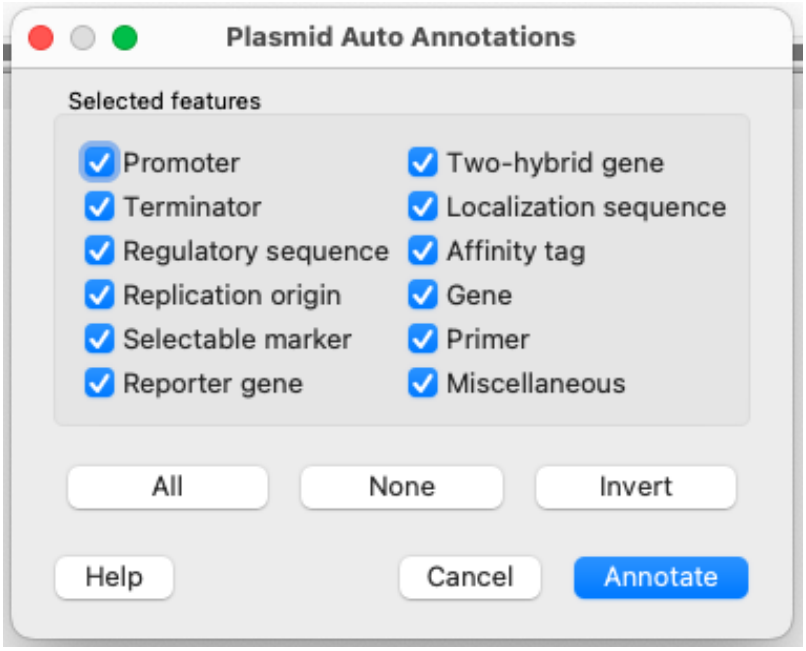
Plasmid Auto Annotation

Plasmid Auto Annotation feature allows to automatically annotate possible functional elements of the given sequence such as promoters, terminators, origin of replication, known genes, common primers and other features. Conceptually this functionality is similar to the one offered by PlasMapper software. The database for plasmid auto-annotation is based on the following resource.

To activate Plasmid Auto Annotation upon your sequence use the menu item *Analyze Annotate plasmid.* In the appeared dialog one can selected the features to search in sequence.



The detected plasmid features are stored as automatic annotations and can be controlled through corresponding menu. Refer *Automatic Annotations Highlighting* to learn more.

Plasmid Auto Annotations consists 471 carefully selected and annotated plasmid features broken down into 12 feature categories. These are shown in the followind table:

Type of feature	Number of features
Promoter	50
Terminator	29
Regulatory sequence	65
Replication origin	12
Selectable marker	26
Reporter gene	40
Two-hybrid gene	12
Localization sequence	15
Affinity tag	21
Gene	7
Primer	77
Miscellaneous	117
Total	471

This features database has been created by combining the original FASTA formatted PlasMapper 2.0 feature database (which had 336 features) with AddGene's sequence feature database followed by extensive manual editing, duplicate removal, validating and cleaning.