NRCD Human Full-Length cDNA Clone

Gene Engineering Division
RIKEN BioResource Research Center

RIKEN Clone ID : ARi50F12

Lot# : 7675_B4Dj

Vector : pGCAP10

Gene	TIMP3	
RefSeq_mRNA	NM_000362.5	4597 bp

● Plasmid DNA purification

Date : 2024/04/23 Culture : LB (100 ug/ml Ampicillin) 5 ml -> at 37 deg C O/N

Date : 2024/04/24 Purification : QIAGEN Miniprep kit -> dH_2O 100 ul

● Digestion by restriction enzyme/Concentrarion calibration

Date : 2024/04/24

DNA concentration (O.D.): 306 ng/ul

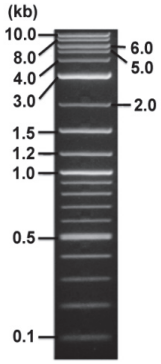
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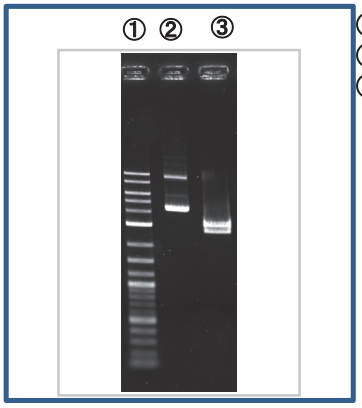
DNA	0.3 ul
Enzyme (BamHI)	1 ul
Buffer H	1 ul
dH_2O	7.7 ul
Total	10 ul

BamHI 3.1kb (vector), 2.7 kb

Erectrophoresis : 1% agarose gel, 1x TAE Buffer

Marker : 2-Log DNA Ladder (NEB#N3200L)





①:Marker
②:uncut
③:BamHI

● Confirmation of the insert/vector junction sequence

Date : 2024/05/07

Primer A	pGCAP-F
Primer B	pGCAP-R
Primer C	
List of Sequencing Primers	http://dna.brc.riken.jp/en/NRCDhum2en.html

● Adjust plasmid DNA solution to 25 ng/ul

Date : 2024/05/08

DNA (306 ng/ul)	80 ul
10x TE	98 ul
dH_2O	801 ul
Total	979 ul

● Shipping

☑ Conc. : 25 ng/μl, Volume : 40 μl

☐ Conc. : ___ ng/μl, Volume : ___ μl

APPROVED BY : 検 '24.05.08 笹沼

http://dna.brc.riken.jp/index.html

BLAST Results

Questions/comments

Blast 2 sequences

Job title: NM_032515:Homo sapiens BCL2 family apoptosis...

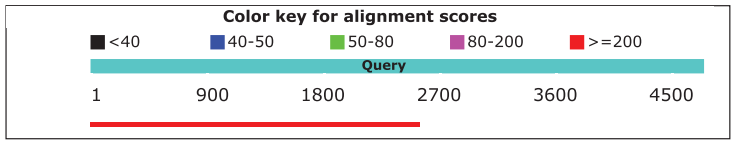
RID 3JYSY40J114 (Expires on 05-08 08:51 am)

Query ID	NM_000362.5	**Subject ID**	lcl|Query_5520707
Description	Homo sapiens TIMP metallopeptidase inhibitor 3 (TIMP3), mRNA	**Description**	None See details
Molecule type	nucleic acid	**Molecule type**	dna
Query Length	4597	**Subject Length**	2547
		Program	BLASTN 2.15.0+

ARi50F12hts.seq

Graphic Summary

Distribution of the top 1 Blast Hits on 1 subject sequences



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'24.05.07
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Dot Matrix View

Descriptions

Sequences producing significant alignments:

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
None provided	4626	4626	54%	0.0	99.92%	Query_5520707

Alignments

Sequence ID: Query_5520707 Length: 2547 Number of Matches: 1
Range 1: 2 to 2512

Score	Expect	Identities	Gaps	Strand	Frame
4626 bits(2505)	0.0()	2509/2511(99%)	0/2511(0%)	Plus/Plus	

Features:

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Sbjct           2    AGAGCGGGCAGCAGGCAGGCGGCGGGCGCTCAGACGGCTTCTCCTCCTCCTCTTGCTCCT  61

Query          61   ccagctcctgctcctTCGCCGGGAGGCCGCCCGCCGAGTCCTGCGCCAGCGCCGAGGCAG  120
                    ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct           62   CCAGCTCCTGCTCCTTCGCCGGGAGGCCGCCCGCCGAGTCCTGCGCCAGCGCCGAGGCAG  121

Query          121  CCTCGCTGCGCCCCATCCCGTCCCGCCGGGCACTCGGAGGGCAGCGCGCCGGAGGCCAAG  180
                    ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct           122  CCTCGCTGCGCCCCATCCCGTCCCGCCGGGCACTCGGAGGACAGCGCGCCGGAGGCCAAG  181

Query          181  GTTGCCCCGCACGGCCCGGCGGGCGAGCGAGCTCGGGCTGCAGCAGCCCCGCCGGCGGCG  240
                    ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct           182  GTTGCCCCGCACGGCCCGGCGGGCGAGCGAGCTCGGGCTGCAGCAGCCCCGCCGGCGGCG  241

CDS:metalloproteinas 1                                                      M
Query          241  CGCACGGCAACTTTGGAGAGGCGAGCAGCAGCCCCGGCAGCGGCGGCAGCAGCGGCAATG  300
                    ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct           242  CGCACGGCAACTTTGGAGAGGCGAGCAGCAGCCCCGGCAGCGGCGGCAGCAGCGGCAATG  301

CDS:metalloproteinas 2    T  P  W  L  G  L  I  V  L  L  G  S  W  S  L  G  D  W  G  A
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Sbjct           302  ACCCCTTGGCTCGGGCTCATCGTGCTCCTGGGCAGCTGGAGCCTGGGGGACTGGGGCGCC  361

CDS:metalloproteinas 22   E  A  C  T  C  S  P  S  H  P  Q  D  A  F  C  N  S  D  I  V
Query          361  GAGGCGTGCACATGCTCGCCCAGCCACCCCCAGGACGCCTTCTGCAACTCCGACATCGTG  420
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Sbjct           362  GAGGCGTGCACATGCTCGCCCAGCCACCCCCAGGACGCCTTCTGCAACTCCGACATCGTG  421

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Sbjct                782   GAGTGTCTCTGGACCGACATGCTCTCCAATTTCGGTTACCCTGGCTACCAGTCCAAACAC  841

CDS:metalloproteinas 182    Y  A  C  I  R  Q  K  G  G  Y  C  S  W  Y  R  G  W  A  P  P
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CDS:metalloproteinas 202    D  K  S  I  I  N  A  T  D  P
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HHS Vulnerability Disclosure

Applied Biosystems

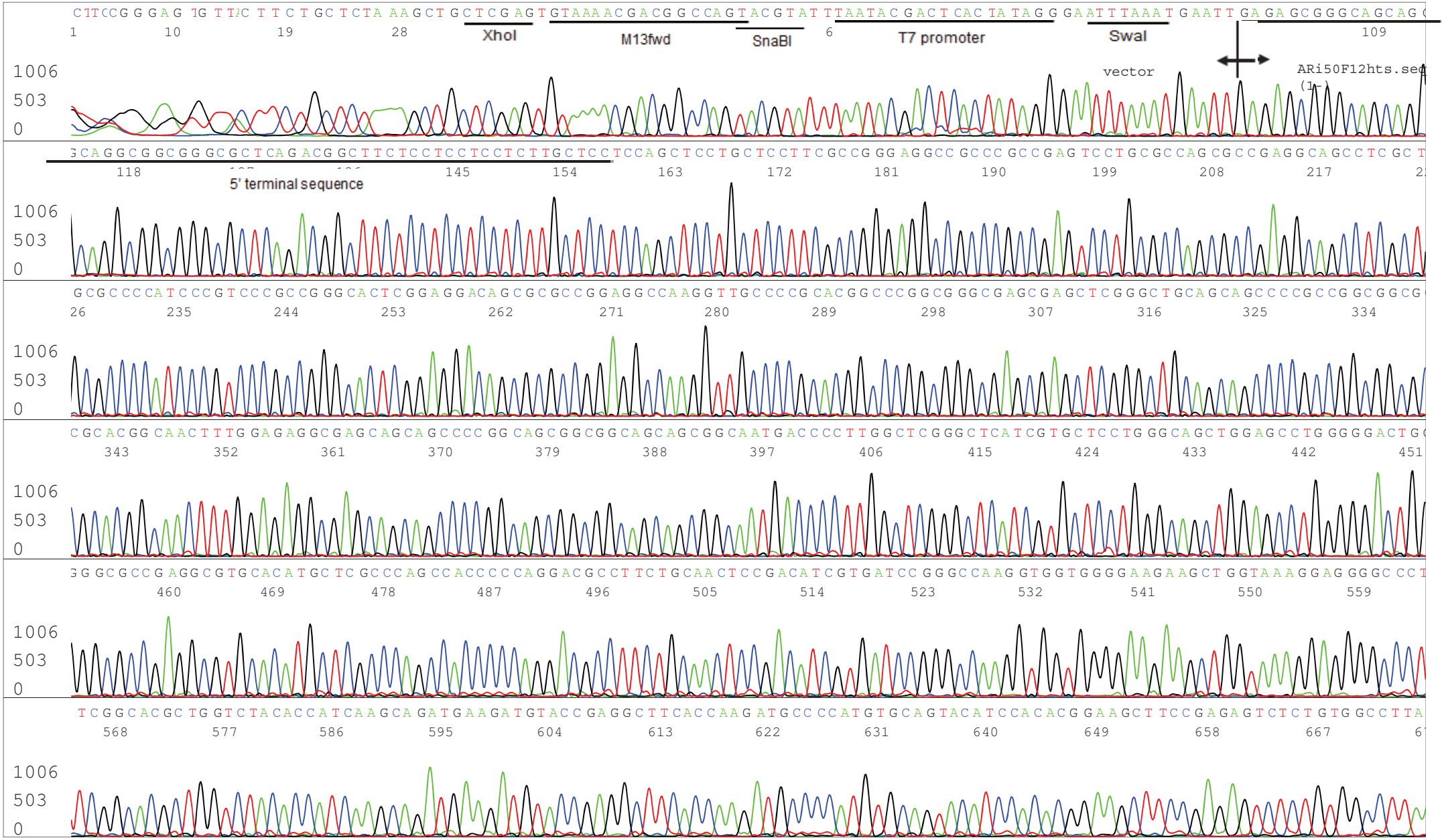
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KB.bcp
KB 1.4.1.8 Cap:11

Primer A : pGCAP-F

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Pts 1414 to 13436 Pk1 Loc:1391
Version 6.0 HiSQV Bases: 911

Inst Model/Name 3500/3500 Instrument
Apr 24,2024 03:16PM, JST
Apr 24,2024 03:43PM, JST
Spacing:12.01 Pts/Panel1350
Plate Name: 20240424_GNP



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S/N G:47 A:82 T:51 C:58
KB.bcp
KB 1.4.1.8 Cap:14

Primer B : pGCAP-R
5' GCATTCTAGTTGTGGTTTGTCC 3'

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Pts 1414 to 13331 Pk1 Loc:1391
Version 6.0 HiSQV Bases: 106

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Apr 24,2024 03:16PM, JST
Apr 24,2024 03:43PM, JST
Spacing:12.05 Pts/Panel1350
Plate Name: 20240424_GNP

