	s of modeled organism, a model's complexity or types of identifiers that are used to describe in
components. Parameterization or initialization o	of the network is not required. See readme for more details.
0	
Consistency	
Stoichiometric Consistency	100.0%
Mass Balance	99.2%
Charge Balance	99.2%
Metabolite Connectivity	100.0%
Unbounded Flux In Default Medium	96.0%
Sub Total	99%
Annotation - Metabolites	
Amotation Metabolites	
Presence of Metabolite Annotation	100.0%
Metabolite Annotations Per Database	Info
pubchem.compound	0.0%
kegg.compound	78.5%
seed.compound	87.9%
inchikey	78.4%
inchi	0.0%
chebi	81.2%
hmdb	61.7%
reactome	47.4%
metanetx.chemical	97.0%
bigg.metabolite	99.6%
biocyc	80.3%
Metabolite Annotation Conformity Per Data	
pubchem.compound	0.0%
kegg.compound	100.0%
seed.compound	100.0%
inchikey	100.0%
inchi	0.0%
chebi	100.0%
hmdb reactome	100.0%
metanetx.chemical	100.0%
bigg.metabolite	100.0%
biocyc	100.0%
Uniform Metabolite Identifier Namespace	100.0%
omorni Metabonte identinei Namespace	100.070
Sub Total	87%
Presence of Reaction Annotation	100.0%
Reaction Annotations Per Database	Info
Reaction Annotations Per Database	Info 42.9%
Reaction Annotations Per Database rhea kegg.reaction	Info 42.9% 32.9%
Reaction Annotations Per Database rhea kegg.reaction seed.reaction	Info 42.9% 32.9% 64.1%
Reaction Annotations Per Database rhea kegg.reaction seed.reaction metanetx.reaction	42.9% 32.9% 64.1% 80.5% 84.6%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code	10 d 2.9% 32.9% 64.1% 80.5% 84.6% 12.6%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda	100
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc	lnfo 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa	10 lnfo 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% Info
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa	10 lnfo 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 10 lnfo
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa	10.0% 10.0% 10.0% 10.0% 10.0% 10.0% 10.0% 10.0% 10.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction	10.0% 142.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% Info 98.2% 100.0% 100.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction metanetx.reaction	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% Info 98.2% 100.0% 100.0% 99.9%
rhea kegg.reaction seed.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction	lnfo 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 100.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databar rhea kegg.reaction seed.reaction bigg.reaction reactome ec-code	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 100.0% 99.9%
rhea kegg.reaction seed.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Comparison seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 100.0% 99.9%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databar rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 100.0% 100.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotation Gene Annotation Per Database	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0%
rhea kegg.reaction seed.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0% 99.9%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq uniprot	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Conformity Per Databa rhea kegg.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0% 99.9% 0.0% 99.9% 0.0% 99.9% 100.0% 99.9%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds	Info 42.9% 42.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 0.0% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction metanetx.reaction bigg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0% 100.0% 99.0% 100.0% 99.0% 90.0% 90.0% 90.0% 90.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0% 100.0% 99.0% 100.0% 99.0% 90.0% 90.0% 90.0% 90.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Database rhea kegg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Database rhea kegg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap Gene Annotation Conformity Per Database	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Database rhea kegg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Database rhea kegg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap Gene Annotation Conformity Per Database refseq	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0% 100.0% 100.0% 99.9% 100.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction metanetx.reaction bigg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap Gene Annotation Conformity Per Database refseq uniprot	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction metanetx.reaction bigg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap Gene Annotation Conformity Per Database refseq uniprot ecogene	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 100.0% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0%
kegg.reaction seed.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Databa rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap Gene Annotation Conformity Per Database refseq uniprot ecogene kegg.genes	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 100.0% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0% 100.
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Database rhea kegg.reaction metanetx.reaction bigg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap Gene Annotation Conformity Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap Gene Annotation Conformity Per Database refseq uniprot ecogene kegg.genes ncbigi	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 0.0% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Database rhea kegg.reaction metanetx.reaction bigg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap Gene Annotation Conformity Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap Gene Annotation Conformity Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigenes ncbigi	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 0.0% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Database rhea kegg.reaction metanetx.reaction bigg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap Gene Annotation Conformity Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap Gene Annotation Conformity Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein	Info 42.9% 32.9% 64.1% 80.5% 94.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 100.0% 99.9% 100.0%
rhea kegg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Reaction Annotation Conformity Per Database rhea kegg.reaction metanetx.reaction bigg.reaction seed.reaction metanetx.reaction bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap Gene Annotation Conformity Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap Gene Annotation Conformity Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds	Info 42.9% 32.9% 64.1% 80.5% 84.6% 12.6% 44.7% 0.0% 42.2% 100.0% 100.0% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0% 99.9% 100.0%

Annotation - SBO Terms

		details.
s	BML	
_	BML Level and Version BC enabled	Errored
-	st enabled	Errored
В	asic Information	
N	lodel Identifier	default_n odel
	otal Metabolites	1,161
	otal Reactions	1,385
	otal Genes otal Compartments	638
	letabolic Coverage	2.17
U	ncoserved Metabolites	0
M	linimal Inconsistent Net Stoichiometries	Skipped
٨	Metabolite Information	
U	nique Metabolites	747
	uplicate Metabolites in Identical Compartments	0
	letabolites without Charge	0
	letabolites without Formula ledium Components	55
R	leaction Information	
	urely Metabolic Reactions	757 1
	urely Metabolic Reactions with Constraints ransport Reactions	420
	ransport Reactions with Constraints	3
	eactions With Partially Identical Annotations	0.08
	uplicate Reactions eactions With Identical Genes	0.00
K	eactions with Identical Genes	0.37
G	ene-Protein-Reaction (GPR) Associations	
R	eactions without GPR	303
	raction of Transport Reactions without GPR	0.62
Е	nzyme Complexes	135
В	iomass	
В	iomass Reactions Identified	1
	iomass Consistency	1.00
	iomass Production In Default Medium nrealistic Growth Rate In Default Medium	1.04 false
	iomass Production In Complete Medium	80.94
В	locked Biomass Precursors In Default Medium	1
В	locked Biomass Precursors In Complete Medium	1
	atio of Direct Metabolites in Biomass Reaction umber of Missing Essential Biomass Precursors	0.15
	univer of Missing Essential Diolitass Frecuisors	'
E	nergy Metabolism	
	on-Growth Associated Maintenance Reaction	1
	rowth-associated Maintenance in Biomass Reaction umber of Reversible Oxygen-Containing Reactions	true 3
	rroneous Energy-generating Cycles	Inf
	MNXM3	Skipped
	MNXM63	GI: I
	MNXM51	Skipped
	1000	Skipped
	MNXM121 MNXM423	Skipped Skipped
	MNXM121 MNXM423 MNXM6	Skipped
	MNXM423	Skipped Skipped Skipped
	MNXM423 MNXM6 MNXM10 MNXM38	Skipped Skipped Skipped Skipped Skipped
	MNXM423 MNXM6 MNXM10	Skipped Skipped Skipped Skipped Skipped Skipped
	MNXM423 MNXM6 MNXM10 MNXM38 MNXM208	Skipped Skipped Skipped Skipped Skipped
	MNXM423 MNXM6 MNXM10 MNXM38 MNXM208 MNXM191	Skipped Skipped Skipped Skipped Skipped Skipped Skipped Skipped
	MNXM423 MNXM6 MNXM10 MNXM38 MNXM208 MNXM191 MNXM223 MNXM7517 MNXM12233	Skipped Skipped Skipped Skipped Skipped Skipped Skipped Skipped Skipped Skipped
	MNXM423 MNXM6 MNXM10 MNXM38 MNXM208 MNXM191 MNXM523 MNXM7517 MNXM12233 MNXM7517	Skipped Skipped Skipped Skipped Skipped Skipped Skipped Skipped Skipped Skipped
	MNXM423 MNXM6 MNXM10 MNXM38 MNXM208 MNXM191 MNXM223 MNXM7517 MNXM12233	Skipped
	MNXM423 MNXM6 MNXM10 MNXM38 MNXM208 MNXM191 MNXM223 MNXM7517 MNXM558 MNXM558 MNXM21 MNXM2557	Skipped Skipped Skipped Skipped Skipped Skipped Skipped Skipped Skipped Skipped
	MNXM423 MNXM6 MNXM10 MNXM38 MNXM208 MNXM191 MNXM23 MNXM7517 MNXM12233 MNXM7517 MNXM12233 MNXM558 MNXM558 MNXM558 MNXM558 MNXM558 MNXM21 MNXM89557	Skipped
U	MNXM423 MNXM6 MNXM10 MNXM38 MNXM208 MNXM191 MNXM23 MNXM7517 MNXM1223 MNXM7517 MNXM12233 MNXM558 MNXM558 MNXM558 MNXM558 MNXM21 MNXM89557 Letwork Topology Inversally Blocked Reactions	Skipped
0	MNXM423 MNXM6 MNXM10 MNXM38 MNXM208 MNXM191 MNXM23 MNXM7517 MNXM12233 MNXM7517 MNXM12233 MNXM558 MNXM558 MNXM558 MNXM558 MNXM558 MNXM21 MNXM89557	Skipped
U O D	MNXM423 MNXM6 MNXM10 MNXM38 MNXM208 MNXM191 MNXM223 MNXM7517 MNXM12233 MNXM558 MNXM558 MNXM558 MNXM21 MNXM89557 Letwork Topology niversally Blocked Reactions rphan Metabolites	Skipped
U D S	MNXM6 MNXM10 MNXM38 MNXM208 MNXM191 MNXM23 MNXM7517 MNXM1223 MNXM7517 MNXM12233 MNXM558 MNXM558 MNXM558 MNXM558 MNXM21 MNXM21 MNXM284 MNXM21 M	Skipped
U D S	MNXM6 MNXM10 MNXM38 MNXM208 MNXM191 MNXM23 MNXM7517 MNXM12233 MNXM7558 MNXM558 MNXM558 MNXM558 MNXM558 MNXM21 MNXM89557 Letwork Topology niversally Blocked Reactions rphan Metabolites ead-end Metabolites totchiometrically Balanced Cycles	Skipped
U O S N	MNXM6 MNXM10 MNXM38 MNXM208 MNXM191 MNXM23 MNXM7517 MNXM1223 MNXM7517 MNXM12233 MNXM558 MNXM558 MNXM558 MNXM558 MNXM21 MNXM21 MNXM284 MNXM21 M	Skipped
U 0 D S N	MNXM423 MNXM6 MNXM10 MNXM38 MNXM208 MNXM191 MNXM223 MNXM7517 MNXM12233 MNXM558 MNXM558 MNXM21 MNXM89557 Letwork Topology Inversally Blocked Reactions rphan Metabolites totichiometrically Balanced Cycles Letabolite Production In Complete Medium Letabolite Consumption In Complete Medium	Skipped
U O D S N	MNXM423 MNXM6 MNXM10 MNXM38 MNXM208 MNXM191 MNXM223 MNXM7517 MNXM12233 MNXM558 MNXM12 MNXM558 MNXM21 MNXM89557 Letwork Topology Inversally Blocked Reactions rphan Metabolites Lead-end Metabolites Leichiometrically Balanced Cycles Letabolite Production In Complete Medium Letabolite Consumption In Complete Medium Letabolite Consumption In Complete Medium	Skipped
U O D S N N R Ir R	MNXM423 MNXM6 MNXM10 MNXM38 MNXM208 MNXM191 MNXM223 MNXM7517 MNXM12233 MNXM558 MNXM21 MNXM558 MNXM21 MNXM89557 Letwork Topology niversally Blocked Reactions rphan Metabolites toichiometrically Balanced Cycles Letabolite Production In Complete Medium Letabolite Consumption In Complete Medium Letabolite Consumption In Complete Medium Letabolite Consumption Relations ank	Skipped 1234 68 65 30 228 252
U O D S N N R Ir R	MNXM423 MNXM6 MNXM10 MNXM38 MNXM208 MNXM191 MNXM223 MNXM7517 MNXM12233 MNXM558 MNXM21 MNXM89557 Letwork Topology Iniversally Blocked Reactions Inphan Metabolites Loichiometrically Balanced Cycles Letabolite Production In Complete Medium Letabolite Consumption In Complete Medium Le	Skipped 5 Skippe
U O D S N N R Ir R D	MNXM423 MNXM6 MNXM10 MNXM38 MNXM208 MNXM191 MNXM223 MNXM7517 MNXM12233 MNXM558 MNXM21 MNXM558 MNXM21 MNXM89557 Letwork Topology niversally Blocked Reactions rphan Metabolites toichiometrically Balanced Cycles Letabolite Production In Complete Medium Letabolite Consumption In Complete Medium Letabolite Consumption In Complete Medium Letabolite Consumption Relations ank	Skipped 1234 68 65 30 228 252
U O D S N N R IT R D	MNXM423 MNXM6 MNXM10 MNXM38 MNXM208 MNXM191 MNXM223 MNXM7517 MNXM223 MNXM558 MNXM21 MNXM558 MNXM21 MNXM89557 Letwork Topology Iniversally Blocked Reactions Irphan Metabolites Letabolite Production in Complete Medium Letabolite Consumption	Skipped 1234 68 65 30 228 252

Environment

