

Resource Summary Report

Generated by [dkNET](#) on Aug 24, 2026

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

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: 20260821T194133+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 34 mentions in open access literature.

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

Kim SW, et al. (2026) Conserved noncoding sequence-9 regulates NFATc1-mediated IL-10 expression in B cells to control inflammatory responses. Science advances, 12(17), eaec7779.

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.

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

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.

Saito S, et al. (2024) Functional analysis of a first hindlimb positioning enhancer via Gdf11 expression. Frontiers in cell and developmental biology, 12, 1302141.

Liang X, et al. (2023) LINP1 represses unfolded protein response by directly inhibiting eIF2 γ phosphorylation to promote cutaneous squamous cell carcinoma. Experimental

hematology & oncology, 12(1), 31.

Bahmani L, et al. (2023) The PBX1/miR-141-miR-200a/EGR2/SOCS3 Axis; Integrative Analysis of Interaction Networks to Discover the Possible Mechanism of MiR-141 and MiR-200a-Mediated Th17 Cell Differentiation. Iranian journal of biotechnology, 21(1), e3211.

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 palsy. 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 chemoresistance 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.