

S12 Table BMI association chi-squared general linear model coefficients for all eQTL types with the four Roadmap functional affiliations. Enhancer and Promoter affiliations were assigned by Roadmap in the corresponding tissues.

| | annotation | β | β (95% low) | β (95% high) | <i>p</i> |
|------------------|-----------------|----------|-------------------|--------------------|----------|
| | Strong_Enhancer | 0.0061 | -0.093 | 0.11 | 0.91 |
| | Weak_Enhancer | -0.072 | -0.16 | 0.013 | 0.14 |
| | Active_Promoter | 4.38E-05 | -0.11 | 0.11 | 1.00 |
| | Weak_Promoter | -0.069 | -0.20 | 0.064 | 0.36 |
| Adipose eQTL | Active_Promoter | -0.019 | -0.52 | 0.48 | 0.95 |
| | Weak_Promoter | -0.072 | -0.38 | 0.24 | 0.68 |
| | Strong_Enhancer | 0.024 | -0.22 | 0.27 | 0.87 |
| | Weak_Enhancer | -0.11 | -0.44 | 0.22 | 0.57 |
| Epidermal eQTL | Active_Promoter | -0.17 | -0.59 | 0.25 | 0.49 |
| | Weak_Promoter | 0.12 | -0.26 | 0.51 | 0.58 |
| | Strong_Enhancer | -0.0027 | -0.32 | 0.31 | 0.99 |
| | Weak_Enhancer | 0.12 | -0.23 | 0.47 | 0.56 |
| LCL eQTL | Active_Promoter | -0.0088 | -0.32 | 0.31 | 0.96 |
| | Weak_Promoter | -0.25 | -0.67 | 0.17 | 0.30 |
| | Strong_Enhancer | -0.17 | -0.45 | 0.11 | 0.29 |
| | Weak_Enhancer | -0.023 | -0.32 | 0.28 | 0.89 |
| Whole blood eQTL | Active_Promoter | -0.12 | -1.13 | 0.90 | 0.84 |
| | Weak_Promoter | -0.026 | -0.42 | 0.37 | 0.91 |
| | Strong_Enhancer | -0.085 | -0.54 | 0.37 | 0.74 |
| | Weak_Enhancer | 0.029 | -0.50 | 0.56 | 0.92 |
| Proximal eQTL | Active_Promoter | -0.067 | -0.31 | 0.18 | 0.63 |
| | Weak_Promoter | 0.17 | -0.15 | 0.50 | 0.35 |
| | Strong_Enhancer | -0.015 | -0.28 | 0.25 | 0.92 |
| | Weak_Enhancer | 0.0041 | -0.25 | 0.26 | 0.98 |
| Distal eQTL | Active_Promoter | 0.02 | -0.40 | 0.44 | 0.93 |
| | Weak_Promoter | -0.44 | -0.93 | 0.058 | 0.12 |
| | Strong_Enhancer | 0.032 | -0.23 | 0.30 | 0.83 |
| | Weak_Enhancer | -0.27 | -0.53 | -0.0027 | 0.077 |
| All eQTL | Active_Promoter | -0.10 | -0.33 | 0.13 | 0.43 |
| | Weak_Promoter | -0.038 | -0.33 | 0.26 | 0.82 |
| | Strong_Enhancer | -0.038 | -0.25 | 0.17 | 0.75 |
| | Weak_Enhancer | -0.14 | -0.34 | 0.056 | 0.21 |