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Supplementary Table 1. M values of CpG sites in the *BDNF* gene and their associations with processing speed and PAOFI total and subscale scores (n=102)

| CpG Sites | M-value | | PS [†] (r) | PAOFI [§] (r) | | | | |
|----------------|-----------|----------|------------------------|------------------------|------------|-----------------|------------|------------|
| | Mean | SD | | Total | SM | MEM | LC | HCIF |
| Overall | – 2.59 | 0.1 5 | 0.027 | 0.139 | 0.062 | 0.130 | 0.110 | 0.130 |
| cg2129163 5 | – 5.96 | 0.2 2 | 0.251 * | – 0.038 | 0.117 | – 0.109 | – 0.046 | – 0.046 |
| cg0949235 4 | – 5.93 | 0.4 5 | 0.072 | 0.099 | 0.113 | 0.083 | 0.033 | 0.054 |
| cg1568867 0 | – 5.88 | 0.3 8 | 0.115 | 0.082 | 0.187 | 0.024 | 0.011 | 0.067 |
| cg1788249 9 | – 5.86 | 0.5 2 | – 0.023 | 0.156 | 0.059 | 0.177 | 0.128 | 0.134 |
| cg0604643 1 | – 5.46 | 0.2 7 | 0.061 | 0.165 | 0.036 | 0.218 * | 0.139 | 0.086 |
| cg1124120 6 | – 5.44 | 0.2 9 | – 0.081 | 0.091 | 0.003 | 0.076 | 0.098 | 0.109 |
| cg0699151 0 | – 5.35 | 0.3 2 | – 0.072 | – 0.169 | – 0.028 | – 0.213 * | – 0.144 | – 0.080 |

Supplementary Table 1. M values of CpG sites in the *BDNF* gene and their associations with processing speed and PAOFI total and subscale scores (n=102)

| CpG Sites | M-value | | PS [†] (r) | PAOFI [§] (r) | | | | |
|----------------|-----------|----------|------------------------|------------------------|------------|------------|------------|------------|
| | Mean | SD | | Total | SM | MEM | LC | HCIF |
| cg0960676 6 | - 5.34 | 0.3 6 | 0.084 | 0.069 | 0.042 | 0.092 | 0.046 | 0.072 |
| cg2538166 7 | - 5.32 | 0.2 7 | - 0.016 | 0.135 | - 0.011 | 0.119 | 0.178 | 0.156 |
| cg0602563 1 | - 5.25 | 0.3 4 | 0.022 | - 0.034 | - 0.059 | - 0.004 | - 0.038 | - 0.041 |
| cg1811789 5 | - 5.21 | 0.2 6 | 0.109 | 0.04 | 0.023 | - 0.038 | 0.061 | 0.149 |
| cg2605778 0 | - 5.11 | 0.2 9 | 0.193 | 0.078 | 0.139 | 0.073 | - 0.013 | 0.051 |
| cg1458914 8 | - 5.06 | 0.3 9 | 0.037 | 0.177 | 0.148 | 0.168 | 0.131 | 0.125 |
| cg2394703 9 | - 4.98 | 0.7 2 | - 0.121 | 0.139 | 0.076 | 0.159 | 0.136 | 0.159 |
| cg2034065 5 | - 4.96 | 0.4 3 | - 0.067 | 0.009 | 0.081 | - 0.025 | - 0.017 | 0.046 |
| cg0029848 1 | - 4.91 | 0.3 6 | 0.048 | 0.171 | 0.048 | 0.121 | 0.129 | 0.213 * |

Supplementary Table 1. M values of CpG sites in the *BDNF* gene and their associations with processing speed and PAOFI total and subscale scores (n=102)

| CpG Sites | M-value | | PS [‡] (r) | PAOFI [§] (r) | | | | |
|----------------|-----------|----------|------------------------|------------------------|------------|------------|------------|------------|
| | Mean | SD | | Total | SM | MEM | LC | HCIF |
| cg2437765 7 | - 4.65 | 0.4 5 | 0.121 | 0.164 | 0.161 | 0.166 | 0.086 | 0.053 |
| cg2095453 7 | - 4.59 | 0.2 8 | 0.142 | 0.118 | 0.008 | 0.094 | 0.159 | 0.079 |
| cg2545795 6 | - 4.59 | 0.3 4 | - 0.089 | 0.149 | 0.103 | 0.119 | 0.118 | 0.157 |
| cg1591476 9 | - 4.56 | 0.5 8 | - 0.034 | - 0.026 | 0.014 | - 0.060 | - 0.061 | 0.043 |
| cg0950580 1 | - 4.54 | 0.5 1 | - 0.049 | 0.060 | - 0.012 | 0.071 | 0.068 | 0.074 |
| cg2349721 7 | - 4.51 | 0.3 6 | - 0.031 | 0.020 | 0.020 | - 0.023 | 0.018 | 0.020 |
| cg2228810 3 | - 4.40 | 0.5 2 | 0.052 | 0.207 * | 0.095 | 0.179 | 0.194 | 0.156 |
| cg2361933 2 | - 4.40 | 0.4 4 | 0.027 | 0.202 * | 0.189 | 0.122 | 0.178 | 0.209 * |
| cg2101085 9 | - 4.38 | 0.4 1 | - 0.005 | 0.033 | - 0.049 | 0.063 | 0.056 | 0.032 |

Supplementary Table 1. M values of CpG sites in the *BDNF* gene and their associations with processing speed and PAOFI total and subscale scores (n=102)

| CpG Sites | M-value | | PS [†] (r) | PAOFI [§] (r) | | | | |
|----------------|-----------|----------|------------------------|------------------------|------------|------------|------------|------------|
| | Mean | SD | | Total | SM | MEM | LC | HCIF |
| cg1571024 5 | - 4.34 | 0.3 5 | - 0.017 | 0.199 * | 0.182 | 0.160 | 0.132 | 0.109 |
| cg1531333 2 | - 4.27 | 0.5 0 | - 0.044 | 0.060 | 0.036 | 0.079 | 0.035 | 0.054 |
| cg0374725 1 | - 4.23 | 0.5 8 | - 0.094 | - 0.029 | - 0.034 | - 0.002 | - 0.018 | - 0.040 |
| cg2719303 1 | - 4.18 | 0.5 2 | - 0.055 | 0.037 | 0.042 | 0.014 | 0.047 | 0.046 |
| cg1002252 6 | - 4.15 | 0.4 0 | 0.006 | 0.176 | 0.087 | 0.180 | 0.143 | 0.119 |
| cg2406504 4 | - 4.14 | 0.4 4 | 0.036 | - 0.027 | 0.047 | - 0.030 | - 0.064 | - 0.053 |
| cg0252747 2 | - 4.13 | 0.3 4 | - 0.073 | - 0.047 | - 0.043 | - 0.061 | - 0.039 | 0.064 |
| cg0836273 8 | - 4.11 | 0.4 8 | - 0.107 | 0.120 | 0.095 | 0.077 | 0.116 | 0.146 |
| cg1244800 3 | - 4.07 | 0.5 5 | - 0.107 | 0.056 | 0.015 | 0.082 | - 0.006 | 0.095 |

Supplementary Table 1. M values of CpG sites in the *BDNF* gene and their associations with processing speed and PAOFI total and subscale scores (n=102)

| CpG Sites | M-value | | PS [†] (r) | PAOFI [§] (r) | | | | |
|----------------|-----------|----------|------------------------|------------------------|------------|------------|------------|------------|
| | Mean | SD | | Total | SM | MEM | LC | HCIF |
| cg2735135 8 | - 4.06 | 0.5 9 | - 0.053 | 0.054 | - 0.075 | 0.106 | 0.066 | 0.002 |
| cg0448121 2 | - 4.02 | 0.3 9 | - 0.019 | 0.040 | 0.033 | 0.083 | 0.056 | 0.003 |
| cg2465078 5 | - 3.97 | 0.4 4 | - 0.004 | - 0.060 | - 0.009 | - 0.064 | - 0.089 | - 0.075 |
| cg2532859 7 | - 3.96 | 0.5 0 | - 0.023 | - 0.002 | - 0.019 | 0.026 | - 0.034 | 0.008 |
| cg0163600 3 | - 3.93 | 0.4 2 | - 0.006 | 0.005 | - 0.010 | - 0.034 | - 0.012 | 0.074 |
| cg0521837 5 | - 3.91 | 0.4 8 | - 0.085 | - 0.012 | - 0.015 | - 0.005 | - 0.052 | - 0.040 |
| cg0467235 1 | - 3.91 | 0.3 9 | - 0.091 | 0.051 | 0.068 | - 0.023 | 0.049 | 0.039 |
| cg2515668 8 | - 3.80 | 0.5 0 | - 0.017 | 0.142 | - 0.042 | 0.149 | 0.227 * | 0.132 |
| cg1055849 4 | - 3.77 | 0.5 7 | - -0.02 | 0.013 | - 0.003 | - 0.015 | 0.035 | 0.013 |

Supplementary Table 1. M values of CpG sites in the *BDNF* gene and their associations with processing speed and PAOFI total and subscale scores (n=102)

| CpG Sites | M-value | | PS [†] (r) | PAOFI [§] (r) | | | | |
|----------------|-----------|----------|------------------------|------------------------|------------|-------------|------------|------------|
| | Mean | SD | | Total | SM | MEM | LC | HCIF |
| cg0398478 0 | - 3.76 | 0.5 4 | - 0.049 | 0.200 * | 0.135 | 0.156 | 0.202 * | 0.235 * |
| cg2541283 1 | - 3.71 | 0.4 5 | - 0.046 | 0.221 * | 0.093 | 0.276 ** | 0.165 | 0.151 |
| cg0581889 4 | - 3.70 | 0.3 8 | - 0.001 | 0.040 | 0.081 | - 0.001 | 0.004 | - 0.066 |
| cg0316749 6 | - 3.62 | 0.5 2 | - 0.009 | 0.072 | - 0.004 | 0.065 | 0.116 | 0.095 |
| cg1186536 0 | - 3.61 | 0.6 2 | 0.15 | 0.056 | 0.076 | 0.019 | 0.033 | 0.003 |
| cg1546288 7 | - 3.58 | 0.4 1 | - 0.113 | 0.174 | 0.009 | 0.211 * | 0.197 * | 0.132 |
| cg2212837 9 | - 3.45 | 0.5 8 | - 0.157 | - 0.016 | - 0.056 | 0.025 | - 0.006 | - 0.062 |
| cg0122569 8 | - 3.45 | 0.4 9 | - 0.131 | 0.017 | - 0.019 | 0.021 | 0.012 | 0.067 |
| cg2684077 0 | - 3.44 | 0.4 9 | - 0.087 | - 0.029 | 0.078 | - 0.119 | - 0.093 | 0.042 |

Supplementary Table 1. M values of CpG sites in the *BDNF* gene and their associations with processing speed and PAOFI total and subscale scores (n=102)

| CpG Sites | M-value | | PS [‡] (r) | PAOFI [§] (r) | | | | |
|----------------|-----------|----------|------------------------|------------------------|------------|------------|------------|------------|
| | Mean | SD | | Total | SM | MEM | LC | HCIF |
| cg2204316 8 | - 3.40 | 0.6 3 | - 0.054 | 0.030 | - 0.189 | 0.126 | 0.073 | 0.016 |
| cg0681623 5 | - 3.37 | 0.3 2 | 0.065 | 0.005 | 0.005 | 0.015 | 0.001 | - 0.051 |
| cg0573313 5 | - 3.30 | 0.7 1 | - 0.087 | 0.084 | - 0.044 | 0.114 | 0.148 | 0.098 |
| cg0626007 7 | - 3.16 | 0.4 3 | 0.007 | 0.210 * | 0.070 | 0.234 * | 0.124 | 0.139 |
| cg2596221 0 | - 3.00 | 0.3 7 | - 0.114 | 0.080 | 0.006 | 0.046 | 0.129 | 0.084 |
| cg1171803 0 | - 2.92 | 0.5 0 | - 0.024 | 0.119 | 0.009 | 0.132 | 0.123 | 0.118 |
| cg1625709 1 | - 2.87 | 0.6 1 | 0.005 | - 0.089 | - 0.094 | - 0.068 | - 0.060 | - 0.085 |
| cg0668485 0 | - 2.73 | 0.6 1 | - 0.095 | - 0.038 | - 0.041 | - 0.036 | - 0.039 | 0.019 |
| cg1206729 8 | - 2.68 | 0.4 7 | 0.074 | 0.096 | 0.108 | 0.032 | 0.045 | 0.128 |

Supplementary Table 1. M values of CpG sites in the *BDNF* gene and their associations with processing speed and PAOFI total and subscale scores (n=102)

| CpG Sites | M-value | | PS [†] (r) | PAOFI [§] (r) | | | | |
|----------------|-----------|----------|------------------------|------------------------|-----------------|------------------|------------------|------------------|
| | Mean | SD | | Total | SM | MEM | LC | HCIF |
| cg2424941 1 | - 2.61 | 0.4 8 | 0.036 | 0.174 | 0.144 | 0.114 | 0.141 | 0.189 |
| cg1741394 3 | - 2.50 | 0.3 8 | - 0.076 | - 0.067 | - 0.010 | - 0.105 | - 0.038 | - 0.060 |
| cg0158313 1 | - 2.48 | 0.4 9 | - 0.021 | 0.130 | 0.014 | 0.153 | 0.115 | 0.116 |
| cg2694969 4 | - 1.81 | 0.3 6 | 0.021 | 0.115 | 0.093 | 0.060 | 0.116 | 0.161 |
| cg0770469 9 | - 1.67 | 0.7 8 | 0.083 | 0.149 | 0.171 | 0.166 | 0.120 | 0.026 |
| cg2010835 7 | - 0.77 | 0.5 2 | 0.163 | - 0.356 ** | - 0.209 * | - 0.371 ** | - 0.300 ** | - 0.285 ** |
| cg0154643 3 | - 0.29 | 0.3 6 | 0.098 | 0.053 | 0.103 | 0.027 | - 0.046 | 0.103 |
| cg2592886 0 | - 0.15 | 0.5 8 | - 0.035 | 0.128 | 0.070 | 0.141 | 0.100 | 0.068 |

Supplementary Table 1. M values of CpG sites in the *BDNF* gene and their associations with processing speed and PAOFI total and subscale scores (n=102)

| CpG Sites | M-value | | PS [†] (r) | PAOFI [§] (r) | | | | |
|-----------------------------|---------|----------|------------------------|------------------------|-----------------|------------|------------|------------|
| | Mean | SD | | Total | SM | MEM | LC | HCIF |
| cg1063514 5 | 0.04 | 0.5 1 | 0.125 | 0.024 | 0.071 | 0.051 | 0.000 | - 0.118 |
| cg1202117 0 | 1.54 | 0.2 9 | 0.098 | - 0.015 | 0.038 | - 0.030 | - 0.045 | - 0.014 |
| cg1670945 7 | 1.59 | 0.4 6 | 0.094 | 0.140 | 0.010 | 0.149 | 0.097 | 0.151 |
| cg0238699 4 | 1.60 | 0.2 5 | 0.106 | - 0.001 | - 0.039 | 0.007 | - 0.037 | - 0.008 |
| cg1859517 4 [†] | 1.60 | 0.5 6 | - 0.002 | - 0.007 | - 0.068 | 0.023 | - 0.023 | - 0.041 |
| cg1429169 3 | 1.73 | 0.3 3 | 0.141 | - 0.025 | 0.070 | - 0.055 | - 0.038 | 0.012 |
| cg0876014 7 | 1.88 | 0.3 3 | 0.062 | - 0.018 | 0.038 | - 0.045 | - 0.041 | 0.003 |
| cg2314337 1 | 2.31 | 0.5 5 | 0.021 | - 0.133 | - 0.243 * | - 0.130 | - 0.029 | - 0.054 |

Supplementary Table 1. M values of CpG sites in the *BDNF* gene and their associations with processing speed and PAOFI total and subscale scores (n=102)

| CpG Sites | M-value | | PS [†] (r) | PAOFI [§] (r) | | | | |
|-----------------|---------|----------|------------------------|------------------------|------------|------------|------------|------------|
| | Mean | SD | | Total | SM | MEM | LC | HCIF |
| cg0584768 0 | 2.37 | 0.3 0 | 0.149 | 0.045 | – 0.006 | 0.076 | 0.038 | 0.019 |
| cg0518957 0 | 2.41 | 0.3 1 | 0.131 | – 0.119 | – 0.031 | – 0.085 | – 0.174 | – 0.103 |
| cg1229675 2† | 2.54 | 0.5 5 | 0.022 | 0.015 | – 0.015 | 0.029 | 0.036 | – 0.005 |
| cg1180676 2 | 2.65 | 0.3 6 | 0.111 | 0.095 | – 0.011 | 0.051 | 0.139 | 0.117 |
| cg0723883 2 | 2.73 | 0.3 2 | 0.036 | – 0.117 | – 0.178 | – 0.031 | – 0.056 | – 0.175 |
| cg2342600 2 | 2.85 | 0.2 4 | 0.045 | – 0.103 | – 0.007 | – 0.106 | – 0.093 | – 0.060 |
| cg0697968 4 | 2.86 | 0.2 5 | – 0.021 | – 0.050 | – 0.070 | – 0.011 | – 0.032 | – 0.075 |
| cg0791924 6 | 2.99 | 0.2 6 | – 0.031 | – 0.069 | – 0.069 | 0.003 | – 0.130 | – 0.122 |
| cg1501467 9 | 3.25 | 0.2 7 | – 0.112 | – 0.011 | – 0.098 | 0.000 | – 0.021 | 0.058 |

Supplementary Table 1. M values of CpG sites in the *BDNF* gene and their associations with processing speed and PAOFI total and subscale scores (n=102)

| CpG Sites | M-value | | PS [†] (r) | PAOFI [§] (r) | | | | |
|----------------|---------|----------|------------------------|------------------------|------------|------------|------------|-------|
| | Mean | SD | | Total | SM | MEM | LC | HCIF |
| cg1835420 3 | 3.35 | 0.3 3 | - 0.045 | - 0.022 | - 0.109 | - 0.044 | 0.064 | 0.080 |
| cg0838800 4 | 3.59 | 0.2 3 | - 0.035 | - 0.054 | - 0.122 | 0.008 | - 0.048 | 0.006 |

PS, Processing Speed Composite Score; PAOFI, Patient's Assessment of Own Functioning Inventory; SM, Sensorimotor; MEM, Memory; LC, Language and Communication; HCIF, Higher Level Cognitive and Intellectual Functions.

*. Correlation is significant at the 0.05 level (two-tailed).

**. Correlation is significant at the 0.01 level (two-tailed).

For correlation analysis, transformed variables were used.

r. Pearson correlation

†. Reflected and Log transformed based on 10

‡. Reflected and Squared root transformed

§. Squared root transformed

Supplementary Table 2. M values of CpG sites in the *RASA2* gene and their associations with processing speed and PAOFI total and subscale scores (n=102)

| CpG Sites | M-value | | PS [‡] (r) | PAOFI [§] (r) | | | | |
|----------------|---------|------|------------------------|------------------------|--------|-------|-------|-------|
| | Mean | SD | | Total | SM | MEM | LC | HCIF |
| Overall | 0.12 | 0.14 | -0.031 | - | -0.161 | - | 0.019 | - |
| cg2024710 2 | -5.86 | 0.18 | 0.230* | 0.105 | 0.149 | 0.024 | 0.105 | 0.023 |
| cg0444419 5 | -5.76 | 0.27 | -0.087 | 0.204* | 0.211* | 0.155 | 0.155 | 0.178 |
| cg1590482 1 | -5.73 | 0.28 | 0.070 | 0.163 | 0.089 | 0.170 | 0.130 | 0.089 |
| cg0138247 4 | -5.69 | 0.25 | 0.021 | 0.060 | 0.101 | 0.014 | 0.033 | 0.072 |
| cg1425009 9 | -5.30 | 0.23 | 0.102 | 0.066 | 0.040 | 0.050 | 0.048 | 0.017 |
| cg1810700 0 | -5.30 | 0.49 | 0.011 | -0.032 | 0.041 | - | - | - |
| cg1430150 9 | -5.26 | 0.31 | -0.081 | 0.040 | 0.054 | 0.035 | - | 0.066 |
| cg0214679 8 | -5.24 | 0.76 | 0.087 | 0.135 | 0.167 | 0.026 | 0.115 | 0.121 |

Supplementary Table 2. M values of CpG sites in the *RASA2* gene and their associations with processing speed and PAOFI total and subscale scores (n=102)

| CpG Sites | M-value | | PS [#] (r) | PAOFI [§] (r) | | | | |
|----------------|-----------|----------|------------------------|------------------------|--------|------------|------------|------------|
| | Mean | SD | | Total | SM | MEM | LC | HCIF |
| cg2097900 3 | - 4.58 | 0.3 5 | 0.130 | 0.148 | 0.193 | 0.081 | 0.079 | 0.047 |
| cg0918978 0 | - 4.28 | 0.5 1 | - 0.121 | - 0.051 | -0.126 | - 0.038 | - 0.008 | - 0.051 |
| cg2596787 2 | - 3.96 | 0.2 9 | 0.046 | - 0.139 | -0.121 | - 0.112 | - 0.144 | - 0.100 |
| cg2676455 5 | - 2.56 | 0.4 1 | 0.066 | 0.052 | 0.001 | 0.044 | 0.028 | 0.057 |
| cg1437228 1 | - 2.33 | 0.6 1 | - 0.164 | 0.015 | -0.096 | 0.077 | 0.057 | - 0.010 |
| cg2169516 7 | - 0.12 | 0.3 6 | 0.011 | - 0.093 | 0.084 | - 0.129 | - 0.139 | - 0.035 |
| cg1587010 9 | - 0.01 | 0.1 8 | - 0.096 | 0.128 | -0.072 | 0.124 | 0.201 * | 0.148 |
| cg1075785 2 | 1.04 | 0.4 5 | 0.034 | - 0.069 | -0.164 | - 0.019 | - 0.038 | - 0.119 |
| cg1734367 1 | 2.48 | 0.5 5 | - 0.072 | - 0.070 | -0.111 | - 0.069 | - 0.014 | - 0.037 |

Supplementary Table 2. M values of CpG sites in the *RASA2* gene and their associations with processing speed and PAOFI total and subscale scores (n=102)

| CpG Sites | M-value | | PS [‡] (r) | PAOFI [§] (r) | | | | |
|----------------|---------|----------|------------------------|------------------------|-------------|------------|------------|------------|
| | Mean | SD | | Total | SM | MEM | LC | HCIF |
| cg1530301 2 | 2.50 | 0.4 3 | 0.070 | - 0.033 | 0.041 | - 0.077 | - 0.012 | - 0.028 |
| cg0787247 5 | 2.55 | 0.7 8 | - 0.056 | - 0.078 | -0.111 | - 0.119 | 0.014 | 0.062 0 |
| cg1650852 2 | 2.57 | 0.2 7 | 0.008 | - 0.080 | -0.120 | - 0.027 | - 0.046 | - 0.095 |
| cg1115698 8 | 2.61 | 0.6 2 | - 0.129 | - 0.071 | -0.133 | - 0.105 | 0.009 | 0.064 |
| cg2522171 9 | 2.63 | 0.2 5 | 0.065 | - 0.203 * | -0.174 | - 0.192 | - 0.146 | - 0.141 |
| cg2211298 8 | 2.86 | 0.2 4 | 0.048 | 0.106 | -0.069 | 0.152 | 0.129 | 0.089 |
| cg0078979 3 | 2.87 | 0.5 0 | - 0.017 | - 0.043 | -0.078 | - 0.071 | 0.037 | 0.037 |
| cg1225424 8 | 3.18 | 0.4 2 | - 0.166 | - 0.111 | - 0.232* | - 0.063 | - 0.014 | - 0.010 |

Supplementary Table 2. M values of CpG sites in the *RASA2* gene and their associations with processing speed and PAOFI total and subscale scores (n=102)

| CpG Sites | M-value | | PS [‡] (r) | PAOFI [§] (r) | | | | |
|----------------|---------|----------|------------------------|------------------------|-------------|-----------------|------------|-----------------|
| | Mean | SD | | Total | SM | MEM | LC | HCIF |
| cg0354673 8 | 3.24 | 0.2 5 | - 0.074 | - 0.144 | -0.066 | - 0.164 | - 0.097 | - 0.140 |
| cg0056789 2 | 3.25 | 0.2 3 | 0.022 | - 0.244 * | - 0.209* | - 0.226 * | - 0.190 | - 0.224 * |
| cg1189707 5 | 3.29 | 0.3 9 | - 0.155 | - 0.041 | -0.153 | - 0.032 | 0.028 | 0.060 |
| cg2556405 9 | 3.30 | 0.3 8 | - 0.107 | - 0.131 | -0.120 | - 0.137 | - 0.068 | - 0.032 |
| cg0350876 7 | 3.34 | 0.3 7 | - 0.131 | - 0.069 | -0.131 | - 0.054 | - 0.022 | 0.018 |
| cg0347970 6 | 3.36 | 0.3 2 | 0.033 | 0.028 | -0.102 | 0.014 | 0.104 | 0.101 |
| cg2149236 5 | 3.47 | 0.2 6 | 0.054 | - 0.062 | - 0.201* | 0.021 | 0.019 | - 0.038 |
| cg0801740 0 | 3.48 | 0.2 2 | 0.034 | - 0.098 | -0.125 | - 0.082 | - 0.058 | - 0.078 |

Supplementary Table 2. M values of CpG sites in the *RASA2* gene and their associations with processing speed and PAOFI total and subscale scores (n=102)

| CpG Sites | M-value | | PS [†] (r) | PAOFI [§] (r) | | | | |
|----------------|---------|----------|------------------------|------------------------|--------|------------|------------|------------|
| | Mean | SD | | Total | SM | MEM | LC | HCIF |
| cg2486861 1 | 3.54 | 0.4 2 | - 0.073 | - 0.072 | -0.120 | - 0.117 | 0.027 | 0.087 |
| cg2742772 4 | 3.57 | 0.2 4 | 0.174 | - 0.153 | -0.151 | - 0.094 | - 0.147 | - 0.143 |
| cg2157680 9 | 3.60 | 0.2 4 | - 0.073 | - 0.070 | -0.169 | - 0.068 | 0.044 | - 0.023 |
| cg2261739 4 | 3.76 | 0.2 3 | - 0.038 | - 0.179 | -0.193 | - 0.180 | - 0.152 | - 0.059 |

PS, Processing Speed Composite Score; PAOFI, Patient's Assessment of Own Functioning Inventory; SM, Sensorimotor; MEM, Memory; LC, Language and Communication; HCIF, Higher Level Cognitive and Intellectual Functions.

*. Correlation is significant at the 0.05 level (two-tailed).

For correlation analysis, transformed variables were used.

r. Pearson correlation

†. Reflected and Log transformed based on 10

‡. Reflected and Squared root transformed

§. Squared root transformed