

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/>

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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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Availability: Free, Freely available

Resource Name: PLAAC

Resource ID: SCR_024973

Record Creation Time: 20240201T171710+0000

Record Last Update: 20260905T133446+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 49 mentions in open access literature.

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

Yang H, et al. (2026) Interpretable and generative deep learning models explicate phase separating intrinsically disordered motifs. *Nature communications*, 17(1).

Wang J, et al. (2026) Disrupting SOX2 self-association and condensate formation to overcome chemotherapeutic drug resistance in lung squamous cell carcinoma. *Signal transduction and targeted therapy*, 11(1).

Li B, et al. (2026) Genome-Wide Analysis of YTH Domain Proteins in *Metasequoia glyptostroboides* and Functional Validation of MgYTH5 as an m6A Reader. *Plants (Basel, Switzerland)*, 15(10).

Ma Y, et al. (2026) Genome-Wide Characterization and Expression Profiling of Putative m6A Methylation Regulatory Proteins (Writers and Erasers) in *Ginkgo biloba*. *Biology*, 15(12).

Wang H, et al. (2026) Cold storage delays peach fruit softening via m6A reader PpYTHDFE1 liquid-liquid phase separation-mediated degradation of cell wall-loosening transcript PpEXP3. *Molecular horticulture*, 6(1).

Guo W, et al. (2026) Genome-Wide Identification and Expression Analysis of m6A Regulators in *Bursaphelenchus xylophilus* Across Developmental and Stress Conditions. *Biology*, 15(10).

Xiang ZX, et al. (2026) 14-3-3 ? suppresses ethylene-mediated root growth inhibition through EIN3/EIL1 in *Arabidopsis*. *Plant physiology*, 201(1).

Shen H, et al. (2026) Phase separation in plants: mechanisms, functions, and a simplified workflow for investigation. *Frontiers in plant science*, 17, 1858323.

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

Fen L, et al. (2025) Molecular network analysis of CPEB4 translational control and targeting CPEB4/?-catenin to modulate invasion and migration of nasopharyngeal carcinoma cells. *International journal of medical sciences*, 22(6), 1329.

- 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.
- 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.
- Gao R, et al. (2025) ricePSP: a database of rice phase separation-associated proteins. *Genome biology*, 26(1), 390.
- 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 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.
- Yang T, et al. (2025) Genome-wide identification and analysis of YTH gene family and its response to MeJA and salt treatment in *Panax ginseng* C. A. Meyer. *BMC plant biology*, 26(1), 172.
- Wang C, et al. (2025) Genome-Wide Identification and Expression Analysis of the YTH Domain-Containing Protein Gene Family in *Salvia miltiorrhiza*. *International journal of molecular sciences*, 26(10).
- 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.
- Cai S, et al. (2025) Phase transition of WTAP regulates m6A modification of interferon-stimulated genes. *eLife*, 13.