RefSeq annotated hypothetical genes

Z-curve method

Is protein coding gene?

No

Delete

Yes

Confirmed hypothetical genes

Re-locate TIS

Refined hypothetical genes

Function prediction

Sequence alignment and function confirmation, BLAST, PDB, PubMed, Swiss-Prot, etc.

Hypothetical genes

Gene expression values, CAI and E(g)

Orthologs of drug targets in DDT, DrugBank, etc.

Database construction

RefSeq annotated functional genes

Re-locate TIS

Refined functional genes