NRCD Human Full-Length cDNA Clone

Gene Engineering Division
RIKEN BioResource Research Center

RIKEN Clone ID : RBdS022P11

Lot# : 6608_B4Cq

Vector : pGCAP10

Gene	DNMT1	
RefSeq_mRNA	NM_001379.4	5226 bp

● Plasmid DNA purification

Date : 2024/03/26 Culture : LB (100 ug/ml Ampicillin) 5 ml -> at 37 deg C O/N

Date : 2024/03/27 Purification : QIAGEN Miniprep kit -> dH_2O 100 ul

● Digestion by restriction enzyme/Concentrarion calibration

Date : 2024/03/27

DNA concentration (O.D.): 352 ng/ul

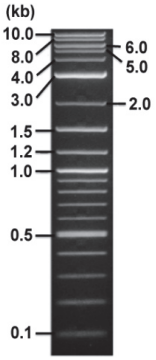
< Size of fragment expected from this clone >

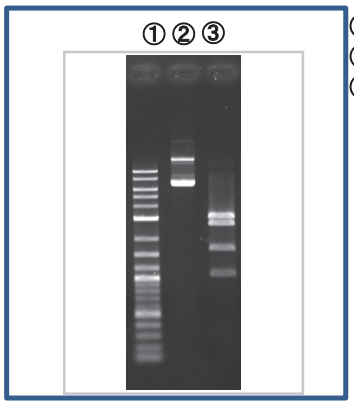
DNA	0.3	ul
Enzyme (BamHI)	1	ul
Buffer H	1	ul
dH_2O	7.7	ul
Total	10	ul

BamHI 3.1kb (vector), 2.7, 1.7, 1.1 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 : 2024/03/29

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

● Adjust plasmid DNA solution to 25 ng/ul

Date : 2024/04/02

DNA (352 ng/ul)	86ul
10x TE	121ul
dH_2O	1,004ul
Total	1,211ul

● Shipping

☑ Conc. : 25 ng/μl, Volume : 40 μl

☐ Conc. : __ ng/μl, Volume : __ μl

APPROVED BY :

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BLAST Results

Questions/comments

Blast 2 sequences

Job title: NM_001379:Homo sapiens DNA methyltransferase...

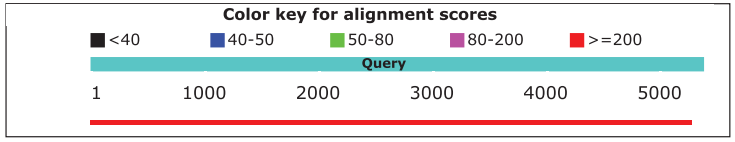
RID 0CNSZP77114 (Expires on 03-30 13:52 pm)

Query ID	NM_001379.4	**Subject ID**	lcl|Query_6790895
Description	Homo sapiens DNA methyltransferase 1 (DNMT1), transcript variant 2, mRNA	**Description**	None See details
Molecule type	nucleic acid	**Molecule type**	dna
Query Length	5226	**Subject Length**	5278
		Program	BLASTN 2.15.0+

RBdS022P11hts.seq

Graphic Summary

Distribution of the top 1 Blast Hits on 1 subject sequences



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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	9646	9646	100%	0.0	99.98%	Query_6790895

Alignments

Sequence ID: Query_6790895 Length: 5278 Number of Matches: 1
Range 1: 2 to 5227

Score	Expect	Identities	Gaps	Strand	Frame
9646 bits(5223)	0.0()	5225/5226(99%)	0/5226(0%)	Plus/Plus	

Features:

```
CDS:DNA (cytosine-5)  1                                                   M  P
Query                 1    GCGAAAAGCCGGGGCGCCTGCGCTGCCGCCGCCGCGTCTGCTGAAGCCTCCGAGATGCCG  60
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 2    GCGAAAAGCCGGGGCGCCTGCGCTGCCGCCGCCGCGTCTGCTGAAGCCTCCGAGATGCCG  61

CDS:DNA (cytosine-5)  3     A  R  T  A  P  A  R  V  P  T  L  A  V  P  A  I  S  L  P  D
Query                 61   GCGCGTACCGCCCCAGCCCGGGTGCCCACACTGGCCGTCCCGGCCATCTCGCTGCCCGAC  120
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 62   GCGCGTACCGCCCCAGCCCGGGTGCCCACACTGGCCGTCCCGGCCATCTCGCTGCCCGAC  121

CDS:DNA (cytosine-5)  23    D  V  R  R  R  L  K  D  L  E  R  D  S  L  T  E  K  E  C  V
Query                 121  GATGTCCGCAGGCGGCTCAAAGATTTGGAAAGAGACAGCTTAACAGAAAAGGAATGTGTG  180
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 122  GATGTCCGCAGGCGGCTCAAAGATTTGGAAAGAGACAGCTTAACAGAAAAGGAATGTGTG  181

CDS:DNA (cytosine-5)  43    K  E  K  L  N  L  L  H  E  F  L  Q  T  E  I  K  N  Q  L  C
Query                 181  AAGGAGAAATTGAATCTCTTGCACGAATTTCTGCAAACAGAAATAAAGAATCAGTTATGT  240
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 182  AAGGAGAAATTGAATCTCTTGCACGAATTTCTGCAAACAGAAATAAAGAATCAGTTATGT  241

CDS:DNA (cytosine-5)  63    D  L  E  T  K  L  R  K  E  E  L  S  E  E  G  Y  L  A  K  V
Query                 241  GACTTGGAAACCAAATTACGTAAAGAAGAATTATCCGAGGAGGGCTACCTGGCTAAAGTC  300
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 242  GACTTGGAAACCAAATTACGTAAAGAAGAATTATCCGAGGAGGGCTACCTGGCTAAAGTC  301

CDS:DNA (cytosine-5)  83    K  S  L  L  N  K  D  L  S  L  E  N  G  A  H  A  Y  N  R  E
Query                 301  AAATCCCTTTAAATAAAGATTTGTCCTTGGAGAACGGTGCTCATGCTTACAACCGGGAA  360
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 302  AAATCCCTTTAAATAAAGATTTGTCCTTGGAGAACGGTGCTCATGCTTACAACCGGGAA  361

CDS:DNA (cytosine-5)  103   V  N  G  R  L  E  N  G  N  Q  A  R  S  E  A  R  R  V  G  M
Query                 361  GTGAATGGACGTCTAGAAAACGGGAACCAAGCAAGAAGTGAAGCCCGTAGAGTGGGAATG  420
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 362  GTGAATGGACGTCTAGAAAACGGGAACCAAGCAAGAAGTGAAGCCCGTAGAGTGGGAATG  421

CDS:DNA (cytosine-5)  123   A  D  A  N  S  P  P  K  P  L  S  K  P  R  T  P  R  R  S  K
Query                 421  GCAGATGCCAACAGcccccccAAACCCCTTTCCAAACCTCGCACGCCCAGGAGGAGCAAG  480
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 422  GCAGATGCCAACAGCCCCCCCAAACCCCTTTCCAAACCTCGCACGCCCAGGAGGAGCAAG  481

CDS:DNA (cytosine-5)  143   S  D  G  E  A  K  P  E  P  S  P  S  P  R  I  T  R  K  S  T
Query                 481  TCCGATGGAGAGGCTAAGCCTGAACCTTCACCTAGCCCCAGGATTACAAGGAAAAGCACC  540
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 482  TCCGATGGAGAGGCTAAGCCTGAACCTTCACCTAGCCCCAGGATTACAAGGAAAAGCACC  541

CDS:DNA (cytosine-5)  163   R  Q  T  T  I  T  S  H  F  A  K  G  P  A  K  R  K  P  Q  E
Query                 541  AGGCAAACCACCATCACATCTCATTTTGCAAAGGGCCCTGCCAAACGGAAACCTCAGGAA  600
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 542  AGGCAAACCACCATCACATCTCATTTTGCAAAGGGCCCTGCCAAACGGAAACCTCAGGAA  601

CDS:DNA (cytosine-5)  183   E  S  E  R  A  K  S  D  E  S  I  K  E  E  D  K  D  Q  D  E
Query                 601  GAGTCTGAAAGAGCCAAATCGGATGAGTCCATCAAGGAAGAAGACAAAGACCAGGATGAG  660
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 602  GAGTCTGAAAGAGCCAAATCGGATGAGTCCATCAAGGAAGAAGACAAAGACCAGGATGAG  661

CDS:DNA (cytosine-5)  203   K  R  R  R  V  T  S  R  E  R  V  A  R  P  L  P  A  E  E  P
Query                 661  AAGAGACGTAGAGTTACATCCAGAGAACGAGTTGCTAGACCGCTTCCTGCAGAAGAACCT  720
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 662  AAGAGACGTAGAGTTACATCCAGAGAACGAGTTGCTAGACCGCTTCCTGCAGAAGAACCT  721

CDS:DNA (cytosine-5)  223   E  R  A  K  S  G  T  R  T  E  K  E  E  E  R  D  E  K  E  E
Query                 721  GAAAGAGCAAAATCAGGAACGCGCACTgaaaaggaagaagaaaagagatgaaaaagaagaa  780
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 722  GAAAGAGCAAAATCAGGAACGCGCACTGAAAAGGAAGAAGAAAGAGATGAAAAAGAAGAA  781
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CDS:DNA (cytosine-5)  243   K  R  L  R  S  Q  T  K  E  P  T  P  K  Q  K  L  K  E  E  P
Query                 781   aagagaCTCCGAAGTCAAACCAAAGAACCAACACCCAAACAGAAACTGAAGGAGGAGCCG  840
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 782   AAGAGACTCCGAAGTCAAACCAAAGAACCAACACCCAAACAGAAACTGAAGGAGGAGCCG  841

CDS:DNA (cytosine-5)  263   D  R  E  A  R  A  G  V  Q  A  D  E  D  E  D  G  D  E  K  D
Query                 841   GACAGAGAAGCCAGGGCAGGCGTGCAGGCTGACGAGGACGAAGATGGAGACGAGAAAGAT  900
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 842   GACAGAGAAGCCAGGGCAGGCGTGCAGGCTGACGAGGACGAAGATGGAGACGAGAAAGAT  901

CDS:DNA (cytosine-5)  283   E  K  K  H  R  S  Q  P  K  D  L  A  A  K  R  R  P  E  E  K
Query                 901   GAGAAGAAGCACAGAAGTCAACCCAAAGATCTAGCTGCCAAACGGAGGCCCGAAGAAAAA  960
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 902   GAGAAGAAGCACAGAAGTCAACCCAAAGATCTAGCTGCCAAACGGAGGCCCGAAGAAAAA  961

CDS:DNA (cytosine-5)  303   E  P  E  K  V  N  P  Q  I  S  D  E  K  D  E  D  E  K  E  E
Query                 961   GAACCTGAAAAAGTAAATCCACAGATTTCTGATGAAAAAGACGAGGATGAAAAGGAGGAG  1020
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 962   GAACCTGAAAAAGTAAATCCACAGATTTCTGATGAAAAAGACGAGGATGAAAAGGAGGAG  1021

CDS:DNA (cytosine-5)  323   K  R  R  K  T  T  P  K  E  P  T  E  K  K  M  A  R  A  K  T
Query                 1021  AAGAGACGCAAAACGACCCCCAAAGAACCAACGGAGaaaaaaaTGGCTCGCGCCAAAACA  1080
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 1022  AAGAGACGCAAAACGACCCCCAAAGAACCAACGGAGAAAAAAATGGCTCGCGCCAAAACA  1081

CDS:DNA (cytosine-5)  343   V  M  N  S  K  T  H  P  P  K  C  I  Q  C  G  Q  Y  L  D  D
Query                 1081  GTCATGAACTCCAAGACCCACCCTCCCAAGTGCATTCAGTGCGGGCAGTACCTGGACGAC  1140
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 1082  GTCATGAACTCCAAGACCCACCCTCCCAAGTGCATTCAGTGCGGGCAGTACCTGGACGAC  1141

CDS:DNA (cytosine-5)  363   P  D  L  K  Y  G  Q  H  P  P  D  A  V  D  E  P  Q  M  L  T
Query                 1141  CCTGACCTCAAATATGGGCAGCACCCACCAGACGCGGTGGATGAGCCACAGATGCTGACA  1200
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 1142  CCTGACCTCAAATATGGGCAGCACCCACCAGACGCGGTGGATGAGCCACAGATGCTGACA  1201

CDS:DNA (cytosine-5)  383   N  E  K  L  S  I  F  D  A  N  E  S  G  F  E  S  Y  E  A  L
Query                 1201  AATGAGAAGCTGTCCATCTTTGATGCCAACGAGTCTGGCTTTGAGAGTTATGAGGCGCTT  1260
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 1202  AATGAGAAGCTGTCCATCTTTGATGCCAACGAGTCTGGCTTTGAGAGTTATGAGGCGCTT  1261

CDS:DNA (cytosine-5)  403   P  Q  H  K  L  T  C  F  S  V  Y  C  K  H  G  H  L  C  P  I
Query                 1261  CCCCAGCACAAACTGACCTGCTTCAGTGTGTACTGTAAGCACGGTCACCTGTGTCCCATC  1320
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 1262  CCCCAGCACAAACTGACCTGCTTCAGTGTGTACTGTAAGCACGGTCACCTGTGTCCCATC  1321

CDS:DNA (cytosine-5)  423   D  T  G  L  I  E  K  N  I  E  L  F  F  S  G  S  A  K  P  I
Query                 1321  GACACCGGCCTCATCGAGAAGAATATCGAACTCTTCTTTTCTGGTTCAGCAAAACCAATC  1380
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 1322  GACACCGGCCTCATCGAGAAGAATATCGAACTCTTCTTTTCTGGTTCAGCAAAACCAATC  1381

CDS:DNA (cytosine-5)  443   Y  D  D  D  P  S  L  E  G  G  V  N  G  K  N  L  G  P  I  N
Query                 1381  TATGATGATGACCCATCTCTTGAAGGTGGTGTTAATGGCAAAAATCTTGGCCCCATAAAT  1440
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 1382  TATGATGATGACCCATCTCTTGAAGGTGGTGTTAATGGCAAAAATCTTGGCCCCATAAAT  1441

CDS:DNA (cytosine-5)  463   E  W  W  I  T  G  F  D  G  G  E  K  A  L  I  G  F  S  T  S
Query                 1441  GAATGGTGGATCACTGGCTTTGATGGAGGTGAAAAGGCCCTCATCGGCTTCAGCACCTCA  1500
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 1442  GAATGGTGGATCACTGGCTTTGATGGAGGTGAAAAGGCCCTCATCGGCTTCAGCACCTCA  1501

CDS:DNA (cytosine-5)  483   F  A  E  Y  I  L  M  D  P  S  P  E  Y  A  P  I  F  G  L  M
Query                 1501  TTTGCCGAATACATTCTGATGGATCCCAGTCCCGAGTATGCGCCCATATTTGGGCTGATG  1560
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 1502  TTTGCCGAATACATTCTGATGGATCCCAGTCCCGAGTATGCGCCCATATTTGGGCTGATG  1561

CDS:DNA (cytosine-5)  503   Q  E  K  I  Y  I  S  K  I  V  V  E  F  L  Q  S  N  S  D  S
Query                 1561  CAGGAGAAGATCTACATCAGCAAGATTGTGGTGGAGTTCCTGCAGAGCAATTCCGACTCG  1620
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 1562  CAGGAGAAGATCTACATCAGCAAGATTGTGGTGGAGTTCCTGCAGAGCAATTCCGACTCG  1621

CDS:DNA (cytosine-5)  523   T  Y  E  D  L  I  N  K  I  E  T  T  V  P  P  S  G  L  N  L
Query                 1621  ACCTATGAGGACCTGATCAACAAGATCGAGACCACGGTTCCTCCTTCTGGCCTCAACTTG  1680
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 1622  ACCTATGAGGACCTGATCAACAAGATCGAGACCACGGTTCCTCCTTCTGGCCTCAACTTG  1681

CDS:DNA (cytosine-5)  543   N  R  F  T  E  D  S  L  L  R  H  A  Q  F  V  V  E  Q  V  E
Query                 1681  AACCGCTTCACAGAGGACTCCCTCCTGCGACACGCGCAGTTTGTGGT[1788 A>G]
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 1682  AACCGCTTCACAGAGGACTCCCTCCTGCGACACGCGCAGTTTGTGGT

CDS:DNA (cytosine-5)  563   S  Y  D  E  A  G  D  S  D  E  Q  P  I  F  L  T  P  C  M  R
Query                 1741  AGTTATGACGAGGCCGGGGACAGTGATGAGCAGCCCATCTTCCTGACACCCTGCATGCGG  1800
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 1742  AGTTATGACGAGGCCGGGGACAGTGATGAGCAGCCCATCTTCCTGACGCCCTGCATGCGG  1801

CDS:DNA (cytosine-5)  583   D  L  I  K  L  A  G  V  T  L  G  Q  R  R  A  Q  A  R  R  Q
Query                 1801  GACCTGATCAAGCTGGCTGGGGTCACGCTGGGACAGAGGCGAGCCCAGGCGAGGCGGCAG  1860
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 1802  GACCTGATCAAGCTGGCTGGGGTCACGCTGGGACAGAGGCGAGCCCAGGCGAGGCGGCAG  1861

CDS:DNA (cytosine-5)  603   T  I  R  H  S  T  R  E  K  D  R  G  P  T  K  A  T  T  T  K
Query                 1861  ACCATCAGGCATTCTACCAGGGAGAAGGACAGGGGACCCACGAAAGCCACCACCACCAAG  1920
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 1862  ACCATCAGGCATTCTACCAGGGAGAAGGACAGGGGACCCACGAAAGCCACCACCACCAAG  1921

CDS:DNA (cytosine-5)  623   L  V  Y  Q  I  F  D  T  F  F  A  E  Q  I  E  K  D  D  R  E
Query                 1921  CTGGTCTACCAGATCTTCGATACTTTCTTCGCAGAGCAAATTGAAAAGGATGACAGAGAA  1980
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 1922  CTGGTCTACCAGATCTTCGATACTTTCTTCGCAGAGCAAATTGAAAAGGATGACAGAGAA  1981

CDS:DNA (cytosine-5)  643   D  K  E  N  A  F  K  R  R  R  C  G  V  C  E  V  C  Q  Q  P
Query                 1981  GACAAGGAGAACGCCTTTAAGCGCCGGCGATGTGGCGTCTGTGAGGTGTGTCAGCAGCCT  2040
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 1982  GACAAGGAGAACGCCTTTAAGCGCCGGCGATGTGGCGTCTGTGAGGTGTGTCAGCAGCCT  2041

CDS:DNA (cytosine-5)  663   E  C  G  K  C  K  A  C  K  D  M  V  K  F  G  G  S  G  R  S
Query                 2041  GAGTGTGGGAAATGTAAAGCCTGCAAGGACATGGTTAAATTTGGTGGCAGTGGACGGAGC  2100
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 2042  GAGTGTGGGAAATGTAAAGCCTGCAAGGACATGGTTAAATTTGGTGGCAGTGGACGGAGC  2101

CDS:DNA (cytosine-5)  683   K  Q  A  C  Q  E  R  R  C  P  N  M  A  M  K  E  A  D  D  D
Query                 2101  AAGCAGGCTTGCCAAGAGCGGAGGTGTCCCAATATGGCCATGAAGGAGGCAGATGACGAT  2160
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 2102  AAGCAGGCTTGCCAAGAGCGGAGGTGTCCCAATATGGCCATGAAGGAGGCAGATGACGAT  2161

CDS:DNA (cytosine-5)  703   E  E  V  D  D  N  I  P  E  M  P  S  P  K  K  M  H  Q  G  K
Query                 2161  GAGGAAGTCGATGATAACATCCCAGAGATGCCGTCACCCaaaaaaaTGCACCAGGGGAAG  2220
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 2162  GAGGAAGTCGATGATAACATCCCAGAGATGCCGTCACCCAAAAAAATGCACCAGGGGAAG  2221

CDS:DNA (cytosine-5)  723   K  K  K  Q  N  K  N  R  I  S  W  V  G  E  A  V  K  T  D  G
Query                 2221  AAGAAGAAACAGAACAAGAATCGCATCTCTTGGGTCGGAGAAGCCGTCAAGACTGATGGG  2280
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 2222  AAGAAGAAACAGAACAAGAATCGCATCTCTTGGGTCGGAGAAGCCGTCAAGACTGATGGG  2281

CDS:DNA (cytosine-5)  743   K  K  S  Y  Y  K  K  V  C  I  D  A  E  T  L  E  V  G  D  G
Query                 2281  AAGAAGAGTTACTATAAGAAGGTGTGCATTGATGCGGAAACCCTGGAAGTGGGGGACTGT  2340
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 2282  AAGAAGAGTTACTATAAGAAGGTGTGCATTGATGCGGAAACCCTGGAAGTGGGGGACTGT  2341

CDS:DNA (cytosine-5)  763   V  S  V  I  P  D  D  S  S  K  P  L  Y  L  A  R  V  T  A  L
Query                 2341  GTCTCTGTTATTCCAGATGATTCCTCAAAACCGCTGTATCTAGCAAGGGTCACGGCGCTG  2400
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 2342  GTCTCTGTTATTCCAGATGATTCCTCAAAACCGCTGTATCTAGCAAGGGTCACGGCGCTG  2401

CDS:DNA (cytosine-5)  783   W  E  D  S  S  N  G  Q  M  F  H  A  H  W  F  C  A  G  T  D
Query                 2401  TGGGAGGACAGCAGCAACGGGCAGATGTTTCACGCCCACTGGTTCTGCGCTGGGACAGAC  2460
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 2402  TGGGAGGACAGCAGCAACGGGCAGATGTTTCACGCCCACTGGTTCTGCGCTGGGACAGAC  2461

CDS:DNA (cytosine-5)  803   T  V  L  G  A  T  S  D  P  L  E  L  F  L  V  D  E  C  E  D
Query                 2461  ACAGTCCTCGGGGCCACGTCGGACCCTCTGGAGCTGTTCTTGGTGGATGAATGTGAGGAC  2520
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 2462  ACAGTCCTCGGGGCCACGTCGGACCCTCTGGAGCTGTTCTTGGTGGATGAATGTGAGGAC  2521

CDS:DNA (cytosine-5)  823   M  Q  L  S  Y  I  H  S  K  V  K  V  I  Y  K  A  P  S  E  N
Query                 2521  ATGCAGCTTTCATATATCCACAGCAAAGTGAAAGTCATCTACAAAGCCCCCTCCGAAAAC  2580
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 2522  ATGCAGCTTTCATATATCCACAGCAAAGTGAAAGTCATCTACAAAGCCCCCTCCGAAAAC  2581

CDS:DNA (cytosine-5)  843   W  A  M  E  G  G  M  D  P  E  S  L  L  E  G  D  D  G  K  T
Query                 2581  TGGGCCATGGAGGGAGGCATGGATCCCGAGTCCCTGCTGGAGGGGGACGACGGGAAGACC  2640
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 2582  TGGGCCATGGAGGGAGGCATGGATCCCGAGTCCCTGCTGGAGGGGGACGACGGGAAGACC  2641

CDS:DNA (cytosine-5)  863   Y  F  Y  Q  L  W  Y  D  Q  D  Y  A  R  F  E  S  P  P  K  T
Query                 2641  TACTTCTACCAGCTGTGGTATGATCAAGACTACGCGAGATTCGAGTCCCCTCCAAAAACC  2700
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 2642  TACTTCTACCAGCTGTGGTATGATCAAGACTACGCGAGATTCGAGTCCCCTCCAAAAACC  2701

CDS:DNA (cytosine-5)  883   Q  P  T  E  D  N  K  F  K  F  C  V  S  C  A  R  L  A  E  M
Query                 2701  CAGCCAACAGAGGACAACAAGTTCAAATTCTGTGTGAGCTGTGCCCGTCTGGCTGAGATG  2760
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 2702  CAGCCAACAGAGGACAACAAGTTCAAATTCTGTGTGAGCTGTGCCCGTCTGGCTGAGATG  2761

CDS:DNA (cytosine-5)  903   R  Q  K  E  I  P  R  V  L  E  Q  L  E  D  L  D  S  R  V  L
Query                 2761  AGGCAAAAAGAAATCCCCAGGGTCCTGGAGCAGCTCGAGGACCTGGATAGCCGGGTCCTC  2820
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 2762  AGGCAAAAAGAAATCCCCAGGGTCCTGGAGCAGCTCGAGGACCTGGATAGCCGGGTCCTC  2821

CDS:DNA (cytosine-5)  923   Y  Y  S  A  T  K  N  G  I  L  Y  R  V  G  D  G  V  Y  L  P
Query                 2821  TACTACTCAGCCACCAAGAACGGCATCCTGTACCGAGTTGGTGATGGTGTGTACCTGCCC  2880
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 2822  TACTACTCAGCCACCAAGAACGGCATCCTGTACCGAGTTGGTGATGGTGTGTACCTGCCC  2881

CDS:DNA (cytosine-5)  943   P  E  A  F  T  F  N  I  K  L  S  S  P  V  K  R  P  R  K  E
Query                 2881  CCTGAGGCCTTCACGTTCAACATCAAGCTGTCCAGTCCCGTGAAACGCCCACGGAAGGAG  2940
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 2882  CCTGAGGCCTTCACGTTCAACATCAAGCTGTCCAGTCCCGTGAAACGCCCACGGAAGGAG  2941

CDS:DNA (cytosine-5)  963   P  V  D  E  D  L  Y  P  E  H  Y  R  K  Y  S  D  Y  I  K  G
Query                 2941  CCCGTGGATGAGGACCTGTACCCAGAGCACTACCGGAAATACTCCGACTACATCAAAGGC  3000
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 2942  CCCGTGGATGAGGACCTGTACCCAGAGCACTACCGGAAATACTCCGACTACATCAAAGGC  3001

CDS:DNA (cytosine-5)  983   S  N  L  D  A  P  E  P  Y  R  I  G  R  I  K  E  I  F  C  P
Query                 3001  AGCAACCTGGATGCCCCTGAGCCCTACCGAATTGGCCGGATCAAAGAGATCTTCTGTCCC  3060
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 3002  AGCAACCTGGATGCCCCTGAGCCCTACCGAATTGGCCGGATCAAAGAGATCTTCTGTCCC  3061

CDS:DNA (cytosine-5)  1003  K  K  S  N  G  R  P  N  E  T  D  I  K  I  R  V  N  K  F  Y
Query                 3061  AAGAAGAGCAACGGCAGGCCCAATGAGACTGACATCAAAATCCGGGTCAACAAGTTCTAC  3120
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Sbjct                 3062  AAGAAGAGCAACGGCAGGCCCAATGAGACTGACATCAAAATCCGGGTCAACAAGTTCTAC  3121

CDS:DNA (cytosine-5)  1023  R  P  E  N  T  H  K  S  T  P  A  S  Y  H  A  D  I  N  L  L
Query                 3121  AGGCCTGAGAACACCCACAAGTCCACTCCAGCGAGCTACCACGCAGACATCAACCTGCTC  3180
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 3122  AGGCCTGAGAACACCCACAAGTCCACTCCAGCGAGCTACCACGCAGACATCAACCTGCTC  3181

CDS:DNA (cytosine-5)  1043  Y  W  S  D  E  E  A  V  V  D  F  K  A  V  Q  G  R  C  T  V
Query                 3181  TACTGGAGCGACGAGGAGGCCGTGGTGGACTTCAAGGCTGTGCAGGGCCGCTGCACCGTG  3240
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 3182  TACTGGAGCGACGAGGAGGCCGTGGTGGACTTCAAGGCTGTGCAGGGCCGCTGCACCGTG  3241
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CDS:DNA (cytosine-5)  1063  E Y G E D L P E C V Q V Y S M G G P N R
Query                 3241  GAGTATGGGGAGGACCTGCCCGAGTGCGTCCAGGTGTACTCCATGGGCGGCCCCAACCGC  3300
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 3242  GAGTATGGGGAGGACCTGCCCGAGTGCGTCCAGGTGTACTCCATGGGCGGCCCCAACCGC  3301

CDS:DNA (cytosine-5)  1083  F Y F L E A Y N A K S K S F E D P P N H
Query                 3301  TTCTACTTCCTCGAGGCCTATAATGCAAAGAGCAAAAGCTTTGAAGATCCTCCCAACCAT  3360
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 3302  TTCTACTTCCTCGAGGCCTATAATGCAAAGAGCAAAAGCTTTGAAGATCCTCCCAACCAT  3361

CDS:DNA (cytosine-5)  1103  A R S P G N K G K G K G K G K G K P K S
Query                 3361  GCCCGTAGCCCTGGAAACAAAGGGAAGGGCAAGGGAAAAGGGAAGGGCAAGCCCAAGTCC  3420
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Sbjct                 3362  GCCCGTAGCCCTGGAAACAAAGGGAAGGGCAAGGGAAAAGGGAAGGGCAAGCCCAAGTCC  3421

CDS:DNA (cytosine-5)  1123  Q A C E P S E P E I E I K L P K L R T L
Query                 3421  CAAGCCTGTGAGCCGAGCGAGCCAGAGATAGAGATCAAGCTGCCCAAGCTGCGGACCCTG  3480
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 3422  CAAGCCTGTGAGCCGAGCGAGCCAGAGATAGAGATCAAGCTGCCCAAGCTGCGGACCCTG  3481

CDS:DNA (cytosine-5)  1143  D V F S G C G G L S E G F H Q A G I S D
Query                 3481  GATGTGTTTTCTGGCTGCGGGGGGTTGTCGGAGGGATTCCACCAAGCAGGCATCTCTGAC  3540
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 3482  GATGTGTTTTCTGGCTGCGGGGGGTTGTCGGAGGGATTCCACCAAGCAGGCATCTCTGAC  3541

CDS:DNA (cytosine-5)  1163  T L W A I E M W D P A A Q A F R L N N P
Query                 3541  ACGCTGTGGGCCATCGAGATGTGGGACCCTGCGGCCCAGGCGTTCCGGCTGAACAACCCC  3600
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 3542  ACGCTGTGGGCCATCGAGATGTGGGACCCTGCGGCCCAGGCGTTCCGGCTGAACAACCCC  3601

CDS:DNA (cytosine-5)  1183  G S T V F T E D C N I L L K L V M A G E
Query                 3601  GGCTCCACAGTGTTCACAGAGGACTGCAACATCCTGCTGAAGCTGGTCATGGCTGGGGAG  3660
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 3602  GGCTCCACAGTGTTCACAGAGGACTGCAACATCCTGCTGAAGCTGGTCATGGCTGGGGAG  3661

CDS:DNA (cytosine-5)  1203  T T N S R G Q R L P Q K G D V E M L C G
Query                 3661  ACCACCAACTCCCGCGGCCAGCGGCTGCCCCAGAAGGGAGACGTGGAGATGCTGTGCGGC  3720
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 3662  ACCACCAACTCCCGCGGCCAGCGGCTGCCCCAGAAGGGAGACGTGGAGATGCTGTGCGGC  3721

CDS:DNA (cytosine-5)  1223  G P P C Q G F S G M N R F N S R T Y S K
Query                 3721  GGGCCGCCCTGCCAGGGCTTCAGCGGCATGAACCGCTTCAATTCGCGCACCTACTCCAAG  3780
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Sbjct                 3722  GGGCCGCCCTGCCAGGGCTTCAGCGGCATGAACCGCTTCAATTCGCGCACCTACTCCAAG  3781

CDS:DNA (cytosine-5)  1243  F K N S L V V S F L S Y C D Y Y R P R F
Query                 3781  TTCAAAAACTCTCTGGTGGTTTCCTTCCTCAGCTACTGCGACTACTACCGGCCCCGGTTC  3840
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Sbjct                 3782  TTCAAAAACTCTCTGGTGGTTTCCTTCCTCAGCTACTGCGACTACTACCGGCCCCGGTTC  3841

CDS:DNA (cytosine-5)  1263  F L L E N V R N F V S F K R S M V L K L
Query                 3841  TTCCTCCTGGAGAATGTCAGGAACTTTGTCTCCTTCAAGCGCTCCATGGTCCTGAAGCTC  3900
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 3842  TTCCTCCTGGAGAATGTCAGGAACTTTGTCTCCTTCAAGCGCTCCATGGTCCTGAAGCTC  3901

CDS:DNA (cytosine-5)  1283  T L R C L V R M G Y Q C T F G V L Q A G
Query                 3901  ACCCTCCGCTGCCTGGTCCGCATGGGCTATCAGTGCACCTTCGGCGTGCTGCAGGCCGGT  3960
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 3902  ACCCTCCGCTGCCTGGTCCGCATGGGCTATCAGTGCACCTTCGGCGTGCTGCAGGCCGGT  3961

CDS:DNA (cytosine-5)  1303  Q Y G V A Q T R R R A I I L A A A P G E
Query                 3961  CAGTACGGCGTGGCCCAGACTAGGAGGCGGGCCATCATCCTGGCCGCGGCCCCTGGAGAG  4020
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Sbjct                 3962  CAGTACGGCGTGGCCCAGACTAGGAGGCGGGCCATCATCCTGGCCGCGGCCCCTGGAGAG  4021

CDS:DNA (cytosine-5)  1323  K L P L F P E P L H V F A P R A C Q L S
Query                 4021  AAGCTCCCTCTGTTCCCGGAGCCACTGCACGTGTTTGCTCCCCGGGCCTGCCAGCTGAGC  4080
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CDS:DNA (cytosine-5)  1343  V V V D D K K F V S N I T R L S S G P F
Query                 4081  GTGGTGGTGGATGACAAGAAGTTTGTGAGCAACATAACCAGGTTGAGCTCGGGTCCTTTC  4140
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Sbjct                 4082  GTGGTGGTGGATGACAAGAAGTTTGTGAGCAACATAACCAGGTTGAGCTCGGGTCCTTTC  4141

CDS:DNA (cytosine-5)  1363  R T I T V R D T M S D L P E V R N G A S
Query                 4141  CGGACCATCACGGTGCGAGACACGATGTCCGACCTGCCGGAGGTGCGGAATGGAGCCTCG  4200
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Sbjct                 4142  CGGACCATCACGGTGCGAGACACGATGTCCGACCTGCCGGAGGTGCGGAATGGAGCCTCG  4201

CDS:DNA (cytosine-5)  1383  A L E I S Y N G E P Q S W F Q R Q L R G
Query                 4201  GCACTGGAGATCTCCTACAACGGGGAGCCTCAGTCCTGGTTCCAGAGGCAGCTCCGGGGC  4260
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Sbjct                 4202  GCACTGGAGATCTCCTACAACGGGGAGCCTCAGTCCTGGTTCCAGAGGCAGCTCCGGGGC  4261

CDS:DNA (cytosine-5)  1403  A Q Y Q P I L R D H I C K D M S A L V A
Query                 4261  GCACAGTACCAGCCCATCCTCAGGGACCACATCTGTAAGGACATGAGTGCATTGGTGGCT  4320
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 4262  GCACAGTACCAGCCCATCCTCAGGGACCACATCTGTAAGGACATGAGTGCATTGGTGGCT  4321

CDS:DNA (cytosine-5)  1423  A R M R H I P L A P G S D W R D L P N I
Query                 4321  GCCCGCATGCGGCACATCCCCTTGGCCCCAGGGTCAGACTGGCGCGATCTGCCCAACATC  4380
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CDS:DNA (cytosine-5)  1443  E V R L S D G T M A R K L R Y T H H D R
Query                 4381  GAGGTGCGGCTCTCAGACGGCACCATGGCCAGGAAGCTGCGGTATACCCACCATGACAGG  4440
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Sbjct                 4382  GAGGTGCGGCTCTCAGACGGCACCATGGCCAGGAAGCTGCGGTATACCCACCATGACAGG  4441

CDS:DNA (cytosine-5)  1463  K N G R S S S G A L R G V C S C V E A G
Query                 4441  AAGAACGGCCGCAGCAGCTCTGGGGCCCTCCGTGGGGTCTGCTCCTGCGTGGAAGCCGGC  4500
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Sbjct                 4442  AAGAACGGCCGCAGCAGCTCTGGGGCCCTCCGTGGGGTCTGCTCCTGCGTGGAAGCCGGC  4501

CDS:DNA (cytosine-5)  1483  K A C D P A A R Q F N T L I P W C L P H
Query                 4501  AAAGCCTGCGACCCCGCAGCCAGGCAGTTCAACACCCTCATCCCCTGGTGCCTGCCCCAC  4560
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Sbjct                 4502  AAAGCCTGCGACCCCGCAGCCAGGCAGTTCAACACCCTCATCCCCTGGTGCCTGCCCCAC  4561

CDS:DNA (cytosine-5)  1503  T G N R H N H W A G L Y G R L E W D G F
Query                 4561  ACCGGGAACCGGCACAACCACTGGGCTGGCCTCTATGGAAGGCTCGAGTGGGACGGCTTC  4620
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Sbjct                 4562  ACCGGGAACCGGCACAACCACTGGGCTGGCCTCTATGGAAGGCTCGAGTGGGACGGCTTC  4621

CDS:DNA (cytosine-5)  1523  F S T T V T N P E P M G K Q G R V L H P
Query                 4621  TTCAGCACAACCGTCACCAACCCCGAGCCCATGGGCAAGCAGGGCCGCGTGCTCCACCCA  4680
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Sbjct                 4622  TTCAGCACAACCGTCACCAACCCCGAGCCCATGGGCAAGCAGGGCCGCGTGCTCCACCCA  4681

CDS:DNA (cytosine-5)  1543  E Q H R V V S V R E C A R S Q G F P D T
Query                 4681  GAGCAGCACCGTGTGGTGAGCGTGCGGGAGTGTGCCCGCTCCCAGGGCTTCCCTGACACC  4740
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Sbjct                 4682  GAGCAGCACCGTGTGGTGAGCGTGCGGGAGTGTGCCCGCTCCCAGGGCTTCCCTGACACC  4741

CDS:DNA (cytosine-5)  1563  Y R L F G N I L D K H R Q V G N A V P P
Query                 4741  TACCGGCTCTTCGGCAACATCCTGGACAAGCACCGGCAGGTGGGCAATGCCGTGCCACCG  4800
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Sbjct                 4742  TACCGGCTCTTCGGCAACATCCTGGACAAGCACCGGCAGGTGGGCAATGCCGTGCCACCG  4801

CDS:DNA (cytosine-5)  1583  P L A K A I G L E I K L C M L A K A R E
Query                 4801  CCCCTGGCCAAAGCCATTGGCTTGGAGATCAAGCTTTGTATGTTGGCCAAAGCCCGAGAG  4860
                            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                 4802  CCCCTGGCCAAAGCCATTGGCTTGGAGATCAAGCTTTGTATGTTGGCCAAAGCCCGAGAG  4861

CDS:DNA (cytosine-5)  1603  S A S A K I K E E E A A K D
Query                 4861  AGTGCCTCAGCTAAAATAAAGGAGGAGGAAGCTGCTAAGGACTAGTTCTGCCCTCCCGTC  4920
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Query                 5041  TGTGTGAGGTTCGCTTATCAACTAATGATTTAGTGATCAAATTGTGCAGTACTTTGTGCA  5100
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Query                 5221  AAACCA  5226
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Sbjct                 5222  AAACCA  5227
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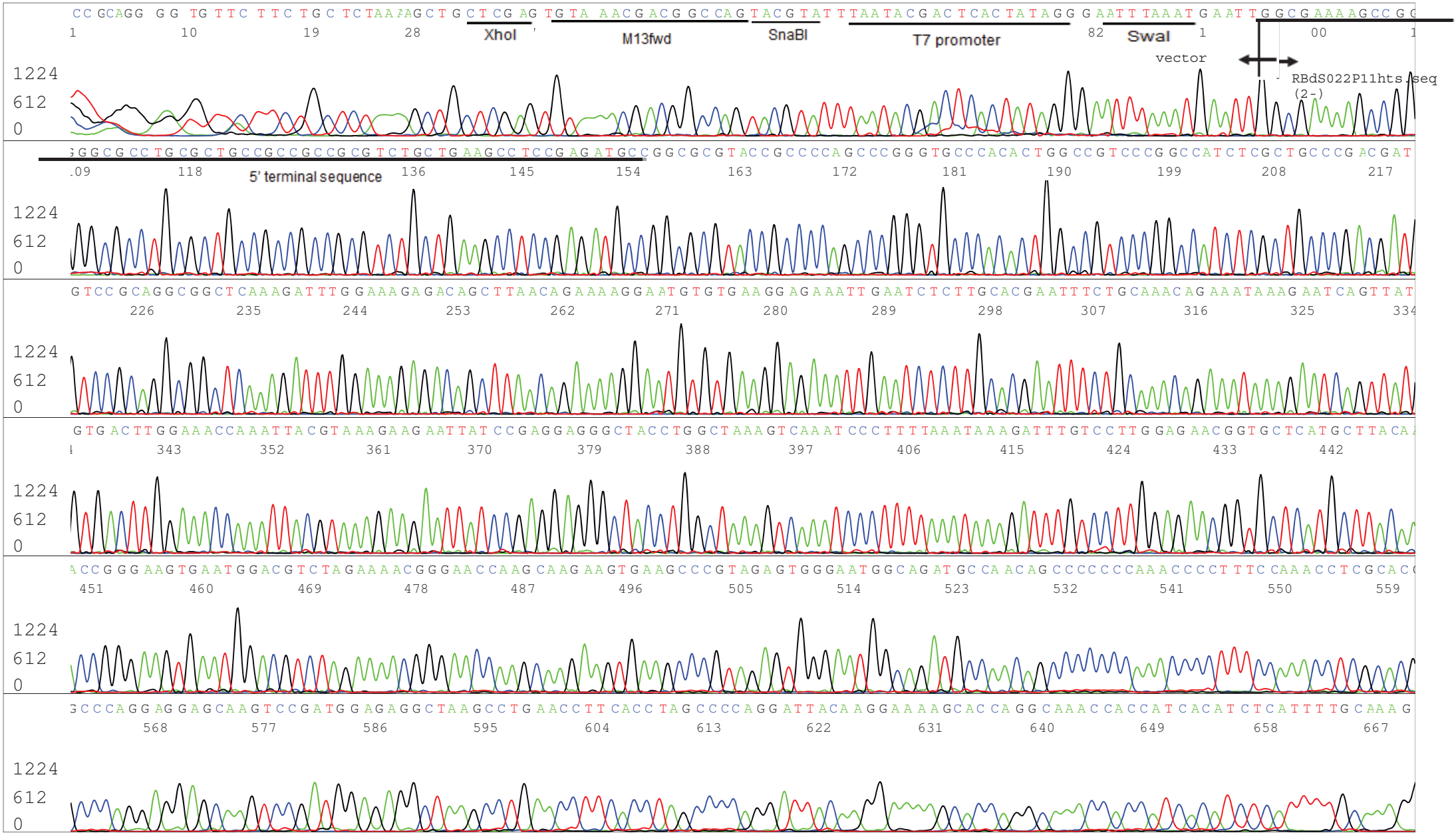
Applied Biosystems

S/N G:146 A:282 T:125 C:221
KB.bcp
KB 1.4.1.8 Cap:10

Primer A : pGCAP-F
5' CTCAGTGGATGTTGCCTTTAC 3'

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KB_3500_POP7_BDTv3.mob
Pts 1663 to 12992 Pk1 Loc:1640
Version 6.0 HiSQV Bases: 786

Inst Model/Name 3500/3500 Instrument
Mar 28,2024 09:49AM, JST
Mar 28,2024 10:17AM, JST
Spacing:11.28 Pts/Panel1350
Plate Name: 20240328_GNP



Applied Biosystems

S/N G:104 A:163 T:117 C:164
KB.bcp
KB 1.4.1.8 Cap:13

Primer B : pGCAP-R
5' GCATTCTAGTTGTGGTTTGTCC 3'

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Pts 1676 to 12739 Pk1 Loc:1653
Version 6.0 HiSQV Bases: 85

Inst Model/Name 3500/3500 Instrument
Mar 28,2024 09:49AM, JST
Mar 28,2024 10:17AM, JST
Spacing:13.25 Pts/Panel1350
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