

Resource Summary Report

Generated by [NIF](#) on Aug 24, 2026

SENTRA: a database of prokaryotic signal transduction proteins

RRID:SCR_007922

Type: Tool

Proper Citation

SENTRA: a database of prokaryotic signal transduction proteins (RRID:SCR_007922)

Resource Information

URL: <http://compbio.mcs.anl.gov/sentra/>

Proper Citation: SENTRA: a database of prokaryotic signal transduction proteins (RRID:SCR_007922)

Description: THIS RESOURCE IS NO LONGER IN SERVICE, documented on July 17, 2013. A database of signal transduction proteins encoded in completely sequenced prokaryotic genomes. Sentra consists of two principal components, a manually curated list of signal transduction proteins in 202 completely sequenced prokaryotic genomes and an automatically generated listing of predicted signaling proteins in 235 sequenced genomes that are awaiting manual curation. In addition to two-component histidine kinases and response regulators, the database now lists manually curated Ser/Thr/Tyr protein kinases and protein phosphatases, as well as adenylate and diguanylate cyclases and c-di-GMP phosphodiesterases, as defined in several recent reviews. All entries in Sentra are extensively annotated with relevant information from public databases (e.g. UniProt, KEGG, PDB and NCBI). Sentra's infrastructure was redesigned to support interactive cross-genome comparisons of signal transduction capabilities of prokaryotic organisms from a taxonomic and phenotypic perspective and in the framework of signal transduction pathways from KEGG. Sentra leverages the PUMA2 system to support interactive analysis and annotation of signal transduction proteins by the users.

Abbreviations: SENTRA

Resource Type: data or information resource, database

Defining Citation: [PMID:17135204](#), [PMID:11752334](#)

Keywords: signal transduction, protein, microbial

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: SENTRA: a database of prokaryotic signal transduction proteins

Resource ID: SCR_007922

Record Creation Time: 20220129T080244+0000

Record Last Update: 20260821T193830+0000

Ratings and Alerts

No rating or validation information has been found for SENTRA: a database of prokaryotic signal transduction proteins.

No alerts have been found for SENTRA: a database of prokaryotic signal transduction proteins.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.