

# Resource Summary Report

Generated by [SPARC SAWG](#) on Jul 28, 2026

## SENTRA: a database of prokaryotic signal transduction proteins

RRID:SCR\_007922

Type: Tool

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### Proper Citation

SENTRA: a database of prokaryotic signal transduction proteins (RRID:SCR\_007922)

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### 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:** database, data or information resource

**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:** 20260725T191153+0000

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## 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.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.