

Resource Summary Report

Generated by [SPARC SAWG](#) on Sep 14, 2026

oPOSSUM

RRID:SCR_010884

Type: Tool

Proper Citation

oPOSSUM (RRID:SCR_010884)

Resource Information

URL: <http://opossum.cisreg.ca>

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Description: A web-based system for the detection of over-represented conserved transcription factor binding sites and binding site combinations in sets of genes or sequences.

Abbreviations: oPOSSUM

Synonyms: oPOSSUM-3

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

Defining Citation: [PMID:22973536](#), [PMID:17576675](#), [PMID:15933209](#)

Keywords: transcription factor binding site

Availability: Acknowledgement requested

Resource Name: oPOSSUM

Resource ID: SCR_010884

Alternate IDs: OMICS_00488

Record Creation Time: 20220129T080301+0000

Record Last Update: 20260912T195725+0000

Ratings and Alerts

No rating or validation information has been found for oPOSSUM.

No alerts have been found for oPOSSUM.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 101 mentions in open access literature.

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

Martínez-Ramos S, et al. (2023) HOXA5 is a key regulator of class 3 semaphorins expression in the synovium of rheumatoid arthritis patients. *Rheumatology (Oxford, England)*, 62(7), 2621.

Silva-García CG, et al. (2023) The CRTC-1 transcriptional domain is required for COMPASS complex-mediated longevity in *C. elegans*. *Nature aging*, 3(11), 1358.

Rolver MG, et al. (2023) Chronic acidosis rewires cancer cell metabolism through PPAR γ signaling. *International journal of cancer*, 152(8), 1668.

Caratti G, et al. (2023) Macrophagic AMPK α 1 orchestrates regenerative inflammation induced by glucocorticoids. *EMBO reports*, 24(2), e55363.

Russell ND, et al. (2022) The dynamic effect of genetic variation on the in vivo ER stress transcriptional response in different tissues. *G3 (Bethesda, Md.)*, 12(6).

Min S, et al. (2022) Heat shock protein 60 couples an oxidative stress-responsive p38/MK2 signaling and NF- κ B survival machinery in cancer cells. *Redox biology*, 51, 102293.

Suleman S, et al. (2022) HIV- 1 lentivirus tethering to the genome is associated with transcription factor binding sites found in genes that favour virus survival. *Gene therapy*, 29(12), 720.

Gothé F, et al. (2022) Aberrant inflammatory responses to type I interferon in STAT2 or IRF9 deficiency. *The Journal of allergy and clinical immunology*, 150(4), 955.

Cook TM, et al. (2021) Vagal neuron expression of the microbiota-derived metabolite receptor, free fatty acid receptor (FFAR3), is necessary for normal feeding behavior. *Molecular metabolism*, 54, 101350.

Li J, et al. (2021) Extensive Variation in Drought-Induced Gene Expression Changes Between Loblolly Pine Genotypes. *Frontiers in genetics*, 12, 661440.

Wang Z, et al. (2021) Fos Facilitates Gallid Alpha-Herpesvirus 1 Infection by Transcriptional Control of Host Metabolic Genes and Viral Immediate Early Gene. *Viruses*,

13(6).

Erdene-Ochir E, et al. (2021) Characterization of endogenous promoters of GapC1 and GS for recombinant protein expression in *Phaeodactylum tricornutum*. *MicrobiologyOpen*, 10(5), e1239.

Venkatesh I, et al. (2021) Co-occupancy identifies transcription factor co-operation for axon growth. *Nature communications*, 12(1), 2555.

Khan F, et al. (2021) IBDDDB: a manually curated and text-mining-enhanced database of genes involved in inflammatory bowel disease. *Database : the journal of biological databases and curation*, 2021.

Gu X, et al. (2021) Glucocorticoids Promote Extracellular Matrix Component Remodeling by Activating YAP in Human Retinal Capillary Endothelial Cells. *Frontiers in cell and developmental biology*, 9, 738341.

Ahmed A, et al. (2021) Maternal obesity persistently alters cardiac progenitor gene expression and programs adult-onset heart disease susceptibility. *Molecular metabolism*, 43, 101116.

Del Favero G, et al. (2021) Exploring the dermatotoxicity of the mycotoxin deoxynivalenol: combined morphologic and proteomic profiling of human epidermal cells reveals alteration of lipid biosynthesis machinery and membrane structural integrity relevant for skin barrier function. *Archives of toxicology*, 95(6), 2201.

Matsumoto H, et al. (2021) HIVEP1 Is a Negative Regulator of NF- κ B That Inhibits Systemic Inflammation in Sepsis. *Frontiers in immunology*, 12, 744358.

Sharanek A, et al. (2021) Transcriptional control of brain tumor stem cells by a carbohydrate binding protein. *Cell reports*, 36(9), 109647.

Lowell JA, et al. (2021) Phenotypic Screening Following Transcriptomic Deconvolution to Identify Transcription Factors Mediating Axon Growth Induced by a Kinase Inhibitor. *SLAS discovery : advancing life sciences R & D*, 26(10), 1337.