

Resource Summary Report

Generated by SPARC SAWG on Aug 9, 2026

SECISearch3 and Sebastian

RRID:SCR_003186

Type: Tool

Proper Citation

SECISearch3 and Sebastian (RRID:SCR_003186)

Resource Information

URL: <http://gladyshevlab.org/SelenoproteinPredictionServer/>

Proper Citation: SECISearch3 and Sebastian (RRID:SCR_003186)

Description: Web server to predict eukaryotic selenoproteins and SECIS (SElenoCysteine Insertion Sequences) elements along nucleotide sequences. SECISearch3 replaces its predecessor SECISearch as a tool for prediction of eukaryotic SECIS elements. Sebastian is a method for selenoprotein gene detection that uses SECISearch3 and then predicts selenoprotein sequences encoded upstream of SECIS elements. Sebastian is able to both identify known selenoproteins and predict new selenoproteins.

Abbreviations: SECISearch, Sebastian, SECISearch3

Synonyms: Selenoprotein prediction server

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

Defining Citation: [PMID:23783574](#)

Keywords: selenoprotein, nucleotide sequence, selenocysteine insertion sequence, sequence

Availability: Public, Acknowledgement requested

Resource Name: SECISearch3 and Sebastian

Resource ID: SCR_003186

Alternate IDs: OMICS_01566

Record Creation Time: 20220129T080217+0000

Record Last Update: 20260808T190343+0000

Ratings and Alerts

No rating or validation information has been found for SECISearch3 and Seblastian.

No alerts have been found for SECISearch3 and Seblastian.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Craig RJ, et al. (2021) An Ancient Clade of Penelope-Like Retroelements with Permuted Domains Is Present in the Green Lineage and Protists, and Dominates Many Invertebrate Genomes. Molecular biology and evolution, 38(11), 5005.