Resource Summary Report

Generated by T1D on Aug 4, 2026

NESbase

RRID:SCR_003268
Type: Tool

Proper Citation

NESbase (RRID:SCR_003268)

Resource Information

URL: http://www.cbs.dtu.dk/databases/NESbase

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Description: Database of proteins in which the presence of Leucine-rich nuclear export signal (NES) has been experimentally verified. It is curated from literature. Each NESbase entry contains information of whether NES was shown to be necessary and/or sufficient for export, and whether the export was shown to be mediated by the export receptor CRM1. The compiled information was used to make a sequence logo of the Leucine-rich NESs, displaying the conservation of amino acids within a window of 25 residues. Error reports and submissions of new data are most welcome!

Abbreviations: NESbase

Resource Type: data repository, data or information resource, database, storage service resource, service resource

Defining Citation: PMID:12520031

Keywords: nuclear export signal, protein, leucine

Funding: Danish National Research Foundation ;
John and Birthe Meyer Foundation

Availability: Free, Available for download, Freely available

Resource Name: NESbase

Resource ID: SCR_003268

Alternate IDs: nif-0000-03188

Alternate URLs: https://services.healthtech.dtu.dk/datasets/NESbase-1.0/

Record Creation Time: 20220129T080218+0000

Record Last Update: 20260804T043217+0000

Ratings and Alerts

No rating or validation information has been found for NESbase.

No alerts have been found for NESbase.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 7 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Wan J, et al. (2025) Identification and subcellular localization of proteins that interact with Duck plague virus pUL14 in infected host cells. Poultry science, 104(1), 104649.

Zheng Y, et al. (2025) Deep learning prioritizes cancer mutations that alter protein nucleocytoplasmic shuttling to drive tumorigenesis. Nature communications, 16(1), 2511.

Navarro-L??rida I, et al. (2015) Rac1 nucleocytoplasmic shuttling drives nuclear shape changes and tumor invasion. Developmental cell, 32(3), 318.

Marfori M, et al. (2011) Molecular basis for specificity of nuclear import and prediction of nuclear localization. Biochimica et biophysica acta, 1813(9), 1562.

Magico AC, et al. (2011) Identification of a classical bipartite nuclear localization signal in the Drosophila TEA/ATTS protein scalloped. PloS one, 6(6), e21431.

Galperin MY, et al. (2005) The Molecular Biology Database Collection: 2005 update. Nucleic acids research, 33(Database issue), D5.

Yoshida M, et al. (2004) Nucleocytoplasmic transport and nuclear envelope integrity in the fission yeast Schizosaccharomyces pombe. Methods (San Diego, Calif.), 33(3), 226.