

Resource Summary Report

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rVista

RRID:SCR_018707

Type: Tool

Proper Citation

rVista (RRID:SCR_018707)

Resource Information

URL: <https://rvista.dcode.org/>

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Description: Web tool for analyzing regulatory potential of noncoding sequences. rVISTA web server is interconnected with TRANSFAC database, allowing users to either search for matrices present in TRANSFAC library collection or search for user defined consensus sequences. rVISTA 2.0 web server is used for high throughput discovery of cis-regulatory elements. Can process alignments generated by zPicture and blastz alignment programs or use pre-computed pairwise alignments of several vertebrate genomes available from ECR Browser and GALA database. Evolutionary analysis of transcription factor binding sites.

Synonyms: rVista 2.0

Resource Type: service resource, data access protocol, software resource, production service resource, web service, analysis service resource

Defining Citation: [PMID:15215384](#)

Keywords: Noncoding sequence, regulatory potential analysis, matrices search, TRANSFAC library collection, cis regulatory element, process alignment, zPicture, blastz, pairwise alignment, genome, analysis, transcription factor binding site, bio.tools

Availability: Free, Freely available

Resource Name: rVista

Resource ID: SCR_018707

Alternate IDs: biotools:rvista

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

Record Creation Time: 20220129T080341+0000

Record Last Update: 20260729T044444+0000

Ratings and Alerts

No rating or validation information has been found for rVista.

No alerts have been found for rVista.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 30 mentions in open access literature.

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

Malvi P, et al. (2025) PDE7A inhibition suppresses triple-negative breast cancer by attenuating de novo pyrimidine biosynthesis. *Cell reports. Medicine*, 6(9), 102356.

Kunimoto H, et al. (2025) PRC2-mediated apoptosis evasion is a therapeutic target of MDS/AML harboring inv(3)/t(3;3) and monosomy 7. *HemaSphere*, 9(7), e70149.

Yuan H, et al. (2025) LINC00626 drives tamoxifen resistance in breast cancer cells by interaction with UPF1. *Scientific reports*, 15(1), 2997.

Li C, et al. (2025) LINC00622 transcriptionally promotes RRAGD to repress mTORC1-modulated autophagic cell death by associating with BTF3 in cutaneous melanoma. *Cell death & disease*, 16(1), 515.

Lian GY, et al. (2024) Disrupting Smad3 potentiates immunostimulatory function of NK cells against lung carcinoma by promoting GM-CSF production. *Cellular and molecular life sciences : CMLS*, 81(1), 262.

Gladka MM, et al. (2024) Hypoxia-responsive zinc finger E-box-binding homeobox 2 (ZEB2) regulates a network of calcium-handling genes in the injured heart. *Cardiovascular research*, 120(15), 1869.

Malvi P, et al. (2023) HOXC6 drives a therapeutically targetable pancreatic cancer growth and metastasis pathway by regulating MSK1 and PPP2R2B. *Cell reports. Medicine*, 4(11), 101285.

Tenney AP, et al. (2023) Noncoding variants alter GATA2 expression in rhombomere 4 motor neurons and cause dominant hereditary congenital facial paresis. *Nature genetics*, 55(7), 1149.

Goea L, et al. (2022) Hnf1b renal expression directed by a distal enhancer responsive to Pax8. *Scientific reports*, 12(1), 19921.

Li L, et al. (2022) SoxD genes are required for adult neural stem cell activation. *Cell reports*, 38(5), 110313.

Wang R, et al. (2022) Hypoxia-induced RBBP7 promotes esophagus cancer progression by inducing CDK4 expression. *Acta biochimica et biophysica Sinica*, 54(2), 179.

Suliman HB, et al. (2022) Nuclear respiratory factor-1 negatively regulates TGF- β 1 and attenuates pulmonary fibrosis. *iScience*, 25(1), 103535.

LaPotin S, et al. (2022) Divergent cis-regulatory evolution underlies the convergent loss of sodium channel expression in electric fish. *Science advances*, 8(22), eabm2970.

Liang S, et al. (2022) Family with sequence similarity 46 member a confers chemo-resistance to ovarian carcinoma via TGF- β /Smad2 signaling. *Bioengineered*, 13(4), 10629.

Di Pietro L, et al. (2021) Shaping modern human skull through epigenetic, transcriptional and post-transcriptional regulation of the RUNX2 master bone gene. *Scientific reports*, 11(1), 21316.

Lian GY, et al. (2021) Inhibition of tumor invasion and metastasis by targeting TGF- β -Smad-MMP2 pathway with Asiatic acid and Naringenin. *Molecular therapy oncolytics*, 20, 277.

Chuang YT, et al. (2021) Ets1 Promotes the Differentiation of Post-Selected iNKT Cells through Regulation of the Expression of V β 14J β 18 T Cell Receptor and PLZF. *International journal of molecular sciences*, 22(22).

Gyamfi J, et al. (2021) Interaction between CD36 and FABP4 modulates adipocyte-induced fatty acid import and metabolism in breast cancer. *NPJ breast cancer*, 7(1), 129.

Wang CM, et al. (2021) Forkhead Box Protein P3 (FOXP3) Represses ATF3 Transcriptional Activity. *International journal of molecular sciences*, 22(21).

Chen Y, et al. (2021) Sox9/INHBB axis-mediated crosstalk between the hepatoma and hepatic stellate cells promotes the metastasis of hepatocellular carcinoma. *Cancer letters*, 499, 243.