

CAS STNext®

CAS Sequence Search

CAS Sequence Search は CAS STNext 独自の配列検索機能です

- 以下の収録源から集めた膨大な配列コンテンツを対象に、BLAST、CDR、Motif 配列検索プログラムから検索できます
 - CAS が独自のルールに従い収集した REGISTRY ファイル収録の特許・雑誌由来の配列
 - 73 特許発行機関の特許から抽出した配列
 - NCBI 由来の配列

BLAST 配列検索

局所的に類似した配列を検索するプログラム

The screenshot displays the CAS Sequence Search interface. On the left, there are filter options for Sequence Length (151 to 11680), Query Identity % (No Min to No Max), Query Coverage (No Min to No Max), Subject Coverage (No Min to No Max), Subject Identity % (No Min to No Max), and Organism (Homo sapiens (84) and unidentified (43)). The main area shows a table of search results for 'CAS Sequences (1426)' sorted by 'Alignment Identity %: Descending'. The table has columns for Sequence Alignment, Sequence Length, Alignment Identity %, Query Identity %, and Subject Identity %. A detailed alignment view is shown on the right, comparing a Query sequence (208 aa) with a Subject sequence (270 aa). The alignment shows high identity (92.79%) with some gaps. The alignment view includes a bar chart showing the alignment score and a detailed sequence comparison with color-coded matches and mismatches.

Sequence Alignment	Sequence Length	Alignment Identity %	Query Identity %	Subject Identity %
[Progress bar]	501	99.34	99.34	29.94
[Progress bar]	4684	99.34	99.34	3.20
[Progress bar]	1029	99.34	99.34	14.58
[Progress bar]	980	99.34	99.34	15.31
[Progress bar]	580	99.28	91.39	23.79
[Progress bar]	628	98.68	98.68	23.73
[Progress bar]	2473	98.68	98.68	6.03
[Progress bar]	3696	98.68	98.68	4.03

アライメント概要

コードの一致・不一致をカラーで区別

絞り込み機能が充実

CDR 配列検索

抗体と T 細胞受容体の CDR を指定し検索するプログラム

Search Sequences Close

BLAST **CDR** Motif Name: 2025_0017_Sequence_01

Import Sequence Download Clear

> CDR 1 gyafsss

> CDR 2 ypgded

> CDR 3 sllygdylly

最大 3 配列入力可能

Filter By

CDR Matching

CAS Sequences (253) Sort By: Alignment Identity %: Descending

Get All Patent Numbers Show Search Details

Sequence Alignment	Sequence Length	Alignment Identity %	Query Identity %	Subject Identity %	Number of Documents
	681	100.00	100.00	3.38	87 View Less

Alignment Subject

Query: 1 GYAFSSS 7
GYAFSSS
Subject: 47 GYAFSSS 53

> CDR 2

Query: 1 YPGDED 6
YPGDED
Subject: 73 YPGDED 78

> CDR 3

Query: 1 SLLYGDYLDY 10
SLLYGDYLDY
Subject: 120 SLLYGDYLDY 129

Query Coverage: No Min to No Max

Subject Coverage: No Min to No Max

Subject Identity %: No Min to No Max

CDR 配列検索はベン図で絞り込めます

Motif 配列検索

DNA、RNA タンパク質中の短いパターン配列を検索するプログラム

BLAST CDR **Motif** Name: 2025_0004_Sequence

Import Sequence Download Clear

1 GI IAI FGT T[SB]YA QK FQG

[] で代替残基を指定

Sequence type
 Nucleotide Protein

Combine Motif Results ⓘ

[Learn more about Motif](#)

> [Advanced Sequence Search](#) Run Search Save Query Cancel