NRCD Human Full-Length cDNA Clone

Gene Engineering Division
RIKEN BioResource Research Center

RIKEN Clone ID : ARi22D12

Lot# : 7675_B4Km

Vector : pGCAP10

Gene	OXTR	
RefSeq_mRNA	NM_000916.4	4387 bp

● Plasmid DNA purification

Date : 2024/11/25 Culture : LB (100 ug/ml Ampicillin) 5 ml -> at 37 deg C O/N

Date : 2024/11/26 Purification : QIAGEN Miniprep kit -> dH_2O 100 ul

● Digestion by restriction enzyme/Concentrarion calibration

Date : 2024/11/26

DNA concentration (O.D.): 68 ng/ul

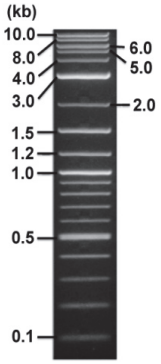
DNA	1.45 ul
Enzyme (BamHI)	1 ul
Buffer H	1 ul
dH_2O	6.55 ul
Total	10 ul

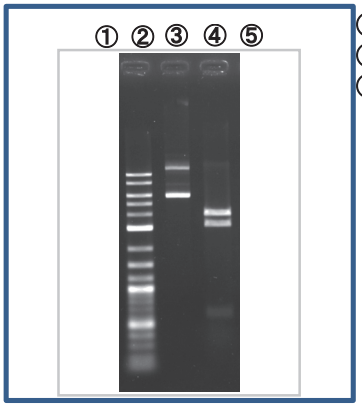
< Size of fragment expected from this clone >

BamHI 3.1kb (vector), 3.9, 0.6 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 : 2024/12/04

full sequence	ARi22D12hts01.seq

● Adjust plasmid DNA solution to 25 ng/ul

Date : 2024/12/04

DNA (68 ng/ul)	76 ul
10x TE	21 ul
dH_2O	110 ul
Total	207 ul

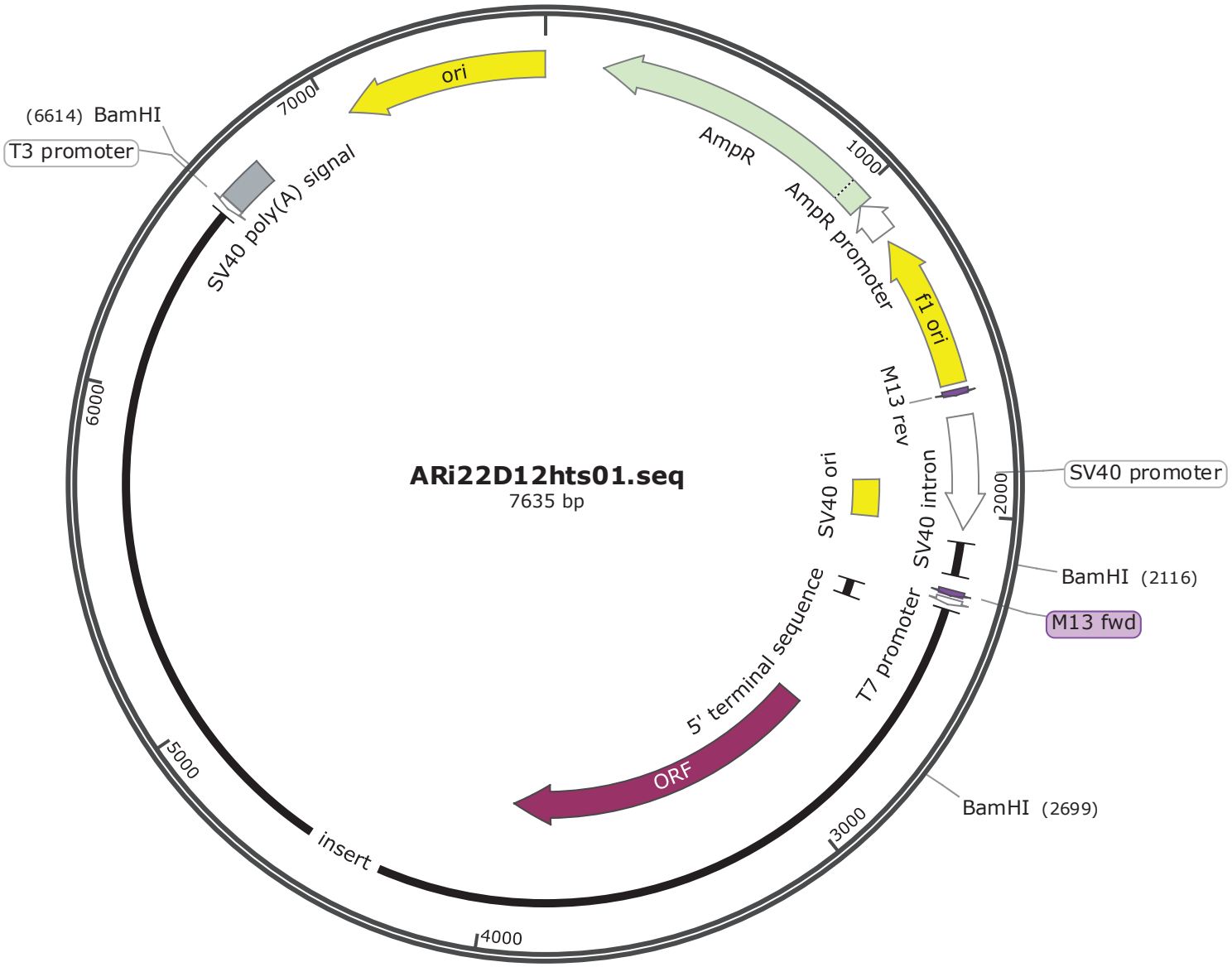
● Shipping

☑ Conc. : 25 ng/μl, Volume : 40 μl

☐ Conc. : ___ ng/μl, Volume : ___ μl

APPROVED BY : 検 '24.12.04 笹沼

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


ARi22D12hts01.seq
7635 bp
ori
AmpR
AmpR promoter
f1 ori
M13 rev
SV40 promoter
SV40 intron
SV40 ori
BamHI (2116)
M13 fwd
T7 promoter
5' terminal sequence
ORF
BamHI (2699)
insert
SV40 poly(A) signal
T3 promoter
(6614) BamHI
1000
2000
3000
4000
5000
6000
7000

BLAST Results

Questions/comments

Blast 2 sequences

Job title: BC015191:Homo sapiens PDZ binding kinase,...

RID MZ8PPUT4114 (Expires on 12-05 07:31 am)

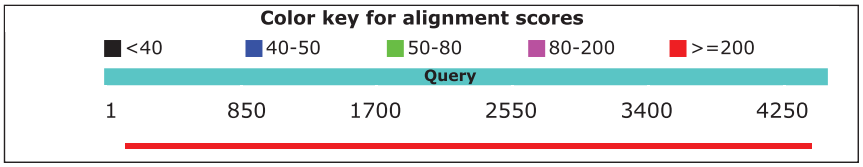
Query ID NM_000916.4
Description Homo sapiens oxytocin receptor (OXTR), transcript variant 1, mRNA
Molecule type nucleic acid
Query Length 4387

Subject ID lcl|Query_5731319
Description None
See details
Molecule type dna
Subject Length 7635
Program BLASTN 2.16.1+

ARi22D12hts01.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	7823	7823	96%	0.0	99.91%	Query_5731319

Alignments

Sequence ID: Query_5731319 Length: 7635 Number of Matches: 1
Range 1: 2280 to 6527

Score	Expect	Identities	Gaps	Strand	Frame
7823 bits(4236)	0.0()	4244/4248(99%)	0/4248(0%)	Plus/Plus	

Features:

```
Query  135   GCTGTCCGCGCGCGCAGCCTGGGAGGCGCTCCTCGCTCGCCTCCTGTACCCATCCAGCGA  194
Sbjct  2280  ..C.............................................................  2339

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Sbjct  2340  ..............................................................  2399

Query  255   ATCACATTAGGTGCAGCCGGCAGGCCATCCCAACTCGGGCCGGGAGCGCACGCGTCACTG  314
Sbjct  2400  ..............................................................  2459

Query  315   GGGCCGTCAGTCGCCGTGCAACTTCCCCGGGGGGAGTCAACTTTAGGTTCGCCTGCGGAC  374
Sbjct  2460  ..............................................................  2519

Query  375   TCGGTGCAGTGGAAGCCGCTGAACATCCCGAGGAACTGGCACGCTGGGGGCTCTGGGCTT  434
Sbjct  2520  ..............................................................  2579

Query  435   GTGGCCGGTAGAGGATTCCCGCTCATTTGCAGTGGCTCAGAGGAGGGTGGACCCAGCAGA  494
Sbjct  2580  .............................................T................  2639

Query  495   TCCGTCCGTGGAGTCTCCAGGAGTGGAGCCCCGGGCGCCCCTACACCCTCCGACACGCCG  554
Sbjct  2640  ..............................................................  2699

Query  555   GATCCGGCCCAGCCGCGCCAAGCCGTAAAGGGCTCGAAGGCCGGGGCGCACCGCTGCCGC  614
Sbjct  2700  ..............................................................  2759
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CDS:oxytocin recepto  1          M  E  G  A  L  A  A  N  W  S  A  E  A  A  N  A  S  A
Query                 615   CAGGGTCATGGAGGGCGCGCTCGCAGCCAACTGGAGCGCCGAGGCAGCCAACGCCAGCGC  674
Sbjct                 2760  ............................................................  2819

CDS:oxytocin recepto  19       A  P  P  G  A  E  G  N  R  T  A  G  P  P  R  R  N  E  A  L
Query                 675   CGCGCCGCCGGGGGCCGAGGGCAACCGCACCGCCGGACCCCCGCGGCGCAACGAGGCCCT  734
Sbjct                 2820  ............................................................  2879

CDS:oxytocin recepto  39       A  R  V  E  V  A  V  L  C  L  I  L  L  L  A  L  S  G  N  A
Query                 735   GGCGCGCGTGGAGGTGGCGGTGCTGTGTCTCATCCTGCTCCTGGCGCTGAGCGGGAACGC  794
Sbjct                 2880  ..........................................................T..  2939

CDS:oxytocin recepto  59       C  V  L  L  A  L  R  T  T  R  Q  K  H  S  R  L  F  F  F  M
Query                 795   GTGTGTGCTGCTGGCGCTGCGCACCACACGCCAGAAGCACTCGCGCCTCTTCTTCTTCAT  854
Sbjct                 2940  ............................................................  2999

CDS:oxytocin recepto  79       K  H  L  S  I  A  D  L  V  V  A  V  F  Q  V  L  P  Q  L  L
Query                 855   GAAGCACCTAAGCATCGCCGACCTGGTGGTGGCAGTGTTTCAGGTGCTGCCGCAGTTGCT  914
Sbjct                 3000  ............................................................  3059

CDS:oxytocin recepto  99       W  D  I  T  F  R  F  Y  G  P  D  L  L  C  R  L  V  K  Y  L
Query                 915   GTGGGACATCACCTTCCGCTTCTACGGGCCCGACCTGCTGTGCCGCCTGGTCAAGTACTT  974
Sbjct                 3060  ............................................................  3119

CDS:oxytocin recepto  119      Q  V  V  G  M  F  A  S  T  Y  L  L  L  L  M  S  L  D  R  C
Query                 975   GCAGGTGGTGGGCATGTTCGCCTCCACCTACCTGCTGCTGCTCATGTCCCTGGACCGCTG  1034
Sbjct                 3120  ............................................................  3179

CDS:oxytocin recepto  139      L  A  I  C  Q  P  L  R  S  L  R  R  R  T  D  R  L  A  V  L
Query                 1035  CCTGGCCATCTGCCAGCCGCTGCGCTCGCTGCGCCGCCGCACCGACCGCCTGGCAGTGCT  1094
Sbjct                 3180  ............................................................  3239

CDS:oxytocin recepto  159      A  T  W  L  G  C  L  V  A  S  A  P  Q  V  H  I  F  S  L  R
Query                 1095  CGCCACGTGGCTCGGCTGCCTGGTGGCCAGCGCGCCGCAGGTGCACATCTTCTCTCTGCG  1154
Sbjct                 3240  ............................................................  3299

CDS:oxytocin recepto  179      E  V  A  D  G  V  F  D  C  W  A  V  F  I  Q  P  W  G  P  K
Query                 1155  CGAGGTGGCTGACGGCGTCTTCGACTGCTGGGCCGTCTTCATCCAGCCCTGGGGACCCAA  1214
Sbjct                 3300  ............................................................  3359

CDS:oxytocin recepto  199      A  Y  I  T  W  I  T  L  A  V  Y  I  V  P  V  I  V  L  A  A
Query                 1215  GGCCTACATCACATGGATCACGCTAGCTGTCTACATCGTGCCGGTCATCGTGCTCGCTGC  1274
Sbjct                 3360  ............................................................  3419

CDS:oxytocin recepto  219      C  Y  G  L  I  S  F  K  I  W  Q  N  L  R  L  K  T  A  A  A
Query                 1275  CTGCTACGGCCTTATCAGCTTCAAGATCTGGCAGAACTTGCGGCTCAAGACCGCTGCAgc  1334
Sbjct                 3420  ............................................................  3479

CDS:oxytocin recepto  239      A  A  A  E  A  P  E  G  A  A  A  G  D  G  G  R  V  A  L  A
Query                 1335  ggcggcggccgaggcgccagagggcgcggcggctggcgatgggggcgcgtggccctggc  1394
Sbjct                 3480  ............................................................  3539

CDS:oxytocin recepto  259      R  V  S  S  V  K  L  I  S  K  A  K  I  R  T  V  K  M  T  F
Query                 1395  gcgTGTCAGCAGCGTCAAGCTCATCTCCAAGGCCAAGATCCGCACGGTCAAGATGACTTT  1454
Sbjct                 3540  ............................................................  3599

CDS:oxytocin recepto  279      I  I  V  L  A  F  I  V  C  W  T  P  F  F  F  V  Q  M  W  S
Query                 1455  CATCATCGTGCTGGCCTTCATCGTGTGCTGGACGCCTTTCTTCTTCGTGCAGATGTGGAG  1514
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792 C>T

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Sbjct                 3600  ............................................................  3659

CDS:oxytocin recepto  299      V  W  D  A  N  A  P  K  E  A  S  A  F  I  I  V  M  L  L  A
Query                 1515  CGTCTGGGATGCCAACGCGCCCAAGGAAGCCTCGGCCTTCATCATCGTCATGCTCCTGGC  1574
Sbjct                 3660  ............................................................  3719

CDS:oxytocin recepto  319      S  L  N  S  C  C  N  P  W  I  Y  M  L  F  T  G  H  L  F  H
Query                 1575  CAGCCTCAACAGCTGCTGCAACCCCTGGATCTACATGCTGTTCACGGGCCACCTCTTCCA  1634
Sbjct                 3720  ............................................................  3779

CDS:oxytocin recepto  339      E  L  V  Q  R  F  L  C  C  S  A  S  Y  L  K  G  R  R  L  G
Query                 1635  CGAACTCGTGCAGCGCTTCCTGTGCTGCTCCGCCAGCTACCTGAAGGGCAGACGCCTGGG  1694
Sbjct                 3780  ............................................................  3839

CDS:oxytocin recepto  359      E  T  S  A  S  K  K  S  N  S  S  S  F  V  L  S  H  R  S  S
Query                 1695  AGAGACGAGTGCCAGCAAAAAGAGCAACTCGTCCTCCTTTGTCCTGAGCCATCGCAGCTC  1754
Sbjct                 3840  ............................................................  3899

CDS:oxytocin recepto  379      S  Q  R  S  C  S  Q  P  S  T  A
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Sbjct                 3900  ............................................................  3959

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Sbjct                 3960  ............................................................  4019

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Sbjct                 4020  ............................................................  4079

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Sbjct                 4080  ............................................................  4139

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Sbjct                 4140  ............................................................  4199

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Sbjct                 4260  ............................................................  4319

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Sbjct                 4380  ............................................................  4439

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Sbjct                 4440  ............................................................  4499

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Sbjct                 4500  ............................................................  4559

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Sbjct                 4560  ............................................................  4619

Query                 2475  TTTTGTATATAGAAAATCCTAAGGAACTcacacacacacacacacacacacacgcacaca  2534
Sbjct                 4620  ............................................................  4679

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Sbjct  4680 ..................................................  4739

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Sbjct  4920 ..................................................  4979

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Sbjct  4980 .............................T....................  5039

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Sbjct  5160 ..................................................  5219

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Sbjct  5220 ..................................................  5279

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Sbjct  5280 ..................................................  5339

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Sbjct  5340 ..................................................  5399

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Sbjct  5580 ..................................................  5639

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Sbjct  5760 ..................................................  5819

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Sbjct  6000 ..................................................  6059

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Sbjct  6240 ..................................................  6299

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Sbjct  6300 ..................................................  6359

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Sbjct  6360 ..................................................  6419

Query  4275 AAAATGTTCTGAAATTAGTGGTGATTGTGCACGATTTTGAGAATGTACTAAAAACCAATG  4334
Sbjct  6420 ..................................................  6479

Query  4335 AACTTTaaaaaataaaaataaacaaaaaaaaTTCAACAGATGAATTCA  4382
Sbjct  6480 ..............................................  6527
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