

RIKEN Clone ID : RBd47D07

Vector : pGCAP10

Gene	EXOSC3	
RefSeq_mRNA	NM_016042.4	1813 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.): 73 ng/ul

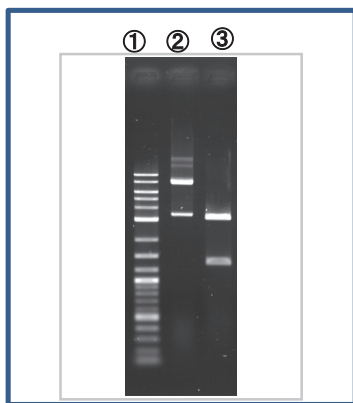
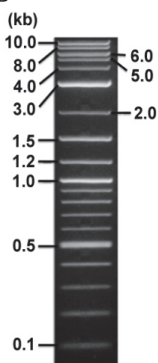
< Size of fragment expected from this clone >

DNA	1.3	ul
Enzyme (BamHI)	1	ul
Buffer H	1	ul
dH ₂ O	6.7	ul
Total	10	ul

BamHI 3.1kb (vector), 2.0 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 (73 ng/ul)	84	ul
10x TE	25	ul
dH ₂ O	137	ul
Total	245	ul

● **Shipping**

Conc. : 25 ng/ul, Volume : 40 ul

Conc. : ___ ng/ul, Volume : ___ ul



APPROVED BY :

BLAST Results

[Questions/comments](#)

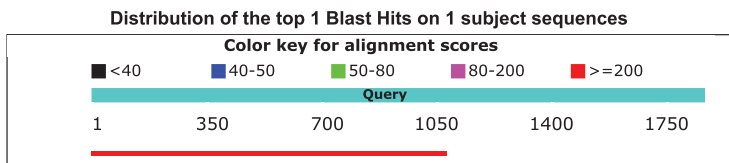
Blast 2 sequences

Job title: NM_181503:Homo sapiens exosome component 8...

RID [S2FAWD99114](#) (Expires on 12-20 13:51 pm)

Query ID	NM_016042.4	Subject ID	Icl Query_44123
Description	Homo sapiens exosome component 3 (EXOSC3), transcript variant 1, mRNA	Description	None
			See details
Molecule type	nucleic acid	Molecule type	dna
Query Length	1813	Subject Length	1244
		Program	BLASTN 2.14.1+

Graphic Summary



Match to NM_016042.4 (1-1071)
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	1973	1973	59%	0.0	99.91%	Query_44123

Alignments

Sequence ID: Query_44123 Length: 1244 Number of Matches: 1
Range 1: 101 to 1171

Score	Expect	Identities	Gaps	Strand	Frame
1973 bits(1068)	0.0()	1070/1071(99%)	0/1071(0%)	Plus/Plus	
Features:					
CDS:exosome complex	1	M A E P A S V A A E S L A			
Query	1	GGTGTTTGGTGGAGCCCGCATGGCCGAAACCTGCGTCTGTCGCGGCTGAATCTCTCGCGG			60
Sbjct	101	GGTGTTTGGTGGAGCCCGCATGGCCGAAACCTGCGTCTGTCGCGGCTGAATCTCTCGCGG			160
CDS:exosome complex	14	G S R A R A A R T V L G Q V V L P G E E			
Query	61	GCAGCAGGGCGCGGCTGCACGCACAGTACTAGGTCAGGTGGTGTCCGGGTGAGGAGC			120
Sbjct	161	GCAGCAGGGCGCGGCTGCACGCACAGTACTAGGTCAGGTGGTGTCCGGGTGAGGAGC			220
CDS:exosome complex	34	L L L P E Q E D A E G P G G A V E R P L			
Query	121	TGTCCTGCCGGAACAGGAGGACGCGGAAGGCCCTGGGGTGCAGTGGAGGACCGTGA			180
Sbjct	221	TGTCCTGCCGGAACAGGAGGACGCGGAAGGCCCTGGGGTGCAGTGGAGGACCGTGA			280
CDS:exosome complex	54	S L N A R A C S R V R V C G P G L R R			
Query	181	GCCTGAATGCTAGAGCGTGTCCGCGGTGCGCGTGTATCGGTCGCGGCTTCGGCGCT			240
Sbjct	281	GCCTGAATGCTAGAGCGTGTCCGCGGTGCGCGTGTATCGGTCGCGGCTTCGGCGCT			340
CDS:exosome complex	74	C G D R L L V T K C G R L R H K E P G S			
Query	241	GTGGGACCGCCTGCTGGTACCAAGTGGCGCCCTCCGTCAACAAGGACCGCGCAGTG			300
Sbjct	341	GTGGGACCGCCTGCTGGTACCAAGTGGCGCCCTCCGTCAACAAGGACCGCGCAGTG			400
CDS:exosome complex	94	G S G G G V Y W V D S Q Q K R Y V P V K			
Query	301	GCAGCGCGCGCGTGTACTGGTGGACTCTCAGCAGAAGCGGTATGTTCCAGTAAAG			360
Sbjct	401	GCAGCGCGCGCGTGTACTGGTGGACTCTCAGCAGAAGCGGTATGTTCCAGTAAAG			460
CDS:exosome complex	114	G D H V I G I V T A K S G D I F K V D V			
Query	361	GAGACCATGTGATTGGCATAGTACAGCTAAATCTGGAGATATATCAAAAGTTGATGTTG			420
Sbjct	461	GAGACCATGTGATTGGCATAGTACAGCTAAATCTGGAGATATATCAAAAGTTGATGTTG			520
CDS:exosome complex	134	G G S E P A S L S Y L S F E G A T K R N			
Query	421	GAGGGAGTGAGCCAGCTTCTTTGTCTTACTTGTCAATGAAAGTGCAGTAAAGAAACA			480
Sbjct	521	GAGGGAGTGAGCCAGCTTCTTTGTCTTACTTGTCAATGAAAGTGCAGTAAAGAAACA			580
CDS:exosome complex	154	R P N V Q V G D L I Y G Q F V V A N K D			
Query	481	GACCAAATGTCAGTTGGAGATCTCATCTATGGCCAGTTTGGTGGCTAATAAGGACA			540
Sbjct	581	GACCAAATGTCAGTTGGAGATCTCATCTATGGCCAGTTTGGTGGCTAATAAGGACA			640
CDS:exosome complex	174	M E P E M V C I D S C G R A N G M G V I			
Query	541	TGGAACGAGAGATGGTCTGTATTGACAGCTGTGGACGACCAATGGAATGGGTGTCATTG			600
Sbjct	641	TGGAACGAGAGATGGTCTGTATTGACAGCTGTGGACGACCAATGGAATGGGTGTCATTG			700
CDS:exosome complex	194	G Q D G L L F K V T L G L I R K L L A P			
Query	601	GACAGGATGGTCTGCTTTTAAAGTGACTCTGGCTTAAITAGAAAGCTATTAGTCCAG			660
Sbjct	701	GACAGGATGGTCTGCTTTTAAAGTGACTCTGGCTTAAITAGAAAGCTATTAGTCCAG			760
CDS:exosome complex	214	D C E I I Q E V G K L Y P L E I V F G M			
Query	661	ATTGTGAAATCATACAGGAAGTGGGAAAACCTCTATCCACTGGAGATAGTATTTGGAATGA			720
Sbjct	761	ATTGTGAAATCATACAGGAAGTGGGAAAACCTCTATCCACTGGAGATAGTATTTGGAATGA			820
CDS:exosome complex	234	N G R I W V K A K T I O Q T L I L A N I			
Query	721	ATGGAAGAATATGGTTAAGGCAAAAACCATCCAGCAGACTTAAATTTGGCAAAACATTT			780
Sbjct	821	ATGGAAGAATATGGTTAAGGCAAAAACCATCCAGCAGACTTAAATTTGGCAAAACATTT			880

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CDS:exosome complex 254 L E A C E H M T S D Q R K Q I F S R L A
Query 781 TAGAAGCTTGTGAACACATGACGTGAGATCAAAGAAAACAGATCTTCTCCAGATTGGCAG 840
Sbjct 881 TAGAAGCTTGTGAACACATGACGTGAGATCAAAGAAAACAGATCTTCTCCAGATTGGCAG 940

CDS:exosome complex 274 E S
Query 841 AAAGTTGATATAGGTGGACTTTTTACAGGTCAGTTGAGGCAAAAACTATGGGTTTTTT 900
Sbjct 941 AAAGTTGATATAGGTGGACTTTTTACAGGTCAGTTGAGGCAAAAACTATGGGTTTTTT 1000

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Sbjct 1001 CAGGTGAACCTCCCCATTTAAATACTCAGAAGATAAGGTGTGAATGTATGTATTATTAG 1060

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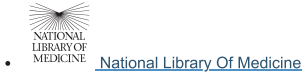
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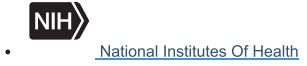
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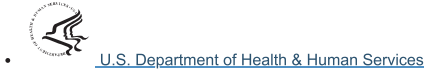
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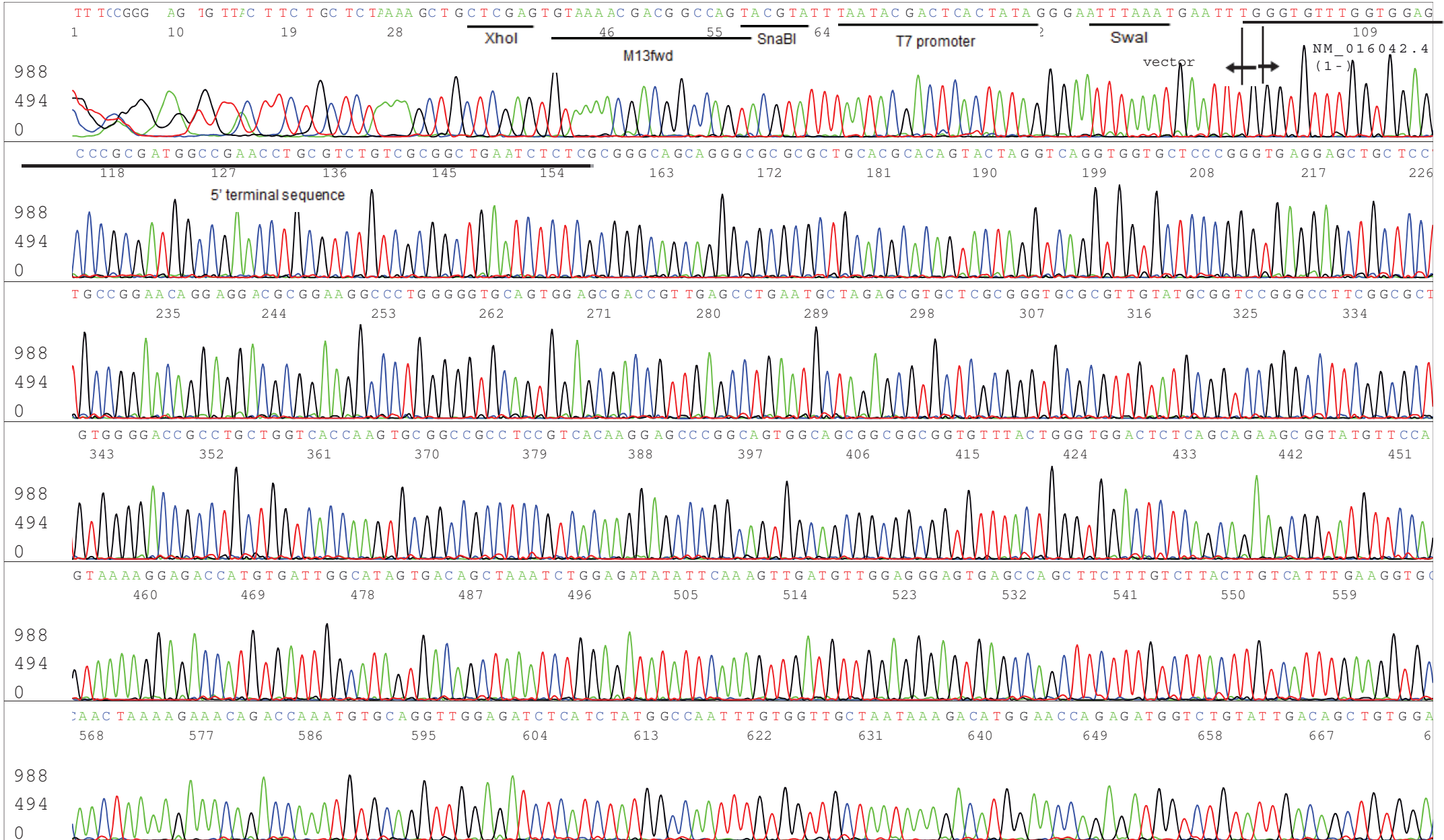
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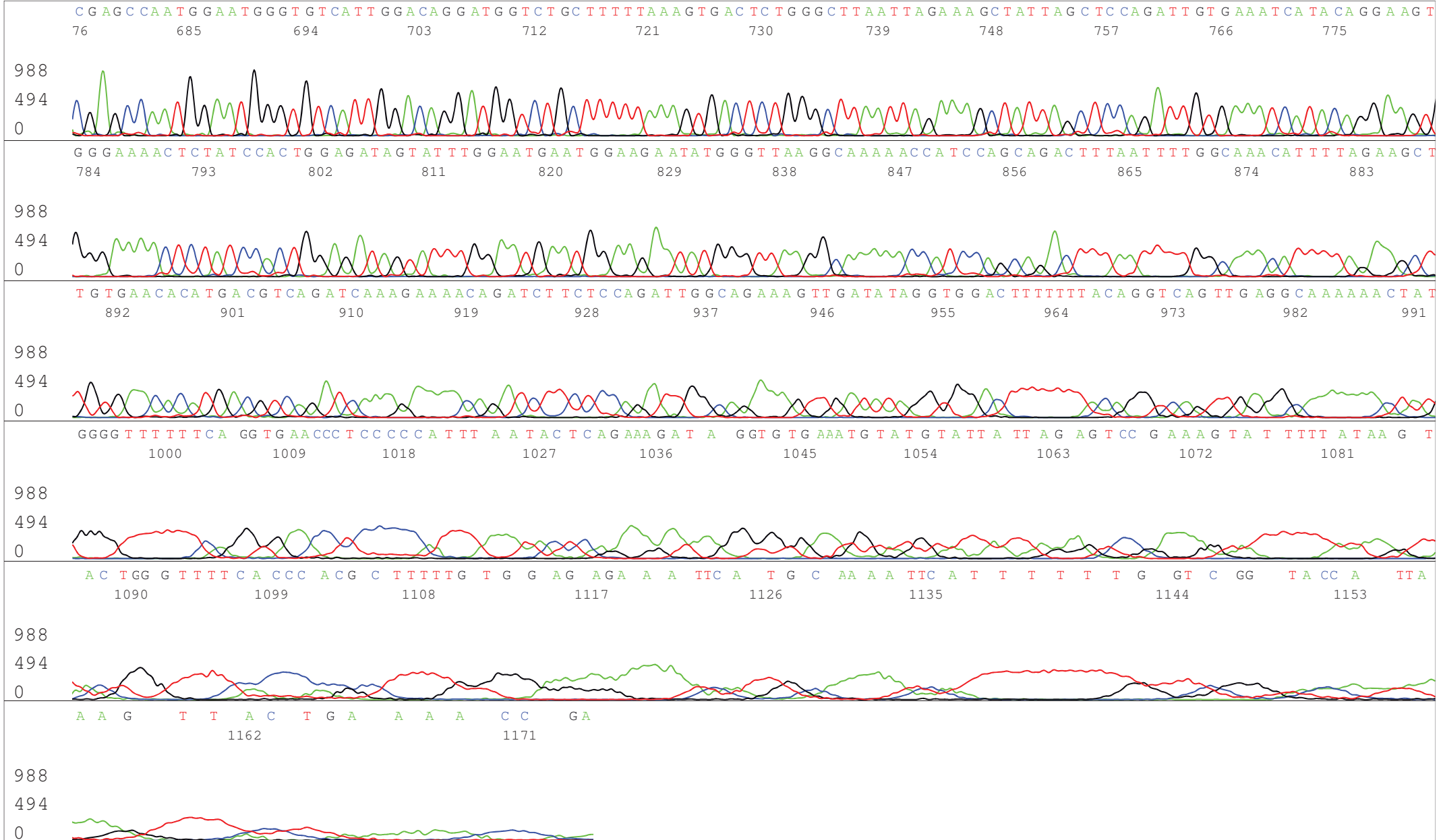
[HHS Vulnerability Disclosure](#)

S/N G:91 A:101 T:72 C:92
KB.bcp
KB 1.4.1.8 Cap:1

Primer A : pGCAP-F
5' CTCAGTGGATGTTGCCTTTAC 3'



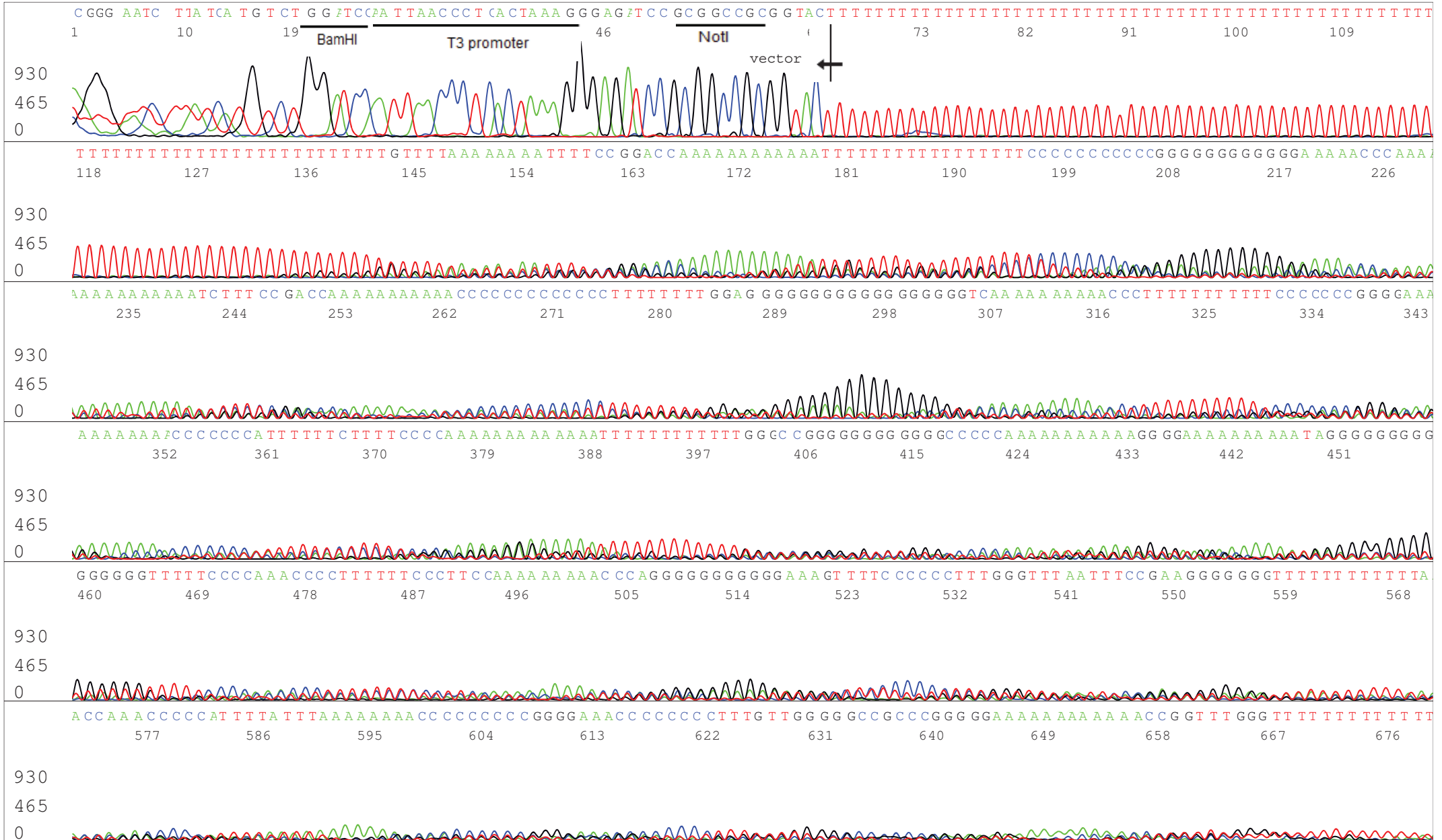
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KB 1.4.1.8 Cap:1



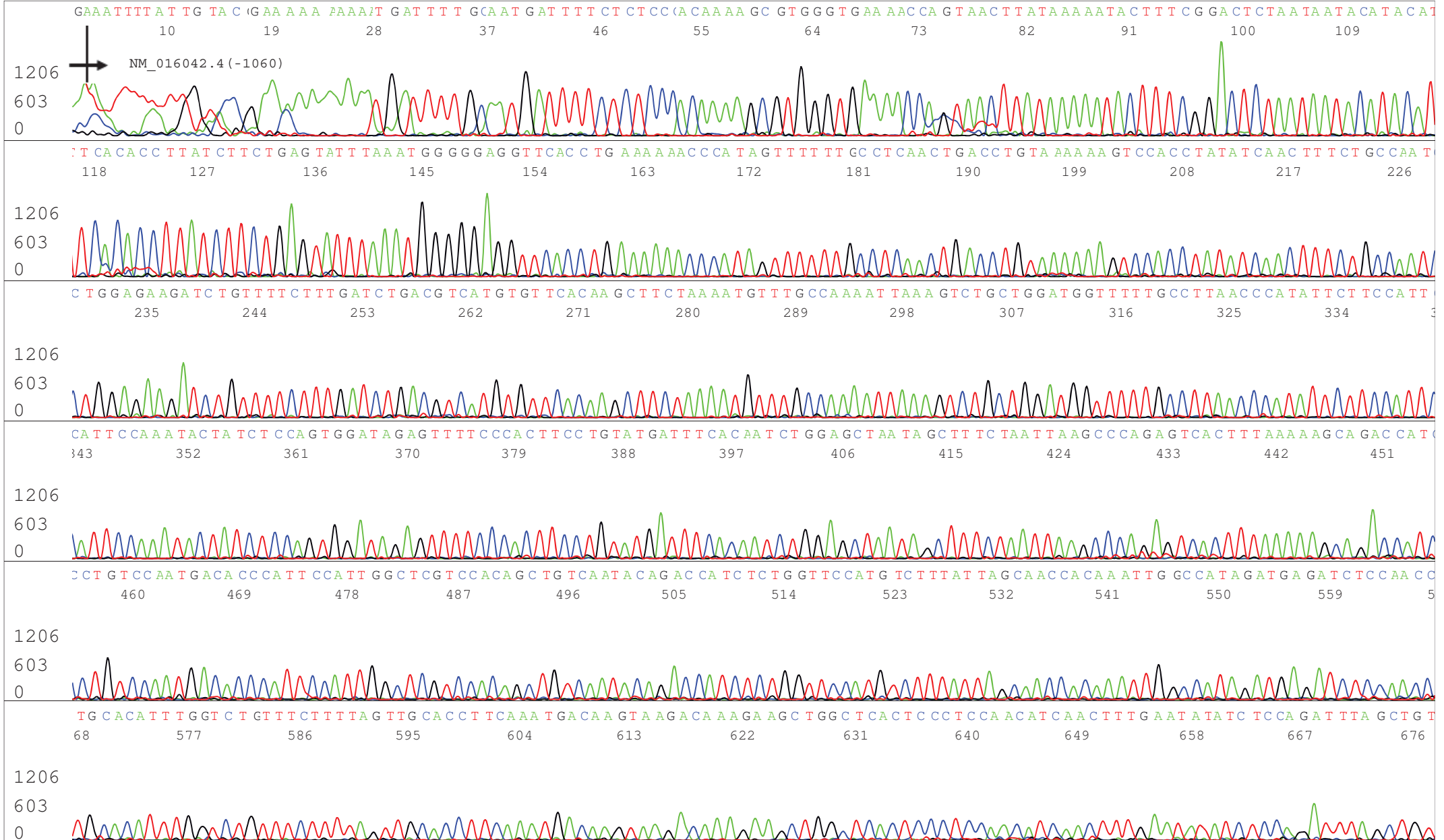
Primer B : pGCAP-R
5' GCATTCTAGTTGTGGTTTTGTCC 3'

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KB_3500_POP7_BDTv3.mob
Pts 1284 to 13000 Pk1 Loc:1261
Version 6.0 HiSQV Bases: 118

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'



S/N G:8 A:12 T:9 C:11
KB.bcp
KB 1.4.1.8 Cap:3

