Rfam contains 2588 families, each represented by a

- SEED alignment
- covariance model (CM)
- list of annotated hits in Rfamseq database (8,725,484 total hits)

If you submit a family to Rfam, these tools become available to the community, allowing it to be annotated in genomes and other datasets.

Rfam also includes community annotation of families (wikipedia), RNA motifs, secondary structure diagrams, alignment statistics, taxonomic information, and sequence search capability.

Rfam SEED alignment including consensus structure annotation cmbuild, cmcalibrate covariance model cmsearch Rfamseq (275 Gb, 9M seqs) "homologs"

Types of RNAs in Rfam

9

Intron;

count type 239 Cis-reg; Cis-reg; frameshift-element; 32 Cis-reg; IRES; Cis-reg; leader; 30 31 Cis-reg; riboswitch; Cis-reg; thermoregulator; 10 76 Gene: 29 Gene; antisense; Gene; antitoxin; 64 Gene; CRISPR; 217 Gene; IncRNA; 530 Gene; miRNA; Gene; ribozyme; Gene; rRNA; Gene; snRNA; 463 Gene; snRNA; snoRNA; CD-box; 266 Gene; snRNA; snoRNA; HACA-box; Gene; snRNA; snoRNA; scaRNA; Gene; snRNA; splicing; Gene; sRNA; 471 Gene; tRNA;