



# Sequence Search Service



**Sequence information is an important part of the intellectual property. Compared to databases offered for free, searches in the sequence databases on STN® are characterized by their unique coverage of patents and the early availability of the sequences.**

#### **Our offer**

We are experts in the field of sequence searching and offer:

- exact sequence searches (Sequence Code Match)
- homology searches (BLAST, FASTA)

We search for you:

- protein and nucleotide sequences
- translated sequences

The following databases are searched by default\*:

- DGENE (Derwent Geneseq™)
- USGENE (USPTO Genetic Sequence Database)
- PCTGEN (World Patent Application Biosequences)
- REGISTRY<sup>SM</sup>/CAplus<sup>SM</sup> (Chemical Abstracts Service Registry file)

We check the search results for relevance and remove duplicates.

Additional key word searches including duplicate removal between sequence and key word search are also available. If required, we will also search for additional information, e.g. family or legal status information.

\* more information on the databases is available at [www.stn-international.de](http://www.stn-international.de)

## Your benefits

Our search results are of high quality and contain a detailed search report with a summary of the topic from the searcher's point of view, a description of the strategy, a section with the relevant and categorized answers, and a list of the databases used. We also deliver charts of the results, if desired including the sequence alignments. We will discuss all steps of the search with you in advance, e.g. by phone, by e-mail, or by web conference. You decide how much time and effort we put into the search. The total costs are composed of handling charges plus database costs. Of course we will keep all your searches strictly confidential. Within the scope of our quality assurance, the search strategy is checked by a second searcher.

**Search example:** BLAST search with the protein sequence of "eucaryotic translation elongation factor 1 gamma" (NP\_001395)

- Only patent documents are considered relevant.
- Only one document of each patent family is examined, and only the best alignment of each patent document.
- The databases DGENE, USGENE, PCTGEN and REGISTRY<sup>SM</sup>/Caplus<sup>SM</sup> are searched.

Relevant answers after the duplicates have been removed:

Database	DGENE	USGENE	PCTGEN	REGISTRY <sup>SM</sup> /Caplus <sup>SM</sup>	total
Hit	26	9	1	16	52

Chart including alignments

	A	B	C	D	E	F	G
	Full-Text	Patent Assignee	Title	Patent Number	PK	PSL	BLAST Alignment
1	<a href="#">Full-text</a>	(ONCO-N) ONCOTHERAPY SCI INC.	New isolated double-stranded molecule that, when introduced into cell inhibits in vivo expression of e.g. cyclin-dependent kinase inhibitor 3 and compleies sense strand and antisense strand complementary to it, used to treat cancers.	WO 2009028580	A1	Disclosure; SEQ ID NO 33	Query - 437 letters Length = 437 Score = 902 bits (2331), Expect = 0.0 Ident1Len = 259/259 (100%), Positives = 259/259 (100%) Query: 1 MAADITLTYTFENRRAFKA... Sbjct: 1 MAADITLTYTFENRRAFKA... Query: 61 FEEDDQCFVFESNA... Sbjct: 61 FEEDDQCFVFESNA... Query: 121 DTLSEVALPTWRFHF... Sbjct: 121 DTLSEVALPTWRFHF... Query: 181 ILFPTNNSSSISG... Sbjct: 181 ILFPTNNSSSISG... Query: 241 GAFQVGRKAF... Sbjct: 241 GAFQVGRKAF...
2	<a href="#">Full-text</a>	(APPLN) APPLERA CORP.	New detection reagent, useful for detecting single nucleotide polymorphisms associated with human disease.	US 20070037165	A1	Disclosure; SEQ ID NO 10598	Query - 437 letters Length = 443 Score = 902 bits (2331), Expect = 0.0 Ident1Len = 259/259 (100%), Positives = 259/259 (100%) Query: 1 MAADITLTYTFENRRAFKA... Sbjct: 7 MAADITLTYTFENRRAFKA... Query: 61 FEEDDQCFVFESNA... Sbjct: 67 FEEDDQCFVFESNA... Query: 121 MHNKQATENAKESV... Sbjct: 127 MHNKQATENAKESV... Query: 181 ILFPTNNSSSISG... Sbjct: 187 ILFPTNNSSSISG... Query: 241 GAFQVGRKAF... Sbjct: 247 GAFQVGRKAF...

**FIZ Karlsruhe – Leibniz Institute for Information Infrastructure** is a service partner for information transfer and knowledge management in science and research.

As a non-profit service institution of the Leibniz Association (WGL) it has the mission to make sci-tech information from all over the world available to the public and to provide the related services. Target groups are scientists working in business and industry, at research institutions, and at universities.

### **Contact**

FIZ Karlsruhe – Leibniz Institute for Information Infrastructure  
Hermann-von-Helmholtz-Platz 1  
76344 Eggenstein-Leopoldshafen  
Germany

Phone: +49-7247 808 555  
Fax: +49-7247 808 259  
[searchservice@fiz-karlsruhe.de](mailto:searchservice@fiz-karlsruhe.de)  
[www.fiz-karlsruhe.de/search\\_service.html](http://www.fiz-karlsruhe.de/search_service.html)

If you would like us to perform a search for you, please contact us. We will be happy to provide you with detailed advice and a time and cost estimate.

Juli 2012