

Resource Summary Report

Generated by [dkNET](#) on Sep 4, 2026

S/MARt DB

RRID:SCR_007910

Type: Tool

Proper Citation

S/MARt DB (RRID:SCR_007910)

Resource Information

URL: <http://smartdb.bioinf.med.uni-goettingen.de/>

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Description: It collects information about scaffold/matrix attached regions and the nuclear matrix proteins that are supposed be involved in the interaction of these elements with the nuclear matrix. It covers the whole range from yeast to human. The SMAR table gives information on individual sequence elements of experimentally proven matrix binding activity. In release 2.3 it contains 500 entries. The sequences therein can be assigned to more than 150 genes from eukaryotic species ranging from yeast to human. The SMARbinder table contains 96 entries (release 2.3), but this figure does not reflect the number of independent S/MAR binding proteins. First of all, homologous factors from different species such as human and mouse SATB1 are given in different entries since they may differ in some aspects. Moreover, products of distinct but very similar genes or alternative splice products are included as separate entries. In some cases a more general term defining a S/MAR-binding activity may appear as one entry eventhough it might be composed of two or more subunits. The SMARbinder table will only contain those proteins of nuclear localization for which an interaction with a well defined S/MAR has been shown. Besides that the SMARbinder table will also include proteins that are proven components of the the salt-resitent (LIS-resistant) nuclear matrix. Gene entries, besides of giving the gene name in a long and a short (abbreviated) denomination, collect all links to individual S/MARs given in S/MARt DB and/or provide pointers to "S/MARbinders". The entries also contain links to transcription factor binding sites listed in TRANSFAC and give a link to the corresponding TRRD entry describing the regulatory features of the gene on different hierarchical levels.

Synonyms: S/MARt DB

Resource Type: data or information resource, database

Resource Name: S/MARt DB

Resource ID: SCR_007910

Alternate IDs: nif-0000-03432

Record Creation Time: 20220129T080244+0000

Record Last Update: 20260904T000239+0000

Ratings and Alerts

No rating or validation information has been found for S/MARt DB.

No alerts have been found for S/MARt DB.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Barboro P, et al. (2012) The role of nuclear matrix proteins binding to matrix attachment regions (Mars) in prostate cancer cell differentiation. PloS one, 7(7), e40617.

Barboro P, et al. (2009) Proteomic analysis of the nuclear matrix in the early stages of rat liver carcinogenesis: identification of differentially expressed and MAR-binding proteins. Experimental cell research, 315(2), 226.

Galperin MY, et al. (2005) The Molecular Biology Database Collection: 2005 update. Nucleic acids research, 33(Database issue), D5.