**Table e-7A:** Post mortem gene expression results in pathologically confirmed FTLD cases vs controls

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gene | All FTD | | *GRN* + | | *GRN* - | |
| Raw P-value | FDR P-value | Raw P-value | FDR P-value | Raw P-value | FDR P-value |
| *APOE* | 0.03 | 0.08 | 0.03 | 0.06 | 0.17 | 0.30 |
| *APOE* | 0.16 | 0.28 | 0.02 | 0.04 | 0.66 | 0.76 |
| *BAIAP2* | 6.28E-03 | 0.03 | 0.56 | 0.65 | 2.35E-04 | 2.43E-03 |
| *BAIAP2* | 0.02 | 0.06 | 7.27E-05 | 3.60E-03 | 0.30 | 0.45 |
| *BAIAP2* | 0.07 | 0.15 | 2.36E-03 | 0.02 | 0.65 | 0.76 |
| *CALD1* | 5.84E-04 | 0.01 | 3.64E-04 | 7.51E-03 | 4.31E-03 | 0.02 |
| *CALD1* | 1.72E-03 | 0.02 | 1.07E-03 | 0.01 | 0.01 | 0.05 |
| *CALD1* | 2.53E-03 | 0.02 | 4.92E-04 | 7.51E-03 | 0.03 | 0.09 |
| *CALD1* | 0.09 | 0.18 | 0.04 | 0.08 | 0.30 | 0.45 |
| *CALD1* | 0.10 | 0.18 | 2.66E-03 | 0.02 | 0.68 | 0.77 |
| *CALD1* | 0.15 | 0.27 | 4.32E-05 | 3.60E-03 | 0.41 | 0.55 |
| *CALD1* | 0.73 | 0.81 | 9.12E-03 | 0.03 | 0.10 | 0.20 |
| *CALM3///CALM2///CALM1* | 0.21 | 0.32 | 0.48 | 0.56 | 0.01 | 0.05 |
| *CALM3///CALM2///CALM1* | 0.37 | 0.48 | 5.42E-04 | 7.51E-03 | 0.28 | 0.44 |
| *CALM3///CALM2///CALM1* | 0.37 | 0.48 | 0.04 | 0.08 | 0.81 | 0.84 |
| *CALM3///CALM2///CALM1* | 0.61 | 0.72 | 0.01 | 0.04 | 0.10 | 0.20 |
| *CALM3///CALM2///CALM1* | 0.78 | 0.83 | 8.12E-03 | 0.03 | 0.08 | 0.18 |
| *CALM3///CALM2///CALM1* | 0.92 | 0.93 | 0.02 | 0.04 | 0.07 | 0.17 |
| *CALM3///CALM2///CALM1* | 0.93 | 0.93 | 0.02 | 0.04 | 0.13 | 0.25 |
| *CBL* | 0.47 | 0.59 | 0.78 | 0.82 | 0.22 | 0.36 |
| *CCNT1* | 0.21 | 0.32 | 0.23 | 0.34 | 6.14E-03 | 0.03 |
| *CDC25B* | 0.49 | 0.61 | 0.86 | 0.87 | 0.37 | 0.50 |
| *CDC37* | 0.01 | 0.05 | 5.31E-04 | 7.51E-03 | 0.19 | 0.33 |
| *CDC6* | 0.04 | 0.09 | 0.03 | 0.06 | 0.15 | 0.28 |
| *CDK2* | 0.32 | 0.43 | 0.78 | 0.82 | 0.22 | 0.36 |
| *CDK6* | 0.03 | 0.09 | 0.32 | 0.43 | 0.01 | 0.05 |
| *CKS1B* | 3.66E-04 | 9.05E-03 | 5.96E-03 | 0.03 | 3.01E-03 | 0.02 |
| *CNOT7* | 0.19 | 0.30 | 0.12 | 0.20 | 0.45 | 0.58 |
| *CSF1R* | 0.03 | 0.09 | 6.34E-04 | 7.51E-03 | 0.32 | 0.47 |
| *CTBP1* | 0.15 | 0.27 | 0.02 | 0.04 | 0.69 | 0.77 |
| *CTGF* | 2.52E-03 | 0.02 | 6.83E-04 | 7.51E-03 | 0.02 | 0.07 |
| *DAG1* | 8.88E-03 | 0.04 | 1.45E-04 | 4.79E-03 | 0.12 | 0.24 |
| *EIF2AK2* | 0.03 | 0.09 | 0.02 | 0.05 | 0.06 | 0.15 |
| *ERBB3* | 3.54E-03 | 0.02 | 2.87E-03 | 0.02 | 0.02 | 0.06 |
| *ERBB3* | 0.04 | 0.09 | 0.84 | 0.86 | 5.48E-03 | 0.03 |
| *ERBB4* | 0.06 | 0.13 | 0.45 | 0.55 | 0.04 | 0.10 |
| *ESR1* | 9.06E-06 | 8.97E-04 | 0.01 | 0.04 | 9.59E-06 | 9.49E-04 |
| *ESR1* | 0.05 | 0.12 | 0.28 | 0.39 | 0.04 | 0.10 |
| *ESR1* | 0.06 | 0.14 | 0.76 | 0.82 | 6.74E-03 | 0.03 |
| *ESR1* | 0.17 | 0.28 | 0.33 | 0.43 | 1.67E-03 | 0.01 |
| *ESR1* | 0.30 | 0.43 | 0.46 | 0.56 | 0.03 | 0.10 |
| *ESR1* | 0.31 | 0.43 | 0.39 | 0.49 | 0.03 | 0.09 |
| *ESR1* | 0.67 | 0.76 | 0.02 | 0.05 | 0.33 | 0.48 |
| *FCGR2A* | 0.03 | 0.08 | 0.02 | 0.05 | 0.07 | 0.17 |
| *FCGR3B///FCGR3A* | 0.04 | 0.09 | 0.04 | 0.08 | 0.10 | 0.20 |
| *FKBP4* | 0.03 | 0.09 | 0.04 | 0.08 | 0.07 | 0.17 |
| *GDNF* | 5.79E-03 | 0.03 | 0.20 | 0.31 | 1.30E-03 | 9.22E-03 |
| *GSK3A* | 3.20E-04 | 9.05E-03 | 0.01 | 0.04 | 6.15E-04 | 5.08E-03 |
| *GUCY1B3* | 0.77 | 0.83 | 0.04 | 0.08 | 0.30 | 0.45 |
| *HIST2H2BE* | 0.69 | 0.77 | 0.19 | 0.29 | 0.81 | 0.84 |
| *HSP90AA1* | 0.57 | 0.69 | 0.77 | 0.82 | 0.56 | 0.67 |
| *IFT20* | 0.74 | 0.81 | 0.75 | 0.82 | 0.50 | 0.62 |
| *IKZF4* | 2.64E-04 | 9.05E-03 | 0.05 | 0.09 | 3.07E-05 | 1.01E-03 |
| *IL2* | 0.16 | 0.27 | 0.02 | 0.04 | 0.65 | 0.76 |
| *IL2* | 0.28 | 0.40 | 0.04 | 0.08 | 0.83 | 0.86 |
| *IRS2* | 0.63 | 0.73 | 0.28 | 0.39 | 0.18 | 0.31 |
| *LYN* | 0.34 | 0.45 | 0.15 | 0.24 | 0.68 | 0.77 |
| *MAP3K5* | 2.59E-03 | 0.02 | 9.20E-03 | 0.03 | 0.03 | 0.09 |
| *MAP3K5* | 6.14E-03 | 0.03 | 7.67E-03 | 0.03 | 0.07 | 0.17 |
| *MAPT* | 0.79 | 0.83 | 0.09 | 0.15 | 0.38 | 0.50 |
| *MNAT1* | 0.71 | 0.78 | 0.57 | 0.65 | 0.89 | 0.91 |
| *MYC* | 0.01 | 0.05 | 8.20E-03 | 0.03 | 0.06 | 0.15 |
| *NCOR2* | 2.54E-03 | 0.02 | 0.43 | 0.53 | 5.82E-05 | 1.43E-03 |
| *NCOR2* | 0.02 | 0.08 | 0.93 | 0.93 | 2.45E-04 | 2.43E-03 |
| *NCOR2* | 0.14 | 0.26 | 0.30 | 0.41 | 3.70E-03 | 0.02 |
| *NRIP1* | 0.04 | 0.09 | 0.08 | 0.14 | 0.08 | 0.17 |
| *NRIP1* | 0.08 | 0.15 | 0.02 | 0.04 | 0.45 | 0.57 |
| *PA2G4* | 0.03 | 0.09 | 0.76 | 0.82 | 6.08E-03 | 0.03 |
| *PBX2* | 0.01 | 0.05 | 0.59 | 0.66 | 5.96E-04 | 5.08E-03 |
| *PBX2* | 0.21 | 0.32 | 0.80 | 0.83 | 0.03 | 0.09 |
| *PBX2* | 0.40 | 0.51 | 0.33 | 0.43 | 0.03 | 0.09 |
| *PDE4A* | 7.42E-04 | 0.01 | 0.05 | 0.09 | 1.36E-04 | 1.93E-03 |
| *PDE4A* | 3.49E-03 | 0.02 | 0.27 | 0.39 | 1.86E-04 | 2.31E-03 |
| *PDE4A* | 0.31 | 0.43 | 6.99E-03 | 0.03 | 0.74 | 0.81 |
| *PIAS3* | 0.80 | 0.84 | 0.24 | 0.35 | 0.65 | 0.76 |
| *POU2F2* | 8.51E-04 | 0.01 | 0.17 | 0.27 | 7.24E-05 | 1.43E-03 |
| *POU2F2* | 1.68E-03 | 0.02 | 0.33 | 0.43 | 2.97E-05 | 1.01E-03 |
| *PTPN12* | 0.21 | 0.32 | 0.05 | 0.09 | 0.55 | 0.67 |
| *RET* | 0.07 | 0.15 | 0.01 | 0.04 | 0.27 | 0.43 |
| *RET* | 0.60 | 0.72 | 1.75E-03 | 0.01 | 0.35 | 0.49 |
| *RGS4* | 0.26 | 0.38 | 0.03 | 0.06 | 0.92 | 0.92 |
| *RUNX1T1* | 0.07 | 0.15 | 0.06 | 0.11 | 0.17 | 0.30 |
| *SHC1* | 0.02 | 0.08 | 0.01 | 0.04 | 0.15 | 0.28 |
| *SHC3* | 0.88 | 0.90 | 0.48 | 0.56 | 0.80 | 0.84 |
| *SKAP1* | 0.92 | 0.93 | 0.35 | 0.45 | 0.37 | 0.50 |
| *SLA* | 2.50E-03 | 0.02 | 3.29E-03 | 0.02 | 0.01 | 0.05 |
| *SLA* | 0.06 | 0.14 | 4.05E-03 | 0.02 | 0.47 | 0.59 |
| *SMARCA2* | 2.63E-03 | 0.02 | 0.32 | 0.43 | 1.32E-04 | 1.93E-03 |
| *SMARCA2* | 0.01 | 0.05 | 2.91E-03 | 0.02 | 0.09 | 0.20 |
| *SMARCA2* | 0.17 | 0.28 | 2.68E-03 | 0.02 | 0.91 | 0.92 |
| *SMARCA2* | 0.18 | 0.29 | 1.30E-03 | 0.01 | 0.81 | 0.84 |
| *SMARCA2* | 0.57 | 0.69 | 0.02 | 0.04 | 0.44 | 0.57 |
| *SMARCB1* | 0.24 | 0.36 | 0.47 | 0.56 | 0.22 | 0.36 |
| *SMARCD1* | 0.03 | 0.09 | 0.23 | 0.34 | 0.02 | 0.07 |
| *SMYD3* | 0.49 | 0.61 | 4.37E-03 | 0.02 | 0.27 | 0.43 |
| *TGFB1I1* | 8.84E-03 | 0.04 | 1.37E-03 | 0.01 | 0.08 | 0.18 |
| *TYK2* | 0.06 | 0.12 | 0.01 | 0.04 | 0.34 | 0.49 |
| *VAV2* | 0.02 | 0.07 | 0.82 | 0.84 | 6.73E-04 | 5.13E-03 |
| *XBP1* | 0.67 | 0.76 | 0.23 | 0.34 | 0.74 | 0.81 |

**Supplemental Table e-7B** – Post mortem gene expression results in pathologically confirmed FTLD cases vs controls

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gene Name | **All FTD** | | **Constantinides Type C1 FTD** | | **Constantinides Type A FTD** | |
| Raw P-value | FDR P-value | Raw P-value | FDR P-value | Raw P-value | FDR P-value |
| *APOE* | 9.37E-03 | 0.05 | 0.02 | 0.45 | 0.17 | 0.36 |
| *APOE* | 0.05 | 0.14 | 0.03 | 0.45 | 0.37 | 0.58 |
| *APOE* | 0.14 | 0.26 | 0.06 | 0.57 | 0.62 | 0.80 |
| *BAIAP2* | 7.48E-03 | 0.05 | 0.02 | 0.45 | 0.08 | 0.32 |
| *BAIAP2* | 0.02 | 0.08 | 0.80 | 0.95 | 0.11 | 0.33 |
| *BAIAP2* | 0.06 | 0.15 | 0.24 | 0.70 | 0.02 | 0.31 |
| *BAIAP2* | 0.07 | 0.16 | 0.83 | 0.95 | 0.29 | 0.54 |
| *CALD1* | 8.78E-03 | 0.05 | 0.19 | 0.69 | 0.03 | 0.32 |
| *CALD1* | 0.01 | 0.06 | 0.03 | 0.45 | 0.06 | 0.32 |
| *CALD1* | 0.05 | 0.14 | 0.30 | 0.71 | 0.11 | 0.34 |
| *CALD1* | 0.08 | 0.17 | 0.20 | 0.70 | 0.20 | 0.41 |
| *CALD1* | 0.14 | 0.26 | 0.29 | 0.71 | 0.22 | 0.42 |
| *CALD1* | 0.15 | 0.27 | 0.50 | 0.85 | 0.11 | 0.33 |
| *CALD1* | 0.26 | 0.43 | 0.18 | 0.69 | 0.48 | 0.69 |
| *CALD1* | 0.70 | 0.81 | 0.82 | 0.95 | 0.33 | 0.55 |
| *CALD1* | 0.68 | 0.81 | 0.62 | 0.88 | 0.79 | 0.90 |
| *CALD1* | 0.73 | 0.83 | 0.98 | 0.99 | 0.30 | 0.54 |
| *CALM1 /// CALM2* | 0.02 | 0.06 | 0.39 | 0.74 | 0.10 | 0.33 |
| *CALM1 /// CALM2* | 0.06 | 0.14 | 0.63 | 0.88 | 0.14 | 0.35 |
| *CALM1 /// CALM2* | 0.41 | 0.58 | 0.89 | 0.98 | 0.47 | 0.69 |
| *CALM1 /// CALM2* | 0.41 | 0.58 | 0.70 | 0.91 | 0.75 | 0.90 |
| *CALM1 /// CALM2* | 0.48 | 0.65 | 0.61 | 0.88 | 0.40 | 0.63 |
| *CALM1 /// CALM2* | 0.64 | 0.80 | 0.30 | 0.71 | 0.82 | 0.90 |
| *CALM1 /// CALM2* | 0.82 | 0.89 | 0.62 | 0.88 | 0.69 | 0.87 |
| *CALM2* | 0.39 | 0.56 | 0.96 | 0.99 | 0.49 | 0.69 |
| *CALM2 /// CALM3* | 1.72E-03 | 0.04 | 0.15 | 0.68 | 0.02 | 0.31 |
| *CALM2 /// CALM3* | 3.25E-03 | 0.04 | 0.15 | 0.68 | 0.05 | 0.32 |
| *CBL* | 5.38E-04 | 0.03 | 0.03 | 0.45 | 1.39E-04 | 0.02 |
| *CBL* | 0.91 | 0.96 | 0.73 | 0.92 | 0.56 | 0.76 |
| *CCNT1* | 0.06 | 0.14 | 0.30 | 0.71 | 0.06 | 0.32 |
| *CCNT1* | 0.11 | 0.22 | 0.95 | 0.99 | 0.03 | 0.32 |
| *CDC25B* | 5.15E-03 | 0.05 | 0.14 | 0.68 | 0.09 | 0.32 |
| *CDC37* | 4.83E-05 | 4.29E-03 | 2.97E-03 | 0.45 | 0.01 | 0.31 |
| *CDC6* | 0.11 | 0.22 | 0.26 | 0.71 | 0.12 | 0.34 |
| *CDK2* | 0.09 | 0.20 | 0.92 | 0.98 | 0.17 | 0.36 |
| *CDK2* | 0.70 | 0.81 | 0.99 | 0.99 | 0.71 | 0.88 |
| *CDK6* | 0.07 | 0.17 | 0.54 | 0.88 | 0.19 | 0.40 |
| *CDK6* | 0.08 | 0.18 | 0.06 | 0.57 | 0.36 | 0.58 |
| *CDK6* | 0.20 | 0.34 | 0.59 | 0.88 | 0.23 | 0.44 |
| *CDK6* | 0.26 | 0.43 | 0.65 | 0.88 | 0.45 | 0.68 |
| *CDK6* | 0.89 | 0.94 | 0.71 | 0.91 | 0.82 | 0.90 |
| *CKS1B* | 0.94 | 0.97 | 0.98 | 0.99 | 0.85 | 0.91 |
| *CNOT7* | 0.03 | 0.10 | 0.40 | 0.74 | 0.14 | 0.34 |
| *CNOT7* | 0.04 | 0.11 | 0.67 | 0.88 | 0.10 | 0.33 |
| *CNOT7* | 0.08 | 0.17 | 0.09 | 0.64 | 0.23 | 0.44 |
| *CNOT7* | 0.64 | 0.80 | 0.60 | 0.88 | 0.88 | 0.92 |
| *CSF1R* | 0.07 | 0.17 | 0.21 | 0.70 | 0.06 | 0.32 |
| *CTBP1* | 4.11E-03 | 0.04 | 0.14 | 0.68 | 0.07 | 0.32 |
| *CTBP1* | 6.47E-03 | 0.05 | 0.13 | 0.68 | 0.09 | 0.33 |
| *CTBP1* | 0.03 | 0.10 | 0.57 | 0.88 | 0.12 | 0.34 |
| *CTBP1 /// LOC101928588* | 0.55 | 0.72 | 0.39 | 0.74 | 0.49 | 0.69 |
| *CTGF* | 0.94 | 0.97 | 0.91 | 0.98 | 0.72 | 0.88 |
| *DAG1* | 0.03 | 0.10 | 0.03 | 0.45 | 0.15 | 0.35 |
| *DAG1* | 0.60 | 0.77 | 0.67 | 0.88 | 0.42 | 0.65 |
| *EIF2AK2* | 8.89E-03 | 0.05 | 0.17 | 0.69 | 0.10 | 0.33 |
| *EIF2AK2* | 0.42 | 0.58 | 0.73 | 0.92 | 0.52 | 0.73 |
| *EIF2AK2* | 0.61 | 0.77 | 0.32 | 0.72 | 0.95 | 0.97 |
| *ERBB3* | 7.50E-03 | 0.05 | 0.22 | 0.70 | 0.07 | 0.32 |
| *ERBB3* | 0.02 | 0.06 | 0.32 | 0.72 | 0.16 | 0.35 |
| *ERBB3* | 0.03 | 0.10 | 0.39 | 0.74 | 0.13 | 0.34 |
| *ERBB3* | 0.34 | 0.52 | 0.64 | 0.88 | 0.02 | 0.31 |
| *ERBB4* | 0.11 | 0.22 | 0.59 | 0.88 | 0.08 | 0.32 |
| *ERBB4* | 0.43 | 0.60 | 0.26 | 0.71 | 0.52 | 0.73 |
| *ERBB4* | 0.95 | 0.97 | 0.53 | 0.88 | 0.71 | 0.88 |
| *ESR1* | 0.45 | 0.61 | 0.67 | 0.88 | 0.92 | 0.95 |
| *FCGR2A /// FCGR2C* | 0.06 | 0.15 | 0.27 | 0.71 | 0.13 | 0.34 |
| *FCGR2A /// FCGR2C* | 0.68 | 0.81 | 0.80 | 0.95 | 0.74 | 0.89 |
| *FCGR3A /// FCGR3B* | 0.70 | 0.81 | 0.35 | 0.74 | 0.95 | 0.97 |
| *FKBP4* | 0.05 | 0.13 | 0.06 | 0.57 | 0.49 | 0.69 |
| *FKBP4* | 0.15 | 0.27 | 0.11 | 0.68 | 0.76 | 0.90 |
| *GDNF* | 0.53 | 0.70 | 0.80 | 0.95 | 0.82 | 0.90 |
| *GSK3A* | 2.67E-03 | 0.04 | 0.19 | 0.69 | 0.04 | 0.32 |
| *GSK3A* | 0.28 | 0.45 | 0.98 | 0.99 | 0.31 | 0.55 |
| *GUCY1B3* | 4.71E-03 | 0.05 | 0.20 | 0.69 | 0.05 | 0.32 |
| *GUCY1B3* | 0.01 | 0.06 | 0.44 | 0.78 | 0.06 | 0.32 |
| *HIST2H2BE* | 0.08 | 0.17 | 0.29 | 0.71 | 0.34 | 0.57 |
| *HSP90AA1* | 9.57E-03 | 0.05 | 0.03 | 0.45 | 0.16 | 0.35 |
| *HSP90AA1* | 0.01 | 0.06 | 0.06 | 0.57 | 0.20 | 0.41 |
| *HSP90AA1* | 0.08 | 0.17 | 0.24 | 0.70 | 0.47 | 0.69 |
| *HSP90AA1* | 0.74 | 0.83 | 0.92 | 0.98 | 0.96 | 0.97 |
| *IFT20* | 5.49E-03 | 0.05 | 0.12 | 0.68 | 0.15 | 0.35 |
| *IKZF4* | 0.19 | 0.33 | 0.35 | 0.74 | 0.08 | 0.32 |
| *IKZF4* | 0.82 | 0.89 | 0.70 | 0.91 | 0.77 | 0.90 |
| *IKZF4* | 1.00 | 1.00 | 0.83 | 0.95 | 0.79 | 0.90 |
| *IRS2* | 0.22 | 0.38 | 0.95 | 0.99 | 0.36 | 0.58 |
| *IRS2* | 0.31 | 0.48 | 0.30 | 0.71 | 0.14 | 0.34 |
| *LYN* | 5.67E-03 | 0.05 | 0.18 | 0.69 | 0.02 | 0.31 |
| *LYN* | 0.02 | 0.07 | 0.23 | 0.70 | 0.08 | 0.32 |
| *LYN* | 0.52 | 0.69 | 0.64 | 0.88 | 0.30 | 0.55 |
| *MAP3K5* | 3.97E-03 | 0.04 | 0.17 | 0.69 | 2.77E-03 | 0.14 |
| *MAP3K5* | 0.85 | 0.91 | 0.78 | 0.95 | 0.83 | 0.91 |
| *MAPT* | 1.37E-03 | 0.04 | 0.14 | 0.68 | 0.03 | 0.32 |
| *MAPT* | 0.04 | 0.11 | 0.75 | 0.93 | 0.16 | 0.35 |
| *MAPT* | 0.35 | 0.52 | 0.87 | 0.98 | 0.47 | 0.69 |
| *MAPT* | 0.81 | 0.89 | 0.75 | 0.93 | 0.99 | 0.99 |
| *MAPT* | 0.86 | 0.91 | 0.36 | 0.74 | 0.57 | 0.76 |
| *MAPT* | 0.96 | 0.97 | 0.41 | 0.75 | 0.85 | 0.91 |
| *MNAT1* | 3.20E-03 | 0.04 | 0.15 | 0.68 | 0.04 | 0.32 |
| *MYC* | 0.39 | 0.56 | 0.42 | 0.76 | 0.23 | 0.44 |
| *NCOR2* | 0.36 | 0.54 | 0.95 | 0.99 | 0.71 | 0.88 |
| *NCOR2* | 0.68 | 0.81 | 0.57 | 0.88 | 0.82 | 0.90 |
| *NRIP1* | 0.15 | 0.27 | 0.08 | 0.62 | 0.33 | 0.55 |
| *NRIP1* | 0.16 | 0.28 | 0.67 | 0.88 | 0.32 | 0.55 |
| *PA2G4* | 0.04 | 0.11 | 0.35 | 0.74 | 0.29 | 0.54 |
| *PA2G4* | 0.59 | 0.76 | 0.91 | 0.98 | 0.56 | 0.76 |
| *PBX2* | 7.54E-04 | 0.03 | 0.03 | 0.45 | 0.04 | 0.32 |
| *PBX2* | 0.04 | 0.11 | 0.22 | 0.70 | 0.15 | 0.35 |
| *PBX2* | 0.81 | 0.89 | 0.80 | 0.95 | 0.82 | 0.90 |
| *PBX2* | 0.99 | 1.00 | 0.26 | 0.71 | 0.99 | 0.99 |
| *PDE4A* | 0.02 | 0.06 | 0.37 | 0.74 | 0.12 | 0.34 |
| *PDE4A* | 0.02 | 0.07 | 0.58 | 0.88 | 0.08 | 0.32 |
| *PDE4A* | 0.37 | 0.54 | 0.04 | 0.45 | 0.81 | 0.90 |
| *PIAS3* | 0.14 | 0.26 | 0.33 | 0.72 | 0.31 | 0.55 |
| *POU2F2* | 5.68E-05 | 4.29E-03 | 0.01 | 0.45 | 2.65E-03 | 0.14 |
| *POU2F2* | 0.32 | 0.49 | 0.92 | 0.98 | 0.15 | 0.35 |
| *POU2F2* | 0.65 | 0.81 | 0.89 | 0.98 | 0.89 | 0.93 |
| *POU2F2* | 0.70 | 0.81 | 0.07 | 0.61 | 0.86 | 0.91 |
| *POU2F2* | 0.67 | 0.81 | 0.97 | 0.99 | 0.36 | 0.58 |
| *POU2F2* | 0.73 | 0.83 | 0.43 | 0.77 | 0.76 | 0.90 |
| *PTPN12* | 0.26 | 0.43 | 0.62 | 0.88 | 0.44 | 0.67 |
| *PTPN12* | 0.29 | 0.46 | 0.61 | 0.88 | 0.59 | 0.78 |
| *RET* | 0.29 | 0.46 | 0.90 | 0.98 | 0.04 | 0.32 |
| *RGS4* | 6.79E-03 | 0.05 | 0.31 | 0.72 | 0.05 | 0.32 |
| *RGS4* | 0.01 | 0.05 | 0.38 | 0.74 | 0.04 | 0.32 |
| *RGS4* | 0.03 | 0.09 | 0.61 | 0.88 | 0.07 | 0.32 |
| *RUNX1T1* | 0.06 | 0.14 | 0.81 | 0.95 | 0.17 | 0.36 |
| *RUNX1T1* | 0.12 | 0.23 | 0.66 | 0.88 | 0.32 | 0.55 |
| *RUNX1T1* | 0.70 | 0.81 | 0.40 | 0.74 | 0.72 | 0.88 |
| *RUNX1T1* | 0.72 | 0.83 | 0.48 | 0.84 | 0.68 | 0.87 |
| *SHC1* | 0.12 | 0.23 | 0.29 | 0.71 | 0.56 | 0.76 |
| *SHC1* | 0.39 | 0.56 | 0.24 | 0.70 | 0.80 | 0.90 |
| *SHC3* | 3.71E-03 | 0.04 | 0.05 | 0.56 | 0.07 | 0.32 |
| *SHC3* | 0.02 | 0.06 | 0.43 | 0.77 | 0.08 | 0.32 |
| *SHC3* | 0.02 | 0.06 | 0.40 | 0.74 | 0.08 | 0.32 |
| *SHC3* | 0.94 | 0.97 | 0.57 | 0.88 | 0.87 | 0.92 |
| *SLA* | 0.01 | 0.06 | 0.17 | 0.69 | 0.09 | 0.33 |
| *SLA* | 0.10 | 0.21 | 0.20 | 0.69 | 0.10 | 0.33 |
| *SMARCA2* | 8.90E-03 | 0.05 | 0.24 | 0.70 | 0.06 | 0.32 |
| *SMARCA2* | 0.02 | 0.06 | 0.12 | 0.68 | 0.13 | 0.34 |
| *SMARCA2* | 0.06 | 0.15 | 0.54 | 0.88 | 0.07 | 0.32 |
| *SMARCA2* | 0.09 | 0.19 | 0.49 | 0.84 | 0.19 | 0.40 |
| *SMARCB1* | 0.01 | 0.06 | 0.13 | 0.68 | 0.12 | 0.34 |
| *SMARCD1* | 3.17E-03 | 0.04 | 0.09 | 0.65 | 0.02 | 0.31 |
| *SMARCD1* | 7.77E-03 | 0.05 | 0.37 | 0.74 | 0.04 | 0.32 |
| *SMYD3* | 1.99E-03 | 0.04 | 0.08 | 0.62 | 0.01 | 0.31 |
| *TGFB1I1* | 6.79E-03 | 0.05 | 0.11 | 0.68 | 5.09E-03 | 0.19 |
| *TYK2* | 0.02 | 0.07 | 0.27 | 0.71 | 0.21 | 0.42 |
| *VAV2* | 0.32 | 0.49 | 0.83 | 0.95 | 0.58 | 0.77 |
| *VAV2* | 0.85 | 0.91 | 0.87 | 0.98 | 0.61 | 0.79 |
| *XBP1* | 0.19 | 0.33 | 0.03 | 0.45 | 0.37 | 0.59 |
| *XBP1* | 0.56 | 0.73 | 0.67 | 0.88 | 0.13 | 0.34 |

**Table e-7A&B Legend:** RNA probe enrichment FDR corrected p-values for FTLD cases vs controls. The first cohort, GSE13162, had 61 bvFTD genes with expression data available (Table e-6A). The second cohort, E-MEXP-2280, had 58 bvFTD genes with expression data available (Table e-6B).