Locate motif GANNNNGA from upstream sequences of mir-1 and mir-124 in human and mouse

Locate motif GANNNNGA from sequences 5000 bp upstream and 2000 bp downstream from C.elegans and C.briggsae miRNA start sites

100 C.elegans miRNA upstream sequences
95 C.briggsae miRNA upstream sequences

POCO, Weeder, MEME, Gibbs Motif Sampler

Scan for short, conserved patterns

Significant conserved patterns (Table 1, Figure 2), GANNNNGA found from all of the sequences

Compare the count of motif GANNNNGA in orthologous C.elegans and C.briggsae sequences

High number of motif GANNNNGA in the upstream of mir-1 and mir-124 in both worms (Table 2)

miRBase, UCSC, ensEMBL

Locate motif GANNNNGA from upstream sequences of mir-1 and mir-124 in human and mouse

Conserved distributions of motif GANNNNGA around the miRNAs in the two worms (Figure 3)

Conserved distributions of motif GANNNNGA in the upstream of mir-1 and mir-124 in the four species (Figure 4)