

# Resource Summary Report

Generated by [dkNET](#) on Aug 18, 2026

## WD repeat Family of Proteins

RRID:SCR\_002160

Type: Tool

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### Proper Citation

WD repeat Family of Proteins (RRID:SCR\_002160)

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### Resource Information

**URL:** <http://bmerc.bu.edu/projects/wdrepeat/>

**Proper Citation:** WD repeat Family of Proteins (RRID:SCR\_002160)

**Description:** THIS RESOURCE IS NO LONGER IN SERVICE, documented on August 26, 2016. This website contains a library of WD-repeat containing proteins in which the repeats appear as multi-aligned sets. WD-repeat-containing proteins are those that contain 4 or more copies of the WD-repeat (tryptophan-aspartate repeat), a sequence motif approximately 31 amino acids long, that encodes a structural repeat. This repeat is described by the following profile, where x is ANY amino acid. By clicking on each highlighted character you will obtain the distribution of amino acids found at that position of the repeat among an aligned set of WD-repeat containing proteins. The tertiary structure of only one member of this family has been determined, that of the G protein beta subunit, which contains 7 WD-repeats. Each of the 7 repeats folds into a small antiparallel beta-sheet. The over-lines above indicate the position of these strands, with a being the strand closest to the central pore and d at the external surface of the folded protein. These sheets are arranged around a central pseudosymmetry axis into a beta propeller. The WD-repeat-containing proteins form a very large family that is diverse in both its function and domain structure. Within all these proteins the WD-repeat domains are thought to have two common features: the domain folds into a beta propeller; and the domains form a platform without any catalytic activity on which multiple protein complexes assemble reversibly. The fact that these proteins play such key roles in the formation of protein-protein complexes in nearly all the major pathways and organelles unique to eukaryotic cells has two important implications. It supports both their ancient and proto eukaryotic origins and supports a likely association with many genetic diseases.

**Synonyms:** WD repeat Family of Proteins

**Resource Type:** data or information resource, database

**Keywords:** eukaryotic, function, genetic, align, amino acid, ancient, antiparallel, aspartate, beta, cell, disease, domain, g protein, multi-aligned, organelle, origin, pathway, propeller,

protein, proto, pseudosymmetry, sheet, structural, tertiary, tryptophan, wd-repeat

**Availability:** THIS RESOURCE IS NO LONGER IN SERVICE

**Resource Name:** WD repeat Family of Proteins

**Resource ID:** SCR\_002160

**Alternate IDs:** nif-0000-20949

**Record Creation Time:** 20220129T080211+0000

**Record Last Update:** 20260815T182831+0000

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## Ratings and Alerts

No rating or validation information has been found for WD repeat Family of Proteins.

No alerts have been found for WD repeat Family of Proteins.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.