

# Resource Summary Report

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## [PhaSePred](#)

RRID:SCR\_024969

Type: Tool

### Proper Citation

PhaSePred (RRID:SCR\_024969)

### Resource Information

**URL:** <http://predict.phasep.pro/>

**Proper Citation:** PhaSePred (RRID:SCR\_024969)

**Description:** Web server as meta-predictor for phase-separating proteins. Displays proteome-level quantiles of different features, thus profiling PS propensity and providing crucial information for identification of candidate proteins.

**Resource Type:** data access protocol, software resource, web service

**Defining Citation:** [PMID:35687670](#)

**Keywords:** meta-predictor for phase-separating proteins, proteome-level quantiles of different features, profiling PS propensity,

**Funding:** Clinical Medicine Plus X-Young Scholars Project of Peking University ;  
Fundamental Research Funds for the Central Universities ;  
National Key Research and Development Program of China ;  
National Natural Science Foundation of China

**Availability:** Free, Freely available

**Resource Name:** PhaSePred

**Resource ID:** SCR\_024969

**Record Creation Time:** 20240201T171710+0000

**Record Last Update:** 20260919T200011+0000

### Ratings and Alerts

No rating or validation information has been found for PhaSePred.

No alerts have been found for PhaSePred.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Liu H, et al. (2026) Phase separation of OPTN initiates mitophagy to orchestrate craniofacial bone mineralization. *Autophagy*, 22(5), 1021.

Ren C, et al. (2026) EGR1 Nuclear Condensates Promote Renal Cyst Development in Polycystic Kidney Disease. *Exploration (Beijing, China)*, 6(1), 20240285.

Tian Z, et al. (2026) DDX41 facilitates PD-L1-mediated immune escape in OSCC via the phase separation and activation STING pathway. *NPJ precision oncology*, 10(1).

Chen K, et al. (2026) Liquid-liquid phase separation of PHLDB2 promotes oral squamous cell carcinoma metastasis through regulating epithelial mesenchymal transition and PIK3CA expression. *Molecular medicine reports*, 33(1).

Cheng J, et al. (2025) Cell-cycle-related transcriptional factor DLX4: a novel prognostic biomarker and potential therapeutic target in colorectal cancer. *Cancer cell international*, 25(1), 370.

Li B, et al. (2025) DDX10 Exacerbates Exosomal PD-L1-Dependent T Cell Exhaustion via Phase Separation of Rab27b in Oral Squamous Cell Carcinoma. *Research (Washington, D.C.)*, 8, 0697.

Amurrio E, et al. (2025) Age-Related Increases in PDE11A4 Protein Expression Trigger Liquid-Liquid Phase Separation (LLPS) of the Enzyme That Can Be Reversed by PDE11A4 Small Molecule Inhibitors. *Cells*, 14(12).

Knutson BA, et al. (2025) Evolutionary and Structural Insights into the RNA Polymerase I A34 Protein Family: A Focus on Intrinsic Disorder and Phase Separation. *Genes*, 16(1).

Sun R, et al. (2025) 1000 fold Ultra-Photosensitized Fluorescent Protein Mimics Toward Photocatalytic Proximity Labeling and Proteomic Profiling Functions. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(15), e2413063.

Yuan S, et al. (2025) A PHF19-YTHDC1 condensate switches EZH2-mediated gene suppression to activation for prostate cancer progression. *Proceedings of the National Academy of Sciences of the United States of America*, 122(43), e2510386122.

Zhang H, et al. (2025) Nuclear FGF2 orchestrates phase separation-mediated rDNA chromatin architecture to control BMSCs cell fate. *Bone research*, 13(1), 80.

Sun J, et al. (2024) Bioinformatic approaches of liquid-liquid phase separation in human disease. *Chinese medical journal*, 137(16), 1912.

Ge Y, et al. (2024) Caspase-2 is a condensate-mediated deubiquitinase in protein quality control. *Nature cell biology*, 26(11), 1943.

Li X, et al. (2024) Role of liquid-liquid phase separation in cancer: Mechanisms and therapeutic implications. *Cancer innovation*, 3(5), e144.

Sun J, et al. (2024) Precise prediction of phase-separation key residues by machine learning. *Nature communications*, 15(1), 2662.

Li Y, et al. (2024) Membraneless organelles in health and disease: exploring the molecular basis, physiological roles and pathological implications. *Signal transduction and targeted therapy*, 9(1), 305.