

Resource Summary Report

Generated by [SPARC SAWG](#) on Sep 17, 2026

Models of SHM Targeting and Substitution

RRID:SCR_005250

Type: Tool

Proper Citation

Models of SHM Targeting and Substitution (RRID:SCR_005250)

Resource Information

URL: <http://clip.med.yale.edu/SHM>

Proper Citation: Models of SHM Targeting and Substitution (RRID:SCR_005250)

Description: A targeting model that defines where mutations occur (by specifying the relative rates at which DNA motifs in the Ig sequence are mutated), and a nucleotide substitution model that defines the resulting mutation (by specifying the probability of each base mutating to each of the other three possibilities as a function of the surrounding bases).

Abbreviations: S5F

Synonyms: S5F - Models of SHM Targeting and Substitution, Models of SHM Targeting and Substitution

Resource Type: data or information resource, data set

Defining Citation: [PMID:24298272](#)

Keywords: somatic hypermutation, substitution, targeting, aid, b cell, affinity maturation, immunoglobulin, mutability, mutation, model, targeting model, nucleotide substitution model

Availability: Creative Commons Attribution-NonCommercial-ShareAlike License, v3 Unported

Resource Name: Models of SHM Targeting and Substitution

Resource ID: SCR_005250

Alternate IDs: OMICS_00302

Record Creation Time: 20220129T080229+0000

Record Last Update: 20260912T200315+0000

Ratings and Alerts

No rating or validation information has been found for Models of SHM Targeting and Substitution.

No alerts have been found for Models of SHM Targeting and Substitution.

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 [SPARC SAWG](#) .

Spisak N, et al. (2020) Learning the heterogeneous hypermutation landscape of immunoglobulins from high-throughput repertoire data. Nucleic acids research, 48(19), 10702.

Bohannon C, et al. (2016) Long-lived antigen-induced IgM plasma cells demonstrate somatic mutations and contribute to long-term protection. Nature communications, 7, 11826.