

Resource Summary Report

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[PLAAC](#)

RRID:SCR_024973

Type: Tool

Proper Citation

PLAAC (RRID:SCR_024973)

Resource Information

URL: <http://plaac.wi.mit.edu/>

Proper Citation: PLAAC (RRID:SCR_024973)

Description: Web and command-line application to identify proteins with prion-like amino acid composition. Searches protein sequences to identify probable prion subsequences using hidden-Markov model algorithm.

Synonyms: Prion Like Amino Acid Composition

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

Defining Citation: [PMID:24825614](#)

Keywords: protein sequences search, identify proteins with prion-like amino acid composition, identify proteins, identify probable prion subsequences,

Funding: G. Harold and Leila Y. Mathers Foundation ;
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NIGMS GM025874

Availability: Free, Freely available

Resource Name: PLAAC

Resource ID: SCR_024973

Record Creation Time: 20240201T171710+0000

Record Last Update: 20260805T044541+0000

Ratings and Alerts

No rating or validation information has been found for PLAAC.

No alerts have been found for PLAAC.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 25 mentions in open access literature.

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

Tang Y, et al. (2025) Targeting FOXP1 phase separation in small cell lung cancer mechanisms of chemotherapy resistance. *Communications biology*, 8(1), 431.

Zhang X, et al. (2025) A Prion-Like Domain in EBV EBNA1 Promotes Phase Separation and Enables SRRM1 Splicing. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(41), e01977.

Yao Y, et al. (2025) LncRNA-MEG3 Regulates Muscle Mass and Metabolic Homeostasis by Facilitating SUZ12 Liquid-Liquid Phase Separation. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(23), e2417715.

Li P, et al. (2025) Salinity Stress Induces Phase Separation of Plant BARENTSZ to Form Condensates. *Rice* (New York, N.Y.), 18(1), 75.

Zhang Y, et al. (2025) RUNX2 Phase Separation Mediates Long-Range Regulation Between Osteoporosis-Susceptibility Variant and XCR1 to Promote Osteoblast Differentiation. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(6), e2413561.

Guo C, et al. (2025) LEDGF/p75 promotes transcriptional pausing through preventing SPT5 phosphorylation. *Science advances*, 11(3), eadr2131.

Cai S, et al. (2025) Phase transition of WTAP regulates m6A modification of interferon-stimulated genes. *eLife*, 13.

Seira Curto J, et al. (2025) Exogenous prion-like proteins and their potential to trigger cognitive dysfunction. *Molecular systems biology*, 21(8), 1004.

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).

Luo M, et al. (2025) Genetically-encoded targeted protein degradation technology to remove endogenous condensation-prone proteins and improve crop performance. *Nature communications*, 16(1), 1159.

Kappel K, et al. (2025) Characterizing protein sequence determinants of nuclear condensates by high-throughput pooled imaging with CondenseSeq. *Nature methods*, 22(7), 1464.

Rajeevan A, et al. (2025) Aurora A regulates the material property of spindle poles to orchestrate nuclear organization at mitotic exit. *The EMBO journal*.

Mgbechidinma CL, et al. (2025) Phase separation and biomolecular condensate formation drive plant endomembrane and autophagy crosstalk. *Journal of experimental botany*, 77(1), 149.

Jang S, et al. (2024) HIV-1 usurps mixed-charge domain-dependent CPSF6 phase separation for higher-order capsid binding, nuclear entry and viral DNA integration. *Nucleic acids research*, 52(18), 11060.

Liu Q, et al. (2024) Liquid-liquid phase separation in plants: Advances and perspectives from model species to crops. *Plant communications*, 5(1), 100663.

Shi X, et al. (2024) DDX18 coordinates nucleolus phase separation and nuclear organization to control the pluripotency of human embryonic stem cells. *Nature communications*, 15(1), 10803.

Won JH, et al. (2024) The PRR-EC complex and SWR1 chromatin remodeling complex function cooperatively to repress nighttime hypocotyl elongation by modulating PIF4 expression in *Arabidopsis*. *Plant communications*, 5(9), 100981.

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

Bian H, et al. (2024) The m6A reader SYTH2 negatively regulates tomato fruit aroma by impeding the translation process. *Proceedings of the National Academy of Sciences of the United States of America*, 121(28), e2405100121.

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.