

Rfam contains 2588 families, each represented by a

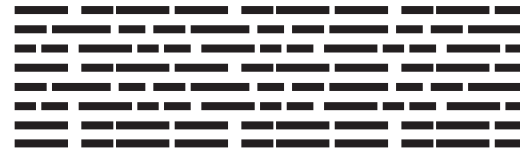
- SEED alignment
- covariance model (CM)
- list of annotated hits in Rfamseq database (8,725,484 total hits)

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.xfam.org](http://rfam.xfam.org)

Rfam SEED alignment including consensus structure annotation



↓ cmbuild,  
cmcalibrate

covariance  
model

↓ cmsearch



↓  
“homologs”

## Types of RNAs in Rfam

| <b>count</b> | <b>type</b>                    |
|--------------|--------------------------------|
| 239          | Cis-reg;                       |
| 28           | Cis-reg; frameshift-element;   |
| 32           | Cis-reg; IRES;                 |
| 30           | Cis-reg; leader;               |
| 31           | Cis-reg; riboswitch;           |
| 10           | Cis-reg; thermoregulator;      |
| 76           | Gene;                          |
| 29           | Gene; antisense;               |
| 11           | Gene; antitoxin;               |
| 64           | Gene; CRISPR;                  |
| 217          | Gene; lncRNA;                  |
| 530          | Gene; miRNA;                   |
| 23           | Gene; ribozyme;                |
| 15           | Gene; rRNA;                    |
| 3            | Gene; snRNA;                   |
| 463          | Gene; snRNA; snoRNA; CD-box;   |
| 266          | Gene; snRNA; snoRNA; HACA-box; |
| 24           | Gene; snRNA; snoRNA; scaRNA;   |
| 15           | Gene; snRNA; splicing;         |
| 471          | Gene; sRNA;                    |
| 2            | Gene; tRNA;                    |
| 9            | Intron;                        |

