

Resource Summary Report

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Motif Mutation Analysis for Regulatory Genomic Elements

RRID:SCR_021902

Type: Tool

Proper Citation

Motif Mutation Analysis for Regulatory Genomic Elements (RRID:SCR_021902)

Resource Information

URL: <https://github.com/vlink/marge>

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Description: Software package that integrates genome wide genetic variation with epigenetic data to identify collaborative transcription factor pairs. Optimized to work with chromatin accessibility assays such as ATAC-seq or DNase I hypersensitivity, as well as transcription factor binding data collected by ChIP-seq. Used to identify combinations of cell type specific transcription factors while simultaneously interpreting functional effects of non-coding genetic variation.

Abbreviations: MMARGE

Resource Type: software toolkit, software application, data processing software, data analysis software, software resource

Defining Citation: [PMID:29893919](#)

Keywords: genome wide genetic variation, epigenetic data, identify collaborative transcription factor pairs, interpreting functional effects, non-coding genetic variation

Funding: NCI CA173903;
NIGMS GM085764;
NIDDK DK091183;
NHLBI R00 123485

Availability: Free, Available for download, Freely available

Resource Name: Motif Mutation Analysis for Regulatory Genomic Elements

Resource ID: SCR_021902

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Ratings and Alerts

No rating or validation information has been found for Motif Mutation Analysis for Regulatory Genomic Elements.

No alerts have been found for Motif Mutation Analysis for Regulatory Genomic Elements.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 608 mentions in open access literature.

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

Liedtke V, et al. (2025) Linking LEDGF/p75 Overexpression With Microsatellite Instability and KRAS Mutations: A Small-Scale Study in Colorectal Cancer. Cancer control : journal of the Moffitt Cancer Center, 32, 10732748251313499.

Zhu W, et al. (2025) Comprehensive analysis of CLEC family genes in gastric cancer prognosis immune response and treatment. Scientific reports, 15(1), 5956.

da Rocha ACA, et al. (2025) Ganciclovir Resistance-Linked Mutations in the HCMV UL97 Gene: Sanger Sequencing Analysis in Samples from Transplant Recipients at a Tertiary Hospital in Southern Brazil. Diagnostics (Basel, Switzerland), 15(2).

Aba Ü, et al. (2024) A Novel Homozygous Germline Mutation in Transferrin Receptor 1 (TfR1) Leads to Combined Immunodeficiency and Provides New Insights into Iron-Immunity Axis. Journal of clinical immunology, 44(2), 55.

Ariyaratne D, et al. (2024) Simultaneous co-circulation of two genotypes of dengue virus serotype 3 causing a large outbreak in Sri Lanka in year 2023. medRxiv : the preprint server for health sciences.

Xiang Z, et al. (2024) Engineering of a DNA/?PNA Hybrid Nanoreporter for ctDNA Mutation Detection via ?PNA Urinalysis. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(33), e2310225.

Huang F, et al. (2024) M2 Macrophage Classification of Colorectal Cancer Reveals Intrinsic Connections with Metabolism Reprogramming and Clinical Characteristics. Pharmacogenomics and personalized medicine, 17, 383.

Lu H, et al. (2024) Prognostic Value of IGFBP6 in Breast Cancer: Focus on Glucometabolism. Technology in cancer research & treatment, 23, 15330338241271998.

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- Li X, et al. (2024) Machine Learning-Based Pathomics Model to Predict the Prognosis in Clear Cell Renal Cell Carcinoma. *Technology in cancer research & treatment*, 23, 15330338241307686.
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- Mo X, et al. (2024) Impact of Mitophagy-Related Genes on the Diagnosis and Development of Esophageal Squamous Cell Carcinoma via Single-Cell RNA-seq Analysis and Machine Learning Algorithms. *Journal of microbiology and biotechnology*, 34(11), 2362.
- Andersson E, et al. (2024) Loss of Fshr Prevents Testicular Maturation in Atlantic Salmon (*Salmo salar* L.). *Endocrinology*, 165(4).
- Sukhan ZP, et al. (2024) Molecular Characterization, Expression Analysis, and CRISPR/Cas9 Mediated Gene Disruption of Myogenic Regulatory Factor 4 (MRF4) in Nile Tilapia. *Current issues in molecular biology*, 46(12), 13725.
- Ge H, et al. (2024) A Novel Mutation of the ADAR1 Gene in a Chinese Family with Dyschromatosis Symmetrica Hereditaria and Literature Review. *Clinical, cosmetic and investigational dermatology*, 17, 2687.
- Zuo W, et al. (2024) A Novel Urine DNA Predictor for Noninvasive Early Diagnosis and Monitoring Minimal Residual Disease of Upper Tract Urothelial Carcinoma. *Cancer medicine*, 13(20), e70346.
- Liu X, et al. (2024) Abnormal Cellular Populations Shape Thymic Epithelial Tumor Heterogeneity and Anti-Tumor by Blocking Metabolic Interactions in Organoids. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 11(42), e2406653.
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