NRCD Human Full-Length cDNA Clone

Gene Engineering Division
RIKEN BioResource Research Center

RIKEN Clone ID : RBd92E05

Lot# : 7677_B6Hk

Vector : pGCAP10

Gene	C14orf101	
RefSeq_mRNA	NM_017799.4	4259 bp

● Plasmid DNA purification

Date : 2026/08/24

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

Date : 2026/08/25

Purification : QIAGEN Miniprep kit -> dH_2O 100 ul

● Digestion by restriction enzyme/Concentrarion calibration

Date : 2026/08/25

DNA concentration (O.D.): 329 ng/ul

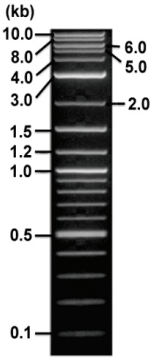
< Size of fragment expected from this clone >

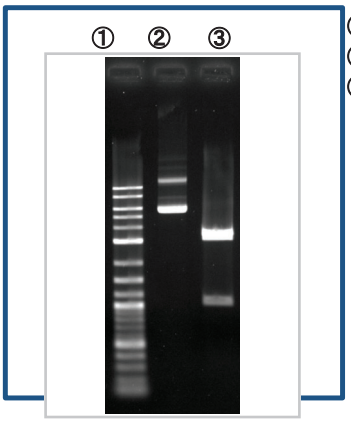
DNA	0.3	ul
Enzyme (BamHI)	1	ul
Buffer H	1	ul
dH_2O	7.7	ul
Total	10	ul

BamHI 3.1kb (vector), 3.4, 1.1 kb

Erectrophoresis : 1% agarose gel, 1x TAE Buffer

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





①:Marker
②:uncut
③:BamHI

● Confirmation of the sequence

Date : 2026/08/28

full sequence	RBd92E05hts01.seq

● Adjust plasmid DNA solution to 25 ng/ul

Date : 2026/09/01

DNA (329 ng/ul)	86	ul
10x TE	113	ul
dH_2O	933	ul
Total	1,132	ul

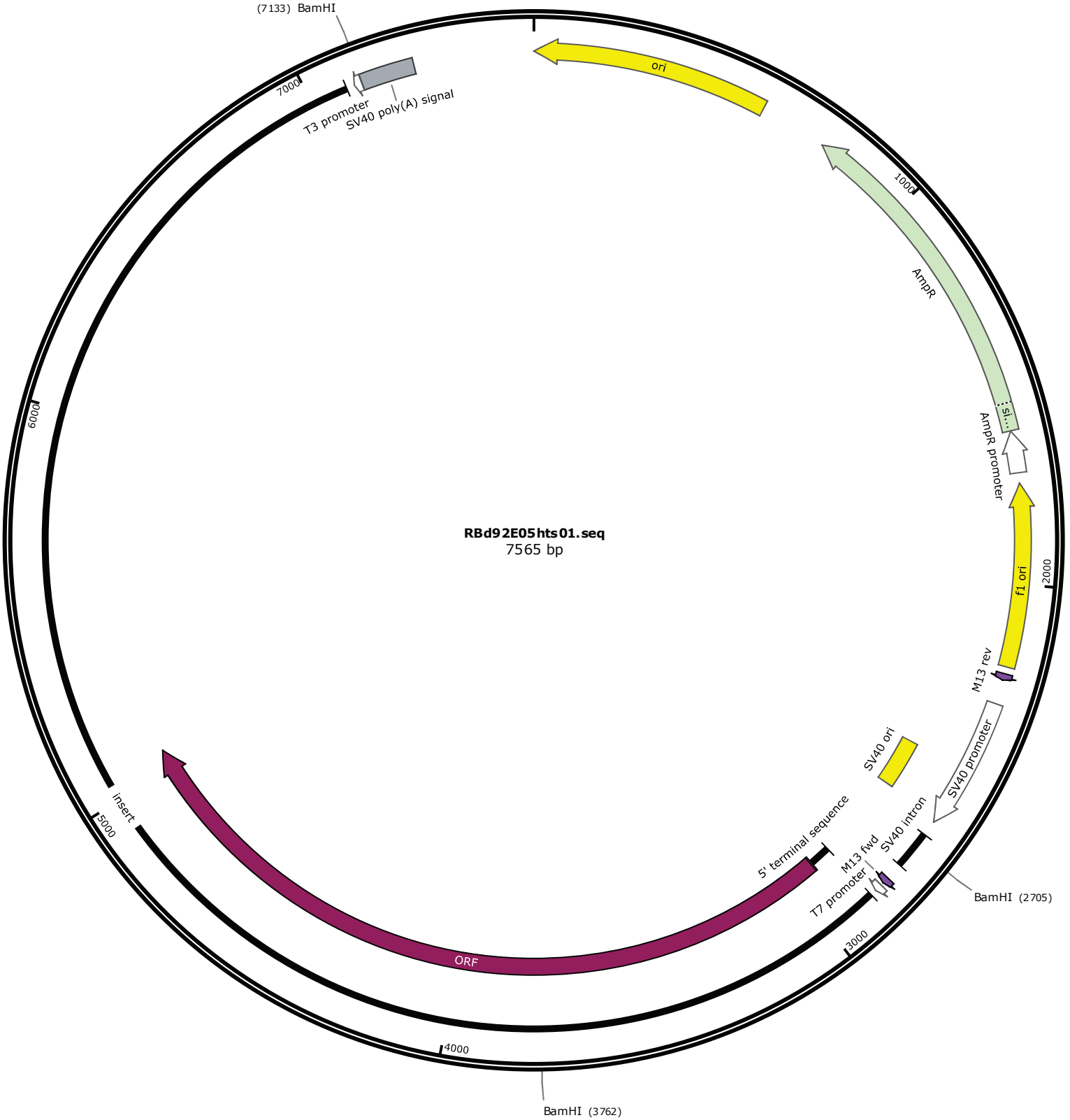
● Shipping

☑ Conc. : 25 ng/μl, Volume : 40 μl

☐ Conc. : __ ng/μl, Volume : __ μl

APPROVED BY : 検 '26.09.01 笹沼

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


(7133) BamHI
7000
T3 promoter
SV40 poly(A) signal
ori
1000
AmpR
AmpR promoter
2000
f1 ori
M13 rev
SV40 promoter
SV40 ori
SV40 intron
M13 fwd
T7 promoter
5' terminal sequence
ORF
insert
5000
6000
3000
4000
BamHI (2705)
BamHI (3762)
RBd92E05hts01.seq
7565 bp

BLAST Results

Questions/comments

Blast 2 sequences

Job title: NM_006317:Homo sapiens brain abundant membrane...

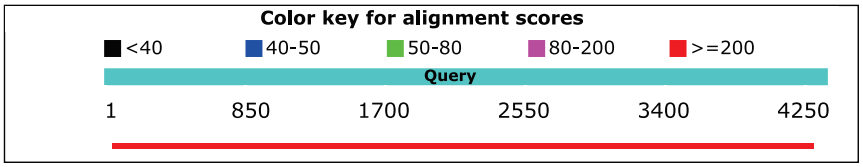
RID 91NGM5SG114 (Expires on 08-29 08:28 am)

Query ID	NM_017799.4	**Subject ID**	lcl|Query_5260941
Description	Homo sapiens transmembrane protein 260 (TMEM260), mRNA	**Description**	None See details
Molecule type	nucleic acid	**Molecule type**	dna
Query Length	4259	**Subject Length**	7565
		Program	BLASTN 2.17.0+

RBd92E05hts01.seq

Graphic Summary

Distribution of the top 1 Blast Hits on 1 subject sequences



Dot Matrix View

Descriptions

Sequences producing significant alignments:

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
None provided	7762	7762	99%	0.0	99.98%	Query_5260941

Alignments

Sequence ID: Query_5260941 Length: 7565 Number of Matches: 1
Range 1: 2867 to 7072

Score	Expect	Identities	Gaps	Strand	Frame
7762 bits(4203)	0.0()	4205/4206(99%)	0/4206(0%)	Plus/Plus	

Features:

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Query              54    GAGCTCCGTGTCGCACCGGGTTCTTGGGCTGGCCGTGTCCTTCTCCCTCGGTCGCCACTG  113
Sbjct              2867  ............................................................  2926

CDS:protein O-mannos  1        M  S  P  H  G  D  G  R  G  Q  A  Q  G  R  A  V  R  V  G
Query              114   GCCCATGAGTCCCCATGGCGACGGCAGGGGCCAGGCCCAGGGGCGGGCAGTCCGAGTGGG  173
Sbjct              2927  ............................................................  2986

CDS:protein O-mannos  20     L  R  R  S  G  G  I  R  G  G  V  A  V  F  A  A  V  A  A  V
Query              174   GCTGCGGCGCTCCGGGGGCATCCGCGGCGGCGTGGCGGTGTTCGCCGCCGTGGCCGCAGT  233
Sbjct              2987  ............................................................  3046

CDS:protein O-mannos  40     F  T  F  T  L  P  P  S  V  P  G  G  D  S  G  E  L  I  T  A
Query              234   GTTCACCTTCACCCTGCCCCCTTCGGTACCGGGGGGAGACTCCGGGGAACTGATCACAGC  293
Sbjct              3047  ............................................................  3106

CDS:protein O-mannos  60     A  H  E  L  G  V  A  H  P  P  G  Y  P  L  F  T  L  V  A  K
Query              294   CGCACATGAGCTTGGAGTTGCCCATCCTCCTGGCTATCCTTTGTTCACGCTGGTGGCTAA  353
Sbjct              3107  ............................................................  3166

CDS:protein O-mannos  80     L  A  I  T  L  F  P  F  G  S  I  A  Y  R  V  N  L  L  C  G
Query              354   ACTGGCAATTACACTGTTTCCTTTTGGTTCAATTGCCTACCGCGTCAATCTTCTCTGTGG  413
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Sbjct                3167 ..........................................................  3226

CDS:protein O-mannos  100    L  F  G  A  V  A  A  S  L  L  F  F  T  V  F  R  L  S  G  S
Query                 414   CTTATTTGGAGCAGTAGCTGCATCATTACttttttttCACCGTTTTCAGGCTTTCTGGCTC  473
Sbjct                3227 ..........................................................  3286

CDS:protein O-mannos  120    S  A  G  G  I  L  A  A  G  V  F  S  F  S  R  L  T  W  Q  W
Query                 474   ATCTGCTGGAGGAATCCTTGCTGCGGGGGTGTTTTCATTTTCTCGTCTAACATGGCAGTG  533
Sbjct                3287 ..........................................................  3346

CDS:protein O-mannos  140    S  I  A  A  E  V  F  S  L  N  N  L  F  V  G  L  L  M  A  L
Query                 534   GTCCATTGCAGCAGAGGTTTTTAGCTTAAACAATCTCTTTGTGGGGCTGCTTATGGCTCT  593
Sbjct                3347 ..........................................................  3406

CDS:protein O-mannos  160    T  V  H  F  E  E  A  A  T  A  K  E  R  S  K  V  A  K  I  G
Query                 594   TACTGTACATTTTGAGGAAGCAGCAACTGCTAAGGAGAGATCAAAGGTAGCTAAAATTGG  653
Sbjct                3407 ..........................................................  3466

CDS:protein O-mannos  180    A  F  C  C  G  L  S  L  C  N  Q  H  T  I  I  L  Y  V  L  C
Query                 654   TGCTTTCTGCTGTGGCCTTAGTTTATGTAACCAGCACACAATAATACTCTATGTTTTGTG  713
Sbjct                3467 ..........................................................  3526

CDS:protein O-mannos  200    I  I  P  W  I  L  F  Q  L  L  K  K  K  E  L  S  L  G  S  L
Query                 714   CATAATACCTTGGATTCTCTTTCAACTTTTAAAAAAGAAGGAACTCTCCCTGGGCTCTTT  773
Sbjct                3527 ..........................................................  3586

CDS:protein O-mannos  220    L  K  L  S  L  Y  F  S  A  G  L  L  P  Y  V  H  L  P  I  S
Query                 774   GTTGAAGTTGAGCCTGTACTTCTCTGCTGGTTTGCTGCCCTATGTCCACCTTCCCATCTC  833
Sbjct                3587 ..........................................................  3646

CDS:protein O-mannos  240    S  Y  L  N  H  A  R  W  T  W  G  D  Q  T  T  L  Q  G  F  L
Query                 834   ATCTTACCTTAATCACGCCCGGTGGACCTGGGGAGACCAGACAACACTGCAAGGATTTTT  893
Sbjct                3647 ..............T...........................................  3706

CDS:protein O-mannos  260    T  H  F  L  R  E  E  Y  G  T  F  S  L  A  K  S  E  I  G  S
Query                 894   GACACATTTTCTCAGGGAAGAATATGGAACCTTCAGCCTGGCCAAATCTGAAATAGGATC  953
Sbjct                3707 ..........................................................  3766

CDS:protein O-mannos  280    S  M  S  E  I  L  L  S  Q  V  T  N  M  R  T  E  L  S  F  N
Query                 954   CAGTATGTCTGAAATACTGCTTTCTCAAGTAACAAATATGAGGACCGAACTCTCATTCAA  1013
Sbjct                3767 ..........................................................  3826

CDS:protein O-mannos  300    I  Q  A  L  A  V  C  A  N  I  C  L  A  T  K  D  R  Q  N  P
Query                1014   CATCCAAGCCCTTGCAGTTTGTGCAAATATATGTTTAGCAACAAAGGACAGACAGAATCC  1073
Sbjct                3827 ..........................................................  3886

CDS:protein O-mannos  320    S  L  V  W  L  F  T  G  M  F  C  I  Y  S  L  F  F  A  W  R
Query                1074   ATCATTAGTATGGCTTTTTACTGGAATGTTTTGCATTTATTCATTGTTCTTTGCTTGGAG  1133
Sbjct                3887 ..........................................................  3946

CDS:protein O-mannos  340    A  N  L  D  I  S  K  P  L  F  M  G  V  V  E  R  F  W  M  Q
Query                1134   AGCAAATTTAGATATTTCAAAACCACTTTTCATGGGTGTGGTGGAACGATTCTGGATGCA  1193
Sbjct                3947 ..........................................................  4006

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Query                1194   GAGCAATGCAGTAGTGGCCGTCCTCGCTGGCATTGGTTTGGCTGCAGTTGTGTCTGAGAC  1253
Sbjct                4007 ..........................................................  4066

CDS:protein O-mannos  380    N  R  V  L  N  S  N  G  L  Q  C  L  E  W  L  S  A  T  L  F
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850 G>T (A245S)

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Query                1254   TAACCGAGTGCTGAATAGCAATGGGCTTCAGTGTCTGGAATGGCTTTCTGCAACTCTTTT  1313
Sbjct                4067 ..........................................................  4126

CDS:protein O-mannos  400    V  V  Y  Q  I  Y  S  N  Y  S  V  C  D  Q  R  T  N  Y  V  I
Query                1314   TGTAGTTTACCAAATATATTCTAATTACAGTGTTTGTGACCAAAGGACCAACTATGTGAT  1373
Sbjct                4127 ..........................................................  4186

CDS:protein O-mannos  420    D  K  F  A  K  N  L  L  T  S  M  P  H  D  A  I  I  L  L  R
Query                1374   TGATAAGTTCGCAAAGAACCTTCTCACCTCTATGCCTCATGATGCAATTATCTTACTCAG  1433
Sbjct                4187 ..........................................................  4246

CDS:protein O-mannos  440    G  D  L  P  G  N  S  L  R  Y  M  H  Y  C  E  G  L  R  P  D
Query                1434   AGGAGATTTGCCAGGAAATTCTCTCCGTTACATGCATTACTGTGAGGGGTTGAGGCCTGA  1493
Sbjct                4247 ..........................................................  4306

CDS:protein O-mannos  460    I  S  L  V  D  Q  E  M  M  T  Y  E  W  Y  L  P  K  M  A  K
Query                1494   CATTTCATTAGTGGATCAGGAAATGATGACTTACGAGTGGTATTTACCCAAGATGGCAAA  1553
Sbjct                4307 ..........................................................  4366

CDS:protein O-mannos  480    H  L  P  G  V  N  F  P  G  N  R  W  N  P  V  E  G  I  L  P
Query                1554   GCACTTGCCAGGTGTCAACTTTCCTGGGAACCGGTGGAATCCTGTGGAAGGAATATTACC  1613
Sbjct                4367 ..........................................................  4426

CDS:protein O-mannos  500    S  G  M  V  T  F  N  L  Y  H  F  L  E  V  N  K  Q  K  E  T
Query                1614   TAGTGGAATGGTCACATTTAATCTTTATCATTTTCTTGAAGTAAATAAACAAAAAGAAAC  1673
Sbjct                4427 ..........................................................  4486

CDS:protein O-mannos  520    F  V  C  I  G  I  H  E  G  D  P  T  W  K  K  N  Y  S  L  W
Query                1674   ATTTGTTTGCATAGGAATTCATGAAGGCGACCCAACCTGGAAAAAGAACTATTCACTTTG  1733
Sbjct                4487 ..........................................................  4546

CDS:protein O-mannos  540    P  W  G  S  C  D  K  L  V  P  L  E  I  V  F  N  P  E  E  W
Query                1734   GCCATGGGGGTCTTGTGACAAATTAGTTCCTTTGGAGATTGTATTCAACCCTGAGGAATG  1793
Sbjct                4547 ..........................................................  4606

CDS:protein O-mannos  560    I  K  L  T  K  S  I  Y  N  W  T  E  E  Y  G  R  F  D  P  S
Query                1794   GATTAAACTTACAAAAAGTATCTATAACTGGACCGAAGAATATGGAAGGTTTGATCCATC  1853
Sbjct                4607 ..........................................................  4666

CDS:protein O-mannos  580    S  W  E  S  V  A  N  E  E  M  W  Q  A  R  M  K  T  P  F  F
Query                1854   TTCTTGGGAATCTGTGGCCAATGAAGAAATGTGGCAAGCGAGGATGAAAACACCGTTCTT  1913
Sbjct                4667 ..........................................................  4726

CDS:protein O-mannos  600    I  F  N  L  A  E  T  A  H  M  P  S  K  V  K  A  Q  L  Y  A
Query                1914   CATCTTTAACCTGGCAGAAACTGCTCACATGCCTTCAAAAGTGAAAGCTCAACTCTACGC  1973
Sbjct                4727 ..........................................................  4786

CDS:protein O-mannos  620    Q  A  Y  D  L  Y  K  E  I  V  Y  L  Q  K  E  H  P  V  N  W
Query                1974   TCAAGCATATGACCTTTATAAGGAGATTGTCTATTTACAAAAGGAGCACCCAGTGAATTG  2033
Sbjct                4787 ..........................................................  4846

CDS:protein O-mannos  640    H  K  N  Y  A  I  A  C  E  R  M  L  R  L  Q  A  R  D  A  D
Query                2034   GCACAAGAACTATGCCATCGCCTGTGAGCGGATGCTGCGTCTTCAGGCAAGAGATGCAGA  2093
Sbjct                4847 ..........................................................  4906

CDS:protein O-mannos  660    P  E  V  L  L  S  E  T  I  R  H  F  R  L  Y  S  Q  K  A  P
Query                2094   TCCTGAAGTGCTGTTATCGGAAACCATCAGACATTTCCGTCTGTACTCTCAGAAAGCACC  2153
Sbjct                4907 ..........................................................  4966
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CDS:protein O-mannos  680    N  D  P  Q  Q  A  D  I  L  G  A  L  K  H  L  R  K  E  L  Q
Query                 2154   GAATGACCCACAGCAAGCTGATATTTTAGGTGCTCTAAAGCACCTAAGAAAAGAACTGCA  2213
Sbjct                 4967   ............................................................  5026

CDS:protein O-mannos  700    S  L  R  N  R  K  N  V
Query                 2214   AAGTCTGAGAAATAGGAAAAATGTCTGAGACAGCAAAATATGAAAAACCTGCTCATCGTT  2273
Sbjct                 5027   ............................................................  5086

Query                 2274   CAGCTTCCAAAATTCTGAAGTCTGGAAGTTTTTCCTTCAAGAAAAGAAACTGCATAAAAA  2333
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Query                 2334   ATTTAAAACTAAGTCATCTCCCAGATATAAGTATCATGGTCCAGCAGTACTGTTTAATGG  2393
Sbjct                 5147   ............................................................  5206

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Sbjct                 5207   ............................................................  5266

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Sbjct                 5447   ............................................................  5506

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Sbjct                 5507   ............................................................  5566

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Sbjct                 5567   ............................................................  5626

Query                 2814   TTGGAAATCACTaaaaaaaaaaaaaGTTAATTTGATGTTTGCTTATTTCAGTTGCAGAAA  2873
Sbjct                 5627   ............................................................  5686

Query                 2874   CTGGCGAGTAAAAAAGattttgcatttacttaattaattttatatttatgttttatttct  2933
Sbjct                 5687   ............................................................  5746

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Sbjct                 5747   ............................................................  5806

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Sbjct                 5807   ............................................................  5866

Query                 3054   CAAGCATCTTTTATACATATTACTAAAGAGAACATAGTAAGAAATGCAAATAATAGTTCT  3113
Sbjct                 5867   ............................................................  5926

Query                 3114   TTATTTTATTATGACAGTTAATTAATAGCAACCTGTTTTAATGAATAAAGTCACTCAGAG  3173
Sbjct                 5927   ............................................................  5986

Query                 3174   TCCTTCAGCACTTCCTAAGTAGAGGCCAGAATCTGTAGGGCTTCTTTTCCCCCCAATTGT  3233
Sbjct                 5987   ............................................................  6046

Query                 3234   ATAGCTCCTAGACTCCAAGCACTATATAGGCCCCTGTATAGAAATGCTCACTAATGAAGA  3293
Sbjct                 6047   ............................................................  6106

Query                 3294   GGGAGGGCTAGAAGCTTGTCTGCATTCAAAGATCACTGGTGAGTCATTCAGCAAGAAAAG  3353
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Sbjct                 6167   ............................................................  6226

Query                 3414   AGGTCTCCTGTGGAGCTTGCATGGTTCCCTTTCATACTACGACCATAATTAAAACCACTA  3473
Sbjct                 6227   ............................................................  6286

Query                 3474   ATTCTCTTTTAAAATGCTGCAGGATGCCATGTAGGCATCTGTCTGGAGTGTCCTTTGTGA  3533
Sbjct                 6287   ............................................................  6346

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Sbjct                 6407   ............................................................  6466

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Sbjct                 6467   ............................................................  6526

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Sbjct                 6527   ............................................................  6586

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Sbjct                 6767   ............................................................  6826

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Sbjct                 7007   ............................................................  7066

Query                 4254   AGGAAA  4259
Sbjct                 7067   ......  7072
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