

Resource Summary Report

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

Database for Antisense Oligonucleotides Selection and Design

RRID:SCR_001753

Type: Tool

Proper Citation

Database for Antisense Oligonucleotides Selection and Design (RRID:SCR_001753)

Resource Information

URL: <http://www.bioit.org.cn/ao/aobase>

Proper Citation: Database for Antisense Oligonucleotides Selection and Design (RRID:SCR_001753)

Description: THIS RESOURCE IS NO LONGER IN SERVICE, documented on July 15, 2013. AOBBase is a database for antisense oligonucleotides (AOs) selection and design. AOBBase is a database developed to facilitate Antisense Oligonucleotides (ODNs) selection for gene expression modulation and to provide a free data source for computer aided ODNs design. Information about valid and invalid ODNs reported in literature are collected and stored in the database, including oligo sequences, target sequences, secondary structures of the target sites, oligo activity measured, and the assay type used for activity measurement. The details on target RNA molecules and reference literature can be explored through the hyperlinks linked to GenBank and PubMed respectively. Each record can be searched for via two web retrieval interfaces: 1) TargetSearch interface, which allows users to query ODNs by name, accession number, or only imprecise descriptions of its target RNA; 2) AOSearch interface, which allows users to search ODNs with several parameters combined, such as oligo activity measured, oligo concentration applied, and motifs involved in oligo sequences. With these two retrieval interfaces, AOBBase can be used to select effective ODNs for gene function exploration without expensive in vitro screening experiments, and contribute to mining rules for rational ODNs design. A user friendly interface to encourage data submission is provided.

Synonyms: AOBBase

Resource Type: data or information resource, data repository, database, service resource, storage service resource

Defining Citation: [PMID:16381954](#)

Keywords: antisense oligonucleotide, odn, molecular biology database, molecular primers, molecular probes, oligo activity, oligo sequences, target rna

Funding: National Nature Science Foundation of China 30171111;
National High Technology Research and Development Program of China 863 Program 2004AA234031;
Special Funds for Major State Basic Research Program of China 973 Program 2004CB518904

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: Database for Antisense Oligonucleotides Selection and Design

Resource ID: SCR_001753

Alternate IDs: nif-0000-02552

Record Creation Time: 20220129T080209+0000

Record Last Update: 20260912T195530+0000

Ratings and Alerts

No rating or validation information has been found for Database for Antisense Oligonucleotides Selection and Design.

No alerts have been found for Database for Antisense Oligonucleotides Selection and Design.

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 [dkNET](#) .

Bo X, et al. (2006) Selection of antisense oligonucleotides based on multiple predicted target mRNA structures. BMC bioinformatics, 7, 122.