

Resource Summary Report

Generated by [SPARC SAWG](#) on Sep 14, 2026

GPS-SUMO

RRID:SCR_018261

Type: Tool

Proper Citation

GPS-SUMO (RRID:SCR_018261)

Resource Information

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

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

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

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: 20260912T195859+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 6 mentions in open access literature.

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

Yang Y, et al. (2024) SUMOylation of annexin A6 retards cell migration and tumor growth by suppressing RHOA/AKT1-involved EMT in hepatocellular carcinoma. Cell communication and signaling : CCS, 22(1), 206.

Gulzar RMA, et al. (2024) Glutamate Receptor-like (GLR) Family in Brassica napus: Genome-Wide Identification and Functional Analysis in Resistance to Sclerotinia sclerotiorum. International journal of molecular sciences, 25(11).

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 J, et al. (2024) SUMO E3 ligase MUL1 inhibits lymph node metastasis of bladder cancer by mediating mitochondrial HSPA9 translocation. International journal of biological sciences, 20(10), 3986.

Wu R, et al. (2020) SUMOylation of the transcription factor ZFX3 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.

Zhang Y, et al. (2019) ShORR-1, a Novel Tomato Gene, Confers Enhanced Host Resistance to Oidium neolycopersici. Frontiers in plant science, 10, 1400.