

Resource Summary Report

Generated by SPARC SAWG on Sep 18, 2026

Human-gpDB

RRID:SCR_006223

Type: Tool

Proper Citation

Human-gpDB (RRID:SCR_006223)

Resource Information

URL: http://bioinformatics.biol.uoa.gr/human_gpdb/

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Description: A publicly accessible, relational database of human G-Proteins and their interactions with human GPCRs and Effectors. Advanced data integration techniques make Human-gpDB very rich in context since all of the bioentities are linked to a rich variety of external data sources. High quality visualization methods make the networks more informative and the extraction of information easier. Human-gpDB is currently a very useful tool for drug targeting investigation. The sequences of G-Proteins and GPCRs are classified according to a hierarchy of different classes, families and sub-families, whereas the Effectors sequences are classified in families, subfamilies and types, based on extensive literature search. The classification of GPCRs follows the IUPHAR classification, while the Effectors classification is a unique feature and is based on their function. The database currently holds information about 713 human GPCRs, 36 human G-Proteins and 99 human Effectors. The collection of the information about the interactions between these molecules was done manually and the current status of Human-gpDB reveals information about 1663 connections between GPCRs and G-Proteins and 1618 connections between G-Proteins and Effectors.

Abbreviations: Human-gpDB

Synonyms: Human-gpDB: A database of human GPCRs G-proteins Effectors and their interactions

Resource Type: analysis service resource, data analysis service, data or information resource, database, production service resource, service resource

Defining Citation: [PMID:20689020](#)

Keywords: g-protein coupled receptor, g-protein, effector, interaction, visualization, data integration

Availability: Public

Resource Name: Human-gpDB

Resource ID: SCR_006223

Alternate IDs: nlx_151774

Alternate URLs: http://schneider.embl.de/human_gpdb

Record Creation Time: 20220129T080235+0000

Record Last Update: 20260912T195636+0000

Ratings and Alerts

No rating or validation information has been found for Human-gpDB.

No alerts have been found for Human-gpDB.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Satagopam VP, et al. (2010) GPCRs, G-proteins, effectors and their interactions: human-gpDB, a database employing visualization tools and data integration techniques. Database : the journal of biological databases and curation, 2010, baq019.