**Table e-1.** Candidate autoantigens with elevated signal in the Disease Group samples relative to the Normal Group samples.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Count** |  |  | **Relative fluorescence units** |  |  |
| **Database ID** | **Disease Group, N** | **Normal Group, N** | **P-Value** | **Cutoff** | **Negative Signal**  | **Disease Group** | **Normal Group** | **Mean Ratio (Disease/Normal )** | **Protein name (Gene ID)** |
| NM\_002688.2 | 5 | 0 | 0.004 | 3031 | 104 | 47020 | 2086 | 22.5 | Septin 5 (SEPT5) |
| NM\_004574.2 | 4 | 0 | 0.024 | 946 | 48 | 11296 | 523 | 21.6 | Septin 4 (SEPT4), transcript variant 1 |
| BC029220.1 | 4 | 0 | 0.024 | 4400 | 125 | 21173 | 2237 | 9.5 | Transcription factor SOX-5 |
| NM\_198266.1 | 5 | 1 | 0.024 | 2343 | 239 | 19490 | 2182 | 8.9 | Inhibitor of growth family, member 3 (ING3), transcript variant 2 |
| BC015752.1 | 4 | 0 | 0.024 | 1500 | 42 | 7306 | 843 | 8.7 | Interferon regulatory factor 4 (IRF4) |
| NM\_001005339.1 | 5 | 1 | 0.024 | 2557 | 487 | 19932 | 2455 | 8.1 | Regulator of G-protein signaling 10 (RGS10), transcript variant 1 |
| NM\_024946.1 | 5 | 0 | 0.004 | 4179 | 113 | 22185 | 2916 | 7.6 | NEFA-interacting nuclear protein NIP30 (NIP30) |
| NM\_014110.3 | 4 | 0 | 0.024 | 5988 | 539 | 32701 | 4332 | 7.5 | Protein phosphatase 1, regulatory (inhibitor) subunit 8 (PPP1R8), transcript variant 1 |
| BC040946.1 | 4 | 0 | 0.024 | 4224 | 211 | 19544 | 2697 | 7.2 | CWC15 homolog (S. cerevisiae) (HSPC148) |
| NM\_001007246.1 | 4 | 0 | 0.024 | 2819 | 72 | 8765 | 1391 | 6.3 | Bromodomain and WD repeat domain containing 1 (BRWD1), transcript variant 3 |
| BC047064.1 | 4 | 0 | 0.024 | 1904 | 732 | 9199 | 1463 | 6.3 | SRY (sex determining region Y)-box 6, mRNA (cDNA clone MGC:48285 IMAGE:5269193), complete cds |
| NM\_207350.1 | 4 | 0 | 0.024 | 2112 | 47 | 7167 | 1196 | 6.0 | Similar to FRG1 protein (FSHD region gene 1 protein) (MGC72104) |
| NM\_001788.3 | 4 | 0 | 0.024 | 979 | 57 | 2815 | 476 | 5.9 | Septin 7 (SEPT7), transcript variant 1 |
| NM\_130777.1 | 4 | 0 | 0.024 | 3065 | 74 | 8141 | 1409 | 5.8 | X antigen family, member 2 (XAGE2) |
| BC005004.1 | 4 | 0 | 0.024 | 3018 | 532 | 9406 | 1685 | 5.6 | family with sequence similarity 64, member A (FAM64A) |
| BC015803.1 | 4 | 0 | 0.024 | 3241 | 211 | 10759 | 2138 | 5.0 | interferon regulatory factor 2 (IRF2) |
| NM\_138640.1 | 4 | 0 | 0.024 | 2589 | 75 | 8869 | 1768 | 5.0 | golgi associated, gamma adaptin ear containing, ARF binding protein 2 (GGA2), transcript variant 2 |
| NM\_153498.1 | 4 | 0 | 0.024 | 2106 | 66 | 4822 | 1064 | 4.5 | calcium/calmodulin-dependent protein kinase ID (CAMK1D), transcript variant 2 |
| NM\_014891.1 | 4 | 0 | 0.024 | 7880 | 3421 | 21504 | 4850 | 4.4 | PDGFA associated protein 1 (PDAP1) |
| NM\_002904.4 | 4 | 0 | 0.024 | 6903 | 5463 | 15464 | 3957 | 3.9 | RD RNA binding protein (RDBP) |
| BC051687.1 | 4 | 0 | 0.024 | 3119 | 63 | 6520 | 1704 | 3.8 | Kruppel-like factor 3 (basic) (KLF3) |
| BC066938.1 | 5 | 1 | 0.024 | 2268 | 323 | 9704 | 2580 | 3.8 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 43 (DDX43) |
| BC051733.1 | 4 | 0 | 0.024 | 3099 | 112 | 5755 | 1581 | 3.6 | Leucine zipper protein 1, mRNA (cDNA clone MGC:51018 IMAGE:4838475), complete cds |
| NM\_005720.1 | 4 | 0 | 0.024 | 1293 | 54 | 2854 | 810 | 3.5 | actin related protein 2/3 complex, subunit 1B, 41kDa (ARPC1B) |
| BC050616.1 | 4 | 0 | 0.024 | 1316 | 337 | 2368 | 762 | 3.1 | tumor suppressing subtransferable candidate 4 (TSSC4) |
| BC008288.1 | 5 | 1 | 0.024 | 953 | 50 | 2758 | 902 | 3.1 | UBX domain containing 1 (UBXD1) |
| BC014924.1 | 4 | 0 | 0.024 | 6634 | 783 | 10051 | 3940 | 2.6 | kinesin family member 2C (KIF2C) |
| BC013009.1 | 4 | 0 | 0.024 | 1789 | 50 | 3080 | 1304 | 2.4 | zinc finger, MYM-type 3 (ZMYM3) |
| NM\_001156.2 | 4 | 0 | 0.024 | 1478 | 35 | 2508 | 1129 | 2.2 | annexin A7 (ANXA7), transcript variant 1 |
| NM\_002596.2 | 4 | 0 | 0.024 | 1862 | 391 | 2329 | 1137 | 2.0 | PCTAIRE protein kinase 3 (PCTK3), transcript variant 3, mRNA |
| NM\_178425.1 | 4 | 0 | 0.024 | 1576 | 92 | 2022 | 1005 | 2.0 | histone deacetylase 9 (HDAC9), transcript variant 5 |