Table 10 Analysis of CSF Neurofilament light versus sCAGs, ssCAGs, and fCAGs

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|  |  |  |  |  |  |
| **Host feature** | **SE category** | **CAG2** | **95% CI** | **p-value** | **FDR.strat** |
| NFL | Species | CAG 1 | -0.000268 (-0.000989,0.000453) | 0.469 | 0.678 |
| NFL | Species | CAG 2 | -0.000631 (-0.001452,0.00019) | 0.137 | 0.678 |
| NFL | Species | CAG 3 | 0.000175 (-0.000799,0.001149) | 0.726 | 0.726 |
| NFL | Species | CAG 4 | -0.000396 (-0.001388,0.000596) | 0.437 | 0.678 |
| NFL | Species | CAG 5 | -0.000225 (-0.000989,0.000539) | 0.565 | 0.678 |
| NFL | Species | CAG 6 | -0.000745 (-0.002558,0.001068) | 0.424 | 0.678 |
| NFL | Sub-species | CAG 1 | -0.000458 (-0.001236,0.00032) | 0.253 | 0.6938 |
| NFL | Sub-species | CAG 2 | -0.000748 (-0.001665,0.000169) | 0.115 | 0.575 |
| NFL | Sub-species | CAG 3 | -0.000525 (-0.00184,0.00079) | 0.437 | 0.6938 |
| NFL | Sub-species | CAG 4 | 0.00121 (-0.000252,0.002672) | 0.111 | 0.575 |
| NFL | Sub-species | CAG 5 | -0.000553 (-0.001847,0.000741) | 0.405 | 0.6938 |
| NFL | Sub-species | CAG 6 | -0.000405 (-0.001744,0.000934) | 0.555 | 0.6938 |
| NFL | Sub-species | CAG 7 | -0.000078 (-0.001178,0.001021) | 0.89 | 0.89 |
| NFL | Sub-species | CAG 8 | 0.0012 (-0.001446,0.003846) | 0.377 | 0.6938 |
| NFL | Sub-species | CAG 9 | -0.000054 (-0.000233,0.000125) | 0.554 | 0.6938 |
| NFL | Sub-species | CAG 10 | 0.000203 (-0.001318,0.001724) | 0.795 | 0.8833 |
| NFL | Function | CAG 1 | -0.000007 (-0.00002,0.000006) | 0.303 | 0.7638 |
| NFL | Function | CAG 2 | -0.000001 (-0.000006,0.000003) | 0.551 | 0.9247 |
| NFL | Function | CAG 3 | -0.000008 (-0.000019,0.000003) | 0.161 | 0.5877 |
| NFL | Function | CAG 4 | -0.000012 (-0.00003,0.000007) | 0.231 | 0.6528 |
| NFL | Function | CAG 5 | 0.000002 (-0.000005,0.000009) | 0.594 | 0.9247 |
| NFL | Function | CAG 6 | 0.000019 (0.000005,0.000032) | 0.00851 | 0.3432 |
| NFL | Function | CAG 7 | -0.00001 (-0.000023,0.000003) | 0.142 | 0.5877 |
| NFL | Function | CAG 8 | 0 (-0.000009,0.00001) | 0.92 | 0.997 |
| NFL | Function | CAG 9 | 0.000042 (0.000006,0.000078) | 0.0254 | 0.5044 |
| NFL | Function | CAG 10 | 0.000013 (-0.000008,0.000034) | 0.229 | 0.6528 |
| NFL | Function | CAG 11 | 0 (-0.00002,0.00002) | 0.993 | 0.997 |
| NFL | Function | CAG 12 | 0.000021 (0,0.000041) | 0.0516 | 0.5044 |
| NFL | Function | CAG 13 | -0.000001 (-0.000009,0.000007) | 0.815 | 0.997 |
| NFL | Function | CAG 14 | -0.000012 (-0.000029,0.000004) | 0.148 | 0.5877 |
| NFL | Function | CAG 15 | 0.000014 (-0.000005,0.000033) | 0.162 | 0.5877 |
| NFL | Function | CAG 16 | -0.000016 (-0.00003,-0.000003) | 0.0216 | 0.5044 |
| NFL | Function | CAG 17 | -0.000007 (-0.000022,0.000007) | 0.322 | 0.7951 |
| NFL | Function | CAG 18 | -0.000008 (-0.000017,0.000001) | 0.076 | 0.5044 |
| NFL | Function | CAG 19 | 0.000012 (-0.000008,0.000033) | 0.255 | 0.6857 |
| NFL | Function | CAG 20 | 0.000001 (-0.000031,0.000033) | 0.97 | 0.997 |
| NFL | Function | CAG 21 | -0.00001 (-0.000022,0.000002) | 0.103 | 0.5305 |
| NFL | Function | CAG 22 | -0.000009 (-0.000037,0.000018) | 0.506 | 0.9039 |
| NFL | Function | CAG 23 | 0.000034 (0.000001,0.000067) | 0.0483 | 0.5044 |
| NFL | Function | CAG 24 | 0.000022 (0.000001,0.000043) | 0.0443 | 0.5044 |
| NFL | Function | CAG 25 | -0.000005 (-0.000018,0.000009) | 0.508 | 0.9039 |
| NFL | Function | CAG 26 | -0.000005 (-0.00001,0.000001) | 0.113 | 0.5305 |
| NFL | Function | CAG 27 | 0.000001 (-0.000009,0.00001) | 0.901 | 0.997 |
| NFL | Function | CAG 28 | -0.000001 (-0.000012,0.000011) | 0.916 | 0.997 |
| NFL | Function | CAG 29 | 0.000009 (-0.000008,0.000026) | 0.291 | 0.7638 |
| NFL | Function | CAG 30 | -0.000022 (-0.000043,-0.000002) | 0.0398 | 0.5044 |
| NFL | Function | CAG 31 | 0 (-0.000004,0.000005) | 0.93 | 0.997 |
| NFL | Function | CAG 32 | 0 (-0.000007,0.000006) | 0.879 | 0.997 |
| NFL | Function | CAG 33 | -0.000008 (-0.000031,0.000014) | 0.471 | 0.8805 |
| NFL | Function | CAG 34 | -0.000001 (-0.00002,0.000018) | 0.906 | 0.997 |
| NFL | Function | CAG 35 | -0.000013 (-0.000046,0.000021) | 0.458 | 0.8805 |
| NFL | Function | CAG 36 | 0 (-0.000013,0.000013) | 0.997 | 0.997 |
| NFL | Function | CAG 37 | -0.000006 (-0.00002,0.000008) | 0.403 | 0.847 |
| NFL | Function | CAG 38 | -0.000002 (-0.000019,0.000014) | 0.787 | 0.997 |
| NFL | Function | CAG 39 | 0 (-0.000001,0) | 0.585 | 0.9247 |
| NFL | Function | CAG 40 | -0.000032 (-0.000065,0.000001) | 0.0625 | 0.5044 |
| NFL | Function | CAG 41 | 0.000007 (0.000002,0.000012) | 0.00533 | 0.3225 |
| NFL | Function | CAG 42 | -0.000009 (-0.000027,0.000009) | 0.35 | 0.8144 |
| NFL | Function | CAG 43 | -0.000003 (-0.000014,0.000008) | 0.652 | 0.9392 |
| NFL | Function | CAG 44 | 0 (-0.000006,0.000006) | 0.974 | 0.997 |
| NFL | Function | CAG 45 | 0 (-0.000001,0.000001) | 0.905 | 0.997 |
| NFL | Function | CAG 46 | -0.000008 (-0.000024,0.000008) | 0.348 | 0.8144 |
| NFL | Function | CAG 47 | -0.000008 (-0.000016,0.000001) | 0.0792 | 0.5044 |
| NFL | Function | CAG 48 | -0.000017 (-0.000056,0.000022) | 0.4 | 0.847 |
| NFL | Function | CAG 49 | -0.000007 (-0.00004,0.000026) | 0.673 | 0.9444 |
| NFL | Function | CAG 50 | -0.000016 (-0.000031,-0.000001) | 0.0404 | 0.5044 |
| NFL | Function | CAG 51 | -0.000004 (-0.000017,0.00001) | 0.614 | 0.9247 |
| NFL | Function | CAG 52 | 0.000003 (-0.000016,0.000022) | 0.785 | 0.997 |
| NFL | Function | CAG 53 | 0.000001 (-0.000004,0.000005) | 0.816 | 0.997 |
| NFL | Function | CAG 54 | 0.000003 (-0.000002,0.000008) | 0.232 | 0.6528 |
| NFL | Function | CAG 55 | 0 (-0.000016,0.000017) | 0.952 | 0.997 |
| NFL | Function | CAG 56 | 0.000023 (0.000012,0.000033) | 8.27E-05 | 0.01 |
| NFL | Function | CAG 57 | -0.000009 (-0.000019,0.000001) | 0.0884 | 0.5242 |
| NFL | Function | CAG 58 | -0.000005 (-0.000021,0.000012) | 0.585 | 0.9247 |
| NFL | Function | CAG 59 | 0.000002 (-0.000012,0.000016) | 0.782 | 0.997 |
| NFL | Function | CAG 60 | -0.000011 (-0.000023,0.000001) | 0.0787 | 0.5044 |
| NFL | Function | CAG 61 | 0 (-0.000013,0.000013) | 0.985 | 0.997 |
| NFL | Function | CAG 62 | -0.00001 (-0.000024,0.000004) | 0.17 | 0.5877 |
| NFL | Function | CAG 63 | -0.000007 (-0.000027,0.000012) | 0.471 | 0.8805 |
| NFL | Function | CAG 64 | -0.000001 (-0.000014,0.000012) | 0.888 | 0.997 |
| NFL | Function | CAG 65 | -0.000003 (-0.00002,0.000014) | 0.749 | 0.997 |
| NFL | Function | CAG 66 | -0.000004 (-0.000033,0.000025) | 0.794 | 0.997 |
| NFL | Function | CAG 67 | -0.000016 (-0.000038,0.000006) | 0.169 | 0.5877 |
| NFL | Function | CAG 68 | -0.000008 (-0.000016,0.000001) | 0.0721 | 0.5044 |
| NFL | Function | CAG 69 | 0 (-0.000007,0.000007) | 0.937 | 0.997 |
| NFL | Function | CAG 70 | 0.000002 (-0.000006,0.00001) | 0.568 | 0.9247 |
| NFL | Function | CAG 71 | -0.000011 (-0.000036,0.000014) | 0.406 | 0.847 |
| NFL | Function | CAG 72 | -0.000009 (-0.000043,0.000025) | 0.602 | 0.9247 |
| NFL | Function | CAG 73 | 0 (-0.000001,0.000001) | 0.806 | 0.997 |
| NFL | Function | CAG 74 | 0.000006 (-0.000009,0.00002) | 0.457 | 0.8805 |
| NFL | Function | CAG 75 | -0.000006 (-0.000024,0.000012) | 0.523 | 0.9171 |
| NFL | Function | CAG 76 | -0.000011 (-0.000024,0.000002) | 0.107 | 0.5305 |
| NFL | Function | CAG 77 | -0.000005 (-0.000024,0.000014) | 0.612 | 0.9247 |
| NFL | Function | CAG 78 | -0.000004 (-0.000018,0.000009) | 0.537 | 0.9247 |
| NFL | Function | CAG 79 | -0.000008 (-0.000016,0) | 0.0452 | 0.5044 |
| NFL | Function | CAG 80 | -0.00001 (-0.000021,0) | 0.0556 | 0.5044 |
| NFL | Function | CAG 81 | 0 (-0.000016,0.000015) | 0.952 | 0.997 |
| NFL | Function | CAG 82 | -0.000001 (-0.000003,0.000001) | 0.42 | 0.8614 |
| NFL | Function | CAG 83 | -0.000006 (-0.000016,0.000004) | 0.251 | 0.6857 |
| NFL | Function | CAG 84 | 0 (-0.000001,0) | 0.472 | 0.8805 |
| NFL | Function | CAG 85 | 0.000003 (-0.000001,0.000006) | 0.199 | 0.6337 |
| NFL | Function | CAG 86 | -0.000008 (-0.000021,0.000004) | 0.182 | 0.6083 |
| NFL | Function | CAG 87 | 0.000002 (-0.000005,0.000008) | 0.651 | 0.9392 |
| NFL | Function | CAG 88 | -0.000001 (-0.000017,0.000016) | 0.947 | 0.997 |
| NFL | Function | CAG 89 | -0.000014 (-0.000045,0.000017) | 0.373 | 0.847 |
| NFL | Function | CAG 90 | -0.000009 (-0.000019,0.000001) | 0.0727 | 0.5044 |
| NFL | Function | CAG 91 | -0.000001 (-0.000015,0.000013) | 0.899 | 0.997 |
| NFL | Function | CAG 92 | -0.000014 (-0.000031,0.000004) | 0.134 | 0.5791 |
| NFL | Function | CAG 93 | -0.000002 (-0.000012,0.000008) | 0.661 | 0.941 |
| NFL | Function | CAG 94 | -0.00001 (-0.000021,0.000002) | 0.114 | 0.5305 |
| NFL | Function | CAG 95 | -0.00001 (-0.00002,0) | 0.0438 | 0.5044 |
| NFL | Function | CAG 96 | 0.000005 (-0.000005,0.000015) | 0.341 | 0.8144 |
| NFL | Function | CAG 97 | -0.000008 (-0.00002,0.000004) | 0.215 | 0.6504 |
| NFL | Function | CAG 98 | -0.000001 (-0.000013,0.000012) | 0.923 | 0.997 |
| NFL | Function | CAG 99 | -0.000011 (-0.000024,0.000002) | 0.0929 | 0.5242 |
| NFL | Function | CAG 100 | -0.000001 (-0.000008,0.000006) | 0.786 | 0.997 |
| NFL | Function | CAG 101 | -0.000002 (-0.000011,0.000007) | 0.619 | 0.9247 |
| NFL | Function | CAG 102 | -0.000006 (-0.000015,0.000002) | 0.163 | 0.5877 |
| NFL | Function | CAG 103 | 0.000001 (-0.000017,0.000018) | 0.954 | 0.997 |
| NFL | Function | CAG 104 | 0.000005 (-0.000008,0.000018) | 0.473 | 0.8805 |
| NFL | Function | CAG 105 | 0.000001 (-0.000014,0.000016) | 0.897 | 0.997 |
| NFL | Function | CAG 106 | 0.000003 (-0.000011,0.000017) | 0.679 | 0.9444 |
| NFL | Function | CAG 107 | 0.000002 (-0.000005,0.000008) | 0.627 | 0.9252 |
| NFL | Function | CAG 108 | -0.000008 (-0.000018,0.000002) | 0.133 | 0.5791 |
| NFL | Function | CAG 109 | -0.000002 (-0.00001,0.000005) | 0.558 | 0.9247 |
| NFL | Function | CAG 110 | -0.000004 (-0.000013,0.000005) | 0.388 | 0.847 |
| NFL | Function | CAG 111 | 0 (-0.000012,0.000012) | 0.98 | 0.997 |
| NFL | Function | CAG 112 | 0.000002 (-0.000002,0.000006) | 0.406 | 0.847 |
| NFL | Function | CAG 113 | -0.000006 (-0.000016,0.000003) | 0.21 | 0.6504 |
| NFL | Function | CAG 114 | 0.000005 (-0.000009,0.000018) | 0.491 | 0.9002 |
| NFL | Function | CAG 115 | 0.000001 (-0.000009,0.00001) | 0.881 | 0.997 |
| NFL | Function | CAG 116 | 0.000001 (0,0.000002) | 0.186 | 0.6083 |
| NFL | Function | CAG 117 | 0.000008 (-0.000007,0.000022) | 0.298 | 0.7638 |
| NFL | Function | CAG 118 | -0.000004 (-0.000017,0.00001) | 0.574 | 0.9247 |
| NFL | Function | CAG 119 | -0.000001 (-0.00001,0.000007) | 0.737 | 0.997 |
| NFL | Function | CAG 120 | 0.000001 (-0.000004,0.000005) | 0.767 | 0.997 |
| NFL | Function | CAG 121 | 0.00001 (-0.000002,0.000021) | 0.0953 | 0.5242 |
| NFL | Function | CAG 122 | #VALUE! | NA | #VALUE! |
| NFL | Function | CAG 123 | #VALUE! | NA | #VALUE! |
| NFL | Function | CAG 124 | #VALUE! | NA | #VALUE! |
| NFL | Function | CAG 125 | #VALUE! | NA | #VALUE! |
| NFL | Function | CAG 126 | #VALUE! | NA | #VALUE! |
| NFL | Function | CAG 127 | #VALUE! | NA | #VALUE! |
| NFL | Function | CAG 128 | #VALUE! | NA | #VALUE! |
| NFL | Function | CAG 129 | #VALUE! | NA | #VALUE! |
| NFL | Function | CAG 130 | #VALUE! | NA | #VALUE! |