NRCD Human Full-Length cDNA Clone

Gene Engineering Division
RIKEN BioResource Research Center

RIKEN_Clone_ID : ARe15G07
Vector : pKA1U5

Lot# : 7672_B3Bd

Gene	NUFIP2	
RefSeq_mRNA	NM_020772.3	10877 bp

● **Plasmid DNA purification**

Date : 23.02.15 Culture : LB (100 ug/ml Ampicillin) 5 ml -> at 37 deg C O/N

Date : 23.02.16 Purification : QIAGEN Miniprep kit -> dH_2O 100 ul

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

Date : 23.02.16

DNA concentration (O.D.): 234 ng/ul

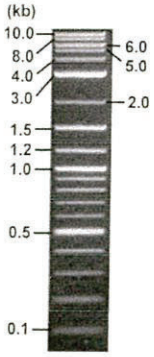
DNA	0.4 ul
Enzyme (BamHI)	1 ul
Buffer H	1 ul
dH_2O	7.6 ul
Total	10 ul

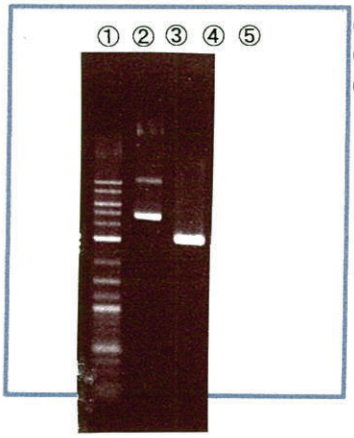
< Size of fragment expected from this clone >

BamHI 3.1kb (vector), 3.3 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 : 2026/06/16

full sequence ; ARe15G07hts01.seq

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

Date : 2026/07/23

DNA (234 ng/ul)	72 ul
10x TE	67 ul
dH_2O	535 ul
Total	674 ul

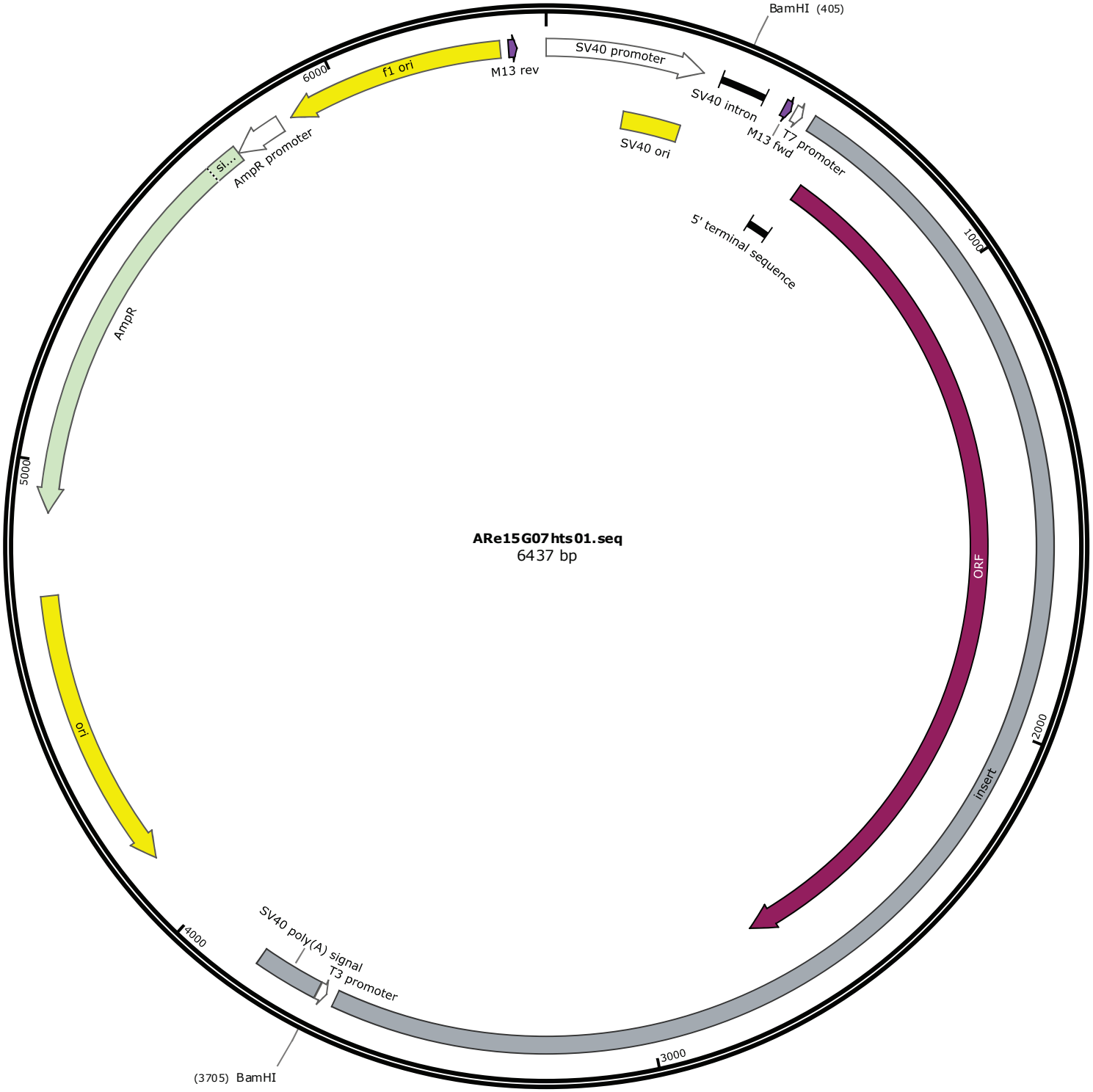
● **Shipping**

☑ Conc. : 25 ng/μl, Volume : 40 μl

☐ Conc. : __ ng/μl, Volume : __ μl

APPROVED BY : 検 '26.07.23 笹沼

1 つのフィーチャーが非表示です



BLAST Results

Questions/comments

Blast 2 sequences

Job title: NM_030786:Homo sapiens syncoilin, intermediate...

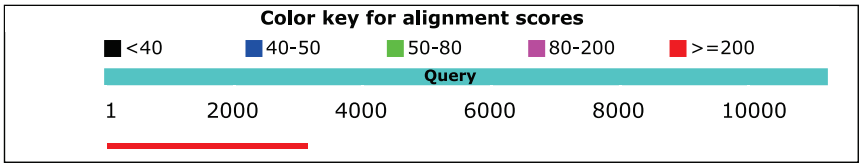
RID 31XZTAP7114 (Expires on 06-17 15:15 pm)

Query ID	NM_020772.3	**Subject ID**	lcl|Query_6237825
Description	Homo sapiens nuclear FMR1 interacting protein 2 (NUFIP2), mRNA	**Description**	None See details
Molecule type	nucleic acid	**Molecule type**	dna
Query Length	10877	**Subject Length**	6437
		Program	BLASTN 2.17.0+

ARe15G07hts01.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	5635	5635	28%	0.0	100.00%	Query_6237825

Alignments

Sequence ID: Query_6237825 Length: 6437 Number of Matches: 1
Range 1: 574 to 3624

Score	Expect	Identities	Gaps	Strand	Frame
5635 bits(3051)	0.0()	3051/3051(100%)	0/3051(0%)	Plus/Plus	

Features:

```
CDS:FMR1-interacting  1                                                   M
Query                 34   AGATCCTGACGGTGCAGCAGCCCGCAGCCTCAGCCAGGGAGTCCCAGCCGCTTTCAATGG  93
Sbjct                 574  ............................................................  633

CDS:FMR1-interacting  2    E  E  K  P  G  Q  P  Q  P  Q  H  H  H  S  H  H  H  P  H  H
Query                 94   AGGAGAAGCCCGgccagccacagcctcagcaccatcacagccaccaccatccgcaccatc  153
Sbjct                 634  ............................................................  693

CDS:FMR1-interacting  22   H  P  Q  Q  Q  Q  Q  P  H  H  H  H  H  Y  Y  F  Y  N  H
Query                 154  accctcagcagcagcagcagccgcaccaccaccaccattattatttctacaaccaca  213
Sbjct                 694  ............................................................  753

CDS:FMR1-interacting  42   S  H  N  H  H  H  H  H  H  H  Q  Q  P  H  Q  Y  L  Q  H  G
Query                 214  gccacaaccaccaccaccaccatcatcaccagcagcctcaccaATACCTGCAGCATGGAG  273
Sbjct                 754  ............................................................  813

CDS:FMR1-interacting  62   A  E  G  S  P  K  A  Q  P  K  P  L  K  H  E  Q  K  H  T  L
Query                 274  CCGAGGGCAGCCCCAAGGCCCAGCCAAAGCCGCTGAAACATGAGCAGAAACACACCCTCC  333
Sbjct                 814  ............................................................  873

CDS:FMR1-interacting  82   Q  Q  H  Q  E  T  P  K  K  K  T  G  Y  G  E  L  N  G  N  A
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Query                334   AGCAGCACCAGGAAACGCCGAAGAAGAAAACAGGCTATGGTGAACTAAACGGTAATGCTG  393
Sbjct                874   ..............................................................  933

CDS:FMR1-interacting 102   G  E  R  E  I  S  L  K  N  L  S  S  D  E  A  T  N  P  I  S
Query                394   GAGAAAGAGAAATATCTTTAAAGAACCTGAGTTCTGATGAAGCCACCAACCCTATTTCCA  453
Sbjct                934   ..............................................................  993

CDS:FMR1-interacting 122   R  V  L  N  G  N  Q  Q  V  V  D  T  S  L  K  Q  T  V  K  A
Query                454   GGGTCCTCAATGGCAACCAGCAAGTTGTAGACACTAGCCTGAAGCAGACTGTAAAGGCCA  513
Sbjct                994   ..............................................................  1053

CDS:FMR1-interacting 142   N  T  F  G  K  A  G  I  K  T  K  N  F  I  Q  K  N  S  M  D
Query                514   ACACCTTTGGGAAAGCAGGAATTAAAACCAAGAATTTCATTCAGAAAAACAGTATGGACA  573
Sbjct                1054  ..............................................................  1113

CDS:FMR1-interacting 162   K  K  N  G  K  S  Y  E  N  K  S  G  E  N  Q  S  V  D  K  S
Query                574   AAAAGAATGGGAAGTCTTATGAAAATAAATCTGGAGAGAATCAGTCTGTAGATAAGTCTG  633
Sbjct                1114  ..............................................................  1173

CDS:FMR1-interacting 182   D  T  I  P  I  P  N  G  V  V  T  N  N  S  G  Y  I  T  N  G
Query                634   ATACTATACCAATTCCAAATGGTGTGGTAACAAATAATTCTGGTTATATTACTAATGGTT  693
Sbjct                1174  ..............................................................  1233

CDS:FMR1-interacting 202   Y  M  G  K  G  A  D  N  D  G  S  G  S  E  S  G  Y  T  T  P
Query                694   ATATGGGTAAAGGAGCAGATAATGATGGTAGTGGATCTGAGAGCGGATATACAACTCCTa  753
Sbjct                1234  ..............................................................  1293

CDS:FMR1-interacting 222   K  K  R  K  A  R  R  N  S  A  K  G  C  E  N  L  N  I  V  Q
Query                754   aaaaaaGGAAAGCTAGGCGCAATAGTGCCAAGGGTTGTGAAAACCTTAATATAGTGCAGG  813
Sbjct                1294  ..............................................................  1353

CDS:FMR1-interacting 242   D  K  I  M  Q  Q  E  T  S  V  P  T  L  K  Q  G  L  E  T  F
Query                814   ACAAAATAATGCAACAAGAGACCAGTGTCCCAACCTTAAAACAGGGACTTGAAACTTTCA  873
Sbjct                1354  ..............................................................  1413

CDS:FMR1-interacting 262   K  P  D  Y  S  E  Q  K  G  N  R  V  D  G  S  K  P  I  W  K
Query                874   AGCCTGACTATAGTGAACAAAAGGGAAATCGAGTAGATGGTTCGAAGCCCATTTGGAAGT  933
Sbjct                1414  ..............................................................  1473

CDS:FMR1-interacting 282   Y  E  T  G  P  G  G  T  S  R  G  K  P  A  V  G  D  M  L  R
Query                934   ATGAAACTGGGCCTGGAGGAACAAGTCGAGGAAAACCTGCTGTGGGTGATATGCTTCGGA  993
Sbjct                1474  ..............................................................  1533

CDS:FMR1-interacting 302   K  S  S  D  S  K  P  G  V  S  S  K  K  F  D  D  R  P  K  G
Query                994   AAAGCTCAGATAGTAAACCTGGTGTGAGCAGCAAAAAGTTTGATGATCGGCCCAAAGGAA  1053
Sbjct                1534  ..............................................................  1593

CDS:FMR1-interacting 322   K  H  A  S  A  V  A  S  K  E  D  S  W  T  L  F  K  P  P  P
Query                1054  AGCATGCTTCAGCTGTTGCCTCCAAAGAGGACTCGTGGACCCTATTTAAACCACCCCCAG  1113
Sbjct                1594  ..............................................................  1653

CDS:FMR1-interacting 342   V  F  P  V  D  N  S  S  A  K  I  V  P  K  I  S  Y  A  S  K
Query                1114  TTTTTCCAGTGGACAATAGCAGTGCTAAAATAGTTCCTAAAATAAGTTATGCAAGCAAAG  1173
Sbjct                1654  ..............................................................  1713

CDS:FMR1-interacting 362   V  K  E  N  L  N  K  T  I  Q  N  S  S  V  S  P  T  S  S  S
Query                1174  TTAAGGAAAACCTCAACAAAACTATACAGAACTCTTCTGTGTCCACCAACTTCATCTTCAT  1233
Sbjct                1714  ..............................................................  1773
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CDS:FMR1-interacting 382   S  S  S  S  S  T  G  E  T  Q  T  Q  S  S  S  R  L  S  Q  V
Query                1234  CATCTTCATCATCTACCGGGGAAACTCAGACCCAATCATCAAGTCGCTTATCCCAGGTCC  1293
Sbjct                1774  ..............................................................  1833

CDS:FMR1-interacting 402   P  M  S  A  L  K  S  V  T  S  A  N  F  S  N  G  P  V  L  A
Query                1294  CTATGTCAGCGCTGAAATCTGTTACTTCTGCCAACTTTTCTAATGGGCCTGTTTTAGCAG  1353
Sbjct                1834  ..............................................................  1893

CDS:FMR1-interacting 422   G  T  D  G  N  V  Y  P  P  G  G  Q  P  L  L  T  T  A  A  N
Query                1354  GGACTGATGGAAATGTTTATCCTCCAGGGGGTCAGCCACTGCTAACTACTGCTGCTAATA  1413
Sbjct                1894  ..............................................................  1953

CDS:FMR1-interacting 442   T  L  T  P  I  S  S  G  T  D  S  V  L  Q  D  M  S  L  T  S
Query                1414  CTCTAACACCCATCTCTTCTGGGACAGATTCAGTTCTCCAGGACATGAGTCTAACTTCAG  1473
Sbjct                1954  ..............................................................  2013

CDS:FMR1-interacting 462   A  A  V  E  Q  I  K  T  S  L  F  I  Y  P  S  N  M  Q  T  M
Query                1474  CAGCTGTTGAACAAATTAAGACTAGCCTTTTTATCTATCCTTCAAATATGCAAACTATGC  1533
Sbjct                2014  ..............................................................  2073

CDS:FMR1-interacting 482   L  L  S  T  A  Q  V  D  L  P  S  Q  T  D  Q  Q  N  L  G  D
Query                1534  TGTTGAGCACAGCACAAGTGGATCTGCCCTCTCAGACAGATCAGCAAAACCTGGGGGATA  1593
Sbjct                2074  ..............................................................  2133

CDS:FMR1-interacting 502   I  F  Q  N  Q  W  G  L  S  F  I  N  E  P  S  A  G  P  E  T
Query                1594  TCTTCCAGAATCAGTGGGGTTTATCATTTATAAATGAGCCCAGTGCTGGCCCTGAGACTG  1653
Sbjct                2134  ..............................................................  2193

CDS:FMR1-interacting 522   V  T  G  K  S  S  E  H  K  V  M  E  V  T  F  Q  G  E  Y  P
Query                1654  TTACTGGGAAGTCATCAGAGCATAAAGTGATGGAGGTGACATTTCAAGGAGAATATCCTG  1713
Sbjct                2194  ..............................................................  2253

CDS:FMR1-interacting 542   A  T  L  V  S  Q  G  A  E  I  I  P  S  G  T  E  H  P  V  F
Query                1714  CTACTTTGGTTTCACAGGGTGCTGAAATAATTCCCTCAGGAACTGAGCATCCTGTGTTTC  1773
Sbjct                2254  ..............................................................  2313

CDS:FMR1-interacting 562   P  K  A  Y  E  L  E  K  R  T  S  P  Q  V  L  G  S  I  L  K
Query                1774  CCAAGGCTTACGAGCTGGAGAAACGGACTAGTCCTCAAGTTCTGGGTAGCATTCTAAAAT  1833
Sbjct                2314  ..............................................................  2373

CDS:FMR1-interacting 582   S  G  T  T  S  E  S  G  A  L  S  L  E  P  S  H  I  G  D  L
Query                1834  CTGGGACTACTAGTGAGAGTGGAGCCTTATCCTTGGAACCCAGTCATATAGGTGACCTGC  1893
Sbjct                2374  ..............................................................  2433

CDS:FMR1-interacting 602   Q  K  A  D  T  S  S  Q  G  A  L  V  F  L  S  K  D  Y  E  I
Query                1894  AGAAAGCAGACACCAGTAGTCAAGGTGCTTTAGTGTTTCTCTCAAAGGACTACGAGATAG  1953
Sbjct                2434  ..............................................................  2493

CDS:FMR1-interacting 622   E  S  Q  N  P  L  A  S  P  T  N  T  L  L  G  S  A  K  E  Q
Query                1954  AAAGTCAAAATCCTCTGGCCTCTCCTACGAACACTTTGTTAGGCTCTGCCAAAGAACAGA  2013
Sbjct                2494  ..............................................................  2553

CDS:FMR1-interacting 642   R  Y  Q  R  G  L  E  R  N  D  S  W  G  S  F  D  L  R  A  A
Query                2014  GATACCAGAGAGGCCTAGAAAGGAATGATAGCTGGGGTTCTTTTGACCTGAGGGCTGCTA  2073
Sbjct                2554  ..............................................................  2613

CDS:FMR1-interacting 662   I  V  Y  H  T  K  E  M  E  S  I  W  N  L  Q  K  Q  D  P  K
Query                2074  TTGTATATCACACTAAAGAAATGGAATCTATTTGGAATTTGCAGAAGCAAGATCCCAAAA  2133
Sbjct                2614  ..............................................................  2673
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CDS:FMR1-interacting  682   R  I  I  T  Y  N  E  A  M  D  S  P  D  Q
Query                 2134  GGATAATCACTTACAATGAAGCCATGGATAGTCCAGATCAATGAAGGACCAGACTGCCTA  2193
Sbjct                 2674  ............................................................  2733

Query                 2194  TTCGTAACCTTTCTGCAGCATTAGAGCCATCGTTCATGGGGGACACAAGGCTTTTATGCT  2253
Sbjct                 2734  ............................................................  2793

Query                 2254  CCTAGATCTTCAACGCAGCAGAGGAACCATAAGTAGAATCACAGGataatatatacaaat  2313
Sbjct                 2794  ............................................................  2853

Query                 2314  atatatatatacatatatatatatataGTTATTTAAAAAAGGCAACTGAAAGTAATTAGA  2373
Sbjct                 2854  ............................................................  2913

Query                 2374  CTTCTTAAGGAATCAAATTTATTTCAAGAGACTACACATGGTTATTTAATCTCCGGTACT  2433
Sbjct                 2914  ............................................................  2973

Query                 2434  GAATAGGttttttttcttctgttagtttttgtttttAAGTGTGAATGCAAGTGATTAATG  2493
Sbjct                 2974  ............................................................  3033

Query                 2494  AATACAGACTTAACAAGTGTGGTTCTAAAGTTCCTGCTGTCATCAACTTGGGCAACAAAT  2553
Sbjct                 3034  ............................................................  3093

Query                 2554  GACCCACTGGAAAGGCAAATCCACTTAAAAGATCTCTGTATCTTGTTCTGTGACTGAAGT  2613
Sbjct                 3094  ............................................................  3153

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Sbjct                 3154  ............................................................  3213

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Sbjct                 3214  ............................................................  3273

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Sbjct                 3274  ............................................................  3333

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Sbjct                 3334  ............................................................  3393

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Sbjct                 3394  ............................................................  3453

Query                 2914  TTCGGTTACATATTGGACTTTAACAACTGAAGAATCTATGCGTGTCATTTAAAGAAAAGT  2973
Sbjct                 3454  ............................................................  3513

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Sbjct                 3514  ............................................................  3573

Query                 3034  TAATGTAATTGTATAACTGGGAGCAAAAATATATTCTGCTTTTCAACTGTA  3084
Sbjct                 3574  ..................................................  3624
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