**S8 Table. Association of the rs1440581 variant at the *PPM1K* locus with metabolites in the study by Shin et al. (Pubmed ID: 24816252).** Only metabolites significantly associated after correction for multiple testing are reported.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **SNP** | **Effect allele** | **Other allele** | **Beta** | **SE** | **P-value** | **Metabolite** | **PMID** |
| rs1440581 | c | t | 0.0081 | 0.0015 | 1.14E-07 | isoleucine | 24816252 |
| 0.0081 | 0.0009 | 1.44E-19 | leucine | 24816252 |
| 0.0081 | 0.0012 | 2.56E-12 | valine | 24816252 |
| 0.014 | 0.0017 | 1.21E-16 | 3-methyl-2-oxovalerate | 24816252 |
| 0.0122 | 0.0021 | 6.55E-09 | 3-methyl-2-oxobutyrate | 24816252 |
| 0.0141 | 0.0022 | 2.43E-10 | 4-methyl-2-oxopentanoate | 24816252 |
| -0.0074 | 0.0017 | 2.43E-05 | 2-aminobutyrate | 24816252; 8069781 |
| 0.0166 | 0.0036 | 2.89E-06 | alpha-hydroxyisovalerate | 24816252 |

Abbreviations: SNP, single nucleotide polymorphism; SE, standard error; PMID, PubMed manuscript number. Beta coefficients are in log-10 transformed raw units.