

Supplementary Table I. Model fitting results for the additive model of rs174575 and rs1535, adjusted for maternal education and sex.

| | | | rs174575 | | | | | rs1535 | | | | |
|-------|----------------------------|----|-----------|------|----------------|-----|--------|-----------|------|----------------|-----|-------|
| | Model | vs | -2LL | df | X ² | Δdf | p | -2LL | df | X ² | Δdf | p |
| IQ | 1. Full model | | 22075.891 | 2818 | | | | 22176.344 | 2831 | | | |
| | 2. Equal β's BF across age | 1 | 22082.093 | 2830 | 6.202 | 12 | 0.906 | 22186.431 | 2843 | 10.087 | 12 | 0.608 |
| | 3. Drop β SNP*BF | 2 | 22082.131 | 2831 | 0.038 | 1 | 0.845 | 22189.110 | 2844 | 2.679 | 1 | 0.102 |
| | 4. Drop β SNP | 3 | 22083.582 | 2832 | 1.451 | 1 | 0.228 | 22189.577 | 2845 | 0.467 | 1 | 0.494 |
| EA | 1. Full model | | 12547.841 | 1842 | | | | 12571.455 | 1844 | | | |
| | 2. Drop β SNP*BF | 1 | 12547.841 | 1843 | 0.000 | 1 | 0.626 | 12571.552 | 1845 | 0.097 | 1 | 0.755 |
| | 3. Drop β SNP | 2 | 12548.078 | 1844 | 0.237 | 1 | <0.001 | 12572.235 | 1846 | 0.683 | 1 | 0.409 |
| OA/AP | 1. Full model | | 22086.988 | 9612 | | | | 22135.234 | 9628 | | | |
| | 2. Drop β SNP*BF age 3 | 1 | 22089.555 | 9613 | 2.567 | 1 | 0.109 | 22135.900 | 9629 | 0.665 | 1 | 0.415 |
| | 3. Drop β SNP*BF age 7 | 2 | 22089.676 | 9614 | 0.121 | 1 | 0.728 | 22136.387 | 9630 | 0.487 | 1 | 0.485 |
| | 4. Drop β SNP*BF age 10 | 3 | 22090.060 | 9615 | 0.384 | 1 | 0.535 | 22139.061 | 9631 | 2.674 | 1 | 0.102 |
| | 5. Drop β SNP*BF age 12 | 4 | 22091.160 | 9616 | 1.100 | 1 | 0.294 | 22139.157 | 9632 | 0.096 | 1 | 0.757 |
| | 6. Equal β SNP across age | 5 | 22096.625 | 9619 | 5.465 | 3 | 0.141 | 22146.332 | 9635 | 7.175 | 3 | 0.067 |
| | 7. Drop β SNP | 6 | 22097.893 | 9620 | 1.268 | 1 | 0.260 | 22147.393 | 9636 | 1.061 | 1 | 0.303 |

EA=educational attainment, OA=overactive behavior, AP=attention problems