

Resource Summary Report

Generated by [ASWG](#) on Aug 4, 2026

FuzDrop

RRID:SCR_023675

Type: Tool

Proper Citation

FuzDrop (RRID:SCR_023675)

Resource Information

URL: <https://fuzdrop.bio.unipd.it/predictor>

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Description: Web tool to predict probability of proteins to undergo liquid-liquid phase separation. Used to perform sequence based identification of both droplet promoting regions and of aggregation promoting regions within droplets. Used to predict droplet promoting regions and proteins, which can spontaneously phase separate.

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

Defining Citation: [PMID:33318217](#)

Keywords: protein, liquid-liquid phase separation, separation prediction, sequence based identification, droplet promoting regions, aggregation promoting regions,

Funding: Hungarian Academy of Sciences

Availability: Free, Freely available

Resource Name: FuzDrop

Resource ID: SCR_023675

Record Creation Time: 20230614T050220+0000

Record Last Update: 20260804T043828+0000

Ratings and Alerts

No rating or validation information has been found for FuzDrop.

No alerts have been found for FuzDrop.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Avecilla ARC, et al. (2025) Genetically-Encoded Phase Separation Sensors Enable High-Fidelity Live-Cell Probing of Biomolecular Condensates. *ACS sensors*, 10(3), 1857.

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).

Li Y, et al. (2025) γ -propeller protein-associated neurodegeneration protein WDR45 regulates stress granule disassembly via phase separation with Caprin-1. *Nature communications*, 16(1), 5227.

Antonietti M, et al. (2025) An Analysis of Intrinsic Protein Disorder in Antimicrobial Peptides. *The protein journal*, 44(2), 175.

Ecsédi P, et al. (2025) Selective engineering of condensation properties of single-stranded DNA binding (SSB) protein via its intrinsically disordered linker region. *Nucleic acids research*, 53(11).

Timothy FM, et al. (2025) Comparative Characterization of Plasmodium falciparum Small Heat Shock Proteins and Their Inhibition by Quercetin (3,3',4',5,7-Pentahydroxyflavone). *The protein journal*, 44(5), 580.

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

Yang W, et al. (2024) TPM4 condensates glycolytic enzymes and facilitates actin reorganization under hyperosmotic stress. *Cell discovery*, 10(1), 120.

Li X, et al. (2024) γ -synuclein regulates the phase transitions and amyloid conversion of γ -synuclein. *Nature communications*, 15(1), 8748.

Regina Chua Avecilla A, et al. (2024) Genetically-encoded phase separation sensors for intracellular probing of biomolecular condensates. *bioRxiv : the preprint server for biology*.

Wilson C, et al. (2023) ParSe 2.0: A web tool to identify drivers of protein phase separation at the proteome level. *Protein science : a publication of the Protein Society*, 32(9), e4756.

Kuczyńska-Wiśnik D, et al. (2023) Liquid-Liquid Phase Separation and Protective Protein Aggregates in Bacteria. *Molecules (Basel, Switzerland)*, 28(18).

Antonietti M, et al. (2023) Intrinsic disorder in PRAME and its role in uveal melanoma. Cell communication and signaling : CCS, 21(1), 222.

Kyriukha Y, et al. (2023) The PALB2 DNA-binding domain is an intrinsically disordered recombinase. Research square.

Vasovi? LM, et al. (2023) Intrinsically disordered proteins and liquid-liquid phase separation in SARS-CoV-2 interactomes. Journal of cellular biochemistry.