

Resource Summary Report

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CTFFIND

RRID:SCR_016732

Type: Tool

Proper Citation

CTFFIND (RRID:SCR_016732)

Resource Information

URL: <http://grigoriefflab.janelia.org/ctffind4>

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Description: Software tool for finding CTFs of electron micrographs. Program used for the estimation of objective lens defocus parameters from transmission electron micrographs. The program CTFFIND3 is an updated version of the program CTFFIND2. For micrographs collected on photographic film and scanned in use CTFFIND 3. For images from CCDs or direct detectors use CTFFIND 4.

Abbreviations: CTFFIND

Synonyms: CTFFinding, CTFFIND4, CTFFIND2, Contrast Transfer Function Finding, Contrast Transfer FunctionFinding, CTFFIND 3

Resource Type: software resource, data processing software, software application, data analysis software

Defining Citation: [PMID:26278980](#)

Funding: MRC

Resource Name: CTFFIND

Resource ID: SCR_016732

License: Janelia Research Campus Software Copyright 1.1.

Record Creation Time: 20220129T080332+0000

Record Last Update: 20260804T043657+0000

Ratings and Alerts

No rating or validation information has been found for CTFFIND.

No alerts have been found for CTFFIND.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 109 mentions in open access literature.

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

Lupton CJ, et al. (2026) Structure of the lysosomal KICSTOR-GATOR1-SAMTOR nutrient-sensing supercomplex. *Cell*.

Hu S, et al. (2025) Structural and functional analysis of the Nipah virus polymerase complex. *Cell*, 188(3), 688.

Bergheim BG, et al. (2025) Molecular dynamics of the matrisome across sea anemone life history. *eLife*, 14.

Segura-Covarrubias G, et al. (2025) Structural basis of GluK2 kainate receptor activation by a partial agonist. *Nature structural & molecular biology*, 32(8), 1456.

Xiao X, et al. (2025) Structural insights into the biotechnologically relevant reversible NADPH-oxidizing NiFe-hydrogenase from *P.furiosus*. *Structure (London, England : 1993)*, 33(9), 1470.

Yu Z, et al. (2025) Mechanisms of HSV-1 helicase-primase inhibition and replication fork complex assembly. *Cell*.

Smith AM, et al. (2025) The HIV-1 nuclear export complex reveals the role of RNA in CRM1 cargo recognition. *Molecular cell*, 85(16), 3108.

Dederer V, et al. (2024) A designed ankyrin-repeat protein that targets Parkinson's disease-associated LRRK2. *The Journal of biological chemistry*, 300(7), 107469.

Hernandez CM, et al. (2024) Development and Characterization of 50 nanometer diameter Genetically Encoded Multimeric Nanoparticles. *bioRxiv : the preprint server for biology*.

Sokratian A, et al. (2024) Mouse α -synuclein fibrils are structurally and functionally distinct from human fibrils associated with Lewy body diseases. *Science advances*, 10(44), eadq3539.

Frank HM, et al. (2024) Structural basis of ligand specificity and channel activation in an insect gustatory receptor. *Cell reports*, 43(4), 114035.

Cai SW, et al. (2024) POT1 recruits and regulates CST-Pol γ /primase at human telomeres. *Cell*, 187(14), 3638.

Doran MH, et al. (2023) Myosin loop-4 is critical for optimal tropomyosin repositioning on actin during muscle activation and relaxation. *The Journal of general physiology*, 155(2).

Doran MH, et al. (2023) Conformational changes linked to ADP release from human cardiac myosin bound to actin-tropomyosin. *The Journal of general physiology*, 155(3).

Mauxion F, et al. (2023) The human CNOT1-CNOT10-CNOT11 complex forms a structural platform for protein-protein interactions. *Cell reports*, 42(1), 111902.

Agip AA, et al. (2023) Cryo-EM structures of mitochondrial respiratory complex I from *Drosophila melanogaster*. *eLife*, 12.

Trastoy B, et al. (2023) Mechanism of antibody-specific deglycosylation and immune evasion by Streptococcal IgG-specific endoglycosidases. *Nature communications*, 14(1), 1705.

De Gieter S, et al. (2023) Sterol derivative binding to the orthosteric site causes conformational changes in an invertebrate Cys-loop receptor. *eLife*, 12.

Simonis A, et al. (2023) Discovery of highly neutralizing human antibodies targeting *Pseudomonas aeruginosa*. *Cell*, 186(23), 5098.

Jiang X, et al. (2023) The two-step cargo recognition mechanism of heterotrimeric kinesin. *EMBO reports*, 24(11), e56864.