

# Resource Summary Report

Generated by [RRID](#) on Aug 2, 2026

## eXpression2Kinases

RRID:SCR\_016307

Type: Tool

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### Proper Citation

eXpression2Kinases (RRID:SCR\_016307)

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### Resource Information

**URL:** <http://amp.pharm.mssm.edu/X2K/>

**Proper Citation:** eXpression2Kinases (RRID:SCR\_016307)

**Description:** Software tool to produce inferred networks of transcription factors, proteins, and kinases predicted to regulate the expression of the inputted gene list by combining transcription factor enrichment analysis, protein-protein interaction network expansion, with kinase enrichment analysis. It provides the results as tables and interactive vector graphic figures.

**Abbreviations:** X2K

**Synonyms:** eXpression2Kinases, X2K

**Resource Type:** software resource, software application

**Defining Citation:** [PMID:22080467](#)

**Keywords:** inferred, network, transcription, factor, protein, kinase, regulate, expression, gene, analysis, combine, bio.tools

**Funding:** NIGMS P50 GM071558;  
NIDDK R01 DK088541;  
NLM RC2 LM010994;  
NIDDK P01 DK056492;  
NIDDK RC4DK090860;  
NCRR KL2 RR029885

**Availability:** Open source, Free, Freely available, Available for download

**Resource Name:** eXpression2Kinases

**Resource ID:** SCR\_016307

**Alternate IDs:** biotools:x2k

**Alternate URLs:** <https://bio.tools/x2k>, <http://www.maayanlab.net/X2K/>

**Record Creation Time:** 20220129T080330+0000

**Record Last Update:** 20260801T191108+0000

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## Ratings and Alerts

No rating or validation information has been found for eXpression2Kinases.

No alerts have been found for eXpression2Kinases.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Alqahtani SM, et al. (2024) System biology approach to identify the novel biomarkers in glioblastoma multiforme tumors by using computational analysis. *Frontiers in pharmacology*, 15, 1364138.

de Castro JNP, et al. (2024) Comparative transcriptomic analysis of circulating endothelial cells in sickle cell stroke. *Annals of hematology*, 103(4), 1167.

Rex DAB, et al. (2022) Temporal Quantitative Phosphoproteomics Profiling of Interleukin-33 Signaling Network Reveals Unique Modulators of Monocyte Activation. *Cells*, 11(1).

Toraih EA, et al. (2021) Hidden in plain sight: The effects of BCG vaccination in the COVID-19 pandemic. *Journal of medical virology*, 93(4), 1950.