

Resource Summary Report

Generated by [NIF](#) on Jul 31, 2026

GPS-SUMO

RRID:SCR_018261

Type: Tool

Proper Citation

GPS-SUMO (RRID:SCR_018261)

Resource Information

URL: <http://sumosp.biocuckoo.org>.

Proper Citation: GPS-SUMO (RRID:SCR_018261)

Description: Web service for prediction of SUMOylation sites and SUMO-interaction motifs in proteins by CUCKOO Workgroup.

Synonyms: Group-based Prediction System -Small Ubiquitin-like MODifiers, Small Ubiquitin-like MODifiers sp, GPS-SUMO 2.0, SUMOsp, GPS Small Ubiquitin-like MODifiers, Group-based Prediction System-SUMO

Resource Type: service resource, data access protocol, software resource, web service, portal, data or information resource

Defining Citation: [PMID:24880689](#)

Keywords: Small ubiquitin like modifier, SUMOs, sumoylation, covalently modified protein, group prediction system, site prediction, interaction motif in protein, bio.tools

Funding: National Natural Science Foundation of China ;
National Basic Research Program ;
Guangdong Natural Science Funds for Distinguished Young Scholar ;
Zhujiang Nova Program of Guangzhou ;
International Science and Technology Cooperation Program of China

Availability: Restricted

Resource Name: GPS-SUMO

Resource ID: SCR_018261

Alternate IDs: biotools:gps-sumo

Alternate URLs: <http://sumosp.biocuckoo.org/online.php>, <https://bio.tools/gps-sumo>

Record Creation Time: 20220129T080339+0000

Record Last Update: 20260731T043020+0000

Ratings and Alerts

No rating or validation information has been found for GPS-SUMO.

No alerts have been found for GPS-SUMO.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Li S, et al. (2024) CpSmt3, an ortholog of small ubiquitin-like modifier, is essential for growth, organelle function, virulence, and antiviral defense in *Cryphonectria parasitica*. *Frontiers in microbiology*, 15, 1391855.

Wu R, et al. (2020) SUMOylation of the transcription factor ZFHX3 at Lys-2806 requires SAE1, UBC9, and PIAS2 and enhances its stability and function in cell proliferation. *The Journal of biological chemistry*, 295(19), 6741.