

Table S13 GO term enrichment for molecular function in the North American cline for genes that overlap windows in the top 1% tail of Fst.

| 1 % Tail Molecular Function | | |
|-----------------------------|----------|--|
| GO term | q-value | description |
| GO:0003700 | 3.80E-07 | transcription factor activity |
| GO:0043565 | 2.48E-05 | sequence-specific DNA binding |
| GO:0003704 | 5.27E-05 | specific RNA polymerase II transcription factor activity |
| GO:0004672 | 2.96E-04 | protein kinase activity |
| GO:0005515 | 5.34E-04 | protein binding |
| GO:0000166 | 5.34E-04 | nucleotide binding |
| GO:0019992 | 2.01E-03 | diacylglycerol binding |
| GO:0016563 | 3.32E-03 | transcription activator activity |
| GO:0004674 | 7.09E-03 | protein serine/threonine kinase activity |
| GO:0003702 | 7.18E-03 | RNA polymerase II transcription factor activity |
| GO:0004725 | 7.68E-03 | protein tyrosine phosphatase activity |
| GO:0008188 | 7.68E-03 | neuropeptide receptor activity |
| GO:0008270 | 1.08E-02 | zinc ion binding |
| GO:0005509 | 1.64E-02 | calcium ion binding |
| GO:0042803 | 1.89E-02 | protein homodimerization activity |
| GO:0003729 | 1.89E-02 | mRNA binding |
| GO:0004713 | 2.04E-02 | protein tyrosine kinase activity |
| GO:0003677 | 2.07E-02 | DNA binding |
| GO:0003779 | 2.20E-02 | actin binding |
| GO:0003774 | 2.55E-02 | motor activity |
| GO:0008017 | 3.42E-02 | microtubule binding |
| GO:0020037 | 3.96E-02 | heme binding |
| GO:0003723 | 4.02E-02 | RNA binding |
| GO:0042623 | 4.75E-02 | ATPase activity, coupled |
| GO:0004930 | 4.94E-02 | G-protein coupled receptor activity |