

Sequence Search on STN

- IPOPHL sample cases -

May 21, 2019

Eunyoung Kim
Patent Examiner / Ph.D.

Biotechnology Examination Division
Korean Intellectual Property Office



CLAIMS

1. An oligonucleotide having the nucleotide sequence SEQ NO. 1 - 5' - CACCAGGGGTCTGGAATATGT - 3'.
2. An oligonucleotide having the nucleotide sequence SEQ NO. 2 - 5' - AGCTCCAGCTTCAATTTGCTCT - 3'.
3. An oligonucleotide having the nucleotide sequence SEQ NO. 3 - 5' - CAACACGTCGCCAAACGTTATCC - 3'.
4. An oligonucleotide having the nucleotide sequence SEQ NO. 4 - 5' - CAGCAATGCAGCCAGATCAAATC - 3'.
5. An oligonucleotide having the nucleotide sequence SEQ NO. 5 - 5' - (FAM)CACGAATGCA(BHQ1)AGCCGTTGATGACTTACCTAT - 3'.

Search for nucleic acid sequences



Basic Commands

FILE FIL	Enter a database or cluster to search or display answers.	=> FILE REGISTRY => FIL PATENTS
SEARCH S	Perform a search. If you do not append a search code, the search is performed in the Basic Index.	=> SEARCH BATES C/AU => S TSCA

Exact and Pattern Searching

Search Type	Proteins	Nucleic Acids
Exact	/SQEP	/SQEN
Exact Family	/SQEFP	Not Applicable
Subsequence	/SQSP	/SQSN
Subsequence Family	/SQSFP	Not Applicable

Retrieved from STN website

Case 1



STNext (<https://next.stn.org/>) => Log in

The screenshot displays the STNext login interface. The browser's address bar contains the URL `https://sso.stn.org/as/hRnXZ/resume/as/authorization...`. The main content area features the STNext logo and the tagline "The world's premier solution for scientific, technical and IP research". Below this, a list of benefits is provided: "Unique content", "Unparalleled power and precision", and "Proven reliability". A "Learn more" link is positioned below the list. The login form on the right includes a "Username" field, a "Password" field, a "Keep me signed in" checkbox, and a "Log In" button. A link for "Forgot Username or Password?" is located below the button. At the bottom of the form, a notice states: "By using STNext®, you agree to the License Agreements and Policies". The footer of the page includes copyright notices for 2018 and 2019 American Chemical Society, a "Contact Us" link, and a Twitter icon.

Case 1



Go to Registry DB => Search nucleotide sequence

The image shows three sequential screenshots of the STNNext web interface, illustrating a search process for a nucleotide sequence in the Registry database.

- Left Screenshot:** The user is in the 'HOME' file. The interface shows the STNNext logo and navigation options like 'Transcript ON' and 'File HOME'. The user has entered the command `=> fil reg`.
- Middle Screenshot:** The user has navigated to the 'REGISTRY' file. The interface shows the STNNext logo and navigation options like 'Transcript ON' and 'File REGISTRY'. The user has entered the command `=> s caccagggg`.
- Right Screenshot:** The user is in the 'IPOP HL Sample Case1' file. The interface shows the STNNext logo and navigation options like 'Transcript ON' and 'File REGISTRY'. The user has entered the command `=> enter command`. The search results are displayed as follows:

```
L1          0 SCACCAGGGGTCTGGAATATGT/SQSN
=> s caccaggggtctggaatatgt/sqsn
L2          2 CACCAGGGGTCTGGAATATGT/SQSN
```

The right sidebar of the interface shows session history and a list of commands entered:

- Entered HOME 05:14:27 ON 11 MAY 2019
- Entered REGISTRY 05:15:10 ON 11 MAY 2019
- L1 0 S SCACCAGGGGTCTGGAATATGT/SQSN
- L2 2 S CACCAGGGGTCTGGAATATGT/SQSN

The bottom of the interface features a 'Submit' button and a 'Scripts' section.

Case 1



Go to CPlus DB => Search documents

The screenshot displays the STNNext web interface. The browser address bar shows the URL <https://next.stn.org/stn/#/>. The page title is "STNNext". The user is logged in as "Young KIM Eun".

The main content area shows a search for "IOPH L Sample Case1" in the CAPLUS database. The search results display the following information:

- File CAPLUS
- REVISD CLASS FIELDS (/NCL) LAST RELOADED: Dec 2015
- USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2015
- Caplus now includes the comprehensive Cooperative Patent Classification (CPC). See [HELP CPC](#) for details.
- CAS Information Use Policies apply and are available at: <http://www.cas.org/legal/infopolicy>
- This file contains CAS Registry Numbers for easy and accurate substance identification.

The search input field contains the query: `=> d abs bib l3 1-2 hitseq`. The "Submit" button is visible at the bottom right of the search area.

The right sidebar shows the "Session" history:

- Entered HOME 05:14:27 ON 11 MAY 2019
- Entered REGISTRY 05:15:10 ON 11 MAY 2019
- L1 0 S SCACCAGGGGTCTGGAATATGT/SQSN
- L2 2 S CACCAGGGGTCTGGAATATGT/SQSN
- Entered CAPLUS 05:22:38 ON 11 MAY 2019
- L3 2 S L2

Case 1



L3 2 L2

=> d abs bib 13 1-2 hitseq

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2019 ACS on STN

AB DNA probes of varying lengths and amplified product sizes for use in simultaneous and comprehensive detection of different bacterial pathogens are described. A qPCR assay successfully detected the individual species in single or mixed DNA conditions. Multi-species specificity tests proved the high specificity of each probe to specific bacterial pathogens. Optimized qPCR conditions enabled discrimination on the basis of the specificity of each probe. The DNA probe kits are all integral components in qPCR assay along with the protocols for bacterial pathogen detection. The current invention is also utilized for comprehensive clin. diagnosis in human organisms.

PatentPak PDF

AN 2018:1315613 CAPLUS [Full-text](#)

DN 169:480497

TI Use of oligonucleotides probes for detection of bacterial pathogens in milkfish using real time PCR

IN Barlaan, Edward A.

PA Philippines

SO Philipp. Pat. Appl., 26pp.
CODEN: PHXXAQ

DT Patent

LA English

FAN.CNT 1

PPPI

Data obtained using STN

PATENT NO.	KIND	DATE	LANGUAGE	PatentPak
PH 1201600444	A1	20180604	English	PDF

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PH 1201600444	A1	20180604	PH 2016-1201600444	20161129
PH 2016-1201600444		20161129		

PRAI 2248026-43-7

IT RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(probe sequence; use of oligonucleotides probes for detection of bacterial pathogens in milkfish using real time PCR)

RN 2248026-43-7 CAPLUS

CN DNA, d(C-A-C-C-A-G-G-G-G-T-C-T-G-G-A-A-T-A-T-G-T) (CA INDEX NAME)

SEQ 1 caccagggt ctggaatag t

Case 1



L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2019 ACS on STN
AB A multiplex-PCR approach, employing 2 primer pairs directed to internal regions of the 16S rRNA and ureC genes, was utilized to analyze a collection of Photobacterium damsela strains, including 25 isolates of subspecies piscicida and 15 isolates of subspecies damsela. With this procedure, all the P. damsela subsp. damsela strains yielded 2 amplification products, one of 267 bp and the other of 448 bp, corresponding to internal fragments of the 16S rRNA and ureC genes, resp. However, P. damsela subsp. piscicida isolates only showed the PCR product of 267 bp (16S rRNA fragment), indicating the absence of the ureC gene in its genome. We have constructed a DNA probe directed to a region of the ureC gene, and corroborated by dot blot hybridization that the P. damsela subsp. piscicida lacks this gene, whereas it is present in the subspecies damsela. This constitutes the first successful discrimination between both subspecies using a PCR procedure, and may become a useful tool for diagnosis of pasteurellosis in the future. In addition, since these 2 subspecies have been shown to share nearly identical rrn operon sequence, our results provided evidence that one of the events in the P. damsela speciation process included gain/loss even with the ure operon.

Data obtained using STN

AN 2000:450189 CAPLUS [Full-text](#)
DN 134:217664
TI Multiplex PCR assay for ureC and 16S rRNA genes clearly discriminates between both subspecies of Photobacterium damsela
AU Osorio, C. R.; Toranzo, A. E.; Romalde, J. L.; Barja, J. L.
CS Departamento de Microbiología y Parasitología, Universidad de Santiago de Compostela, 15706, Spain
SO Diseases of Aquatic Organisms (2000), 40(3), 177-183
CODEN: DAOREO; ISSN: 0177-5103
DOI 10.3354/dao040177
PB Inter-Research
DT Journal

LA English
IT [171219-83-3](#), GenBank U40071
RL: ANT (Analyte); BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(nucleotide sequence; multiplex PCR assay for ureC and 16S rRNA genes clearly discriminates between both subspecies of Photobacterium damsela)
RN [171219-83-3](#) CAPLUS
CN DNA (Listonella damsela strain 501 gene ureC fragment) (9CI) (CA INDEX NAME)
SEQ 1 cgtatatccg gaataggtaa agcgggtaac ccagacgtcc agcctaattg
51 tgatattggt atcgggtccc gtacagaagt tgtggcaggc gaaggcaaga
101 tcgtaacagc tggaggaatc gatactaca ttcattttat ctgtcctcaa
151 caagcccgaag aaggattatg ttctggctta acaaccttta tcgggtggcgg
201 aaccgggtcca gtggcggggt ccaatgcaac aaccgtgaca **ccaggggtct**
251 **ggaatatgtc** acgaatgctg gaagccgttg atgacttacc tattaatgtg
301 ggtttatttg gtaaagggtg tgtcagtaaa ccagaagcat tacgagagca
351 aattgaagct ggagctggtg gtttaaaact gcatgaagat tggggtgcaa
401 cgcccgtgc tattaataac tgtatgaatg tggcagatga gatggatatt
451 caagttgcta tc



WO 2014/011520 A1

Priority Date : 2012.07.09, 2012.11.15

International Filing Date : 2013.07.08

International Publication Date : 2014.01.16

WHAT IS CLAIMED IS:

1. An immunoconjugate comprising an antibody that binds CD22 covalently attached to a cytotoxic agent, wherein the antibody binds an epitope within amino acids 20 to 240 of SEQ ID NO: 28 and wherein the cytotoxic agent is a nemorubicin derivative.



CAS Registry BLAST Search

❖ CAS REGISTRYSM



- (1) Start CAS Registry BLAST client
- (2) Start new search
- (3) Paste sequence or load sequence file
- (4) Select BLAST mode
- (5) Adjust BLAST settings
- (6) Review and select results
- (7) Download two files: Script and alignment file
- (8) From now STNext: Import script in STNext
- (9) Start script and retrieve RNs
- (10) Search for patents in CAPlus
- (11) Display in STNext
- (12) Report with STNext (including alignment file)

Retrieved from STN website

Case 2 - 1



- (1) Start CAS Registry BLAST client
- (2) Start new search
- (3) Paste sequence or load sequence file

The screenshot displays two windows from the CAS Registry BLAST software. The left window, titled 'CAS Registry BLAST Result Set Manager', has a menu bar with 'File', 'Edit', 'Search', 'Tools', and 'Help'. A 'New Search' button is highlighted with an orange box. Below it, a 'New Search' dialog box is open, showing a 'Select One:' section with four options: 'Similar Sequences' (selected and circled in red), 'Similar Sequences u', 'Similar Sequences u', and 'Existing Alerts Profile'. The right window, titled 'Similar Sequences', has a menu bar with 'File', 'Edit', and 'Help'. It contains a 'Result Name (optional):' field with the text 'IPOP_HL_case 2_Seq No 28'. Below this is a 'Sequence to be searched:' field with two buttons: 'Recall Sequence' and 'Read from File...'. A text area contains a long nucleotide sequence:

```
MHLLGPWLLLLVLEVLAFSDSSKWWFEHPETLYAWEGACYW I PCTYRALDGDLESF I LFH  
NPEYNKNTSKFDGTRLVESTKDGKVPSEKRVQFLGDKNKNTLS I HPVHLNDSGQLGLR  
MESKTEKWMER I HLNVSERPPPH I QLPPE I QESQEVTLTCLLNFSCYGYV I QLQWLLLEG  
VPMRQAAVSTSLT I KSVFTRSELKFSQWVSHHGK I VTCQLQDADGKFLSNDTVQLNVKH  
TPKLE I KYTPSDA I VREGDSYVMTCEVSSNPEYTTYSWLKDGTSLLKQNTFTLNLREVT
```

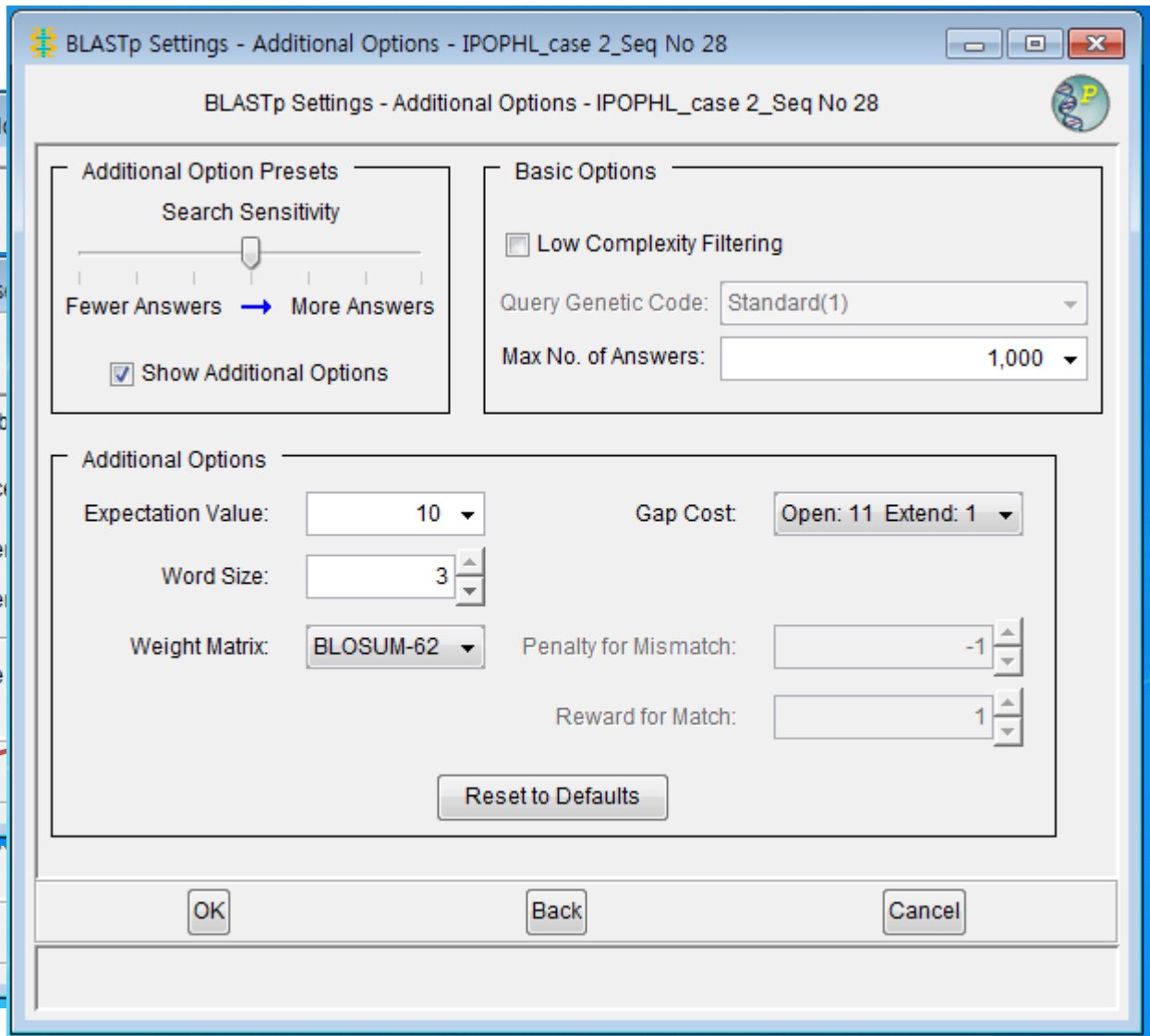
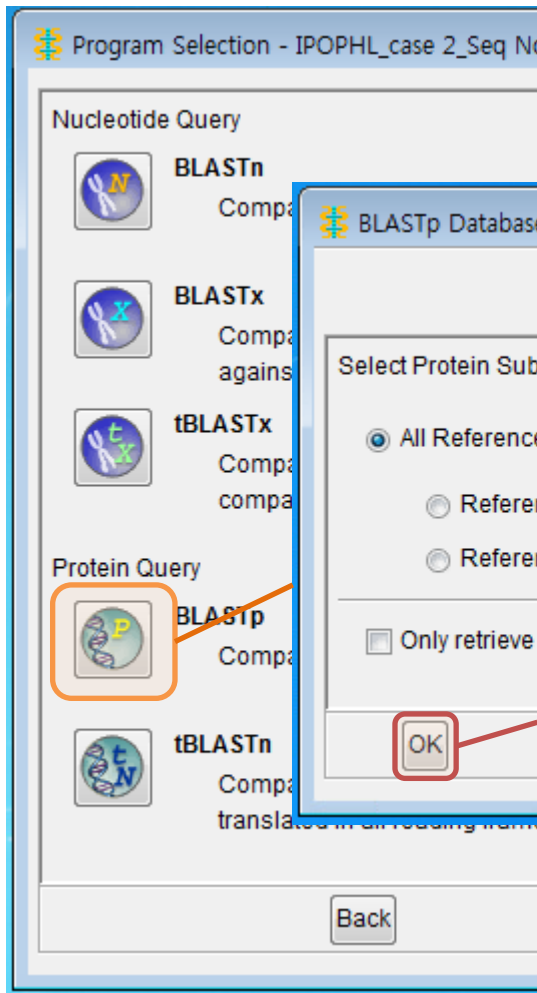
 Below the text area are two examples of sequences: 'Example #1: a nucleotide sequence' with a block of nucleotide characters, and 'Example #2: a protein sequence' with a block of amino acid characters. At the bottom of the right window are 'OK' and 'Cancel' buttons.

Obtained from Blast Client

Case 2 - 1



- (4) Select BLAST mode
- (5) Adjust BLAST settings



Obtained from Blast Client

Case 2 - 1

- (6) Review and select results
- (7) Download two files: Script and alignment file

The screenshot displays the CAS Registry BLAST software interface. The main window shows search results for 'IOPHL_case 2_Seq No 28'. A 'View Results' button is highlighted with an orange box. A 'Get STN Data Script' dialog box is open, showing options to retrieve data. Two options are highlighted with green boxes: 'Sequence Records' and 'Sequence and Reference Records'. The 'Transfer all alignment data for postprocessing' checkbox is also checked.

View Results

Get STN Data Script

Retrieve the following data:

- Sequence Records**
Retrieves Sequences from CAS Registry
- Reference Records**
Retrieves CAPLUS References
- Sequence and Reference Records**
Retrieves CAS Registry Sequences and CAPLUS References

Transfer all alignment data for postprocessing

Cancel

Obtained from Blast Client

Case 2 - 1



- (8) From now STNext: Import script in STNext
- (9) Start script and retrieve RNs
- (10) Search for patents in CPlus
- (11) Display in STNext
- (12) Report with STNext (including alignment file)

Obtained from STN

[Return to Session](#)

{ } Scripts

Create Script Import Script

IPOPHL_case 2_Seq No 28 **Run** ...

12 May 2019 9:59 PM

Import Script

Supported file formats: .txt, .sc, .scb, .data

Browse

IPOPHL_case 2_Seq No 28.scb

Ok Cancel



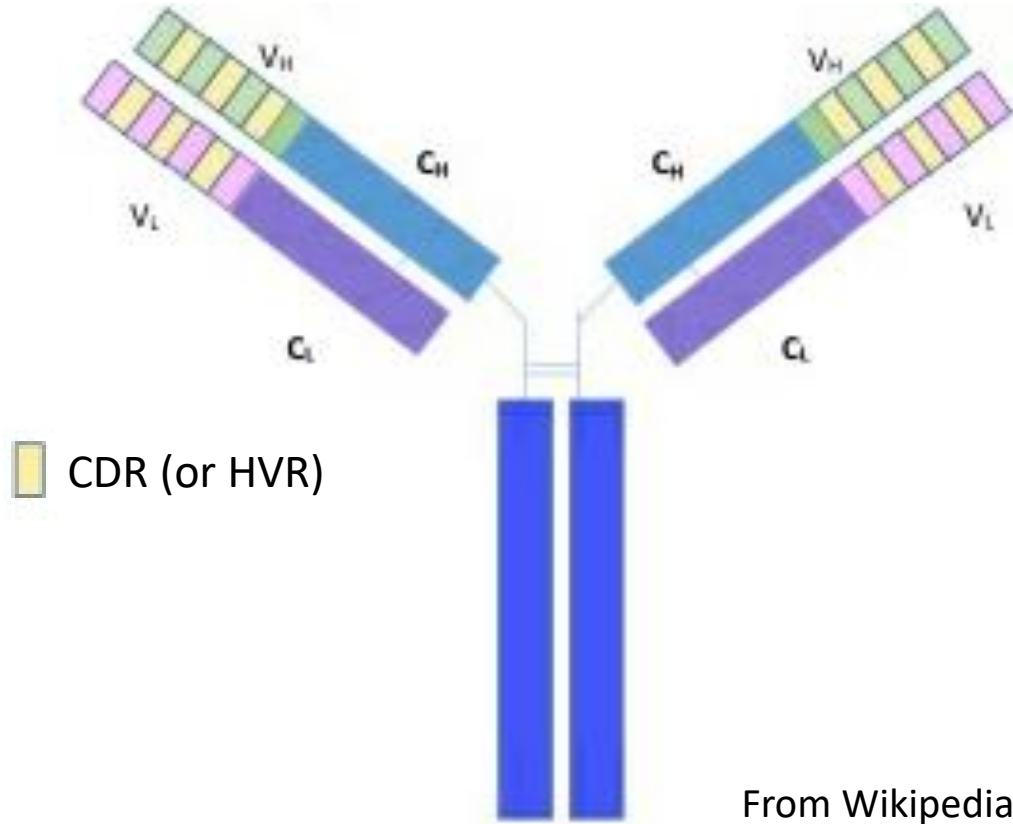
4. The immunoconjugate of claim 1, wherein the antibody comprises:

a) (i) HVR-H1 comprising the amino acid sequence of SEQ ID NO: 9, (ii) HVR-H2 comprising the amino acid sequence of SEQ ID NO: 10, (iii) HVR-H3 comprising the amino acid sequence of SEQ ID NO: 11, (iv) HVR-L1 comprising an amino acid sequence selected from SEQ ID NOs: 12 and 15 to 22, (v) HVR-L2 comprising the amino acid sequence of SEQ ID NO: 13, and (vi) HVR-L3 comprising the amino acid sequence of SEQ ID NO: 14; or

b) (i) HVR-H1 comprising the amino acid sequence of SEQ ID NO: 9, (ii) HVR-H2 comprising the amino acid sequence of SEQ ID NO: 10, (iii) HVR-H3 comprising the amino acid sequence of SEQ ID NO: 11, (iv) HVR-L1 comprising the amino acid sequence of SEQ ID NO: 15, (v) HVR-L2 comprising the amino acid sequence of SEQ ID NO: 13, and (vi) HVR-L3 comprising the amino acid sequence of SEQ ID NO: 14.



Antibody Structure



Case 2 - 2



9	10F4 HVR H1	GYEFSRSWMN
10	10F4 HVR H2	GRIYPGDGD TNYS GKFKG
11	10F4 HVR H3	DGSSWDWYFDV
12	10F4 HVR L1	RSSQSIVHS N N TFLE
13	10F4 HVR L2	KVSNRFS
14	10F4 HVR L3	FQGSQFPYT
15	10F4 HVR L1 N28V (10F4v3 HVR L1)	RSSQSIVHS V N TFLE
16	10F4 HVR L1 N28A	RSSQSIVHS A N TFLE
17	10F4 HVR L1 N28Q	RSSQSIVHS Q N TFLE
18	10F4 HVR L1 N28S	RSSQSIVHS S N TFLE
19	10F4 HVR L1 N28D	RSSQSIVHS D N TFLE
20	10F4 HVR L1 N28I	RSSQSIVHS I N TFLE
21	10F4 HVR L1 N30A	RSSQSIVHS N I TFLE
22	10F4 HVR L1 N30Q	RSSQSIVHS N Q TFLE

Searching antibody comprising

HVR H1 : GYEFSRSWMN

HVR H2 : GRIYPGDGD TNYS GKFKG

HVR H3 : DGSSWDWYFDV

HVR L1 : RSSQSIVHS[**NVAQSDI**]G[**NIQ**]TFLE

HVR L2 : KVSNRFS

HVR L3 : FQGSQFPYT

A gap of one or
more residues

.+ or
. {1,}
or .{1-}

Specify alternate
residues

[]



REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/training/stn/database-specific>

CDR-H1 **CDR-H2** **CDR-H3**
=> S GYEF^{CDR-H1}SR^{CDR-H2}SWMN.^{CDR-H3}+GRIYPGD^{CDR-H1}GTNYS^{CDR-H2}GK^{CDR-H3}FKG.^{CDR-H1}+DGSSWD^{CDR-H2}WY^{CDR-H3}FDV/SQSP

L1 31 GYEF^{CDR-H1}SR^{CDR-H2}SWMN.^{CDR-H3}+GRIYPGD^{CDR-H1}GTNYS^{CDR-H2}GK^{CDR-H3}FKG.^{CDR-H1}+DGSSWD^{CDR-H2}WY^{CDR-H3}FDV/SQSP

CDR-L1 **CDR-L2** **CDR-L3**
=> S RSSQSIVHS[NVAQSDI]G[NIQ]TFLE.^{CDR-L1}+K^{CDR-L2}VSNRFS.^{CDR-L3}+FQGSQFPYT/SQSP

L2 30 RSSQSIVHS[NVAQSDI]G[NIQ]TFLE.^{CDR-L1}+K^{CDR-L2}VSNRFS.^{CDR-L3}+FQGSQFPYT/SQSP

Data obtained using STN

Case 2 - 2



=> D L1 CN SQL SEQ 28-31

L1 ANSWER 28 OF 31 REGISTRY COPYRIGHT 2019 ACS on STN

CN Immunoglobulin, chimeric, anti-(Human CD22 (antigen)) (synthetic Mus musculus clone ch10F4 heavy chain V region) (CA INDEX NAME)

OTHER NAMES:

CN 45: PN: W02007140371 SEQID: 34 claimed protein

SQL 120

```
SEQ      1 QVQLQQSGPE LVKPGASVKI SCKASGYEFS RSWMNWVKQR PGQGREWIGR
          =====
          51 IYPGDGDTNY SGKFKGKATL TADSSSSTAY MQLSSLTSVD SAVYFCARDG
          =====
          101 SSWDWYFDVW GAGTTVTVSS
          =====
```

HITS AT: 26-109

HVR H1 : GYEFSSWMMN
HVR H2 : GRIYPGDGDNTNYSKFKG
HVR H3 : DGSSWDWYFDV

Data obtained using STN

Case 2 - 2



=> D L2 CN SQL SEQ 30

L2 ANSWER 30 OF 30 REGISTRY COPYRIGHT 2019 ACS on STN
CN Immunoglobulin, anti-(Human CD22 (antigen)) (Human-Mus musculus clone h10F4.v2 light chain) (CA INDEX NAME)

OTHER NAMES:

CN 93: PN: W02007140371 SEQID: 87 claimed protein

SQL 219

```
SEQ      1 DIQMTQSPSS LSASVGDRVT ITCRSSQSIV HSVGNTFLEW YQKPGKAPK
          =====
          51 LLIYKVSNRFGSSG GSGDFTLTI SSLQPEDFAT YYCFQGSQFP
          =====
          101 YTFGQGTKVE IKRTVAAPSV FIFPPSDEQL KSGTASVVCL LNNFYPREAK
          ==
          151 VQWKVDNALQ SGNSQESVTE QDSKDSTYSL SSTLTLSKAD YEKHKVYACE
          201 VTHQGLSSPV TKSFNRGEC
```

HITS AT: 24-102

HVR L1 : RSSQSIVHS[NVAQSDI]G[NIQ]TFLE
HVR L2 : KVS^{NR}FGS^{SG}
HVR L3 : FQGSQFPYT

Data obtained using STN

Case 2 - 2



```
=> fil cap
```

```
FILE 'CAPLUS' ENTERED AT 09:12:28 ON 11 MAY 2019
```

```
=> s 11
```

```
L3          11 L1
```

```
=> s 12
```

```
L4          11 L2
```

```
=> s 13 and 14
```

```
L5          11 L3 AND L4
```

```
=> s 15 and ad=<20130708
```

```
9537891 AD=<20130708  
          (AD=<20130708)
```

```
L6          5 L5 AND AD=<20130708
```

Data obtained using STN



=> d abs bib l6 1-5 hitseq

L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2019 ACS on STN

AB Immunoconjugates of anti-CD79b antibodies and a pyrrolobenzodiazepine deriv. are described for use in the treatment of hematol. malignancies, including leukemia and lymphoma. Conjugates capable of causing partial and complete remission of DLCL2 xenografts in mice were obtained. Complete remission was obsd. with an immunoconjugate dose of 12.86 µg/kg with 1.65 drug mols./antibody. Complete remission of Grant-519 xenografts was also obsd.

[PatentPak PDF](#) | [PatentPak PDF+](#) | [PatentPak Interactive](#)

AN 2014:70284 CAPLUS Full-text

DN 160:213004

TI Immunoconjugates of anti-CD79B antibodies and pyrrolobenzodiazepines for the treatment of leukemia and lymphoma

IN Polakis, Paul; Polson, Andrew; Spencer, Susan Diane; Yu, Shang-Fan

PA Genentech, Inc., USA

SO PCT Int. Appl., 124pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

Data obtained using STN

Case 2 - 2



PPPI

PATENT NO.	KIND	DATE	LANGUAGE	PatentPak
WO 2014011519	A1	20140116	English	PDF PDF+ Interactive
US 20140030280	A1	20140130	English	PDF
AU 2013288930	A1	20141204	English	PDF
KR 2015030753	A	20150320	Korean	PDF
CN 104540526	A	20150422	Chinese	PDF
EP 2869850	B1	20170823	English	PDF
JP 2015523380	T	20150813	Japanese	PDF
ES 2643225	T3	20171121	Spanish	PDF
US 20180169259	A1	20180621	English	PDF

Data obtained using STN

PRAI

US 2012-61669270	P	20120709
US 2013-13936280	B1	20130708
WO 2013-US49517	W	20130708

Priority Date is same with that of the present invention

RN 1538645-33-8 CAPLUS
 CN 41: PN: WO2014011519 SEQID: 48 unclaimed protein (CA INDEX NAME)

SEQ 1 EVQLVESGGG LVQPGGSLRL SCAASGYEFS RSWMNWVRQA PGKGLEWVGR
 51 IYPGDGDTNY SGKFKGRFTI SADTSKNTAY LQMNSLRAED TAVYYCARDG
 101 SSWDWYFDVW GQGTLVTVSS

RN 1538645-34-9 CAPLUS
 CN 42: PN: WO2014011519 SEQID: 49 unclaimed protein (CA INDEX NAME)

SEQ 1 DIQMTQSPSS LSASVGRDVT ITCRSSQSIV HSVGNTFLEW YQQKPGKAPK
 51 LLIIYKVSNRF SGVPSRFGSGS GSGTDFTLTI SSLQPEDFAT YYCFQGSQFP
 101 YTFGQGTKVE IK

Case 2 - 2



L6 ANS	L6 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2019 ACS on STN
AB Imm	AB Immunoconjugates of anti-CD79b antibodies and a nemorubicin deriv. are described for use in the treatment of hematol. malignancies, including leukemia and lymphoma. Conjugates capable of causing complete remission of Grant-519 xenografts in mice were obtained. Complete remission was observed with an immunoconjugate dose of 7.83 µg/kg with 1.83 drug mols./antibody. Nemorubicin immunoconjugates are expected to be effective when monomethylauristatin E immunoconjugates are ineffective.
des	
leu	
PatentPa	PatentPak PDF PatentPak PDF+ PatentPak Interactive
AN 201	AN 2014:69436 CAPLUS Full-text
DN 160	DN 160:201475
TI Imm	TI Immunoconjugates of anti-CD79B antibodies and nemorubicin for the treatment of leukemia and lymphoma
of	
IN Pol	IN Polakis, Paul; Polson, Andrew; Spencer, Susan Diane; Yu, Shang-Fan; Zheng, Bing
Bin	
PA Gen	PA Genentech, Inc., USA
SO PCT	SO PCT Int. Appl., 121pp.
COD	CODEN: PIXXD2
DT Pat	DT Patent
LA Eng	LA English
FAN.CNT	FAN.CNT 1
PPPI	PPPI
PAT	PATENT NO.
---	---
WO	WO 2014011521
	KIND A1
	DATE 20140116
	LANGUAGE English
	PatentPak PDF PDF+ Interactive

Data obtained from

Case 2 - 2



L6 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2019 ACS on STN
AB Anti-CD22 antibodies and immunoconjugates thereof are provided. Methods of using anti-CD22 antibodies and immunoconjugates thereof are provided.
[PatentPak PDF](#) | [PatentPak PDF+](#) | [PatentPak Interactive](#)
AN 2007:1390416 CAPLUS [Full-text](#)
DN 148:31939
TI Anti-CD22 antibodies and immunoconjugates for diagnosis and treatment of cancer or B cell proliferative disease
IN Ebens, Allen J., Jr.; Gray, Alane M.; Liang, Wei-Ching; Wu, Yan; Yu, Shang-Fan
PA Genentech, Inc., USA
SO PCT Int. Appl., 308 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1
PPPI

PATENT NO.	KIND	DATE	LANGUAGE	PatentPak
WO 2007140371	A2	20071206	English	PDF PDF+ Interactive
AU 2007266521	A1	20071206	English	PDF
AU 2007266521	B2	20100812	English	PDF
US 8524865	B2	20130903	English	PDF
KR 1328756	B1	20131118	Korean	PDF

Data obtained using STN

Case 2 - 2



WO2007140371

RN **959436-07-8** CAPLUS
CN Immunoglobulin, chimeric, anti-(Human CD22 (antigen)) (synthetic Mus musculus clone ch10F4 heavy chain V region) (CA INDEX NAME)

SEQ 1 QVQLQQSGPE LVKPGASVKI SCKASGYEFS RSWMNWVKQR PGQGREWIGR
51 IYPGDGDTNY SGKFKGKATL TADSSSSTAY MQLSSLTSVD SAVYFCARDG
101 SSWDWYFDVW GAGTTVTVSS

HVR H1 : #9
HVR H2 : #10
HVR H3 : #11

RN **959436-08-9** CAPLUS
CN Immunoglobulin, chimeric, anti-(Human CD22 (antigen)) (synthetic Mus musculus clone ch10F4 light chain V region) (CA INDEX NAME)

SEQ 1 DILMTQTPLS LPVSSGDQAS ISCRSSQSIV HSNQNTFLEW YLQKPGQSPK
51 LLIYKVSNRG SGVPDRFSGS GSGDFTLKI SRVEAEDLGV YYCFQGSQFP
101 YTFGGGTKVE IK

HVR L1 : #12
HVR L2 : #13
HVR L3 : #14

RN **959436-05-6** CAPLUS
CN Immunoglobulin, anti-(Human CD22 (antigen)) (Human-Mus musculus clone h10F4.v1 light chain V region) (CA INDEX NAME)

SEQ 1 DIQMTQSPSS LSASVGRVT ITCRSSQSIV HSNQNTFLEW YQQKPGKAPK
51 LLIYKVSNRG SGVPSRFSGS RSGDFTLTI SSLQPEDFAT YYCFQGSQFP
101 YTFGQGTKVE IKR

HVR L1 : #12
HVR L2 : #13
HVR L3 : #14

Data obtained using STN



WO2007140371

RN **959436-06-7** CAPLUS
CN Immunoglobulin, anti-(Human CD22 (antigen)) (Human-Mus musculus clone h10F4.v2 light chain V region) (CA INDEX NAME)

SEQ 1 DIQMTQSPSS LSASVGDRVT ITCRSSQSIV HSVGNTFLEW YQQKPGKAPK
51 LLIYKVSNRF SGVPSRFSGS RSGTDFTLTI SSLQPEDFAT YYCFQGSQFP
101 YTFGQGTKVE IKR

HVR L1 : #15
HVR L2 : #13
HVR L3 : #14

RN **959436-02-3** CAPLUS
CN Immunoglobulin, anti-(Human CD22 (antigen)) (Human-Mus musculus clone h10F4.v3 light chain) (CA INDEX NAME)

SEQ 1 DIQMTQSPSS LSASVGDRVT ITCRSSQSIV HSVGNTFLEW YQQKPGKAPK
51 LLIYKVSNRF SGVPSRFSGS GSGTDFTLTI SSLQPEDFAT YYCFQGSQFP
101 YTFGQGTKVE IKRTVAAPSV FIFPPSDEQL KSGTASVVCL LNNFYPREAK
151 VQWKVDNALQ SGNSQESVTE QDSKSTYSL SSTLTLSKAD YEKHKVYACE
201 VTHQGLSSPC TKSFNREGEC

HVR L1 : #15
HVR L2 : #13
HVR L3 : #14

Data obtained using STN



THANK YOU!