06 Oct 2016

***TNFAIP3* Haplotype cis-eQTL Analyses for TNFAIP3/Protein Levels**

**Summary statistics**

Protein

TNFAIP3/Protein Box-Cox Log

SpA average 137.99 2.975 1.949

SpA stdev 132.33 0.397 0.413

Control average 254.94 3.198 2.190

Control stdev 257.77 0.381 0.443

All average 180.92 3.057 2.037

All stdev 195.12 0.403 0.437

Haplotype Carriers

Hap1 Hap2 Hap3 Hap4

SpA 25 25 9 3

Controls 15 9 7 2

Chromosomes

Hap1 Hap2 Hap3 Hap4

SpA 32 30 9 3

Controls 19 9 8 2

Homozygous

Hap1 Hap2 Hap3 Hap4

SpA 7 5 0 0

Controls 4 0 1 0

Heterozygous

Hap1 Hap2 Hap3 Hap4

SpA 18 20 9 3

Controls 11 9 6 2

**eQTL analyses**

All samples

H1 carriers vs. non-carriers; test of mean differences

TNFAIP3/Protein permuted p-value = 0.5665

Box-Cox permuted p-value = 0.494

Log-transform permuted p-value = 0.5079

All samples

H2 carriers vs. non-carriers; test of mean differences

TNFAIP3/Protein permuted p-value = 0.4408

Box-Cox permuted p-value = 0.2929

Log-transform permuted p-value = 0.3144

All samples

H3 carriers vs. non-carriers; test of mean differences

TNFAIP3/Protein permuted p-value = 0.5042

Box-Cox permuted p-value = 0.3042

Log-transform permuted p-value = 0.3549

All Samples

H1 dosage; regression

TNFAIP3/Protein permuted p-value = 0.2332

Box-Cox permuted p-value = 0.2179

Log-transform permuted p-value = 0.207

All Samples

H2 dosage; regression

TNFAIP3/Protein permuted p-value = 0.3369

Box-Cox permuted p-value = 0.1927

Log-transform permuted p-value = 0.2128

All Samples

H3 dosage; regression

TNFAIP3/Protein permuted p-value = 0.6544

Box-Cox permuted p-value = 0.4386

Log-transform permuted p-value = 0.5002