

BizInt Smart Charts

for Patents

Create IP sequence reports from these databases...

■ GQPAT

GQPAT is a database of sequences from patents hosted only on GenomeQuest. There are two segments to the database - proteins and nucleotides. All search types are supported.

■ Derwent GeneSeq

GeneSeq is a database of sequences from patents. Records include Derwent value-added data such as Derwent families, standardized assignees, enhanced titles and abstracts. We support Derwent GeneSeq on both GenomeQuest and as DGENE on STN. On STN we support BLAST and GETSIM sequence searches (FASTA support not implemented.)

■ CAS Biosequences

CAS Biosequences are available from GenomeQuest. This collection includes enhanced indexing such as biosequence modifications and roles from the REGISTRY database. (Available in Version 5.3 and later)

■ USGENE

USGENE is a database of sequences from US patents and applications, hosted only on STN. We support BLAST and GETSIM searches.

■ PCTGEN

PCTGEN is a database of sequences from WO applications, hosted on STN. We support BLAST and GETSIM searches.

Tip: From STN, include the AN field in USGENE/PCTGEN; PSL and DESC in DGENE

More details on creating reports from these databases can be found on our website, under Support | Creating Reports from Databases and Hosts.

You can combine data from different databases or queries, and use the Sequence ID, Publication Number, or Common Patent Family columns to identify related sequence query results.

BizInt Smart Charts for Patents supports the IP sequence databases listed at left. An IP sequence report can include bibliographic patent data, sequence data (e.g. Sequence ID) and query results. *See sample chart on back.*

Generating Sequence IDs

BizInt Smart Charts attempts to create a sequence ID from all databases to populate the Sequence ID column. If the database does not provide a sequence ID, BizInt Smart Charts will combine the sequence number and publication in order to create a sequence ID. This improves the ability to find “duplicates” across databases and queries.

Summarizing Key Data on Related Sequences

Two features in BizInt Smart Charts Reference Rows help you create a subtable summarizing key columns for related sequences. *See sample Reference Rows chart on back for more details.*

Combining without Removing Duplicates

BizInt Smart Charts usually keeps only one copy of each record (based on accession number) when combining charts. However, a sequence may be retrieved by several queries and you may wish to keep all the records. Use the “Combine without removing duplicates” preset in the Combine wizard to retain all rows in your combined chart.

Fixed Width Text Handling for Alignments

You can apply the Text | Fixed Width option to the Alignment column to change the selected cells to Courier font and ensure that spaces appear properly in HTML exports (except the Excel - Optimized HTML export.)

View Alignments in Summary Records

The Word - Summary Records export (*see example at right*) allows you to show the complete alignment for a sequence — select the “Include Alignment” check box on the Summary Records options panel.

This is helpful for longer queries, which are often truncated in the Alignment column in the table.

Patent Family:	Patent	Kind	Date
	US 2014356959	A	2014-12-04
	US 2014356958	A	2014-12-04
	AU 2014274939	AA	2014-12-11
	WO 14197588	A2	2014-12-11
	WO 14197588	A3	2015-03-12
	CA 2914638	AA	2015-12-04
	KR 20160014036	A	2016-02-05

Sequence Summary:	Seq. ID Number	% Identity	Length	Location
	US20140356959-0001	100.00	1368	probable disclosure (not found by automated parsing)
	US20140356956-0001	100.00	1368	probable disclosure (not found by automated parsing)

Alignment:	Q:	S:	Q:	S:
	1	1	61	60
	1	1	61	60
	61	61	120	120
	61	61	120	120

IP Sequence Reports — sample charts

GQPAT Proteins: Antibodies_GenomeQuest								
	Title	Patent Assignee	Seq. ID Number	Patent Sequence Location	Organism Species	Alignment	Percentage Identity	
1	Nucleic acid sequences relating to <i>Bacteroides fragilis</i> for diagnostics and therapeutics	OSCIENT PHARMACEUTICALS CORPORATION WALTHAM, MA	US7090973-6862	disclosure	<i>Bacteroides fragilis</i>	Q: 1 KV--SNR-LY 7 S: 340 KVDMSNRILY 349	70.00	
2	Expression of microbial proteins in plants for production of plants with improved properties	MONSANTO TECHNOLOGY, LLC ST. LOUIS, MO	US7314974-14121	disclosure	<i>Pseudomonas fluorescens</i>	Q: 1 K-VS--NRLY 7 S: 597 KLVSDLNRLY 606	70.00	
3	Production and use of novel peptide-based agents for use with bi-specific antibodies	IMMUNOMEDICS INC. MORRIS PLAINS, NJ	US6962702-0008	disclosure	Artificial Sequence	Q: 1 RSSQSIVHSNGNTYLQ 16 S: 24 RSSQSIVHSNGNTYLE 39	93.75	
4	Chimeric, human and humanized anti-CSAP monoclonal antibodies	IMMUNIMEDICS, INC. MORRIS PLAINS, NJ	US7887772-0032	disclosure	Murine sp.	Q: 1 RSSQSIVHSNGNTYLQ 16 S: 24 RSSQSIVHSNGNTYLE 39	93.75	
5	Chimeric, human and humanized anti-monoclonal antibodies		7414121-0032	disclosure	Murine sp.	Q: 1 RSSQSIVHSNGNTYLQ 16 S: 24 RSSQSIVHSNGNTYLE 39	93.75	
6	Production and use of novel peptide-based agents for use with bi-specific antibodies	IMMUNOMEDICS, INC. MORRIS PLAINS, NJ	US7429381-0008	disclosure	Artificial Sequence	Q: 1 RSSQSIVHSNGNTYLQ 16 S: 24 RSSQSIVHSNGNTYLE 39	93.75	
7	Production and use of novel peptide-based agents for use with bi-specific antibodies	IMMUNOMEDICS INC. MORRIS PLAINS, NJ	US6962702-0012	disclosure	Artificial Sequence	Q: 1 RSSQSIVHSNGNTYLQ 16 S: 24 RSSQSIVHSNGNTYLE 39	93.75	
8	Production and use of novel peptide-based agents for use with bi-specific antibodies	IMMUNOMEDICS, INC. MORRIS PLAINS, NJ	US7429381-0012	disclosure	Artificial Sequence	Q: 1 RSSQSIVHSNGNTYLQ 16 S: 24 RSSQSIVHSNGNTYLE 39	93.75	
9	Covalently reactive transition state analogs and methods of use thereof	BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM AUSTIN, TX			<i>Escherichia coli</i> <i>musculus domesticus</i>	Q: 1 RSSQSIVHSNGNTYLQ 16 S: 24 RSSQSIVHSNGNTYLE 39	93.75	

Bibliographic Data

Query Results

Sequence Data

Title	Patent Family			Sequence Locations				Database	
	Patent	Kind	Date	Sequence	% Identity	Length	Location		
37. TRANSLOCATION AND MUTANT ROS KINASE IN HUMAN NON-SMALL CELL LUNG CARCINOMA	WO 200784631	A2	20070726	WO20070084631-0005	88.37	129	Claim 10; SEQ ID NO 5; 127pp; English.	37.3	37.1 FAMPAT
	EP 1973946	A2	20081001						37.2 FAMPAT
	WO 200784631	A3	20081231	WO20070084631-0006	99.95	2073	Claim 1; SEQ ID NO 6; 127pp; English.	37.4	37.3 GENESEQ link
	JP 2009523446	A	20090625	JP2009523446-0017	88.37	129	TBD (information not in GQ-Pat)	37.5	37.4 GENESEQ link
	CN 101528921	A	20090909						37.5 GPATPRT link
	US 20100143918	A1	20100610	US20120208824-0003	88.37	129	probable disclosure (not found by automated parsing)	37.6	37.6 GPATPRT link
	EP 1973946	A4	20100811						37.7 GPATPRT link
	US 20100298404	A1	20101125						37.8 GPATPRT link
				EP1973946-0005	88.37	129	TBD (information not in GQ-Pat)	37.7	37.9 GPATPRT link
				US20100143918-0005	88.37	129	claim: 1; 8	37.8	37.10 GPATNUC link
				US20100298404-0005	88.37	129	claim: 1; 10	37.9	37.11 GPATNUC link
				US20100143918-0006	99.95	2073	claim: 1	37.10	37.12 GPATNUC link
				US20100298404-0006	99.95	2073	claim: 1	37.11	37.13 GPATNUC link
				JP2009523446-0003	99.95	2073	TBD (information not in GQ-Pat)	37.12	37.14 GPATNUC link
			US20120208824-0004	99.95	2073	probable disclosure (not found by automated parsing)	37.13		
			EP1973946-0006	99.95	2073	TBD (information not in GQ-Pat)	37.14		

Summarizing Sequence Locations in a Patent Family

The "Sequence Locations" subtable in the chart above was created in BizInt Smart Charts Reference Rows using the "Create Subtable from Columns" tool and applying the "Summarize All Values" rule to the column.

See the "recipe" in the Cookbook of Reports & Visualizations for more detail: bizint.com/Cookbook