 | 69 | Male | High | III | T3b | MX | N0 |
| TCGA-FD- A3SL | 683 | 0 | 60 | Male | High | IV | T4a | M1 | N2 |
| TCGA-G2- A2EJ | 931 | 0 | 56 | Female | High | II | Unk now n | M0 | N0 |
| TCGA-FD- A3SO | 168 | 1 | 68 | Male | High | IV | T3a | MX | N1 |
| TCGA-FD- A62P | 191 | 1 | 76 | Male | High | II | T2b | MX | N0 |
| TCGA-FD- A43X | 110 | 0 | 84 | Male | High | II | T2a | MX | N0 |
| TCGA-DK- A6B6 | 933 | 0 | 57 | Male | High | II | Unk now n | MX | NX |
| TCGA-ZF- A9R7 | 665 | 0 | 76 | Female | High | II | Unk now n | M0 | NX |

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|--------------|-------------|---|----|--------|------|----|-----------------|----|----|
| TCGA-XF-A8HI | 544 | 1 | 57 | Female | High | IV | T2b | MX | N2 |
| TCGA-BT-A20X | 251 | 1 | 56 | Male | High | IV | T4a | M0 | N2 |
| TCGA-GV-A3QG | Unkno wn | 1 | 65 | Male | High | IV | T3a | MX | N3 |
| TCGA-G2-A2ES | 1004 | 1 | 85 | Male | High | II | T3b | M0 | N0 |
| TCGA-GC-A3BM | 651 | 1 | 70 | Male | High | II | T2b | M0 | N0 |
| TCGA-DK-AA6W | 415 | 1 | 78 | Male | High | II | T2 | M0 | N0 |
| TCGA-E7-A5KE | 17 | 0 | 78 | Female | High | II | T2a | M0 | N0 |
| TCGA-UY-A78L | 1127 | 0 | 62 | Male | High | IV | Unk now n | MX | N1 |
| TCGA-E7-A97P | 437 | 1 | 73 | Male | High | II | T2 | M0 | NX |
| TCGA-XF-A9SH | 1971 | 1 | 65 | Female | High | II | T2b | M0 | N0 |
| TCGA-FT-A61P | 337 | 0 | 76 | Male | High | IV | T3b | MX | N2 |
| TCGA-CU-A0YR | 460 | 1 | 83 | Male | High | IV | T2 | M0 | N2 |
| TCGA-DK-AA77 | 618 | 0 | 61 | Male | High | II | T2a | M0 | N0 |

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|--------------|------|---|----|--------|------|-----|-----------------|----|----|
| TCGA-CF-A9FH | -64 | 0 | 85 | Male | Low | II | T2 | M0 | N0 |
| TCGA-E7-A5KF | 20 | 0 | 67 | Male | Low | II | T2a | M0 | N0 |
| TCGA-DK-A2I6 | 2656 | 0 | 81 | Male | High | IV | T2b | M0 | N1 |
| TCGA-CF-A5UA | 365 | 0 | 67 | Male | Low | II | T2 | M0 | N0 |
| TCGA-DK-AA6X | 467 | 0 | 63 | Male | High | II | Unk now n | M0 | N0 |
| TCGA-GU-A762 | 232 | 1 | 87 | Male | High | IV | T4a | MX | N2 |
| TCGA-E7-A541 | 529 | 0 | 66 | Male | High | II | T2b | MX | N0 |
| TCGA-BT-A2LB | 492 | 1 | 73 | Female | High | III | T3a | M0 | N0 |
| TCGA-XF-A9T6 | 64 | 0 | 88 | Female | High | III | T3b | MX | N0 |
| TCGA-DK-A3IV | 294 | 1 | 60 | Male | High | II | Unk now n | M0 | NX |
| TCGA-GD-A3OP | 64 | 0 | 84 | Female | High | IV | T4a | MX | N2 |
| TCGA-C4-A0F7 | 62 | 1 | 77 | Male | High | IV | T4b | M0 | N2 |
| TCGA-FD-A3B5 | 272 | 1 | 86 | Male | High | IV | T2b | MX | N1 |

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|--------------|------|---|----|--------|------|-----|-----------------|----|----|
| TCGA-FD-A3SJ | 739 | 1 | 59 | Male | High | IV | T2b | MX | N2 |
| TCGA-FD-A3SQ | 1423 | 1 | 62 | Male | High | IV | T3a | MX | N2 |
| TCGA-FD-A43U | 454 | 0 | 70 | Male | High | IV | T4a | MX | N2 |
| TCGA-GV-A40E | 261 | 1 | 75 | Male | High | II | Unk now n | MX | NX |
| TCGA-KQ-A41P | 1094 | 0 | 76 | Male | High | IV | T3b | M1 | N3 |
| TCGA-XF-AAN1 | 941 | 1 | 75 | Female | High | III | T4a | M0 | N0 |
| TCGA-XF-A8HH | 57 | 1 | 61 | Female | High | IV | T3b | M0 | N2 |
| TCGA-XF-A8HC | 200 | 1 | 79 | Male | High | IV | T3a | MX | N2 |
| TCGA-C4-A0EZ | 273 | 1 | 69 | Female | High | IV | T3a | M1 | N1 |
| TCGA-ZF-AA56 | 259 | 1 | 79 | Female | High | III | T4a | MX | N0 |
| TCGA-UY-A78N | 2641 | 1 | 80 | Male | High | IV | T2 | MX | N1 |
| TCGA-PQ-A6FI | 372 | 0 | 70 | Male | High | II | T2a | MX | N0 |
| TCGA-CU-A0YN | 393 | 1 | 60 | Male | High | III | T3a | M0 | N0 |

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|--------------|------|---|----|--------|------|-----|-----|----|----|
| TCGA-GD-A2C5 | 812 | 0 | 53 | Female | High | IV | T3a | MX | N2 |
| TCGA-E5-A4TZ | 467 | 1 | 64 | Male | High | IV | T4b | MX | N2 |
| TCGA-XF-A8HF | 2954 | 1 | 80 | Male | High | III | T3a | M0 | N0 |
| TCGA-GU-AATQ | 213 | 1 | 68 | Male | High | III | T3b | MX | N0 |
| TCGA-DK-A3WX | 321 | 1 | 67 | Female | High | III | T3 | M0 | N0 |
| TCGA-G2-AA3F | 893 | 0 | 77 | Male | High | IV | T3 | M0 | N1 |
| TCGA-XF-AAMR | 2790 | 0 | 48 | Male | High | III | T3b | MX | N0 |
| TCGA-BT-A3PJ | 390 | 0 | 76 | Male | High | III | T3b | M0 | N0 |
| TCGA-XF-AAMH | 344 | 1 | 80 | Male | High | IV | T3b | MX | N1 |
| TCGA-XF-AAMT | 90 | 1 | 75 | Female | High | IV | T3b | MX | N2 |
| TCGA-CF-A47T | 205 | 0 | 58 | Female | Low | II | T2 | M0 | N0 |
| TCGA-XF-A9SP | 454 | 1 | 59 | Male | High | III | T3b | MX | N0 |
| TCGA-ZF-AA58 | 1649 | 0 | 61 | Female | High | IV | T3a | MX | N2 |
| TCGA-CF-A7I0 | 368 | 0 | 54 | Male | Low | II | T2 | M0 | N0 |

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|--------------|------|---|----|--------|------|-----|-----------------|-----------------|------------|
| TCGA-CF-A47V | 379 | 0 | 52 | Male | High | II | T2 | M0 | N0 |
| TCGA-XF-A9T0 | 799 | 0 | 68 | Male | High | III | T3b | MX | N0 |
| TCGA-G2-A3VY | 536 | 0 | 66 | Male | High | II | Unk now n | Unk now n | unkn ow |
| TCGA-BT-A20U | 455 | 1 | 70 | Female | High | III | T3a | M0 | N0 |
| TCGA-XF-AAN5 | 2293 | 0 | 61 | Female | High | III | T3b | MX | N0 |
| TCGA-E7-A4IJ | 408 | 0 | 56 | Male | High | II | T2b | M0 | NX |
| TCGA-ZF-AA4W | 1830 | 0 | 56 | Male | High | III | T3b | MX | N0 |
| TCGA-YC-A8S6 | 293 | 0 | 71 | Male | High | II | T2a | MX | N0 |
| TCGA-FD-A6TA | 1912 | 0 | 58 | Male | High | IV | T3b | MX | N2 |
| TCGA-UY-A8OD | 3432 | 0 | 68 | Female | High | II | T2b | MX | N0 |
| TCGA-GC-A3RC | 484 | 0 | 59 | Male | High | II | T2b | M0 | N0 |
| TCGA-4Z-AA83 | 1943 | 0 | 52 | Male | High | II | T2a | M0 | N0 |
| TCGA-4Z-AA7Q | 510 | 1 | 79 | Male | High | III | T3a | M0 | NX |

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|--------------|------|---|----|--------|------|-----|---------|----|----|
| TCGA-BT-A2LA | 522 | 0 | 54 | Male | High | III | T3a | M0 | N0 |
| TCGA-GV-A3QH | 258 | 1 | 67 | Male | High | II | Unknown | MX | NX |
| TCGA-DK-AA6S | 5050 | 0 | 60 | Male | High | III | T3b | M0 | N0 |
| TCGA-SY-A9G5 | 960 | 0 | 66 | Male | High | III | T4a | M0 | N0 |
| TCGA-FD-A43S | 455 | 0 | 71 | Female | High | III | T3b | MX | N0 |
| TCGA-BT-A2LD | 623 | 1 | 78 | Female | High | IV | T3a | M0 | N1 |
| TCGA-GD-A3OS | 638 | 0 | 54 | Female | High | II | Unknown | MX | NX |
| TCGA-DK-AA71 | 415 | 0 | 71 | Male | High | II | T2b | M0 | N0 |
| TCGA-XF-AAMF | 329 | 1 | 68 | Male | High | IV | T4 | MX | N2 |
| TCGA-LC-A66R | 466 | 0 | 78 | Male | High | IV | T4a | MX | N2 |
| TCGA-2F-A9KR | 3148 | 0 | 59 | Female | High | III | T3a | M0 | N0 |
| TCGA-CF-A27C | 425 | 0 | 52 | Male | High | III | T3 | M0 | N0 |
| TCGA-FD-A3SP | 401 | 0 | 60 | Male | High | III | T3b | MX | N0 |

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|--------------|------|---|----|--------|------|-----|-----|----|----|
| TCGA-FD-A3SR | 602 | 1 | 68 | Male | High | IV | T4a | MX | N2 |
| TCGA-DK-AA6Q | 413 | 1 | 61 | Female | High | IV | T3 | M0 | N1 |
| TCGA-BL-A13I | 223 | 1 | 57 | Female | High | III | T3 | M0 | N0 |
| TCGA-BT-A42E | 738 | 0 | 74 | Male | High | III | T3a | M0 | N0 |
| TCGA-E7-A519 | 508 | 0 | 72 | Male | High | II | T2b | M0 | NX |
| TCGA-4Z-AA7O | 399 | 0 | 64 | Male | High | II | T2a | M0 | N0 |
| TCGA-XF-AAN7 | 565 | 1 | 60 | Male | High | IV | T3a | MX | N1 |
| TCGA-4Z-AA87 | 1454 | 0 | 72 | Male | High | III | T4a | M0 | N0 |
| TCGA-DK-A1A6 | 2020 | 0 | 53 | Male | High | IV | T2a | M0 | N1 |
| TCGA-XF-A9SW | 362 | 1 | 85 | Male | High | IV | T3b | MX | N2 |
| TCGA-FD-A6TI | 294 | 1 | 73 | Male | High | IV | T4b | MX | N1 |
| TCGA-GC-A6I1 | 0 | 0 | 90 | Female | High | II | T2b | MX | N0 |
| TCGA-DK-A1AA | 578 | 0 | 57 | Male | High | III | T3 | M0 | N0 |
| TCGA-BT-A20P | 544 | 1 | 81 | Female | High | III | T3a | M0 | N0 |

| | | | | | | | | | |
|--------------|------|---|----|--------|------|----|-----|----|----|
| TCGA-XF-AAML | 232 | 1 | 75 | Male | High | II | T2b | MX | N0 |
| TCGA-G2-AA3D | 1960 | 0 | 60 | Male | High | IV | T3 | M0 | N2 |
| TCGA-K4-A3WV | 646 | 0 | 77 | Female | High | II | T2b | MX | N0 |
| TCGA-4Z-AA84 | 460 | 0 | 61 | Male | High | IV | T3a | M1 | N2 |
| TCGA-ZF-A9R3 | 949 | 1 | 53 | Female | High | II | T2 | M0 | NX |
| TCGA-DK-A1AB | 508 | 1 | 74 | Female | High | IV | T4a | M0 | N2 |
| TCGA-XF-A8HB | 1370 | 0 | 50 | Female | High | II | T2b | MX | N0 |
| TCGA-K4-A4AC | 278 | 1 | 83 | Male | High | II | T2b | MX | N0 |
| TCGA-DK-A3IS | 1529 | 0 | 68 | Male | High | II | T2a | M0 | N0 |
| TCGA-CF-A5U8 | 399 | 0 | 59 | Male | Low | II | T2 | M0 | N0 |
| TCGA-UY-A9PF | 117 | 0 | 77 | Male | High | IV | T3a | MX | N2 |
| TCGA-BT-A3PK | 303 | 1 | 80 | Male | High | II | T2b | MX | N0 |
| TCGA-KQ-A41R | 1350 | 0 | 80 | Female | High | II | T2 | MX | N0 |
| TCGA-XF-A9SG | 1479 | 0 | 81 | Male | High | II | T2a | MX | N0 |

| | | | | | | | | | |
|--------------|------|---|----|--------|------|-----|-----|------------|----|
| TCGA-FD-A43N | 699 | 0 | 76 | Male | High | III | T3a | MX | N0 |
| TCGA-GV-A40G | 428 | 0 | 77 | Male | High | II | T2a | MX | N0 |
| TCGA-ZF-A9RM | 1455 | 0 | 70 | Male | High | II | T0 | MX | N0 |
| TCGA-BT-A42F | 864 | 0 | 64 | Male | High | IV | T4a | MX | N1 |
| TCGA-4Z-AA86 | 311 | 1 | 66 | Male | High | IV | T3a | M0 | N1 |
| TCGA-ZF-A9R0 | 680 | 1 | 82 | Male | High | III | T3b | M0 | NX |
| TCGA-C4-A0F6 | 700 | 0 | 82 | Female | High | III | T3b | M0 | N0 |
| TCGA-XF-A9SX | 719 | 1 | 63 | Female | High | IV | T3b | MX | N2 |
| TCGA-XF-AAMW | 253 | 1 | 79 | Female | High | IV | T2b | unkn ow | N0 |
| TCGA-GU-A764 | 610 | 0 | 66 | Male | High | II | T2b | MX | N0 |
| TCGA-DK-AA6R | 5041 | 0 | 68 | Male | High | IV | T4 | M0 | N1 |
| TCGA-CF-A47S | 333 | 0 | 41 | Male | Low | II | T2 | M0 | N0 |
| TCGA-4Z-AA80 | 19 | 1 | 73 | Male | High | II | T2a | M0 | N0 |
| TCGA-ZF-AA5H | 897 | 0 | 60 | Female | High | IV | T3b | M0 | N2 |

| | | | | | | | | | |
|--------------|------|---|----|--------|------|-----|-------------|----|----|
| TCGA-GU-A766 | 480 | 0 | 62 | Male | High | II | T2a | MX | N0 |
| TCGA-XF-A9T5 | 2027 | 0 | 78 | Female | High | IV | T3a | MX | N1 |
| TCGA-DK-A1AE | 491 | 0 | 84 | Male | High | III | T3 | M0 | N0 |
| TCGA-ZF-A9RD | 408 | 1 | 75 | Female | High | IV | T3a | MX | N2 |
| TCGA-ZF-AA52 | 1077 | 1 | 70 | Male | High | III | T3a | MX | NX |
| TCGA-HQ-A5NE | 370 | 1 | 57 | Male | High | III | T3 | M0 | N0 |
| TCGA-CF-A9FF | 361 | 0 | 52 | Male | High | II | T2 | M0 | N0 |
| TCGA-UY-A78P | 2380 | 0 | 78 | Female | High | II | T2 | MX | N0 |
| TCGA-DK-A6B2 | 477 | 0 | 70 | Male | High | IV | T3 | M0 | N1 |
| TCGA-G2-AA3B | 2008 | 0 | 75 | Female | High | II | T2 | M0 | N0 |
| TCGA-XF-A9T4 | 495 | 1 | 48 | Male | High | IV | T2b | MX | N1 |
| TCGA-BT-A20W | 254 | 1 | 71 | Male | High | II | T2b | M0 | N0 |
| TCGA-G2-A2EC | 696 | 1 | 58 | Female | High | II | Unkn own | M0 | N0 |

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|--------------|------|---|----|------|------|-----|---------|----|---------|
| TCGA-GU-A763 | 824 | 0 | 72 | Male | High | III | T4 | M0 | N0 |
| TCGA-DK-A1AC | 3981 | 0 | 72 | Male | High | III | T3b | M0 | N0 |
| TCGA-CF-A3MG | 369 | 0 | 48 | Male | Low | II | T2 | M0 | N0 |
| TCGA-ZF-A9RL | 2703 | 0 | 61 | Male | High | II | Unknown | MX | unknown |
| TCGA-BT-A42B | 534 | 1 | 59 | Male | High | IV | T3a | MX | N1 |
| TCGA-G2-A2EL | 819 | 1 | 77 | Male | High | II | Unknown | M0 | N0 |
| TCGA-FJ-A871 | 272 | 1 | 49 | Male | High | III | T3b | MX | NX |
| TCGA-XF-AAMG | 3364 | 0 | 49 | Male | High | III | T4a | MX | N0 |
| TCGA-GC-A3I6 | 630 | 1 | 45 | Male | High | III | T3a | M0 | N0 |
| TCGA-DK-A2I4 | 3835 | 0 | 79 | Male | High | III | T3b | M0 | N0 |
| TCGA-UY-A8OC | 0 | 1 | 90 | Male | High | IV | T4 | MX | N1 |
| TCGA-BT-A20O | 370 | 1 | 75 | Male | High | III | T3a | MX | N0 |
| TCGA-DK-A6AW | 1264 | 0 | 70 | Male | High | II | T2a | M0 | N0 |

| | | | | | | | | | |
|--------------|------|---|----|--------|------|-----|-----------------|----|----|
| TCGA-BT-A20R | 154 | 1 | 79 | Female | High | IV | T3b | M0 | N1 |
| TCGA-BT-A0S7 | 200 | 1 | 75 | Male | High | III | T4a | MX | N0 |
| TCGA-CF-A3MI | 370 | 0 | 62 | Male | Low | II | T2 | M0 | N0 |
| TCGA-FJ-A3ZE | 324 | 1 | 65 | Male | High | IV | Unk now n | M1 | N3 |
| TCGA-GD-A6C6 | 67 | 0 | 64 | Male | High | III | T3a | MX | N0 |
| TCGA-FD-A6TG | 93 | 1 | 73 | Male | High | IV | T3a | MX | N2 |
| TCGA-DK-A3IM | 238 | 0 | 76 | Male | High | III | T3 | M0 | N0 |
| TCGA-KQ-A41S | 35 | 0 | 87 | Female | High | III | T4a | MX | NX |
| TCGA-XF-AAN4 | 823 | 1 | 77 | Female | High | III | T3b | MX | N0 |
| TCGA-ZF-AA53 | 1761 | 0 | 60 | Male | High | II | T2 | M0 | NX |
| TCGA-GU-A767 | 144 | 1 | 81 | Male | High | IV | T3b | MX | N2 |
| TCGA-E7-A7DU | 28 | 0 | 73 | Male | Low | III | T3 | M0 | N0 |
| TCGA-ZF-AA51 | 1714 | 0 | 69 | Female | High | II | T2 | M0 | NX |

| | | | | | | | | | |
|--------------|------|---|----|--------|------|-----|-----------------|----|----|
| TCGA-FD-A6TF | 69 | 1 | 80 | Female | High | IV | T3b | M1 | N2 |
| TCGA-FD-A43P | 454 | 0 | 74 | Male | High | II | T2a | MX | N0 |
| TCGA-GC-A3WC | 540 | 0 | 80 | Female | High | III | T3 | MX | N0 |
| TCGA-FD-A3NA | 1338 | 0 | 60 | Male | High | II | T2b | MX | N0 |
| TCGA-DK-A6B1 | 2049 | 0 | 67 | Male | High | II | T2a | M0 | N0 |
| TCGA-ZF-A9RN | 615 | 1 | 67 | Female | High | III | T3b | M0 | NX |
| TCGA-ZF-AA4T | 599 | 1 | 65 | Male | High | IV | T4 | MX | N2 |
| TCGA-DK-AA76 | 366 | 0 | 64 | Female | High | II | Unk now n | M0 | N0 |
| TCGA-GC-A4ZW | 15 | 0 | 71 | Male | High | III | T3a | M0 | N0 |
| TCGA-ZF-A9R5 | 1090 | 0 | 59 | Male | High | III | T3 | M0 | N0 |
| TCGA-GU-A42R | 344 | 0 | 68 | Male | High | IV | T4a | MX | N2 |
| TCGA-BL-A13J | 81 | 1 | 65 | Male | High | IV | T4 | M0 | N2 |
| TCGA-DK-AA6L | 1163 | 1 | 48 | Male | High | IV | T3 | MX | N1 |

| | | | | | | | | | |
|--------------|------|---|----|--------|------|-----|---------|----|----|
| TCGA-DK-A1AD | 3420 | 0 | 69 | Male | High | IV | T3b | M0 | N2 |
| TCGA-4Z-AA82 | 1556 | 1 | 59 | Male | High | IV | T2a | M0 | N1 |
| TCGA-G2-A3IE | 612 | 1 | 51 | Male | High | II | Unknown | MX | NX |
| TCGA-DK-AA6P | 457 | 0 | 72 | Female | High | II | Unknown | M0 | N0 |
| TCGA-G2-A2EF | 1884 | 0 | 50 | Male | High | II | Unknown | M0 | N0 |
| TCGA-XF-A8HE | 3817 | 0 | 47 | Male | High | III | T3b | MX | N0 |
| TCGA-XF-A9SL | 2020 | 1 | 69 | Male | High | IV | T3a | MX | N2 |
| TCGA-XF-A9SZ | 859 | 1 | 79 | Male | High | IV | T3b | MX | N2 |
| TCGA-YF-AA3L | 364 | 0 | 47 | Female | High | II | T2b | MX | N0 |
| TCGA-S5-AA26 | 503 | 0 | 46 | Male | High | III | T3a | MX | N0 |
| TCGA-C4-A0F0 | 59 | 0 | 60 | Male | High | II | T2b | M0 | N0 |
| TCGA-DK-A3IT | 459 | 0 | 62 | Male | High | III | T3 | M0 | N0 |

| | | | | | | | | | |
|--------------|------|---|----|--------|------|-----|-----|----|----|
| TCGA-ZF-AA54 | 590 | 1 | 71 | Male | High | III | T3 | MX | NX |
| TCGA-E7-A97Q | 246 | 1 | 60 | Female | High | IV | T4a | MX | N3 |
| TCGA-HQ-A5ND | 274 | 1 | 78 | Male | High | IV | T3b | M0 | N1 |
| TCGA-CF-A9FL | 565 | 1 | 85 | Male | High | III | T3b | M0 | N0 |
| TCGA-G2-AA3C | 211 | 1 | 66 | Male | High | IV | T3b | M0 | N1 |
| TCGA-FD-A6TC | 187 | 0 | 79 | Female | High | III | T4a | MX | N0 |
| TCGA-FD-A6TK | 330 | 0 | 60 | Male | High | III | T3a | MX | N0 |
| TCGA-XF-A8HD | 2964 | 0 | 77 | Male | High | III | T3a | MX | N0 |
| TCGA-DK-A3X2 | 547 | 1 | 85 | Male | High | IV | T3 | M0 | N2 |
| TCGA-GC-A6I3 | 0 | 0 | 90 | Female | High | IV | T3a | MX | N1 |
| TCGA-FD-A3N5 | 363 | 0 | 69 | Male | High | II | T2b | MX | N0 |
| TCGA-XF-A9SI | 2423 | 0 | 73 | Female | High | II | T2b | MX | N0 |
| TCGA-FT-A3EE | 99 | 1 | 80 | Female | High | III | T4a | MX | N0 |
| TCGA-CU-A3YL | 496 | 0 | 67 | Male | High | III | T4a | M0 | N0 |

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|--------------|------|---|----|--------|---------|-----|---------|----|----|
| TCGA-UY-A8OB | 2109 | 0 | 63 | Male | High | IV | T3a | MX | N1 |
| TCGA-5N-A9KM | 530 | 1 | 73 | Female | High | III | T4a | MX | N0 |
| TCGA-2F-A9KT | 2352 | 0 | 83 | Male | High | II | T2b | M0 | N0 |
| TCGA-FD-A5BV | 163 | 1 | 47 | Female | High | III | T3b | MX | N0 |
| TCGA-GC-A3RB | 582 | 0 | 54 | Male | High | III | T3b | M0 | N0 |
| TCGA-DK-A2I1 | 546 | 0 | 73 | Female | High | II | T2b | M0 | N0 |
| TCGA-FD-A3B7 | 122 | 1 | 66 | Male | High | III | T3a | MX | N0 |
| TCGA-FD-A62N | 82 | 0 | 69 | Male | High | III | T3b | MX | N0 |
| TCGA-E7-A3Y1 | 163 | 0 | 57 | Male | Low | II | Unknown | M0 | N0 |
| TCGA-DK-A3X1 | 1460 | 0 | 78 | Female | High | III | T3 | M0 | N0 |
| TCGA-KQ-A41Q | 361 | 0 | 89 | Male | High | III | T3b | MX | N0 |
| TCGA-E7-A4XJ | 68 | 1 | 66 | Male | High | II | T2 | M0 | N0 |
| TCGA-K4-A83P | 495 | 0 | 77 | Male | Unknown | IV | T4a | MX | N1 |

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|--------------|------|---|----|--------|------|-----|---------|----|---------|
| TCGA-K4-A5RI | 356 | 1 | 67 | Female | High | III | T3a | MX | N0 |
| TCGA-DK-A1AG | 475 | 0 | 65 | Male | High | III | T3 | M0 | N0 |
| TCGA-ZF-AA4X | 2044 | 0 | 56 | Male | High | II | T2 | M0 | NX |
| TCGA-2F-A9KO | 678 | 0 | 63 | Male | High | IV | T3 | M0 | N1 |
| TCGA-GU-A42Q | 344 | 1 | 67 | Male | High | III | T3b | M0 | N0 |
| TCGA-YC-A89H | 573 | 0 | 78 | Female | High | II | Unknown | MX | unknown |
| TCGA-K4-A3WS | 761 | 0 | 66 | Male | High | III | T3a | MX | N0 |
| TCGA-GC-A3OO | 481 | 0 | 79 | Male | High | II | T2b | M0 | N0 |
| TCGA-XF-A9SY | 640 | 0 | 60 | Female | High | IV | T3b | MX | N2 |
| TCGA-CF-A3MF | 383 | 0 | 34 | Male | Low | III | T3 | M0 | N0 |
| TCGA-FD-A6TH | 131 | 1 | 63 | Male | High | IV | T3 | MX | N2 |
| TCGA-DK-A6B0 | 2330 | 0 | 61 | Male | High | II | T2b | M0 | N0 |
| TCGA-LT-A8JT | 641 | 0 | 69 | Female | High | II | T2a | M0 | N0 |

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|--------------|------|---|----|--------|------|-----|-----|----|----|
| TCGA-XF-AAN8 | 118 | 1 | 74 | Female | High | III | T3b | MX | N0 |
| TCGA-XF-A9T3 | 68 | 0 | 69 | Female | High | IV | T3b | MX | N2 |
| TCGA-DK-A3IU | 609 | 0 | 58 | Male | High | II | T2b | M0 | N0 |
| TCGA-ZF-AA4V | 1806 | 0 | 66 | Male | High | III | T3b | M0 | N0 |
| TCGA-XF-AAMZ | 1348 | 1 | 81 | Female | High | IV | T3a | MX | N2 |
| TCGA-E7-A8O8 | 13 | 0 | 59 | Male | High | II | T2 | M0 | N0 |
| TCGA-FD-A62O | 216 | 1 | 74 | Male | High | IV | T3a | MX | N2 |
| TCGA-XF-A9SV | 388 | 1 | 82 | Male | High | IV | T4a | M1 | N2 |
| TCGA-ZF-AA5P | 372 | 0 | 65 | Male | High | IV | T2b | M0 | N2 |
| TCGA-PQ-A6FN | 507 | 0 | 78 | Female | High | III | T3a | MX | N0 |
| TCGA-E7-A7PW | 416 | 0 | 63 | Male | High | III | T3a | M0 | NX |
| TCGA-E7-A678 | 425 | 0 | 55 | Male | Low | III | T3 | M0 | N0 |
| TCGA-2F-A9KW | 254 | 1 | 67 | Female | High | III | T3b | MX | N0 |
| TCGA-UY-A78O | 2312 | 0 | 75 | Female | High | II | T2 | MX | N0 |

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|--------------|------|---|----|--------|------|-------------|-----------------|----|----|
| TCGA-DK-A3IN | 250 | 1 | 72 | Male | High | III | T4a | M0 | N0 |
| TCGA-FD-A5C1 | 1603 | 0 | 61 | Female | High | III | T3b | MX | N0 |
| TCGA-XF-AAN0 | 1718 | 1 | 68 | Male | High | IV | T4a | M0 | N2 |
| TCGA-CF-A8HX | 345 | 0 | 55 | Female | High | II | T2 | M0 | N0 |
| TCGA-GD-A3OQ | 95 | 0 | 48 | Male | High | IV | T4a | MX | N1 |
| TCGA-FJ-A3Z9 | 385 | 1 | 72 | Male | High | Unkn own | TX | M0 | N0 |
| TCGA-GC-A3RD | 428 | 0 | 83 | Female | High | III | T3a | M0 | N0 |
| TCGA-ZF-AA4U | 262 | 1 | 70 | Male | High | III | T4a | MX | NX |
| TCGA-FJ-A3ZF | 524 | 0 | 73 | Male | High | III | Unk now n | M0 | N0 |
| TCGA-E7-A7DV | 37 | 0 | 44 | Male | High | IV | T4 | MX | N3 |
| TCGA-XF-AAME | 2828 | 1 | 64 | Female | High | II | T2b | MX | N0 |
| TCGA-CU-A0YO | 149 | 1 | 84 | Male | High | IV | T3a | MX | N2 |
| TCGA-G2-A2EK | 485 | 0 | 57 | Male | High | II | Unk now n | M0 | N0 |

| | | | | | | | | | |
|--------------|------|---|----|--------|-------------|-------------|-----|----|----|
| TCGA-DK-A3IK | 67 | 0 | 87 | Male | High | IV | T3 | M0 | N2 |
| TCGA-UY-A9PH | 1561 | 0 | 73 | Male | High | II | T2b | MX | N0 |
| TCGA-E7-A8O7 | 466 | 0 | 52 | Male | Low | II | T2 | M0 | N0 |
| TCGA-CF-A3MH | 398 | 0 | 75 | Male | Low | II | T2 | M0 | N0 |
| TCGA-FD-A5BZ | 835 | 1 | 77 | Female | High | IV | T3a | MX | N1 |
| TCGA-FD-A3B3 | 392 | 0 | 74 | Female | High | III | T3 | MX | N0 |
| TCGA-GV-A3JZ | 603 | 0 | 55 | Male | High | IV | T4a | MX | N3 |
| TCGA-HQ-A2OE | 1174 | 0 | 69 | Male | Unkn own | Unkn own | T2a | MX | N2 |
| TCGA-BT-A0YX | 400 | 1 | 70 | Female | High | III | T3b | M0 | N0 |
| TCGA-XF-AAMJ | 1670 | 1 | 70 | Male | High | III | T3b | M0 | N0 |
| TCGA-CU-A3QU | 158 | 0 | 58 | Male | High | IV | T2b | M0 | N1 |
| TCGA-XF-A9SM | 1048 | 0 | 76 | Male | High | III | T3b | MX | N0 |
| TCGA-K4-A6FZ | 55 | 0 | 75 | Female | High | III | T3a | MX | N0 |
| TCGA-BT-A20T | 453 | 1 | 63 | Male | High | IV | T3b | M0 | N1 |

| | | | | | | | | | |
|--------------|------|---|----|--------|------|-----|-----|----|----|
| TCGA-ZF-A9R1 | 773 | 0 | 81 | Male | High | IV | T3b | M0 | N1 |
| TCGA-DK-A3WY | 4283 | 0 | 67 | Female | High | III | T3 | M0 | N0 |
| TCGA-2F-A9KP | 364 | 1 | 66 | Male | High | IV | T3a | MX | N2 |
| TCGA-K4-A6MB | 469 | 0 | 64 | Male | High | IV | T3b | MX | N1 |
| TCGA-DK-A6B5 | 1249 | 0 | 45 | Male | High | IV | T4a | M0 | N2 |
| TCGA-XF-AAN3 | 2625 | 0 | 76 | Male | High | IV | T3b | MX | N2 |
| TCGA-FD-A3B8 | 378 | 0 | 56 | Male | High | II | T2b | MX | N0 |
| TCGA-BT-A20J | 579 | 1 | 75 | Male | High | II | T2b | MX | N0 |
| TCGA-FD-A6TD | 386 | 1 | 77 | Male | High | III | T3a | MX | N0 |
| TCGA-H4-A2HO | 46 | 0 | 53 | Male | High | III | T4a | MX | N0 |
| TCGA-GV-A3JV | 434 | 1 | 66 | Male | High | IV | T3b | MX | N1 |
| TCGA-UY-A9PE | 189 | 0 | 86 | Male | High | IV | T2b | MX | N2 |
| TCGA-FD-A3N6 | 483 | 0 | 43 | Female | High | II | T2b | MX | N0 |
| TCGA-GD-A76B | 224 | 0 | 86 | Female | High | II | T2b | MX | N0 |

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|------------------|-----|---|----|------|------|-----|----|----|----|
| TCGA-DK- AA75 | 340 | 1 | 82 | Male | High | III | T3 | M0 | N0 |
|------------------|-----|---|----|------|------|-----|----|----|----|

T, tumour stage; N, node stage; M, metastasis stage; Futime, overall survival time; Fustat, survival status (0 = survival, 1 = death).

Table SII. Angiogenesis-associated genes.

| Original member | NCBI (Entrez) gene ID | Gene symbol | Gene name |
|-----------------|-----------------------|-------------|---|
| ACVRL1 | 94 | ACVRL1 | Activin A receptor-like type 1 |
| AGGF1 | 55109 | AGGF1 | Angiogenic factor with G-patch and FHA |
| AMOT | 154796 | AMOT | Angiomotin |
| ANG | 283 | ANG | Angiogenin |
| ANGPTL3 | 27329 | ANGPTL3 | Angiopoietin-like 3 |
| ANGPTL4 | 51129 | ANGPTL4 | Angiopoietin-like 4 |
| ATPIF1 | 93974 | ATP5IF1 | ATP synthase inhibitory factor subunit 1 |
| BTG1 | 694 | BTG1 | BTG anti-proliferation factor 1 |
| C1GALT1 | 56913 | C1GALT1 | Core 1 synthase, glycoprotein-N-acetylgl |
| CANX | 821 | CANX | Calnexin |
| CDH13 | 1012 | CDH13 | Cadherin 13 |
| CHRNA7 | 1139 | CHRNA7 | Cholinergic receptor nicotinic $\alpha 7$ |
| COL4A2 | 1284 | COL4A2 | Collagen type IV $\alpha 2$ chain |
| COL4A3 | 1285 | COL4A3 | Collagen type IV $\alpha 3$ chain |
| EGF | 1950 | EGF | Epidermal growth factor |

| | | | |
|---------|--------|---------|---|
| EMCN | 51705 | EMCN | Endomucin |
| EPGN | 255324 | EPGN | Epithelial mitogen |
| ERAP1 | 51752 | ERAP1 | Endoplasmic reticulum aminopeptidase 1 |
| FOXO4 | 4303 | FOXO4 | Forkhead box O4 |
| HTATIP2 | 10553 | HTATIP2 | HIV-1 Tat interactive protein 2 |
| IL17F | 112744 | IL17F | Interleukin 17F |
| IL18 | 3606 | IL18 | Interleukin 18 |
| IL8 | 3576 | CXCL8 | C-X-C motif chemokine ligand 8 |
| MYH9 | 4627 | MYH9 | Myosin heavy chain 9 |
| NCL | 4691 | NCL | Nucleolin |
| NF1 | 4763 | NF1 | Neurofibromin 1 |
| NOTCH4 | 4855 | NOTCH4 | Notch receptor 4 |
| NPPB | 4879 | NPPB | Natriuretic peptide B |
| NPR1 | 4881 | NPR1 | Natriuretic peptide receptor 1 |
| PF4 | 5196 | PF4 | Platelet factor 4 |
| PLG | 5340 | PLG | Plasminogen |
| PML | 5371 | PML | PML nuclear body scaffold |
| PROK2 | 60675 | PROK2 | Prokineticin 2 |
| RHOB | 388 | RHOB | Ras homolog family member B |

| | | | |
|----------|-------|----------|---|
| RNH1 | 6050 | RNH1 | Ribonuclease/angiogenin inhibitor 1 |
| ROBO4 | 54538 | ROBO4 | Roundabout guidance receptor 4 |
| RUNX1 | 861 | RUNX1 | RUNX family transcription factor 1 |
| SCG2 | 7857 | SCG2 | Secretogranin II |
| SERPINF1 | 5176 | SERPINF1 | Serpin family F member 1 |
| SHH | 6469 | SHH | Sonic hedgehog signaling molecule |
| SPHK1 | 8877 | SPHK1 | Sphingosine kinase 1 |
| SPINK5 | 11005 | SPINK5 | Serine peptidase inhibitor Kazal type 5 |
| STAB1 | 23166 | STAB1 | Stabilin 1 |
| TGFB2 | 7042 | TGFB2 | Transforming growth factor β 2 |
| THY1 | 7070 | THY1 | Thy-1 cell surface antigen |
| TNFSF12 | 8742 | TNFSF12 | TNF superfamily member 12 |
| TNNI3 | 7137 | TNNI3 | Troponin I3, cardiac type |
| VEGFA | 7422 | VEGFA | Vascular endothelial growth factor A |

Table SIII. Angiogenesis related lncRNAs

| lncRNAs | R² -values |
|----------------|-------------------------------|
| AL355472.1 | 0.52850 |
| AC005046.1 | 0.51869 |
| AC020915.2 | 0.58117 |
| LINC01023 | 0.54102 |
| AC005104.1 | 0.57017 |
| AC134312.5 | 0.51152 |
| AC093620.1 | 0.53952 |
| LINC00649 | 0.58292 |
| BX322562.1 | 0.65640 |
| ALG13-AS1 | 0.57340 |
| AL021578.1 | 0.57647 |
| AC135050.5 | 0.54091 |
| AC004596.1 | 0.54898 |
| AC139887.1 | 0.57268 |
| AC005674.1 | 0.52384 |
| AL135818.2 | 0.65449 |
| AL035661.1 | 0.59551 |
| AL163051.1 | 0.56885 |
| LINC02195 | 0.50792 |
| AC012615.6 | 0.63513 |
| GAS5-AS1 | 0.54493 |
| AL132989.1 | 0.55782 |
| AC002398.1 | 0.55633 |
| AP000251.1 | 0.61936 |
| AL049840.1 | 0.62221 |
| MIR222HG | 0.55748 |
| LINC01614 | 0.55989 |
| OVOL1-AS1 | 0.73375 |
| AC092279.1 | 0.52907 |
| AC010503.4 | 0.50018 |
| GATA3-AS1 | 0.55092 |
| AC090739.1 | 0.73544 |
| AC099850.3 | 0.51745 |
| MCCC1-AS1 | 0.51995 |
| MUC20-OT1 | 0.58415 |
| AP001625.2 | 0.56904 |
| AC073611.1 | 0.58436 |
| EBLN3P | 0.54037 |

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|-------------|---------|
| AL513550.1 | 0.54150 |
| SNHG4 | 0.58988 |
| LINC02446 | 0.60900 |
| AC004771.3 | 0.54851 |
| AC107081.2 | 0.53093 |
| AC002553.1 | 0.54395 |
| G2E3-AS1 | 0.73567 |
| AC011461.1 | 0.62285 |
| FAM160A1-DT | 0.54616 |
| AC063948.1 | 0.65843 |
| AC096586.2 | 0.55666 |
| PGM5-AS1 | 0.59324 |
| AC015849.3 | 0.63885 |
| LINC01094 | 0.58661 |
| CYTOR | 0.54821 |
| MALAT1 | 0.59965 |
| MAP3K14-AS1 | 0.56524 |
| LINC00668 | 0.68045 |
| ALDH1L1-AS2 | 0.50414 |
| GABPB1-AS1 | 0.56239 |
| AL049840.3 | 0.56296 |
| AL136084.3 | 0.59264 |
| AL355353.1 | 0.53716 |
| AC139795.2 | 0.58673 |
| LINC02163 | 0.63686 |
| LINC02321 | 0.81984 |
| AC009690.2 | 0.51237 |
| AC093249.6 | 0.57854 |
| NARF-IT1 | 0.50260 |
| AL021707.8 | 0.60996 |
| ATP1B3-AS1 | 0.59655 |
| SCARNA9 | 0.57347 |
| AC127024.5 | 0.54180 |
| AC068831.6 | 0.54435 |
| SP2-AS1 | 0.60452 |
| RAB11B-AS1 | 0.72969 |
| AC090198.1 | 0.57570 |
| AC011477.2 | 0.58140 |
| POLH-AS1 | 0.83265 |
| AP002907.1 | 0.73624 |
| AC137767.1 | 0.57318 |

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|------------|---------|
| AL390729.1 | 0.53490 |
| AC147651.3 | 0.50059 |
| Z82243.1 | 0.59185 |
| LINC00852 | 0.56422 |
| AC022211.1 | 0.52960 |
| AC073957.3 | 0.55795 |
| PCAT19 | 0.50799 |
| AC068152.1 | 0.62196 |
| KDM4A-AS1 | 0.52422 |
| AC087481.3 | 0.57973 |
| AL139123.1 | 0.54670 |
| AL078581.1 | 0.59919 |
| AC007991.2 | 0.59126 |
| SNHG9 | 0.53626 |
| AL031665.2 | 0.59328 |
| AC097641.2 | 0.82839 |
| SOS1-IT1 | 0.83208 |
| AL049840.5 | 0.57650 |
| AC068768.1 | 0.51391 |
| AC026304.1 | 0.58161 |
| AC114489.1 | 0.50598 |
| YTHDF3-AS1 | 0.58848 |
| AC104695.3 | 0.59766 |
| AC006270.1 | 0.82152 |
| ZNF32-AS2 | 0.55569 |
| AP005899.1 | 0.57997 |
| NEAT1 | 0.60092 |
| SMIM25 | 0.52172 |
| HM13-IT1 | 0.58316 |
| LINC-PINT | 0.52566 |
| AL450326.1 | 0.57362 |
| MIRLET7BHG | 0.55672 |
| AC010463.3 | 0.56744 |
| AC008764.2 | 0.54025 |
| SPINT1-AS1 | 0.56458 |
| AC083843.2 | 0.56537 |
| AC018521.6 | 0.61905 |
| RMRP | 0.63709 |
| AP001434.1 | 0.73056 |
| AL441992.1 | 0.50917 |
| AC068338.3 | 0.58238 |

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|------------|---------|
| AC132807.2 | 0.56180 |
| AC026369.2 | 0.58459 |
| LINC02577 | 0.54502 |
| KMT2E-AS1 | 0.54199 |
| HIF1A-AS2 | 0.54053 |
| AC002128.1 | 0.54524 |
| AC008610.1 | 0.52876 |
| AL353622.1 | 0.51066 |
| DLEU1 | 0.54097 |
| AP003392.1 | 0.50141 |
| AL590723.1 | 0.73169 |
| AC092535.4 | 0.54108 |
| AC073569.2 | 0.70033 |
| AC007406.5 | 0.52561 |
| RPARP-AS1 | 0.53524 |
| AF117829.1 | 0.52552 |
| AC083880.1 | 0.73439 |
| AL591848.4 | 0.67584 |
| AC005253.1 | 0.56497 |
| LINC02081 | 0.50799 |
| AC005911.1 | 0.62762 |
| AC005291.2 | 0.82105 |
| AL683813.1 | 0.70786 |
| U62317.1 | 0.56861 |
| AC060780.1 | 0.63399 |
| AL359715.3 | 0.59761 |
| ITGB2-AS1 | 0.60572 |
| LINC01534 | 0.57543 |
| AP000240.1 | 0.50837 |
| SNHG19 | 0.68984 |
| AC090152.1 | 0.62987 |
| AC104083.1 | 0.54189 |
| AC012181.1 | 0.97557 |
| TMEM51-AS1 | 0.59082 |
| AC007566.1 | 0.59236 |
| LINC01355 | 0.52904 |
| AC112491.1 | 0.62394 |
| AC010531.6 | 0.53436 |
| USP30-AS1 | 0.62661 |
| AC010761.3 | 0.54066 |
| AC009065.4 | 0.55541 |

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|---------------|---------|
| AC091057.1 | 0.57421 |
| AL139407.1 | 0.53998 |
| AC145423.3 | 0.73598 |
| AC011477.3 | 0.50871 |
| AL353804.1 | 0.54761 |
| AL512598.1 | 0.55586 |
| PSMB8-AS1 | 0.54402 |
| AC005180.1 | 0.55019 |
| AC006329.1 | 0.57066 |
| AC090425.1 | 0.54573 |
| AC007128.1 | 0.52935 |
| AC005180.2 | 0.56478 |
| AC253536.3 | 0.61588 |
| C1RL-AS1 | 0.82081 |
| LINC01876 | 0.66379 |
| AC253536.6 | 0.53924 |
| LINC01943 | 0.59421 |
| AC024075.3 | 0.60287 |
| AL157838.1 | 0.72072 |
| AC021078.1 | 0.50009 |
| GARS-DT | 0.66253 |
| CH17-340M24.3 | 0.59868 |
| AC092794.1 | 0.72943 |
| AL354919.2 | 0.53722 |
| AC139530.1 | 0.59580 |
| XIST | 0.63730 |
| AL078590.2 | 0.64443 |
| LINC01336 | 0.83251 |
| AC004918.3 | 0.54213 |
| AC048344.4 | 0.59234 |
| AC018653.3 | 0.67159 |
| AL359715.1 | 0.57430 |
| IQCH-AS1 | 0.58957 |
| DANCR | 0.63259 |
| AC129510.1 | 0.66614 |
| AC015912.3 | 0.57009 |
| AC024075.1 | 0.54728 |
| Z83843.1 | 0.62870 |
| AL391834.1 | 0.51613 |
| KRT7-AS | 0.71944 |
| SBF2-AS1 | 0.51307 |

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|-------------|---------|
| AL591806.1 | 0.58113 |
| MID1IP1-AS1 | 0.66019 |
| AC012170.2 | 0.63312 |
| CR936218.1 | 0.51189 |
| LINC00941 | 0.53815 |
| AL158212.3 | 0.56164 |
| MAGI2-AS3 | 0.58992 |
| AL390294.1 | 0.62768 |
| AC002128.2 | 0.62871 |
| MIR4435-2HG | 0.55441 |
| LINC00165 | 0.55802 |
| LINC01767 | 0.60841 |
| AL022328.1 | 0.54371 |
| AC108449.2 | 0.57249 |
| OCIAD1-AS1 | 0.54985 |
| AC008906.1 | 0.52829 |
| AL451165.2 | 0.62704 |
| AC000123.1 | 0.54729 |
| AP005230.1 | 0.54422 |
| AC109460.2 | 0.56074 |
| AL121832.2 | 0.63306 |
| Z84484.1 | 0.55735 |
| NUTM2B-AS1 | 0.59709 |
| ACTA2-AS1 | 0.58724 |
| H1FX-AS1 | 0.51406 |
| AC142472.1 | 0.58835 |
| FLNB-AS1 | 0.62274 |
| AL354733.3 | 0.59775 |
| AC138207.4 | 0.58407 |
| LINC02038 | 0.58797 |
| SNHG10 | 0.56648 |
| MIR100HG | 0.82812 |
| AC008608.2 | 0.51580 |
| AC018638.7 | 0.58165 |
| AL512791.1 | 0.50104 |
| AC010331.1 | 0.63904 |
| IPO5P1 | 0.56629 |
| OIP5-AS1 | 0.72080 |
| AC008115.3 | 0.63182 |
| AL355385.1 | 0.55930 |
| Z98884.2 | 0.50369 |

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|------------|---------|
| DNM3OS | 0.51084 |
| AC137932.1 | 0.53637 |
| AC003070.1 | 0.57394 |
| AC004846.1 | 0.52288 |
| AC109322.1 | 0.55476 |
| AC110792.3 | 0.56000 |
| AL157932.1 | 0.59607 |
| AL031714.1 | 0.59721 |
| AC006942.1 | 0.62419 |
| AC084824.4 | 0.55956 |
| AC090589.3 | 0.62210 |
| AL121829.2 | 0.54016 |
| AP002884.1 | 0.55887 |
| AC010834.3 | 0.55015 |
| AC026979.2 | 0.52048 |
| AL022328.3 | 0.55080 |
| AC023510.2 | 0.57009 |
| AC124312.5 | 0.56377 |
| AC125257.1 | 0.69459 |
| FMR1-IT1 | 0.56572 |
| LINC02550 | 0.50987 |
| AP002840.2 | 0.53208 |
| AC138207.5 | 0.57326 |
| LINC02595 | 0.53958 |
| ZNF426-DT | 0.52261 |
| AC096992.2 | 0.56022 |
| AC009120.3 | 0.52854 |
| SNHG25 | 0.55837 |
| LINC01871 | 0.62189 |
| AP001628.1 | 0.54622 |
| AC053503.4 | 0.59957 |
| AP000692.1 | 0.50973 |
| AC004492.1 | 0.57891 |
| AC091057.4 | 0.58064 |
| AC018690.1 | 0.53373 |
| MIF-AS1 | 0.56297 |
| AL163051.2 | 0.52522 |
| MINCR | 0.62766 |
| AL583785.1 | 0.54516 |
| AC090181.2 | 0.57672 |
| AC020913.3 | 0.60079 |

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|-------------|---------|
| AP003071.4 | 0.56852 |
| AC139887.2 | 0.55658 |
| AC004540.2 | 0.54621 |
| AC023509.4 | 0.82791 |
| AL359921.1 | 0.62318 |
| AC004908.2 | 0.51593 |
| DUBR | 0.82105 |
| MIR200CHG | 0.53339 |
| AL023284.4 | 0.54316 |
| AC087276.1 | 0.59688 |
| AC022211.3 | 0.55992 |
| SNHG12 | 0.63373 |
| AL133371.2 | 0.53672 |
| AC008105.3 | 0.51998 |
| MIR29B2CHG | 0.56854 |
| AL021878.2 | 0.57814 |
| PICSAR | 0.57615 |
| AL606489.1 | 0.56731 |
| AC092611.2 | 0.56208 |
| AC090579.1 | 0.52931 |
| ZNF436-AS1 | 0.58927 |
| AC104041.1 | 0.52285 |
| ANKRD10-IT1 | 0.54234 |
| HCP5 | 0.54745 |
| AL031670.1 | 0.58603 |
| LINC01615 | 0.55314 |
| AC107068.1 | 0.54949 |
| AC020765.2 | 0.56933 |
| AC093484.4 | 0.56387 |
| AL031667.3 | 0.63277 |
| MCM3AP-AS1 | 0.55099 |
| AC010186.3 | 0.68120 |
| AC002044.1 | 0.73494 |
| AC005332.3 | 0.56481 |
| FLJ31356 | 0.54187 |
| AC023421.2 | 0.54965 |
| AC073046.1 | 0.53473 |
| TP53TG1 | 0.60044 |
| EP300-AS1 | 0.53912 |
| FIRRE | 0.72968 |
| AL049840.2 | 0.54894 |

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|------------|---------|
| AL354993.2 | 0.63821 |
| AC020663.2 | 0.52982 |
| LINC01376 | 0.62897 |
| AC004253.1 | 0.54335 |
| AP000786.1 | 0.63342 |
| NKILA | 0.59100 |
| AL353751.1 | 0.59309 |
| U47924.2 | 0.52793 |
| AC127024.4 | 0.57144 |
| MHENCR | 0.50899 |
| AC012181.2 | 0.72022 |
| ADNP-AS1 | 0.52700 |
| MBNL1-AS1 | 0.58796 |
| LINC00641 | 0.56253 |
| LINC02562 | 0.52345 |
| AL109811.2 | 0.53080 |
| AC099343.2 | 0.59368 |
| AL139011.1 | 0.56262 |
| AC006435.2 | 0.62764 |
| AC005288.1 | 0.57898 |
| SDCBP2-AS1 | 0.51635 |
| AC025287.3 | 0.54732 |
| AC006001.2 | 0.72031 |
| AC108673.3 | 0.50303 |
| AC002553.2 | 0.54864 |
| CARD8-AS1 | 0.55676 |
| PAXIP1-AS2 | 0.57681 |
| AC093278.2 | 0.50206 |
| FENRR | 0.53481 |
| UBL7-AS1 | 0.68592 |
| LINC01578 | 0.70214 |
| AL604028.1 | 0.71615 |
| AL139393.2 | 0.50676 |
| RASSF8-AS1 | 0.62840 |
| AC080038.1 | 0.50445 |
| U62317.2 | 0.50918 |
| HCG18 | 0.61950 |
| AL133243.2 | 0.54140 |
| AL031600.1 | 0.53964 |
| AL024508.1 | 0.54772 |
| AC062017.1 | 0.61610 |

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|-------------|---------|
| AL596325.2 | 0.60784 |
| AC037198.1 | 0.62179 |
| AC108010.1 | 0.54231 |
| AC073896.4 | 0.54908 |
| AC080013.1 | 0.59452 |
| AL157392.3 | 0.54685 |
| AC005034.5 | 0.55973 |
| C5orf56 | 0.58759 |
| LINC02544 | 0.57465 |
| AL109614.1 | 0.53834 |
| AL391001.1 | 0.51951 |
| PSPC1-AS2 | 0.53440 |
| WNT5A-AS1 | 0.54847 |
| AC097376.2 | 0.55418 |
| AC073896.3 | 0.51011 |
| AL590652.1 | 0.50178 |
| AC026356.1 | 0.53645 |
| DLEU2 | 0.50863 |
| N4BP2L2-IT2 | 0.72040 |
| FAM13A-AS1 | 0.52679 |
| AL139385.1 | 0.57357 |
| INE1 | 0.63137 |
| AC022150.4 | 0.53537 |
| LINC01705 | 0.61045 |

lncRNA, long non-coding RNA.

Table SIV. Results of univariate Cox analysis.

| Gene | KM | B | SE | HR | HR.95L | HR.95H | P-value |
|----------------|---------|----------|---------|---------|---------|---------|---------|
| AL355472.1 | 0.03970 | -0.12405 | 0.05045 | 0.88334 | 0.80017 | 0.97515 | 0.01394 |
| LINC00649 | 0.00083 | -0.37048 | 0.13685 | 0.69040 | 0.52798 | 0.90279 | 0.00679 |
| LINC02195 | 0.02150 | -0.09009 | 0.04257 | 0.91385 | 0.84070 | 0.99336 | 0.03430 |
| AC012615.6 | 0.00173 | -0.58229 | 0.21231 | 0.55862 | 0.36846 | 0.84690 | 0.00609 |
| AC010503.4 | 0.00461 | -0.02438 | 0.00812 | 0.97592 | 0.96052 | 0.99157 | 0.00267 |
| GATA3-AS1 | 0.00224 | -0.03234 | 0.01303 | 0.96818 | 0.94377 | 0.99321 | 0.01304 |
| AC099850.3 | 0.01940 | 0.02773 | 0.01069 | 1.02812 | 1.00681 | 1.04988 | 0.00947 |
| AC063948.1 | 0.01454 | -0.28441 | 0.12336 | 0.75245 | 0.59085 | 0.95827 | 0.02114 |
| AL049840.3 | 0.02106 | 0.19951 | 0.08255 | 1.22080 | 1.03843 | 1.43520 | 0.01566 |
| AL136084.3 | 0.00133 | 0.26118 | 0.07768 | 1.29847 | 1.11510 | 1.51199 | 0.00077 |
| AL355353.1 | 0.00572 | -0.05478 | 0.01927 | 0.94669 | 0.91161 | 0.98313 | 0.00447 |
| LINC02321 | 0.03403 | 0.18116 | 0.05571 | 1.19861 | 1.07463 | 1.33689 | 0.00115 |
| AC009690.2 | 0.00105 | -0.64338 | 0.26962 | 0.52552 | 0.30980 | 0.89143 | 0.01702 |
| AL021707.8 | 0.00030 | -0.19617 | 0.05521 | 0.82188 | 0.73758 | 0.91580 | 0.00038 |
| AC090198.1 | 0.00313 | -0.42087 | 0.17274 | 0.65648 | 0.46793 | 0.92099 | 0.01483 |
| AC011477.2 | 0.00607 | -0.15271 | 0.05374 | 0.85838 | 0.77257 | 0.95372 | 0.00449 |
| AL139123.1 | 0.03008 | -0.41584 | 0.19190 | 0.65979 | 0.45296 | 0.96105 | 0.03024 |
| ZNF32-AS2 | 0.04918 | -0.37178 | 0.13816 | 0.68951 | 0.52594 | 0.90395 | 0.00713 |
| AC068338.3 | 0.00801 | -0.22069 | 0.10656 | 0.80197 | 0.65080 | 0.98824 | 0.03836 |
| AC002128.1 | 0.00450 | -0.47048 | 0.17320 | 0.62470 | 0.44488 | 0.87721 | 0.00660 |
| AC008610.1 | 0.00293 | -0.17185 | 0.06106 | 0.84211 | 0.74712 | 0.94917 | 0.00489 |
| AL353622.1 | 0.03238 | -0.27837 | 0.09975 | 0.75702 | 0.62259 | 0.92048 | 0.00526 |
| TMEM51- AS1 | 0.01316 | -0.27109 | 0.08132 | 0.76255 | 0.65021 | 0.89431 | 0.00086 |
| LINC01355 | 0.00125 | -0.22675 | 0.08087 | 0.79712 | 0.68029 | 0.93403 | 0.00505 |

| | | | | | | | |
|-----------------|---------|----------|---------|---------|---------|---------|---------|
| USP30-AS1 | 0.02293 | -0.14192 | 0.04471 | 0.86769 | 0.79489 | 0.94716 | 0.00150 |
| AC009065.4 | 0.00437 | -0.24706 | 0.09995 | 0.78109 | 0.64213 | 0.95012 | 0.01344 |
| PSMB8 AS1 | 0.02264 | -0.07131 | 0.02112 | 0.93118 | 0.89342 | 0.97053 | 0.00073 |
| C1RL-AS1 | 0.00933 | -0.44954 | 0.17037 | 0.63792 | 0.45683 | 0.89081 | 0.00832 |
| GARS-DT | 0.02837 | -0.42291 | 0.19389 | 0.65514 | 0.44802 | 0.95800 | 0.02917 |
| AC092794.1 | 0.00056 | -0.56996 | 0.26981 | 0.56555 | 0.33328 | 0.95968 | 0.03464 |
| AL354919.2 | 0.04517 | -0.12781 | 0.03952 | 0.88002 | 0.81443 | 0.95089 | 0.00122 |
| AC018653.3 | 0.00878 | -0.27670 | 0.10075 | 0.75828 | 0.62241 | 0.92382 | 0.00602 |
| AL359715.1 | 0.02000 | -0.18463 | 0.08036 | 0.83141 | 0.71025 | 0.97324 | 0.02159 |
| AC015912.3 | 0.01878 | -0.04209 | 0.01840 | 0.95878 | 0.92483 | 0.99398 | 0.02213 |
| KRT7-AS | 0.00015 | -0.02381 | 0.00842 | 0.97647 | 0.96048 | 0.99272 | 0.00470 |
| AL390294.1 | 0.00049 | -0.08030 | 0.03139 | 0.92284 | 0.86778 | 0.98140 | 0.01053 |
| MIR4435- 2HG | 0.04215 | 0.04874 | 0.02157 | 1.04995 | 1.00650 | 1.09528 | 0.02381 |
| LINC01767 | 0.00044 | -0.21265 | 0.08272 | 0.80844 | 0.68744 | 0.95072 | 0.01014 |
| OCIAD1- AS1 | 0.00214 | -0.52044 | 0.15042 | 0.59426 | 0.44252 | 0.79802 | 0.00054 |
| Z84484.1 | 0.00000 | -0.68065 | 0.20942 | 0.50629 | 0.33585 | 0.76322 | 0.00115 |
| AC018638.7 | 0.00233 | -0.58081 | 0.16253 | 0.55944 | 0.40682 | 0.76932 | 0.00035 |
| AC010331.1 | 0.00035 | -0.38176 | 0.12452 | 0.68266 | 0.53482 | 0.87136 | 0.00217 |
| IPO5P1 | 0.00380 | -0.07652 | 0.02396 | 0.92633 | 0.88383 | 0.97088 | 0.00141 |
| AC003070.1 | 0.00156 | -0.05819 | 0.02839 | 0.94347 | 0.89242 | 0.99745 | 0.04038 |
| AC110792.3 | 0.04698 | -0.46781 | 0.22787 | 0.62638 | 0.40075 | 0.97904 | 0.04008 |
| AL031714.1 | 0.03304 | -0.33507 | 0.13460 | 0.71529 | 0.54942 | 0.93122 | 0.01280 |
| AL121829.2 | 0.04366 | -0.31010 | 0.11286 | 0.73337 | 0.58784 | 0.91494 | 0.00600 |
| ZNF426-DT | 0.01655 | -0.22838 | 0.08904 | 0.79582 | 0.66839 | 0.94756 | 0.01032 |
| LINC01871 | 0.03553 | -0.05654 | 0.02134 | 0.94503 | 0.90632 | 0.98539 | 0.00806 |

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|----------------|---------|----------|---------|---------|---------|---------|---------|
| MIR200CHG | 0.01259 | -0.01165 | 0.00491 | 0.98842 | 0.97895 | 0.99799 | 0.01778 |
| ZNF436-AS1 | 0.00176 | -0.16262 | 0.05867 | 0.84992 | 0.75759 | 0.95349 | 0.00558 |
| AC020765.2 | 0.00295 | -0.17046 | 0.07189 | 0.84327 | 0.73244 | 0.97088 | 0.01774 |
| AC005332.3 | 0.00054 | -0.07900 | 0.03421 | 0.92404 | 0.86412 | 0.98812 | 0.02093 |
| TP53TG1 | 0.00806 | -0.01070 | 0.00473 | 0.98935 | 0.98022 | 0.99858 | 0.02375 |
| AC020663.2 | 0.00405 | -0.39668 | 0.17432 | 0.67255 | 0.47791 | 0.94646 | 0.02287 |
| AC004253.1 | 0.01940 | -0.26242 | 0.13171 | 0.76919 | 0.59418 | 0.99574 | 0.04633 |
| AC099343.2 | 0.00004 | -0.68252 | 0.19120 | 0.50534 | 0.34741 | 0.73508 | 0.00036 |
| AC108673.3 | 0.00607 | -0.12270 | 0.05555 | 0.88453 | 0.79329 | 0.98627 | 0.02718 |
| AC062017.1 | 0.01529 | -0.46717 | 0.14879 | 0.62678 | 0.46823 | 0.83900 | 0.00169 |
| AC073896.4 | 0.03777 | -0.03043 | 0.01388 | 0.97003 | 0.94400 | 0.99678 | 0.02837 |
| C5orf56 | 0.00475 | -0.43867 | 0.17107 | 0.64490 | 0.46118 | 0.90180 | 0.01034 |
| LINC02544 | 0.04151 | 0.03997 | 0.01513 | 1.04078 | 1.01036 | 1.07211 | 0.00826 |
| FAM13A- AS1 | 0.00158 | -0.46203 | 0.21606 | 0.63000 | 0.41251 | 0.96217 | 0.03248 |
| AL139385.1 | 0.02589 | 0.31440 | 0.11237 | 1.36944 | 1.09874 | 1.70684 | 0.00514 |

KM, Kaplan-Meier survival estimate; B, regression coefficient; SE, coefficient standard error
HR, hazard ratio; HR.95L, lower limit of 95% confidence interval; HR.95H, upper limit of
95% confidence interval.