NRCD Human Full-Length cDNA Clone

Gene Engineering Division
RIKEN BioResource Research Center

RIKEN Clone ID : RBd12G07

Lot# : 7677_B4D9

Vector : pGCAP10

Gene	PUM2	
RefSeq_mRNA	NM_001282752.3	6200 bp

● Plasmid DNA purification

Date : 2024/04/09 Culture : LB (100 ug/ml Ampicillin) 5 ml -> at 37 deg C O/N

Date : 2024/04/10 Purification : QIAGEN Miniprep kit -> dH_2O 100 ul

● Digestion by restriction enzyme/Concentrarion calibration

Date : 2024/04/10

DNA concentration (O.D.): 350 ng/ul

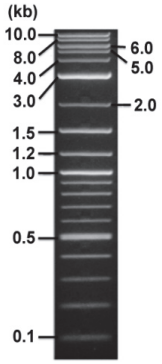
DNA	0.28 ul
Enzyme (BamHI)	1 ul
Buffer H	1 ul
dH_2O	7.72 ul
Total	10 ul

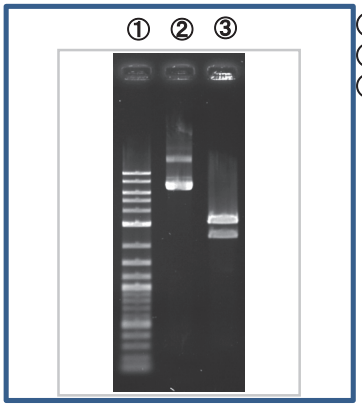
< Size of fragment expected from this clone >

BamHI 3.1kb (vector), 2.4 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 : 2024/04/18

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 : 2024/04/18

DNA (350 ng/ul)	84 ul
10x TE	118 ul
dH_2O	974 ul
Total	1,176 ul

● Shipping

☑ Conc. : 25 ng/μl, Volume : 40 μl

☐ Conc. : ___ ng/μl, Volume : ___ μl

APPROVED BY : 検 '24.04.18 笹沼

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

BLAST Results

Questions/comments

Blast 2 sequences

Job title: NM_001282752:Homo sapiens pumilio RNA binding...

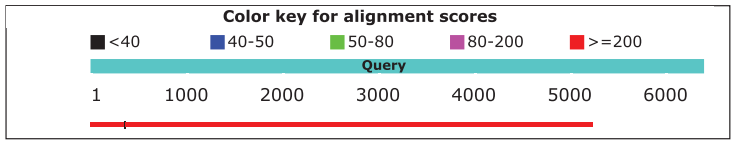
RID 1YZVZBCW114 (Expires on 04-18 15:51 pm)

Query ID	NM_001282752.3	**Subject ID**	lcl|Query_6891091
Description	Homo sapiens pumilio RNA binding family member 2 (PUM2), transcript variant 2, mRNA	**Description**	None See details
Molecule type	nucleic acid	**Molecule type**	dna
Query Length	6200	**Subject Length**	5307
		Program	BLASTN 2.15.0+

RBd12G07hts.seq

Graphic Summary

Distribution of the top 2 Blast Hits on 1 subject sequences



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'24.04.18
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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	8920	9506	83%	0.0	100.00%	Query_6891091

Alignments

Sequence ID: Query_6891091 Length: 5307 Number of Matches: 2
Range 1: 445 to 5274

Score	Expect	Identities	Gaps	Strand	Frame
8920 bits(4830)	0.0()	4830/4830(100%)	0/4830(0%)	Plus/Plus	

Features:

```
CDS:pumilio homolog  1          M  S  Q  P  I  M  V  Q  R  R  S  G  Q  G  F  H  G
Query                318        ACCATTCAATGTCCCAGCCTATTATGGTACAGAGAAGATCTGGACAGGGTTTTCATGGAA  377
                                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                445        ACCATTCAATGTCCCAGCCTATTATGGTACAGAGAAGATCTGGACAGGGTTTTCATGGAA  504

CDS:pumilio homolog  18         N  S  E  V  N  A  I  L  S  P  R  S  E  S  G  G  L  G  V  S
Query                378        ACAGTGAAGTAAATGCAATACTGTCTCCGCGATCAGAAAGTGGAGGCCTTGGTGTGAGCA  437
                                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                505        ACAGTGAAGTAAATGCAATACTGTCTCCGCGATCAGAAAGTGGAGGCCTTGGTGTGAGCA  564

CDS:pumilio homolog  38         M  V  E  Y  V  L  S  S  S  P  A  D  K  L  D  S  R  F  R  K
Query                438        TGGTAGAATATGTATTAAGTTCTTCTCCTGCTGATAAATTGGATTCTCGATTTAGGAAGG  497
                                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                565        TGGTAGAATATGTATTAAGTTCTTCTCCTGCTGATAAATTGGATTCTCGATTTAGGAAGG  624

CDS:pumilio homolog  58         G  N  F  G  T  R  D  A  E  T  D  G  P  E  K  G  D  Q  K  G
Query                498        GAAATTTTGGCACTAGAGATGCTGAAACAGATGGACCTGAGAAAGGAGATCAAAAAGGCA  557
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Sbjct                625        GAAATTTTGGCACTAGAGATGCTGAAACAGATGGACCTGAGAAAGGAGATCAAAAAGGCA  684

CDS:pumilio homolog  78         K  A  S  P  F  E  E  D  Q  N  R  D  L  K  Q  G  D  D  D  D
Query                558        AGGCTTCTCCATTTGAGGAGGACCAAAACAGAGATCTTAAACAAGGAGATGATGATGATT  617
                                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                685        AGGCTTCTCCATTTGAGGAGGACCAAAACAGAGATCTTAAACAAGGAGATGATGATGATT  744

CDS:pumilio homolog  98         S  K  I  N  G  R  G  L  P  N  G  M  D  A  D  C  K  D  F  N
Query                618        CTAAAATAAATGGCAGAGGTTTGCCAAATGGAATGGATGCCGATTGCAAAGATTTAATC  677
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Sbjct                745        CTAAAATAAATGGCAGAGGTTTGCCAAATGGAATGGATGCCGATTGCAAAGATTTAATC  804

CDS:pumilio homolog  118        R  T  P  G  S  R  Q  A  S  P  T  E  V  V  E  R  L  G  P  N
Query                678        GTACTCCTGGAAGTCGTCAAGCCTCTCCAACTGAAGTAGTTGAGCGCTTGGGCCCCAATA  737
                                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                805        GTACTCCTGGAAGTCGTCAAGCCTCTCCAACTGAAGTAGTTGAGCGCTTGGGCCCCAATA  864

CDS:pumilio homolog  138        T  N  P  S  E  G  L  G  P  L  P  N  P  T  A  N  K  P  L  V
Query                738        CTAATCCCTCAGAAGGACTGGGGCCTCTTCCTAATCCTACAGCTAATAAACCACTTGTTG  797
                                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                865        CTAATCCCTCAGAAGGACTGGGGCCTCTTCCTAATCCTACAGCTAATAAACCACTTGTTG  924

CDS:pumilio homolog  158        E  E  F  S  N  P  E  T  Q  N  L  D  A  M  E  Q  V  G  L  E
Query                798        AAGAATTTTCAAATCCTGAAACTCAGAATCTGGATGCCATGGAACAAGTTGGTCTGGAAT  857
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Sbjct                925        AAGAATTTTCAAATCCTGAAACTCAGAATCTGGATGCCATGGAACAAGTTGGTCTGGAAT  984

CDS:pumilio homolog  178        S  L  Q  F  D  Y  P  G  N  Q  V  P  M  D  S  S  G  A  T  V
Query                858        CCTTACAGTTTGACTATCCTGGTAATCAGGTACCAATGGACTCTTCAGGAGCTACTGTAG  917
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Sbjct                985        CCTTACAGTTTGACTATCCTGGTAATCAGGTACCAATGGACTCTTCAGGAGCTACTGTAG  1044

CDS:pumilio homolog  198        G  L  F  D  Y  N  S  Q  Q  Q  L  F  Q  R  T  N  A  L  T  V
Query                918        GCCTTTTTGACTACAATTCCCAGCAGCAGCTCTTTCAGAGGACTAATGCACTAACAGTTC  977
                                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                1045       GCCTTTTTGACTACAATTCCCAGCAGCAGCTCTTTCAGAGGACTAATGCACTAACAGTTC  1104

CDS:pumilio homolog  218        Q  Q  L  T  A  A  Q  Q  Q  Q  Y  A  L  A  A  A  Q  Q  P  H
Query                978        AACAGTTAACTGCAGCTCAACAGCAGCAATATGCATTAGCAGCAGCTCAGCAGCCACATA  1037
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Sbjct                1105       AACAGTTAACTGCAGCTCAACAGCAGCAATATGCATTAGCAGCAGCTCAGCAGCCACATA  1164

CDS:pumilio homolog  238        I  A  G  V  F  S  A  G  L  A  P  A  A  F  V  P  N  P  Y  I
Query                1038       TAGCTGGTGTATTCTCAGCAGGCCTTGCTCCAGCTGCATTTGTGCCAAATCCATACATTA  1097
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Sbjct                1165       TAGCTGGTGTATTCTCAGCAGGCCTTGCTCCAGCTGCATTTGTGCCAAATCCATACATTA  1224
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CDS:pumilio homolog  258   I  S  A  A  P  P  G  T  D  P  Y  T  A  A  G  L  A  A  A  A
Query                1098  TTAGTGCTGCTCCTCCAGGGACCGATCCGTATACTGCAGCAGGATTGGCTGCAGCAGCTA  1157
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Sbjct                1225  TTAGTGCTGCTCCTCCAGGGACCGATCCGTATACTGCAGCAGGATTGGCTGCAGCAGCTA  1284

CDS:pumilio homolog  278   T  L  A  G  P  A  V  V  P  P  Q  Y  Y  G  V  P  W  G  V  Y
Query                1158  CATTAGCAGGTCCAGCAGTGGTTCCACCTCAGTATTACGGCGTTCCATGGGGGGTGTATC  1217
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Sbjct                1285  CATTAGCAGGTCCAGCAGTGGTTCCACCTCAGTATTACGGCGTTCCATGGGGGGTGTATC  1344

CDS:pumilio homolog  298   P  A  N  L  F  Q  Q  Q  A  A  A  A  A  A  N  N  T  A  S  Q  Q
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Sbjct                1345  CAGCCAACTTATTTCAGCAGCAAGCTGCAGCTGCGGCAAATAACACAGCCAGTCAGCAAG  1404

CDS:pumilio homolog  318   A  A  S  Q  A  Q  P  G  Q  Q  Q  V  L  R  A  G  A  G  Q  R
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Sbjct                1405  CAGCATCACAAGCTCAGCCTGGACAGCAACAGGTTCTCCGTGCTGGAGCAGGTCAGCGTC  1464

CDS:pumilio homolog  338   P  L  T  P  N  Q  G  Q  Q  G  Q  Q  A  E  S  L  A  A  A  A
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Sbjct                1465  CTCTTACTCCCAATCAGGGTCAGCAAGGGCAGCAAGCAGAATCACTTGCGGCAGCTGCAG  1524

CDS:pumilio homolog  358   A  A  N  P  T  L  A  F  G  Q  G  L  A  T  G  M  P  G  Y  Q
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Sbjct                1525  CAGCAAATCCAACATTGGCTTTTGGTCAGGGTCTTGCTACTGGCATGCCAGGCTATCAAG  1584

CDS:pumilio homolog  378   V  L  A  P  T  A  Y  Y  D  Q  T  G  A  L  V  V  G  P  G  A
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Sbjct                1585  TACTAGCTCCAACTGCCTATTATGATCAGACTGGTGCCTTAGTGGTTGGCCCTGGAGCAA  1644

CDS:pumilio homolog  398   R  T  G  L  G  A  P  V  R  L  M  A  P  T  P  V  L  I  S  S
Query                1518  GGACTGGCCTTGGAGCTCCAGTTCGGTTAATGGCTCCAACACCTGTTTTAATTAGTTcag  1577
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||   
Sbjct                1645  GGACTGGCCTTGGAGCTCCAGTTCGGTTAATGGCTCCAACACCTGTTTTAATTAGTTCAG  1704

CDS:pumilio homolog  418   A  A  A  Q  A  A  A  A  A  A  A  G  G  T  A  S  S  L  T  G
Query                1578  cagcagcacaagctgcagcagcagcagcagctGGAGGAACTGCAAGTAGCCTTACAGGCA  1637
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Sbjct                1705  CAGCAGCACAAGCTGCAGCAGCAGCAGCAGCTGGAGGAACTGCAAGTAGCCTTACAGGCA  1764

CDS:pumilio homolog  438   S  T  N  G  L  F  R  P  I  G  T  Q  P  P  Q  Q  Q  Q  Q  Q
Query                1638  GCACAAATGGTCTGTTTCGGCCAATTGGCACTCAGCCACCACAGCAGCAGCAACAGCAGC  1697
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Sbjct                1765  GCACAAATGGTCTGTTTCGGCCAATTGGCACTCAGCCACCACAGCAGCAGCAACAGCAGC  1824

CDS:pumilio homolog  458   P  S  T  N  L  Q  S  N  S  F  Y  G  S  S  S  L  T  N  S  S
Query                1698  CAAGCACTAATCTGCAATCTAATTCATTTTATGGAAGCAGTTCTTTGACTAATAGCTCCC  1757
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Sbjct                1825  CAAGCACTAATCTGCAATCTAATTCATTTTATGGAAGCAGTTCTTTGACTAATAGCTCCC  1884

CDS:pumilio homolog  478   Q  S  S  S  L  F  S  H  G  P  G  Q  P  G  S  T  S  L  G  F
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Sbjct                1885  AGAGTAGTTCTTTATTTTCTCATGGACCTGGTCAACCTGGAAGTACATCTCTTGGCTTTG  1944

CDS:pumilio homolog  498   G  S  G  N  S  L  G  A  A  I  G  S  A  L  S  G  F  G  S  S
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Sbjct                1945  GAAGTGGTAACTCTTTGGGTGCTGCTATAGGCTCAGCCCTCAGTGGATTTGGTTCATCAG  2004

CDS:pumilio homolog  518   V  G  S  S  A  S  S  S  A  T  R  R  E  S  L  S  T  S  S  D
Query                1878  TTGGCAGTTCTGCAAGTAGTAGTGCCACAAGGAGAGAGTCTCTATCTACTAGCTCTGACT  1937
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                2005  TTGGCAGTTCTGCAAGTAGTAGTGCCACAAGGAGAGAGTCTCTATCTACTAGCTCTGACT  2064

CDS:pumilio homolog  538   L  Y  K  R  S  S  S  S  L  A  P  I  G  Q  P  F  Y  N  S  L
Query                1938  TGTACAAAAGATCTAGTAGCAGCCTAGCACCCATAGGGCAACCATTTTACAATAGTCTGG  1997
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                2065  TGTACAAAAGATCTAGTAGCAGCCTAGCACCCATAGGGCAACCATTTTACAATAGTCTGG  2124

CDS:pumilio homolog  558   G  F  S  S  S  P  S  P  I  G  M  P  L  P  S  Q  T  P  G  H
Query                1998  GATTTTCCTCCTCTCCAAGTCCAATAGGCATGCCTCTGCCAAGCCAAACTCCAGGACATT  2057
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                2125  GATTTTCCTCCTCTCCAAGTCCAATAGGCATGCCTCTGCCAAGCCAAACTCCAGGACATT  2184

CDS:pumilio homolog  578   S  L  T  P  P  P  S  L  S  S  H  G  S  S  S  S  L  H  L  G
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Sbjct                2185  CACTTACGCCACCGGCCATCACTTTCATCACATGGATCCTCATCCAGTTTGCATTTAGGAG  2244

CDS:pumilio homolog  598   G  L  T  N  G  S  G  R  Y  I  S  A  A  P  G  A  E  A  K  Y
Query                2118  GACTGACAAATGGTAGTGGTCGATATATCTCTGCAGCACCTGGAGCAGAAGCAAAATATC  2177
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                2245  GACTGACAAATGGTAGTGGTCGATATATCTCTGCAGCACCTGGAGCAGAAGCAAAATATC  2304

CDS:pumilio homolog  618   R  S  A  S  S  T  S  S  L  F  S  S  S  S  Q  L  F  P  P  S
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Sbjct                2305  GAAGTGCTTCAAGCACTTCCAGTCTATTTAGCTCCAGCAGCCAGCTCTTTCCTCCTTCCC  2364

CDS:pumilio homolog  638   R  L  R  Y  N  R  S  D  I  M  P  S  G  R  S  R  L  L  E  D
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Sbjct                2365  GGCTTCGGTATAATAGGTCTGATATTATGCCTTCTGGCCGCAGTAGATTATTGGAAGATT  2424

CDS:pumilio homolog  658   F  R  N  N  R  F  P  N  L  Q  L  R  D  L  I  G  H  I  V  E
Query                2298  TCAGAAACAACCGCTTCCCAAACCTTCAGCTTAGAGACTTGATTGGACATATAGTTGAGT  2357
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                2425  TCAGAAACAACCGCTTCCCAAACCTTCAGCTTAGAGACTTGATTGGACATATAGTTGAGT  2484

CDS:pumilio homolog  678   F  S  Q  D  Q  H  G  S  R  F  I  Q  Q  K  L  E  R  A  T  P
Query                2358  TTTCTCAAGACCAGCATGGTTCTAGATTCATACAGCAAAAACTAGAGAGAGCTACTCCAG  2417
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Sbjct                2485  TTTCTCAAGACCAGCATGGTTCTAGATTCATACAGCAAAAACTAGAGAGAGCTACTCCAG  2544

CDS:pumilio homolog  698   A  E  R  Q  M  V  F  N  E  I  L  Q  A  A  Y  Q  L  M  T  D
Query                2418  CTGAGCGACAGATGGTATTTAATGAAATTCTGCAAGCAGCCTATCAATTAATGACTGATG  2477
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Sbjct                2545  CTGAGCGACAGATGGTATTTAATGAAATTCTGCAAGCAGCCTATCAATTAATGACTGATG  2604

CDS:pumilio homolog  718   V  F  G  N  Y  V  I  Q  K  F  F  E  F  G  S  L  D  Q  K  L
Query                2478  TTTTTGGCAACTATGTTATACAGAAGTTTTTTGAGTTTGGGAGTCTGGATCAAAAATTAG  2537
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                2605  TTTTTGGCAACTATGTTATACAGAAGTTTTTTGAGTTTGGGAGTCTGGATCAAAAATTAG  2664

CDS:pumilio homolog  738   A  L  A  T  R  I  R  G  H  V  L  P  L  A  L  Q  M  Y  G  C
Query                2538  CCCTGGCTACTCGTATTCGTGGTCATGTTCTACCCTTAGCCTTGCAGATGTATGGCTGCC  2597
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Sbjct                2665  CCCTGGCTACTCGTATTCGTGGTCATGTTCTACCCTTAGCCTTGCAGATGTATGGCTGCC  2724

CDS:pumilio homolog  758   R  V  I  Q  K  A  L  E  S  I  S  S  D  Q  Q  S  E  M  V  K
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Sbjct                2725  GCGTTATTCAGAAAGCATTAGAATCTATTTCTTCTGACCAGCAGAGTGAAATGGTAAAGG  2784

CDS:pumilio homolog  778   E  L  D  G  H  V  L  K  C  V  K  D  Q  N  G  N  H  V  V  Q
Query                2658  AGCTGGATGGTCATGTGCTCAAATGTGTGAAAGATCAGAATGGAAACCATGTTGTACAAA  2717
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Sbjct                2785  AGCTGGATGGTCATGTGCTCAAATGTGTGAAAGATCAGAATGGAAACCATGTTGTACAAA  2844

CDS:pumilio homolog  798   K  C  I  E  C  V  Q  P  Q  S  L  Q  F  I  I  D  A  F  K  G
Query                2718  AATGTATCGAATGTGTTCAGCCACAGTCACTACAGTTCATCATTGATGCTTTCAAGGGAC  2777
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                2845  AATGTATCGAATGTGTTCAGCCACAGTCACTACAGTTCATCATTGATGCTTTCAAGGGAC  2904

CDS:pumilio homolog  818   Q  V  F  V  L  S  T  H  P  Y  G  C  R  V  I  Q  R  I  L  E
Query                2778  AAGTATTTGTGCTTTCAACTCATCCTTATGGCTGCAGAGTAATTCAGCGCATCCTAGAGC  2837
                           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct                2905  AAGTATTTGTGCTTTCAACTCATCCTTATGGCTGCAGAGTAATTCAGCGCATCCTAGAGC  2964

CDS:pumilio homolog  838   H  C  T  A  E  Q  T  L  P  I  L  E  E  L  H  Q  H  T  E  Q
Query                2838  ATTGCACTGCAGAACAGACCTTACCTATCTTAGAAGAACTCCACCAACATACAGAGCAGT  2897
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Sbjct                2965  ATTGCACTGCAGAACAGACCTTACCTATCTTAGAAGAACTCCACCAACATACAGAGCAGT  3024

CDS:pumilio homolog  858   L  V  Q  D  Q  Y  G  N  Y  V  I  Q  H  V  L  E  H  G  R  P
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Sbjct                3025  TGGTACAGGATCAGTATGGCAATTATGTTATTCAGCATGTACTGGAACACGGTCGACCTG  3084

CDS:pumilio homolog  878   E  D  K  S  K  I  V  S  E  I  R  G  K  V  L  A  L  S  Q  H
Query                2958  AAGACAAGAGCAAAATTGTTTCCGAAATCAGGGGAAAGGTTTTAGCCCTGAGTCAACACA  3017
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Sbjct                3085  AAGACAAGAGCAAAATTGTTTCCGAAATCAGGGGAAAGGTTTTAGCCCTGAGTCAACACA  3144

CDS:pumilio homolog  898   K  F  A  S  N  V  V  E  K  C  V  T  H  A  S  R  A  E  R  A
Query                3018  AATTTGCCAGCAATGTAGTAGAAAAGTGTGTTACTCATGCCTCCCGTGCTGAGAGAGCTT  3077
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Sbjct                3145  AATTTGCCAGCAATGTAGTAGAAAAGTGTGTTACTCATGCCTCCCGTGCTGAGAGAGCTT  3204

CDS:pumilio homolog  918   L  L  I  D  E  V  C  C  Q  N  D  G  P  H  S  A  L  Y  T  M
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Sbjct                3205  TACTGATTGACGAGGTTTGCTGCCAGAATGATGGTCCTCACAGTGCCTTATACACCATGA  3264

CDS:pumilio homolog  938   M  K  D  Q  Y  A  N  Y  V  V  Q  K  M  I  D  M  A  E  P  A
Query                3138  TGAAGGACCAGTATGCCAATTACGTGGTTCAAAAGATGATTGATATGGCTGAACCTGCTC  3197
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Sbjct                3265  TGAAGGACCAGTATGCCAATTACGTGGTTCAAAAGATGATTGATATGGCTGAACCTGCTC  3324

CDS:pumilio homolog  958   Q  R  K  I  I  M  H  K  I  R  P  H  I  T  T  L  R  K  Y  T
Query                3198  AGAGAAAGATAATCATGCACAAGATTCGACCTCACATTACTACTTTGCGCAAATACACAT  3257
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Sbjct                3325  AGAGAAAGATAATCATGCACAAGATTCGACCTCACATTACTACTTTGCGCAAATACACAT  3384

CDS:pumilio homolog  978   Y  G  K  H  I  L  A  K  L  E  K  Y  Y  L  K  N  S  P  D  L
Query                3258  ACGGGAAGCATATACTGGCCAAGTTGGAAAAGTATTATTTGAAGAATAGCCCGGACCTAG  3317
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Sbjct                3385  ACGGGAAGCATATACTGGCCAAGTTGGAAAAGTATTATTTGAAGAATAGCCCGGACCTAG  3444

CDS:pumilio homolog  998   G  P  I  G  G  P  P  N  G  M  L
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Query                3558  CCTGAGTGGAGACCTATCAGATTGGATTGCTGGCAAAGCACAGAATGCCTGTATATGATG  3617
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Sbjct  3865  GTAGGTCTACAACCCCATAGCACAACAGGTTTATAGAGATGTATATAGAATTATAGTCCT  3924
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Range 2: 19 to 335

Score	Expect	Identities	Gaps	Strand	Frame
586 bits(317)	9e-170()	317/317(100%)	0/317(0%)	Plus/Plus	

Features:

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Sbjct  19   AGGGGAGGGCAGGCGGCGGTGGCAGCCATGTTGTTGTGAGTCTCTGTGTCTCACCCTCGG  78
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Query  121  gtggtaggtggagAAAGAAGACATTGCCGCCACCGAAGGCGGAGGAGGGGGAGGACCGCC  180
Sbjct  139  GTGGTAGGTGGAGAAAGAAGACATTGCCGCCACCGAAGGCGGAGGAGGGGGAGGACCGCC  198
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Query  301  CTCGGGGAATGGGAGAG  317
Sbjct  319  CTCGGGGAATGGGAGAG  335
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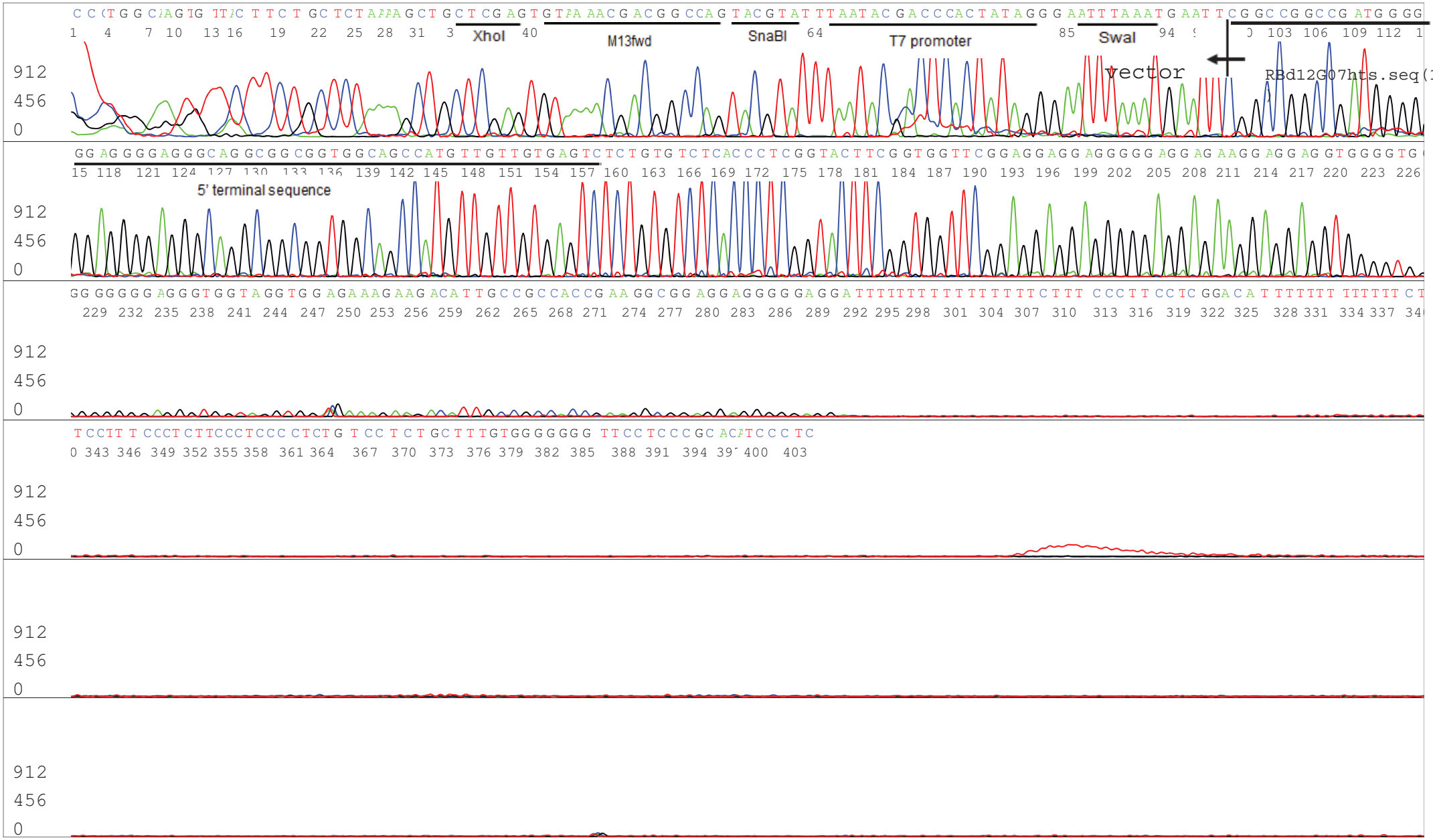
Applied Biosystems

S/N G:48 A:61 T:35 C:47
KB.bcp
KB 1.4.1.8 Cap:4

Primer A : pGCAP-F
5' CTCAGTGGATGTTGCCTTTAC 3'

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7677_RBd12G07_B4D9_pGCAP_F
KB_3500_POP7_BDTv3.mob
Pts 1687 to 11987 Pk1 Loc:1664
Version 6.0 HiSQV Bases: 240

Inst Model/Name 3500/3500 Instrument
Apr 10,2024 03:24PM, JST
Apr 10,2024 03:56PM, JST
Spacing:12.23 Pts/Panel1350
Plate Name: 20240410_GNP-2



Applied Biosystems

S/N G:10 A:29 T:20 C:19
KB.bcp
KB 1.4.1.8 Cap:5

Primer B : pGCAP-R
5' GCATTCTAGTTGTGGTTTGTCC 3'

7677_RBd12G07_B4D9_pGCAP_R_E01_05_ABI08
7677_RBd12G07_B4D9_pGCAP_R
KB_3500_POP7_BDTv3.mob
Pts 1678 to 12905 Pk1 Loc:1655
Version 6.0 HiSQV Bases: 86

Inst Model/Name 3500/3500 Instrument
Apr 10,2024 03:24PM, JST
Apr 10,2024 03:56PM, JST
Spacing:13.25 Pts/Panel1350
Plate Name: 20240410_GNP-2

