Resource Summary Report

Generated by T1D on Aug 1, 2026

MARRVEL

RRID:SCR_016871
Type: Tool

Proper Citation

MARRVEL (RRID:SCR_016871)

Resource Information

URL: http://marrvel.org/

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Description: Web tool to search multiple public variant databases simultaneously and provide a unified interface to facilitate the search process. Used for integration of human and model organism genetic resources to facilitate functional annotation of the human genome. Used for analysis of human genes and variants by cross-disciplinary integration of records available in public databases to facilitate clinical diagnosis and basic research.

Abbreviations: MARRVEL

Synonyms: Model organism Aggregated Resources for Rare Variant ExpLoration

Resource Type: data analysis service, data or information resource, database, service resource, production service resource, analysis service resource

Defining Citation: PMID:28502612

Keywords: integration, database, model, genetic, resource, functional, annotation, genome, data, analysis, dataset, rare, variant, exploration, bio.tools

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NCRR R24 RR032668;
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NCI P30 CA06516;
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Availability: Free, Public, Freely available

Resource Name: MARRVEL

Resource ID: SCR_016871

Alternate IDs: biotools:marrvel

Alternate URLs: https://bio.tools/marrvel

Record Creation Time: 20220129T080332+0000

Record Last Update: 20260801T042805+0000

Ratings and Alerts

No rating or validation information has been found for MARRVEL.

No alerts have been found for MARRVEL.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 22 mentions in open access literature.

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

Casas-Tint?? S, et al. (2024) Drosophila as a Model for Human Disease: Insights into Rare and Ultra-Rare Diseases. Insects, 15(11).

Lu S, et al. (2022) Loss-of-function variants in TIAM1 are associated with developmental delay, intellectual disability, and seizures. American journal of human genetics, 109(4), 571.

Vidali S, et al. (2021) Characterising a homozygous two-exon deletion in UQCRH: comparing human and mouse phenotypes. EMBO molecular medicine, 13(12), e14397.

Baldridge D, et al. (2021) Model organisms contribute to diagnosis and discovery in the undiagnosed diseases network: current state and a future vision. Orphanet journal of rare diseases, 16(1), 206.

Guillemyn B, et al. (2021) Loss of TANGO1 Leads to Absence of Bone Mineralization. JBMR plus, 5(3), e10451.

Usmani MA, et al. (2021) De novo and bi-allelic variants in AP1G1 cause neurodevelopmental disorder with developmental delay, intellectual disability, and epilepsy. American journal of human genetics, 108(7), 1330.

Ravenscroft TA, et al. (2021) Heterozygous loss-of-function variants significantly expand the phenotypes associated with loss of GDF11. Genetics in medicine : official journal of the American College of Medical Genetics, 23(10), 1889.

Chenouard V, et al. (2021) Advances in Genome Editing and Application to the Generation of Genetically Modified Rat Models. Frontiers in genetics, 12, 615491.

Griffin A, et al. (2021) Phenotypic analysis of catastrophic childhood epilepsy genes. Communications biology, 4(1), 680.

Genovesi ML, et al. (2021) GDF5 mutation case report and a systematic review of molecular and clinical spectrum: Expanding current knowledge on genotype-phenotype correlations. Bone, 144, 115803.

Richard EM, et al. (2021) Bi-allelic variants in SPATA5L1 lead to intellectual disability, spastic-dystonic cerebral palsy, epilepsy, and hearing loss. American journal of human genetics, 108(10), 2006.

Mitani T, et al. (2021) High prevalence of multilocus pathogenic variation in neurodevelopmental disorders in the Turkish population. American journal of human genetics, 108(10), 1981.

Chung HL, et al. (2020) De Novo Variants in CDK19 Are Associated with a Syndrome Involving Intellectual Disability and Epileptic Encephalopathy. American journal of human genetics, 106(5), 717.

Graves HK, et al. (2020) A Genetic Screen for Genes That Impact Peroxisomes in Drosophila Identifies Candidate Genes for Human Disease. G3 (Bethesda, Md.), 10(1), 69.

Mao D, et al. (2020) De novo EIF2AK1 and EIF2AK2 Variants Are Associated with Developmental Delay, Leukoencephalopathy, and Neurologic Decompensation. American journal of human genetics, 106(4), 570.

Chung HL, et al. (2020) Loss- or Gain-of-Function Mutations in ACOX1 Cause Axonal Loss via Different Mechanisms. Neuron, 106(4), 589.

Guo H, et al. (2019) Disruptive mutations in TANC2 define a neurodevelopmental syndrome associated with psychiatric disorders. Nature communications, 10(1), 4679.

Ansar M, et al. (2019) Bi-allelic Variants in IQSEC1 Cause Intellectual Disability, Developmental Delay, and Short Stature. American journal of human genetics, 105(5), 907.

Wang J, et al. (2019) Loss of Oxidation Resistance 1, OXR1, Is Associated with an Autosomal-Recessive Neurological Disease with Cerebellar Atrophy and Lysosomal Dysfunction. American journal of human genetics, 105(6), 1237.

Thurmond J, et al. (2019) FlyBase 2.0: the next generation. Nucleic acids research, 47(D1), D759.