

Resource Summary Report

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GPS

RRID:SCR_016374

Type: Tool

Proper Citation

GPS (RRID:SCR_016374)

Resource Information

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

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Description: Software that detects kinase-specific phosphorylation sites. GPS provides a platform able to perform its prediction based on a group-based phosphorylation scoring algorithm. It allows users to query multiple protein sequences through a batch prediction mode.

Abbreviations: GPS

Synonyms: Group-based Prediction System, GPS: Group-based Prediction System, Group-based Prediction System (GPS)

Resource Type: software resource, algorithm resource

Defining Citation: [PMID:18463090](#)

Keywords: phosphorylate, protein, seq, predictive, substrate, site, kinase, mass spectrometry

Availability: Free for academic use, Request for commercial use, Available for download

Resource Name: GPS

Resource ID: SCR_016374

Record Creation Time: 20220129T080330+0000

Record Last Update: 20260729T044417+0000

Ratings and Alerts

No rating or validation information has been found for GPS.

No alerts have been found for GPS.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 67 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#).

Zhou S, et al. (2025) SPOP-dependent destabilization of SYT12 in a GSK-3 γ -dependent manner in papillary thyroid cancer cells. *Clinical and experimental medicine*, 25(1), 243.

Fang Y, et al. (2025) Calcium signaling-mediated phosphorylation controls zinc allocation in Arabidopsis. *Stress biology*, 5(1), 78.

Tang J, et al. (2024) CDK2-activated TRIM32 phosphorylation and nuclear translocation promotes radioresistance in triple-negative breast cancer. *Journal of advanced research*, 61, 239.

Fu Y, et al. (2024) Systematic HOIP interactome profiling reveals critical roles of linear ubiquitination in tissue homeostasis. *Nature communications*, 15(1), 2974.

Xu C, et al. (2024) TRIM24 Cooperates with Ras Mutation to Drive Glioma Progression through snoRNA Recruitment of PHAX and DNA-PKcs. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 11(29), e2400023.

Faienza F, et al. (2023) AMBRA1 phosphorylation by CDK1 and PLK1 regulates mitotic spindle orientation. *Cellular and molecular life sciences : CMLS*, 80(9), 251.

Hu SY, et al. (2023) Destabilization of microorchidia family CW-type zinc finger 2 via the cyclin-dependent kinase 1-chaperone-mediated autophagy pathway promotes mitotic arrest and enhances cancer cellular sensitivity to microtubule-targeting agents. *Clinical and translational medicine*, 13(3), e1210.

Medley JC, et al. (2023) Site-specific phosphorylation of ZYG-1 regulates ZYG-1 stability and centrosome number. *iScience*, 26(12), 108410.

Wei Y, et al. (2023) Ethylene enhances MdMAPK3-mediated phosphorylation of MdNAC72 to promote apple fruit softening. *The Plant cell*, 35(8), 2887.

Houston J, et al. (2023) BUB-1-bound PLK-1 directs CDC-20 kinetochore recruitment to ensure timely embryonic mitoses. *Current biology : CB*, 33(11), 2291.

Zhou T, et al. (2022) FBXW2 inhibits prostate cancer proliferation and metastasis via promoting EGFR ubiquitylation and degradation. *Cellular and molecular life sciences :*

CMLS, 79(5), 268.

Alfonzo-Méndez MA, et al. (2022) Dual clathrin and integrin signaling systems regulate growth factor receptor activation. *Nature communications*, 13(1), 905.

Ju C, et al. (2022) Ca²⁺-dependent successive phosphorylation of vacuolar transporter MTP8 by CBL2/3-CIPK3/9/26 and CPK5 is critical for manganese homeostasis in *Arabidopsis*. *Molecular plant*, 15(3), 419.

Zhang H, et al. (2021) OsGATA16, a GATA Transcription Factor, Confers Cold Tolerance by Repressing OsWRKY45-1 at the Seedling Stage in Rice. *Rice (New York, N.Y.)*, 14(1), 42.

De Luca E, et al. (2021) Protein kinase C γ regulates the nucleocytoplasmic shuttling of KRIT1. *Journal of cell science*, 134(3).

Ryu HY, et al. (2021) GSK3B induces autophagy by phosphorylating ULK1. *Experimental & molecular medicine*, 53(3), 369.

Wang W, et al. (2021) Stromal induction of BRD4 phosphorylation Results in Chromatin Remodeling and BET inhibitor Resistance in Colorectal Cancer. *Nature communications*, 12(1), 4441.

Zhang S, et al. (2021) YAF2 exerts anti-apoptotic effect in human tumor cells in a FANK1- and phosphorylation-dependent manner. *Biochemical and biophysical research communications*, 554, 99.

Cui D, et al. (2020) FBXW7 Confers Radiation Survival by Targeting p53 for Degradation. *Cell reports*, 30(2), 497.

Wang C, et al. (2020) Integrated omics in *Drosophila* uncover a circadian kinome. *Nature communications*, 11(1), 2710.