

Resource Summary Report

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VIRsiRNAdb

RRID:SCR_006108

Type: Tool

Proper Citation

VIRsiRNAdb (RRID:SCR_006108)

Resource Information

URL: <http://crdd.osdd.net/servers/virsirnadb/>

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Description: VIRsiRNAdb is a curated database of experimentally validated viral siRNA / shRNA targeting diverse genes of 42 important human viruses including influenza, SARS and Hepatitis viruses. Submissions are welcome. Currently, the database provides detailed experimental information of 1358 siRNA/shRNA which includes siRNA sequence, virus subtype, target gene, GenBank accession, design algorithm, cell type, test object, test method and efficacy (mostly quantitative efficacies). Further, wherever available, information regarding alternative efficacies of above 300 siRNAs derived from different assays has also been incorporated. The database has facilities like search, advance search (using Boolean operators AND, OR) browsing (with data sorting option), internal linking and external linking to other databases (Pubmed, Genbank, ICTV). Additionally useful siRNA analysis tools are also provided e.g. siTarAlign for aligning the siRNA sequence with reference viral genomes or user defined sequences. virsiRNAdb would prove useful for RNAi researchers especially in siRNA based antiviral therapeutics development.

Abbreviations: VIRsiRNAdb

Synonyms: VIRsiRNAdb - Database of Viral siRNA / shRNA, Viral siRNA Database, Viral siRNA Database (VIRsiRNAdb)

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

Defining Citation: [PMID:22139916](#)

Keywords: virus, sirna, shrna, gene, influenza, sars, hepatitis, sirna sequence, virus subtype, target gene, genbank accession, design algorithm, cell type, efficacy, target genome region, target object, experimental assay, off-target, sirna matching, reference

viral sequence, influenza virus, hepatitis b virus, hpv, sars corona virus, viral genome, reference genome, align, sirna sequence, fasta, blast, bio.tools

Related Condition: Influenza, SARS, Hepatitis, Infectious disease

Funding: Council of Scientific and Industrial Research; New Delhi; India

Availability: Open unspecified license / Freely available

Resource Name: VIRsiRNAdb

Resource ID: SCR_006108

Alternate IDs: nlx_151610, biotools:virsiRNAdb

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

Record Creation Time: 20220129T080234+0000

Record Last Update: 20260912T200011+0000

Ratings and Alerts

No rating or validation information has been found for VIRsiRNAdb.

No alerts have been found for VIRsiRNAdb.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Giulietti M, et al. (2018) To accelerate the Zika beat: Candidate design for RNA interference-based therapy. *Virus research*, 255, 133.

Qureshi A, et al. (2018) A review on current status of antiviral siRNA. *Reviews in medical virology*, 28(4), e1976.

Gupta AK, et al. (2016) ZikaVR: An Integrated Zika Virus Resource for Genomics, Proteomics, Phylogenetic and Therapeutic Analysis. *Scientific reports*, 6, 32713.

Lagan?? A, et al. (2015) Computational design of artificial RNA molecules for gene regulation. *Methods in molecular biology* (Clifton, N.J.), 1269, 393.