

Resource Summary Report

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ProRepeat

RRID:SCR_006113

Type: Tool

Proper Citation

ProRepeat (RRID:SCR_006113)

Resource Information

URL: <http://prorepeat.bioinformatics.nl/>

Proper Citation: ProRepeat (RRID:SCR_006113)

Description: ProRepeat is an integrated curated repository and analysis platform for in-depth research on the biological characteristics of amino acid tandem repeats. ProRepeat collects repeats from all proteins included in the UniProt knowledgebase, together with 85 completely sequenced eukaryotic proteomes contained within the RefSeq collection. It contains non-redundant perfect tandem repeats, approximate tandem repeats and simple, low-complexity sequences, covering the majority of the amino acid tandem repeat patterns found in proteins. The ProRepeat web interface allows querying the repeat database using repeat characteristics like repeat unit and length, number of repetitions of the repeat unit and position of the repeat in the protein. Users can also search for repeats by the characteristics of repeat containing proteins, such as entry ID, protein description, sequence length, gene name and taxon. ProRepeat offers powerful analysis tools for finding biological interesting properties of repeats, such as the strong position bias of leucine repeats in the N-terminus of eukaryotic protein sequences, the differences of repeat abundance among proteomes, the functional classification of repeat containing proteins and GC content constrains of repeats' corresponding codons.

Abbreviations: ProRepeat

Resource Type: data or information resource, database

Defining Citation: [PMID:22102581](#)

Keywords: amino acid, tandem, repeat, protein, sequence, nucleotide sequence, repeat fragment, protein repeat, proteome, sequence length, gene, taxon, bio.tools

Resource Name: ProRepeat

Resource ID: SCR_006113

Alternate IDs: nlx_151587, biotools:prorepeat

Alternate URLs: <https://bio.tools/prorepeat>

Record Creation Time: 20220129T080234+0000

Record Last Update: 20260829T182944+0000

Ratings and Alerts

No rating or validation information has been found for ProRepeat.

No alerts have been found for ProRepeat.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Luo H, et al. (2014) Understanding and identifying amino acid repeats. Briefings in bioinformatics, 15(4), 582.