

Resource Summary Report

Generated by [RRID](#) on Aug 15, 2026

BEACON

RRID:SCR_027484

Type: Tool

Proper Citation

BEACON (RRID:SCR_027484)

Resource Information

URL: <https://github.com/Huang-lab/BEACON>

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Description: Software application to perform Bayesian analysis on expression and gene dependency data across different cell lineages. Integrates expression as the dependent variable and gene dependency data as the independent variable. Used to identify cancer gene targets by jointly analyzing global transcriptomic and proteomic profiles with genetic dependency data of cancer cell lines across tissue lineages.

Resource Type: source code, software repository, software resource

Defining Citation: [PMID:39484404](#)

Keywords: analyzing global transcriptomic, proteomic profiles, genetic dependency data, cancer cell lines,

Availability: Free, Available for download, Freely available

Resource Name: BEACON

Resource ID: SCR_027484

License: MIT

License URLs: <https://github.com/Huang-lab/BEACON?tab=MIT-1-ov-file#readme>

Record Creation Time: 20250930T070756+0000

Record Last Update: 20260815T183253+0000

Ratings and Alerts

No rating or validation information has been found for BEACON.

No alerts have been found for BEACON.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Elmas A, et al. (2026) Expression-driven genetic dependency reveals targets for precision oncology. GigaScience, 15.

Silva FJ, et al. (2022) Construction and Analysis of the Complete Genome Sequence of Leprosy Agent Mycobacterium lepromatosis. Microbiology spectrum, 10(3), e0169221.