### Table S3. SNPs associated with FT4

| SNP      | chr | effect_allele | other_allele | P-value    | beta (β)   | se      | EAF | r²        | F.statistic |
|----------|-----|---------------|--------------|------------|------------|---------|-----|-----------|-------------|
| rs10119187 | 9   | T             | C            | 4.11E-09   | -2.05E-05  | 0.0085  | 0.8118 | 0.026333511 | 111.0136653 |
| rs10759944 | 9   | A             | G            | 1.37E-29   | 3.27E-05   | 0.0068  | 0.2157 | -0.050883435 | 198.7466268 |
| rs10986291 | 9   | A             | T            | 2.06E-11   | 4.87E-05   | 0.0069  | 0.7152 | 0.030086878 | 127.3274906 |
| rs11626434 | 14  | C             | G            | 4.08E-17   | 3.17E-05   | 0.0069  | 0.3741 | 0.038038815 | 162.310764  |
| rs182416191 | 4   | A             | C            | 4.81E-24   | 5.05E-05   | 0.0114  | 0.03617 | 0.046649285 | 192.8774133 |
| rs2235544  | 1   | A             | C            | 4.20E-101  | -7.84E-05  | 0.0065  | 0.4432 | 0.095694568 | 434.3603082 |
| rs4842131  | 9   | T             | C            | 7.68E-44   | 2.00E-07   | 0.0075  | 0.5023 | -0.065179404 | 228.4362396 |
| rs4899764  | 14  | T             | G            | 5.41E-15   | 0.000120168 | 0.0068  | 0.3191 | -0.035291459 | 139.9216372 |
| rs56340915 | 3   | A             | G            | 2.71E-10   | 5.53E-05   | 0.01    | 0.90201 | 0.028416846 | 120.0532159 |
| rs6471863  | 8   | A             | G            | 1.09E-10   | 2.62E-07   | 0.0095  | 0.3288 | -0.028963918 | 115.5407153 |
| rs78677597 | 6   | A             | C            | 4.88E-19   | -4.22E-05  | 0.0082  | 0.8837 | -0.040295011 | 158.9810441 |
| rs9356998  | 6   | A             | G            | 3.56E-12   | -5.84E-06  | 0.0073  | 0.3901 | -0.031459675 | 125.1929515 |