

RIKEN Clone ID : RBdS104019

Vector : pGCAP10

Gene	EXOSC8	
RefSeq_mRNA	NM_181503.3	1166 bp

● **Plasmid DNA purification**

Date : 2023/12/13

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

Date : 2023/12/14

Purification : QIAGEN Miniprep kit -> dH₂O 100 ul

● **Digestion by restriction enzyme/Concentration calibration**

Date : 2023/12/14

DNA concentration (O.D.): 271 ng/ul

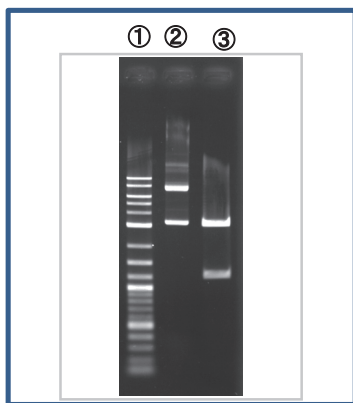
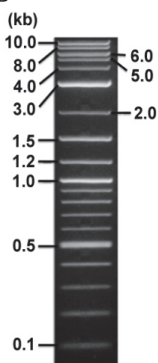
< Size of fragment expected from this clone >

DNA	<u>0.35</u> ul
Enzyme (BamHI)	1 ul
Buffer H	1 ul
dH ₂ O	<u>7.65</u> ul
Total	10 ul

BamHI 3.1kb (vector), 1.4 kb (unsure)

Erectrophoresis : 1% agarose gel, 1x TAE Buffer

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



①:Marker
②:uncut
③:BamHI

● **Confirmation of the insertion sequence**

Date : 2023/12/20

Primer A	pGCAP-F
Primer B	pGCAP-R
Primer C	Poly(A) region
List of Sequencing Primers	http://dna.brc.riken.jp/en/NRCDhum2e.html

● **Adjust plasmid DNA solution to 25 ng/ul**

Date : 2023/12/20

DNA (<u>271</u> ng/ul)	<u>86</u> ul
10x TE	<u>93</u> ul
dH ₂ O	<u>753</u> ul
Total	932 ul

● **Shipping**

Conc. : 25 ng/μl, Volume : 40 μl

Conc. : ___ ng/μl, Volume : ___ μl



APPROVED BY :

BLAST Results

[Questions/comments](#)

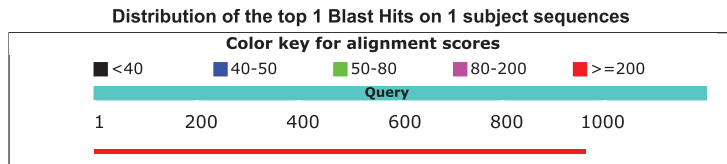
Blast 2 sequences

Job title: ref|NM_181503.3|

RID [S2EG1ZZ7114](#) (Expires on 12-20 13:36 pm)

Query ID NM_181503.3	Subject ID Icl Query_62103
Description Homo sapiens exosome component 8 (EXOSC8), mRNA	Description None
Molecule type nucleic acid	Molecule type dna
Query Length 1166	Subject Length 1111
	Program BLASTN 2.14.1+
	See details

Graphic Summary



Match to NM_181503.3 (3-953)
CDS:full/var

Dot Matrix View

Descriptions

Sequences producing significant alignments:

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
None provided	1751	1751	81%	0.0	99.89%	Query_62103

Alignments

Sequence ID: Query_62103 Length: 1111 Number of Matches: 1
Range 1: 102 to 1052

Score	Expect	Identities	Gaps	Strand	Frame
1751 bits(948)	0.0()	950/951(99%)	0/951(0%)	Plus/Plus	
Features:					
CDS:exosome complex	1	M A A G F K T V E P L E Y Y			
Query	3	AGACCGCGGGCGGGAAGATGGCGGCTGGGTTCAAAACCGTGGAACTCTGGAGTATTAC			62
Sbjct	102	AGACCGCGGGCGGGAAGATGGCGGCTGGGTTCAAAACCGTGGAACTCTGGAGTATTAC			161
CDS:exosome complex	15	R R F L K E N C R P D G R E L G E F R T			
Query	63	AGGAGATTTCTGAAAGAGAACTGCCCTCTGATGGAAGAGAACCTGGTGAATCAGAAC			122
Sbjct	162	AGGAGATTTCTGAAAGAGAACTGCCCTCTGATGGAAGAGAACCTGGTGAATCAGAAC			221
CDS:exosome complex	35	T T V N I G S I S T A D G S A L V K L G			
Query	123	ACAACTGTCAACATCGGTTCAATTAGTACCGCAGATGGTCTGCTTAGTGAAGTGGGA			182
Sbjct	222	ACAACTGTCAACATCGGTTCAATTAGTACCGCAGATGGTCTGCTTAGTGAAGTGGGA			281
CDS:exosome complex	55	N T T V I C G V K A E F A A P S T D A A P			
Query	183	AATACTACAGTAATCTGTGGAGTTAAGCAGAAATTCGACACCATCAACAGATGCCCT			242
Sbjct	282	AATACTACAGTAATCTGTGGAGTTAAGCAGAAATTCGACACCATCAACAGATGCCCT			341
CDS:exosome complex	75	D K G Y V V P N V D L P P L C S S R F R			
Query	243	GATAAAGGATACGTTGTTCTAATGTGGATCTACCACCCCTGTTCATCGAGATTCGGG			302
Sbjct	342	GATAAAGGATACGTTGTTCTAATGTGGATCTACCACCCCTGTTCATCGAGATTCGGG			401
CDS:exosome complex	95	S G P P G E E A Q V A S Q F I A D V I E			
Query	303	CTGGACCTCCTGGAGAAGAGGCCAAGTGGCTAGCCAGTTCATCGAGATGCAATTGAA			362
Sbjct	402	CTGGACCTCCTGGAGAAGAGGCCAAGTGGCTAGCCAATTCATCGAGATGCAATTGAA			461
CDS:exosome complex	115	N S Q I I Q K E D L C I S P G K L V W V			
Query	363	AATTACAGATAATTCAGAAAGAGGACTTATGCATTTCCAGGAAAGCTTGTCTGGGTT			422
Sbjct	462	AATTACAGATAATTCAGAAAGAGGACTTATGCATTTCCAGGAAAGCTTGTCTGGGTT			521
CDS:exosome complex	135	L Y C D L I C L D Y D G N I L D A C T F			
Query	423	CTATACTGTGATCTCAATTCGCTCGACTACGATGGAACATTTGGATGCCTGCACATTT			482
Sbjct	522	CTATACTGTGATCTCAATTCGCTCGACTACGATGGAACATTTGGATGCCTGCACATTT			581
CDS:exosome complex	155	A L L A A L K N V Q L P E V T I N E E T			
Query	483	GCTTTGCTAGCGGCTTAAAAAATGACAGTTGCGTGAAGTACTATAAATGAAGAAACT			542
Sbjct	582	GCTTTGCTAGCGGCTTAAAAAATGACAGTTGCGTGAAGTACTATAAATGAAGAAACT			641
CDS:exosome complex	175	A L L A E V N L K K K S Y L N I R T H P V			
Query	543	GCTTTAGCAGAAAGTAAATTAAGAAGAAAAGTATTTGAATATAGAACTCATCCAGTT			602
Sbjct	642	GCTTTAGCAGAAAGTAAATTAAGAAGAAAAGTATTTGAATATAGAACTCATCCAGTT			701
CDS:exosome complex	195	A T S F A V F D D T L L I V D P T G E E			
Query	603	GCAACTTCCTTTGCTGTGTTGATGACACTTTGCTTATAGTTGACCTACTGGAGAGGAG			662
Sbjct	702	GCAACTTCCTTTGCTGTGTTGATGACACTTTGCTTATAGTTGACCTACTGGAGAGGAG			761
CDS:exosome complex	215	E H L A T G T L T I V M D E E G K L C C			
Query	663	GAACATCTGGCAACAGAACCTTAACAATAGTAATGGATGAGGAAGGCAAACTCTGTTGT			722
Sbjct	762	GAACATCTGGCAACAGAACCTTAACAATAGTAATGGATGAGGAAGGCAAACTCTGTTGT			821
CDS:exosome complex	235	L H K P G G S G L T G A K L Q D C M S R			
Query	723	CTTCACAAACAGGTGGAAGTGGCTAACTGGAGCTAAACTCAGGACTGATGAGGCCA			782
Sbjct	822	CTTCACAAACAGGTGGAAGTGGCTAACTGGAGCTAAACTCAGGACTGATGAGGCCA			881

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CDS:exosome complex 255  A V T R H K E V K K L M D E V I K S M K
Query 783  GCAGTTACAAGACACAAGAAGTTAAAAAAGTGGATGAAGTAAATAAGAGTATGAAA 842
Sbjct 882  GCAGTTACAAGACACAAGAAGTTAAAAAAGTGGATGAAGTAAATAAGAGTATGAAA 941

CDS:exosome complex 275  P K
Query 843  CCCAAATAAACAGCCACCACATTTTCAAAACAGATTTGTAATAATTTGTTTAAACAC 902
Sbjct 942  CCCAAATAAACAGCCACCACATTTTCAAAACAGATTTGTAATAATTTGTTTAAACAC 1001

Query 903  TGTGCACAAACGTTTTATACTAAATAAATATCAAACACATTCTCTGAAA 953
Sbjct 1002  TGTGCACAAACGTTTTATACTAAATAAATATCAAACACATTCTCTGAAA 1052

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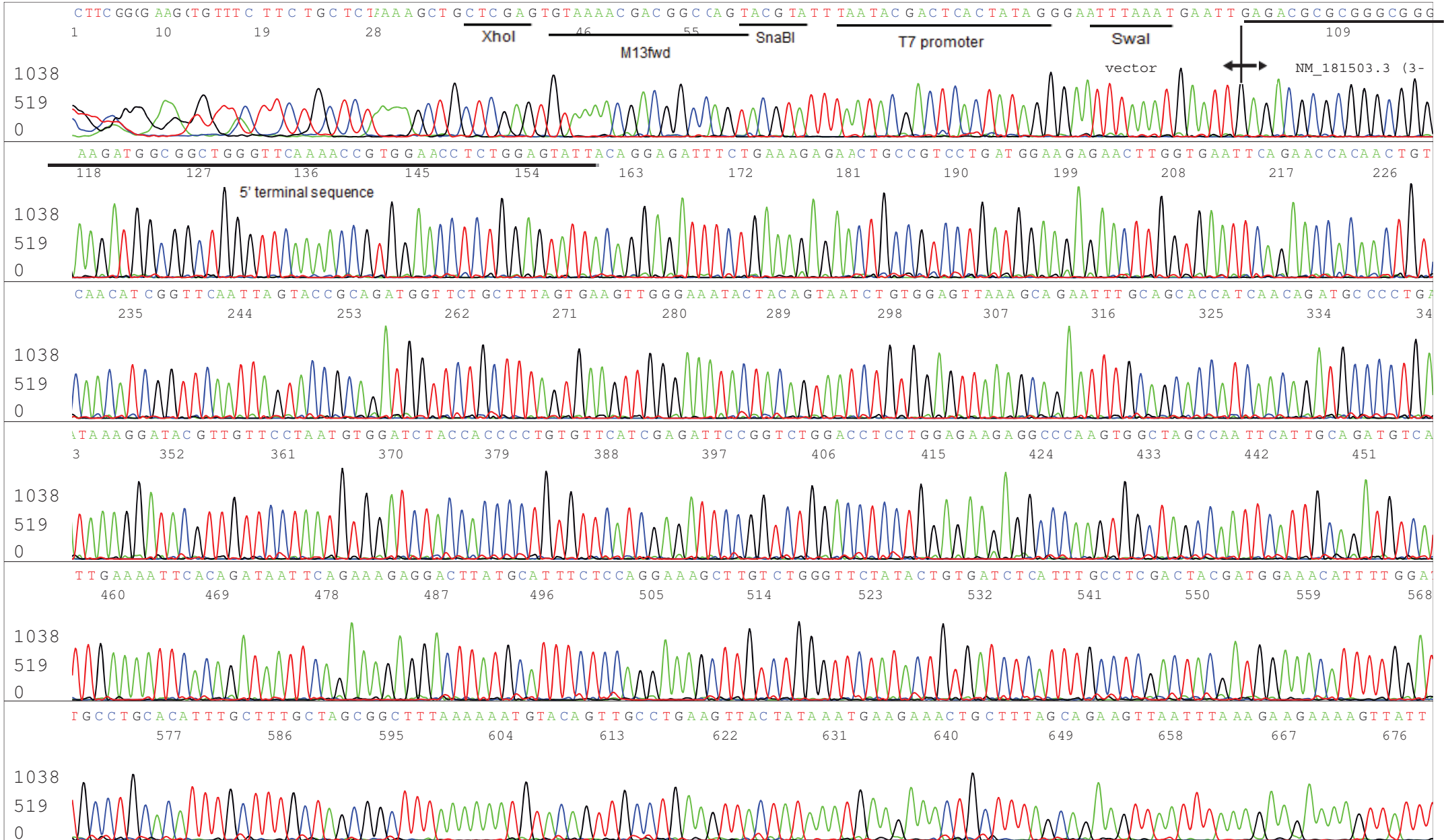
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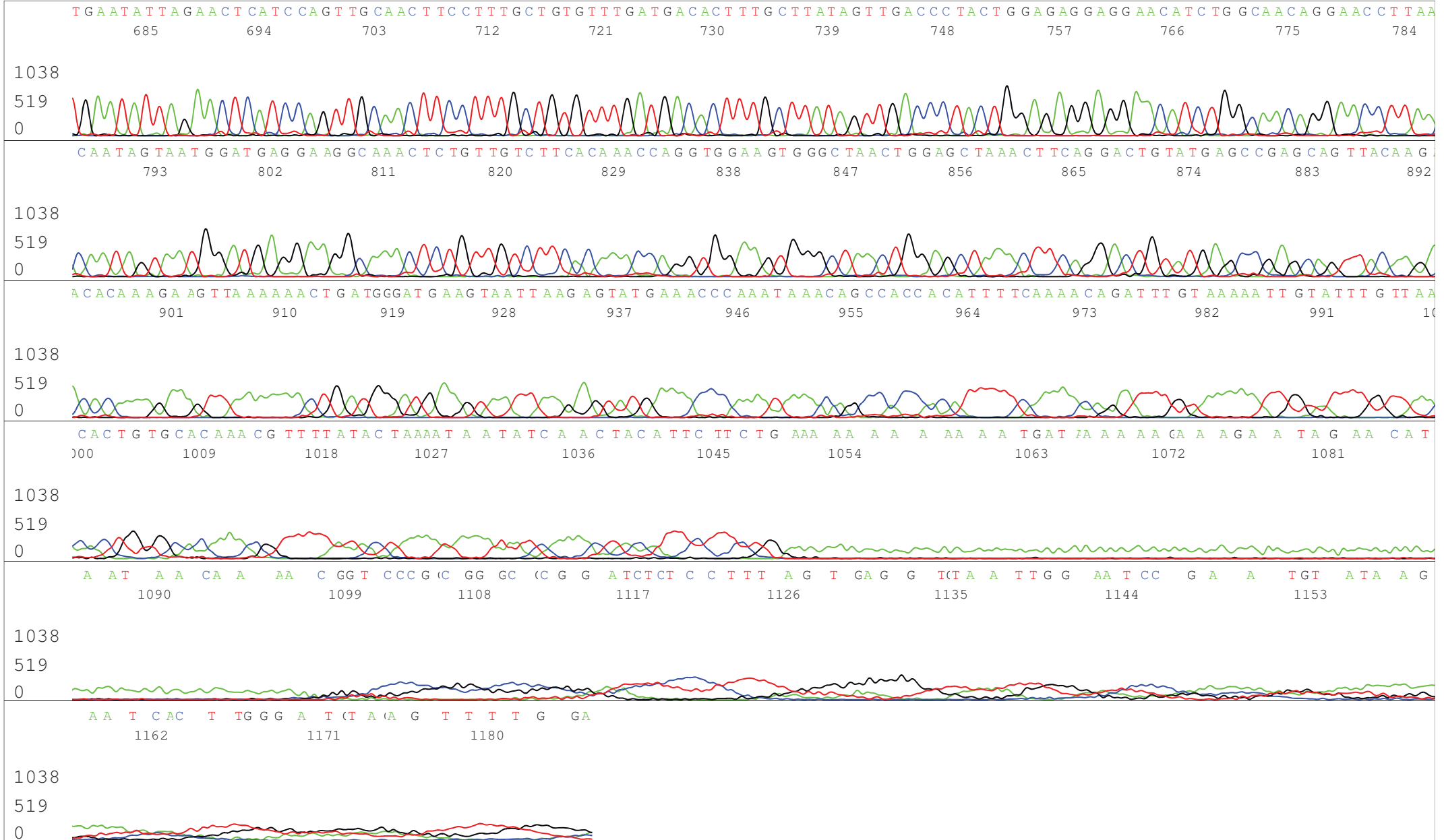
[HHS Vulnerability Disclosure](#)

S/N G:54 A:89 T:59 C:62
KB.bcp
KB 1.4.1.8 Cap:4

Primer A : pGCAP-F
5' CTCAGTGGATGTTGCCTTTAC 3'



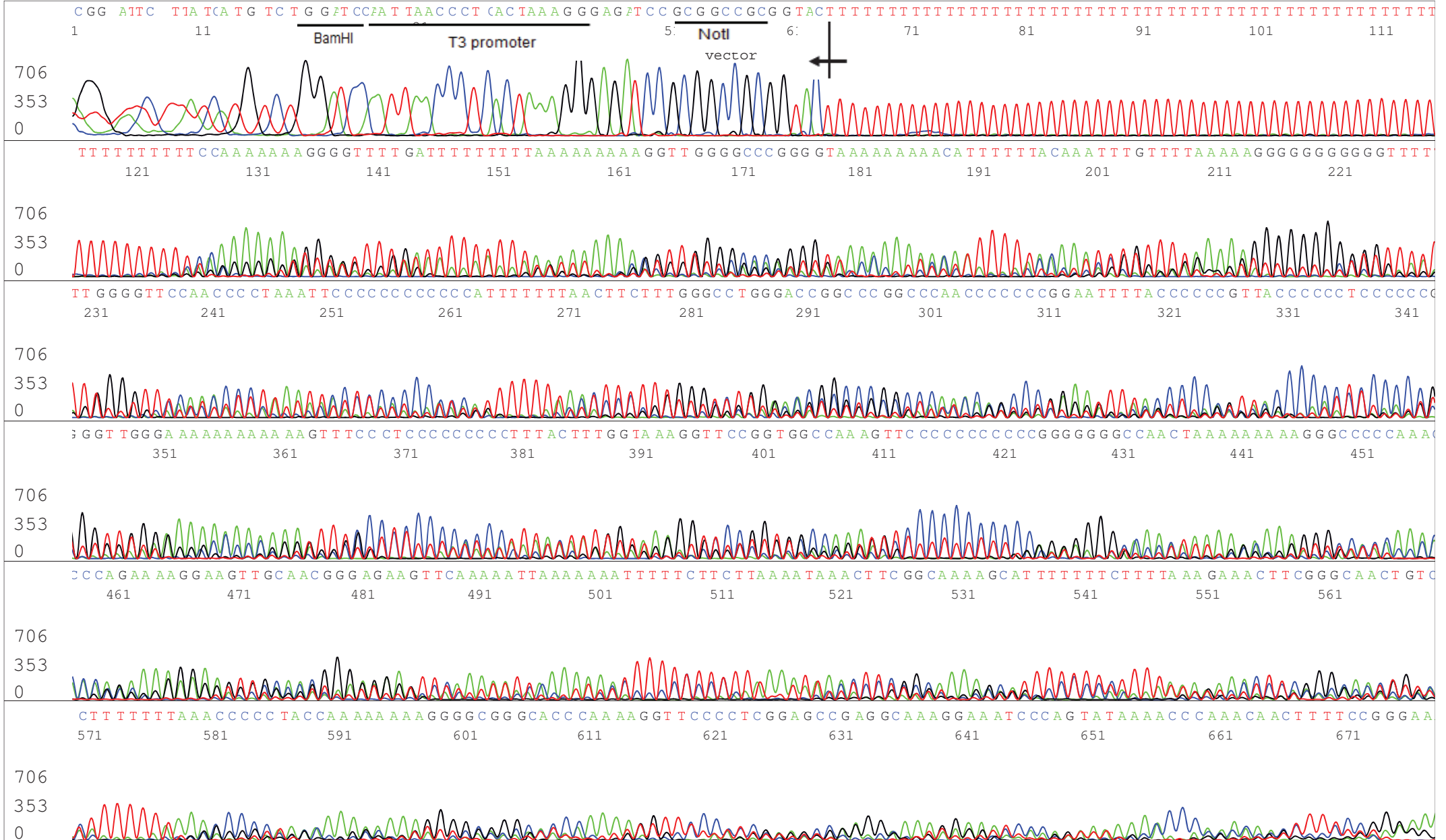
S/N G:54 A:89 T:59 C:62
KB.bcp
KB 1.4.1.8 Cap:4



Primer B : pGCAP-R
5' GCATTCTAGTTGTGGTTTGTCC 3'

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6608_RBdS104O19_B3Ld_pGCAP_R
KB_3500_POP7_BDTv3.mob
Pts 1282 to 13807 Pk1 Loc:1259
Version 6.0 HiSQV Bases: 105

Inst Model/Name 3500/3500 Instrument
Dec 14,2023 03:20PM, JST
Dec 14,2023 03:50PM, JST
Spacing:13.25 Pts/Panel1350
Plate Name: 20231214_GNP



Primer C : Poly(A) region primer #0
5' TTTTTTTTTTTTTTTTTTTTTTVNN 3'

6608_RBdS104O19_B3Ld_GNPmixture_F01_06_ABI08
6608_RBdS104O19_B3Ld_GNPmixture
KB_3500_POP7_BDTv3.mob
Pts 1268 to 13000 Pk1 Loc:1245
Version 6.0 HiSQV Bases: 458

Inst Model/Name 3500/3500 Instrument
Dec 14,2023 03:20PM, JST
Dec 14,2023 03:50PM, JST
Spacing:13.25 Pts/Panel1350
Plate Name: 20231214_GNP

