Biological Sequences

Sequence

Sequence	
PK	sequence_id
	sequence define moltype length division tech topology repr version taxonid timestamp

Bioid_Sequence	
PK	bioid_sequence_id
FK1	bioid_id
FK2	sequence_id

BioID_type	
PK	bioid_type_id
	type description db_source

Location	
PK	location_id
FK1	feature_id start stop strand rank
FK2	ontology_id

Feature	
PK	feature_id
FK1	ontology_id
FK2	bioid_id

Qualifier	
PK	qualifier_id
FK1	feature_id value
FK2	ontology_id

Bioid	
PK	bioid_id
	id_string
FK1	bioid_type_id

Blobfile	
PK	blobfile_id
FK1	bioid_id blob_file ontology_id timestamp
FK2	load_stat_id

Feature_Feature	
PK	feature_feature_id
FK1,I1	feature_id1
FK2,I2	feature_id2
FK3,I3	ontology_id

Ontology_type	
PK	idbterm_type_id
	ontology_type description

Load_stat	
PK	load_stat_id
	total_seconds filename records timestamp

Comment	
PK	comment_id
FK1	bioid_id text rank

Bioid_Bioid	
PK	bioid_bioid_id
FK2	bioid_id1
FK1	bioid_id2
FK3	ontology_id

Ontology	
PK	ontology_id
FK1	ontology_type_id term description atlas_id external_id

Ontology_Ontology	
PK	ontology_ontology_id
FK1	ontology_id1
FK2	ontology_id2
	description
FK3	ontology_id

Ontology

Taxonomy

Taxon_name	
PK	taxon_name_id
FK1	taxon_node_id taxonid name unique_name name_class

Taxon_node	
PK	taxon_node_id
	taxonid parent_taxid rank embl_code inherited_div_flag mit_genetic_code_id inherited_MGC_flag GB_hidden_flag hidden_subtree_flag comments
FK1	genetic_code_id
FK2	division_id

Genetic_code	
PK	genetic_code_id
	abbreviation name cde start

Division	
PK	division_id
	division_cde division_name comments

Ontology

Ontology_Ontology	
PK	ontology_ontology_id
FK1	ontology_id1
FK2	ontology_id2
	description
FK3	ontology_id

Ontology	
PK	ontology_id
FK1	ontology_type_id term description atlas_id external_id

Ontology_type	
PK	ontology_type_id
	ontology_type description

Gene Ontology

graph_path	
PK	id
FK1	term1_id
FK2	term2_id distance

term_synonym	
PK,FK1	term_id
	term_synonym acc_synonym
FK2	synonym_type_id

term2term	
PK	id
FK1	relationship_type_id
FK2	term1_id
FK3	term2_id

term	
PK	id
	name term_type acc is_obsolete is_root

term_definition	
PK,FK1	term_id
FK2	term_definition dbxref_id term_comment reference

term_dbxref	
PK,FK1	term_id
FK2	dbxref_id is_for_definition

dbxref	
PK	id
	xref_key xref_keytype xref_dbname xref_desc

Molecular Interactions

Organism	
PK	organism_id
	shortlabel fullname taxonid

Experiment_Organism_Compartment	
PK	experiment_organism_compartment_id
FK1	compartment_id
FK2	experiment_organism_id

Experiment_Organism_Celltype	
PK	experiment_organism_celltype_id
FK1	celltype_id
FK2	experiment_organism_id

Experiment_Organism	
PK	experiment_organism_id
FK2	experiment_id
FK1	organism_id

Experiment_Organism_Tissue	
PK	experiment_organism_tissue_id
FK1	tissue_id
FK2	experiment_organism_id

Tissue	
PK	tissue_id
FK1	dbxref_id tissue xref_value

Interactor_Compartment	
PK,FK1,I1	compartment_id
PK,FK2	interactor_id

Compartment	
PK	compartment_id
FK1	dbxref_id compartment xref_value

Dbxref	
PK	dbxref_id
	id_type db_source

Attribute	
PK	attribute_id
	name value
FK1	experiment_id

Interaction_Dbxref	
PK,FK1	interaction_id
PK	interaction_dbxref_id
PK,FK2	dbxref_id
	value

Interaction_Experiment	
PK	interaction_experiment_id
PK,FK1	interaction_id
PK,FK2	experiment_id

Celltype	
PK	celltype_id
FK1	dbxref_id celltype xref_value

Interactor_Celltype	
PK,FK1,I1	celltype_id
PK,FK2,I3,I2	interactor_id

Interactor_Tissue	
PK,FK1,I1	tissue_id
PK,FK2,I3,I2	interactor_id

Experiment	
PK	experiment_id
	shortlabel fullname confidence_value confidence_unit description

Interaction	
PK	interaction_id
FK1	interaction_type_id shortlabel fullname confidence_value confidence_unit description

Interactor_Interaction	
PK	interactor_interaction_id
FK1,I1	interaction_id
FK2,I3,I2	interactor_id
	role istagged isoverexpressed confidence_value confidence_unit

Interactor	
PK	interactor_id
FK1	organism_id shortlabel fullname sequence moltype

Experiment_Dbxref	
PK,FK1,I1	experiment_id
PK,FK2	dbxref_id
PK	exrperiment_dbxref_id
	value

Experiment_Detection	
PK,FK2,I1	experiment_id
PK,FK1	detection_id
PK	experiment_detection_id
	detection_type

Interactor_Dbxref	
PK	interactor_dbxref_id
FK1,I5,I3	dbxref_id
FK2	interactor_id value

Location	
PK	location_id
FK1	feature_id begin begininterval ends endinterval position postioninterval site

Feature	
PK	feature_id
	shortlabel fullname
FK1	interactor_interaction_id

Feature_Dbxref	
PK	feature_dbxref_id
FK1	dbxref_id
FK2	feature_id value

Interaction_type	
PK	interaction_type_id
	description interaction_type

Detection_Dbxref	
PK,FK1	detection_id
PK,FK2	dbxref_id
PK	detection_dbxref_id
	value

Feature_Detection	
PK	feature_detection_d
PK,FK1	feature_id
PK,FK2	detection_id

Detection	
PK	detection_id
	shortlabel fullname description

Gene Related Resources

Gene_history	
PK	gene_history_id
	geneid discontinued_geneid discontinued_symbol

Gene2pmid	
PK	gene2pmid_id
FK2	geneid pmid

Entrez Gene

Gene2unigene	
PK	gene2unigene_id
FK1	geneid unigene_cluster

Gene_synonym	
PK	gene_synonym_id
FK1	geneid synonym

gene2mim	
PK	gene2mim_id
FK1	geneid mimid

Gene	
PK	geneid
	taxonid symbol locustag chromosome map_location description gene_type

Gene_dbxref	
PK	gene_dbxref_id
FK1	geneid database_source id_value

Omim

Omim	
PK	omim_id
	month_entered day_entered year_entered location space1 comments space2

Gene2accession	
PK	gene2accession_id
FK1	geneid status rna_accession rna_gi protein_accession protein_gi genomic_accession genomic_gi genomic_start genomic_end orientation

Homologene

Homologene	
PK	homologene_id
	HID taxonid gene_id gene_symbol protein_gi protein_accession

generif_pmid	
PK	generif_pmid_id
FK1	gnenrif_id pmid

Generif	
PK	gnenrif_id
FK1	geneid last_update description