

Resource Summary Report

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PROVEAN

RRID:SCR_002182

Type: Tool

Proper Citation

PROVEAN (RRID:SCR_002182)

Resource Information

URL: <http://provean.jcvi.org/>

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Description: A software tool which predicts whether an amino acid substitution or indel has an impact on the biological function of a protein.

Abbreviations: PROVEAN

Synonyms: Protein Variation Effect Analyzer

Resource Type: service resource, data analysis service, software resource, production service resource, analysis service resource

Defining Citation: [PMID:23056405](#)

Keywords: amino acid substitution, indel, function, protein, amino acid, substitution, protein variant, genome variant, next-generation sequencing, insertion, deletion

Funding: NIH ;
NHGRI 5R01HG004701-04

Availability: Free, Available for download, Freely available

Resource Name: PROVEAN

Resource ID: SCR_002182

Alternate IDs: OMICS_01849

License: GNU General Public License, v3

Record Creation Time: 20220129T080212+0000

Record Last Update: 20260729T044022+0000

Ratings and Alerts

No rating or validation information has been found for PROVEAN.

No alerts have been found for PROVEAN.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2231 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Guo W, et al. (2026) Pathogenicity of novel GLA gene missense mutations in Fabry disease and the therapeutic impact of migalastat. *Journal of advanced research*, 79, 549.

Jian Z, et al. (2025) Prevalence and molecular characteristics of colistin-resistant isolates among carbapenem-resistant *Klebsiella pneumoniae* in Central South China: a multicenter study. *Annals of clinical microbiology and antimicrobials*, 24(1), 1.

Yang X, et al. (2025) A missense variant in the SOX5 gene (c.221C > T) is associated with intellectual disability. *Orphanet journal of rare diseases*, 20(1), 50.

Al-Hamed MH, et al. (2025) Genetics of Primary Adrenal Insufficiency Beyond CAH in Saudi Arabian Population. *Molecular genetics & genomic medicine*, 13(1), e70052.

Zhao W, et al. (2025) GoFCards: an integrated database and analytic platform for gain of function variants in humans. *Nucleic acids research*, 53(D1), D976.

Wang X, et al. (2025) Effect of newborn genomic screening for lysosomal storage disorders: a cohort study in China. *Genome medicine*, 17(1), 52.

Luo W, et al. (2025) Identification and Functional Analysis of Novel Mutations in AXIN2 and LRP6 Linked With Non-Syndromic Tooth Agenesis. *Molecular genetics & genomic medicine*, 13(5), e70101.

Faruque M, et al. (2025) Deciphering Deleterious nsSNPs in MUC16's SEA Domain: Structural and Functional Implications in Cancer Metastasis via Computational Analysis. *Journal of cellular and molecular medicine*, 29(11), e70633.

Zhang B, et al. (2025) Low expression of CADPS predicts poor prognosis in pediatric acute lymphoblastic leukemia without fusion genes. *Biomolecules & biomedicine*, 25(10), 2295.

Li X, et al. (2025) Clinical and Molecular Landscape of GLRA2 in X-Linked Early-Onset High Myopia. *Investigative ophthalmology & visual science*, 66(4), 30.

Ba T, et al. (2025) Prevalence and Clinical Characteristics of NEUROD1-MODY in Chinese Early-Onset Type 2 Diabetes Mellitus and a Literature Review. *Journal of diabetes*, 17(4), e70080.

Ganguly A, et al. (2025) Rare and novel variant load threshold for KIF7, GJA1 and PDE1C genes elevates the risk of severity of congenital heart defects in Down syndrome. *PloS one*, 20(6), e0326566.

Heo JY, et al. (2025) Assessing the performance of 28 pathogenicity prediction methods on rare single nucleotide variants in coding regions. *BMC genomics*, 26(1), 641.

Wang H, et al. (2025) Identification of Novel USH2A Mutations in a Consanguineous Chinese Family With Usher Syndrome. *Human mutation*, 2025, 6391770.

Ma Z, et al. (2025) Mutation within the transmembrane domain of oxidized low-density lipoprotein receptor 1 influences oxidized low-density lipoprotein-induced signal transduction. *Innate immunity*, 31, 17534259251350447.

Kim YS, et al. (2025) Allogenic mitochondria transfer improves cardiac function in iPS-cell-differentiated cardiomyocytes of a patient with Barth syndrome. *Experimental & molecular medicine*, 57(6), 1260.

Zhu H, et al. (2025) Common cis-regulatory variation modifies the penetrance of pathogenic SHROOM3 variants in craniofacial microsomia. *Genome research*, 35(5), 1065.

Liu Y, et al. (2025) 18 individual genes underwent variant screening in a northwest Chinese group comprised 83 probands diagnosed with early-onset high myopia. *PloS one*, 20(9), e0329472.

Blomquist MR, et al. (2025) Glioblastoma resistance to EGFR antibody-drug conjugate is driven by transcriptional reprogramming and TEK-induced EGFR suppression. *Journal of translational medicine*, 23(1), 1153.

Sheng H, et al. (2025) Clinical characteristics, genetic spectrum and therapeutic effects of 51 male patients with idiopathic hypogonadotropic hypogonadism from southern China. *Orphanet journal of rare diseases*, 20(1), 574.