NRCD Human Full-Length cDNA Clone

Gene Engineering Division
RIKEN BioResource Research Center

RIKEN Clone ID : ARe42H01

Lot# : 7672_B6K9

Vector : pKA1U5

Gene	CDK5	
RefSeq_mRNA	NM_004935.4	1122 bp

● Plasmid DNA purification

Date : 2026/11/10 Culture : LB (100 ug/ml Ampicillin) 5 ml -> at 37 deg C O/N

Date : 2026/11/11 Purification : QIAGEN Miniprep kit -> dH_2O 100 ul

● Digestion by restriction enzyme/Concentrarion calibration

Date : 2026/11/11

DNA concentration (O.D.): 289 ng/ul

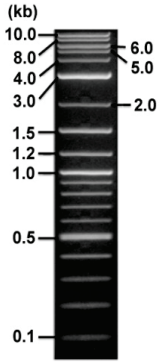
DNA	0.35 ul
Enzyme (BamHI)	1 ul
Buffer H	1 ul
dH_2O	7.65 ul
Total	10 ul

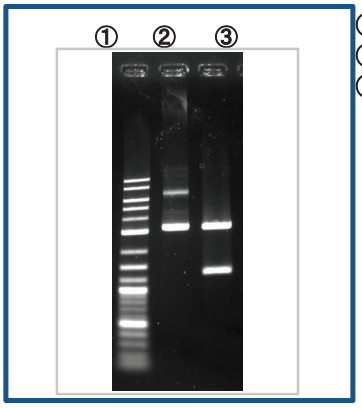
< Size of fragment expected from this clone >

BamHI 3.1kb (vector), 1.3 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 : 2026/11/12

full sequence	ARe42H01hts01.seq

● Adjust plasmid DNA solution to 25 ng/ul

Date : 2026/11/17

DNA (289 ng/ul)	86 ul
10x TE	99 ul
dH_2O	809 ul
Total	994 ul

● Shipping

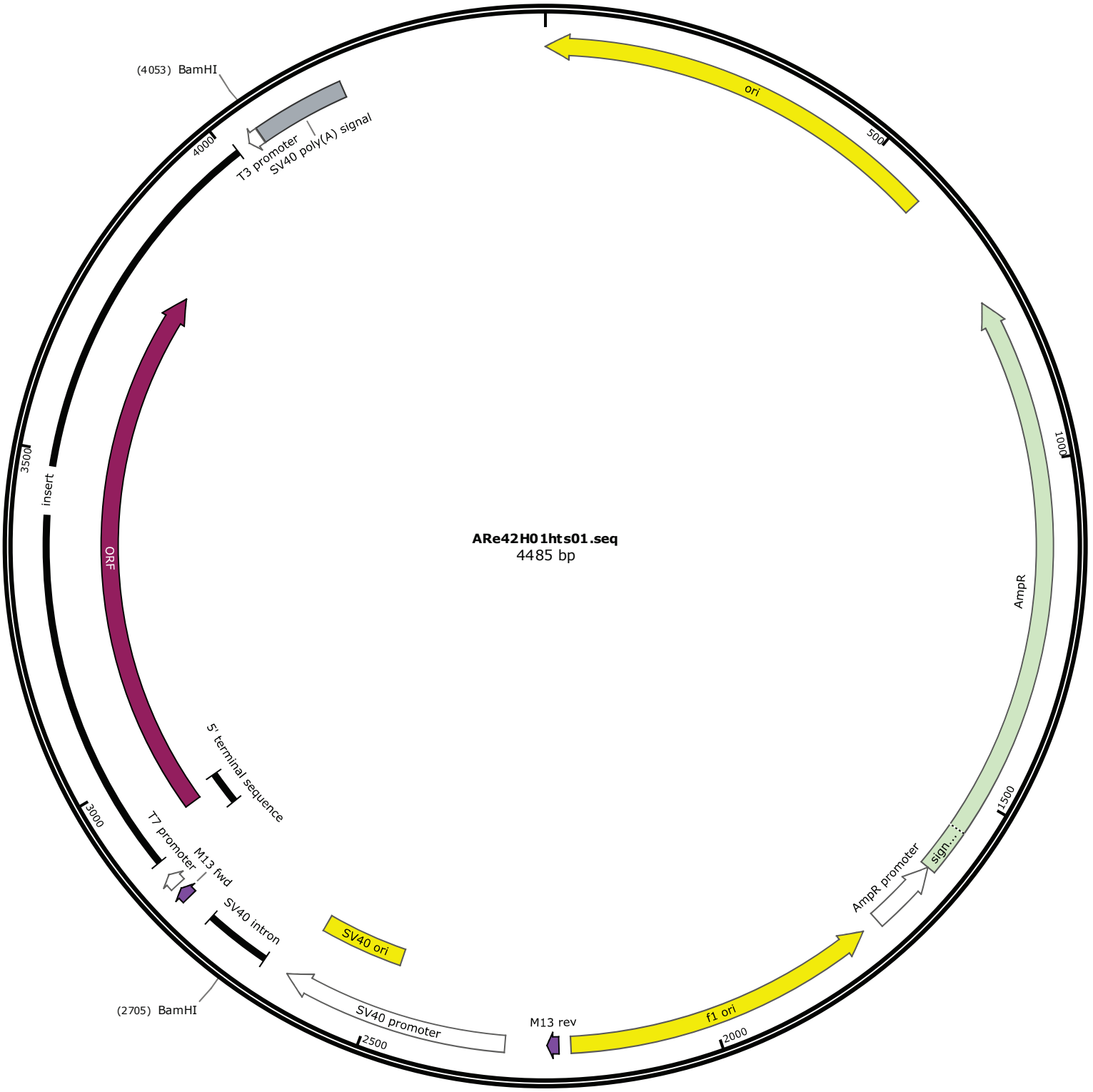
☑ Conc. : 25 ng/μl, Volume : 40 μl

☐ Conc. : ___ ng/μl, Volume : ___ μl

APPROVED BY : 検 '26.11.17 笹沼

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

1 つのフィーチャーが非表示です



BLAST Results

Questions/comments

Blast 2 sequences

Job title: ref|NM_004935.4|

RID FAVG5T8W114 (Expires on 11-13 14:43 pm)

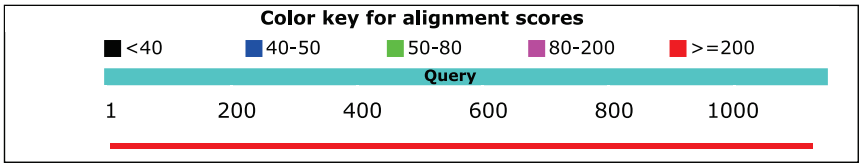
Query ID NM_004935.4
Description Homo sapiens cyclin dependent kinase 5 (CDK5), transcript variant 1, mRNA
Molecule type nucleic acid
Query Length 1122

Subject ID lcl|Query_7300537
Description None
See details
Molecule type dna
Subject Length 4485
Program BLASTN 2.17.0+

ARe42H01hts01.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	2054	2054	99%	0.0	100.00%	Query_7300537

Alignments

Sequence ID: Query_7300537 Length: 4485 Number of Matches: 1
Range 1: 2875 to 3986

Score	Expect	Identities	Gaps	Strand	Frame
2054 bits(1112)	0.0()	1112/1112(100%)	0/1112(0%)	Plus/Plus	

Features:

```
CDS:cyclin-dependent  1                                                 M  Q  K  Y  E  K
Query                 9     CTTAAAACCGAGGGCCCGCAGGGGTCCCCGCGGCCGCCGCGATGCAGAAATACGAGAAAC  68
Sbjct                 2875  ............................................................  2934

CDS:cyclin-dependent  7     L  E  K  I  G  E  G  T  Y  G  T  V  F  K  A  K  N  R  E  T
Query                 69    TGGAAAAGATTGGGGAAGGCACCTACGGAACTGTGTTCAAGGCCAAAAACCGGGAGACTC  128
Sbjct                 2935  ............................................................  2994

CDS:cyclin-dependent  27    H  E  I  V  A  L  K  R  V  R  L  D  D  D  D  E  G  V  P  S
Query                 129   ATGAGATCGTGGCTCTGAAACGGGTGAGGCTGGATGACGATGATGAGGGTGTGCCGAGTT  188
Sbjct                 2995  ............................................................  3054

CDS:cyclin-dependent  47    S  A  L  R  E  I  C  L  L  K  E  L  K  H  K  N  I  V  R  L
Query                 189   CCGCCCTCCGGGAGATCTGCCTACTCAAGGAGCTGAAGCACAAGAACATCGTCAGGCTTC  248
Sbjct                 3055  ............................................................  3114

CDS:cyclin-dependent  67    H  D  V  L  H  S  D  K  K  L  T  L  V  F  E  F  C  D  Q  D
Query                 249   ATGACGTCCTGCACAGCGACAAGAAGCTGACTTTGGTTTTTGAATTCTGTGACCAGGACC  308
Sbjct                 3115  ............................................................  3174

CDS:cyclin-dependent  87    L  K  K  Y  F  D  S  C  N  G  D  L  D  P  E  I  V  K  S  F
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Query                309   TGAAGAAGTATTTTGACAGTTGCAATGGTGACCTCGATCCTGAGATTGTAAAGTCATTCC  368
Sbjct                3175  ..............................................................  3234

CDS:cyclin-dependent 107   L  F  Q  L  L  K  G  L  G  F  C  H  S  R  N  V  L  H  R  D
Query                369   TCTTCCAGCTACTAAAAGGGCTGGGATTCTGTCATAGCCGCAATGTGCTACACAGGGACC  428
Sbjct                3235  ..............................................................  3294

CDS:cyclin-dependent 127   L  K  P  Q  N  L  L  I  N  R  N  G  E  L  K  L  A  D  F  G
Query                429   TGAAGCCCCAGAACCTGCTAATAAACAGGAATGGGGAGCTGAAATTGGCTGATTTTGGCC  488
Sbjct                3295  ..............................................................  3354

CDS:cyclin-dependent 147   L  A  R  A  F  G  I  P  V  R  C  Y  S  A  E  V  V  T  L  W
Query                489   TGGCTCGAGCCTTTGGGATTCCCGTCCGCTGTTACTCAGCTGAGGTGGTCACACTGTGGT  548
Sbjct                3355  ..............................................................  3414

CDS:cyclin-dependent 167   Y  R  P  P  D  V  L  F  G  A  K  L  Y  S  T  S  I  D  M  W
Query                549   ACCGCCCACCGGATGTCCTCTTTGGGGCCAAGCTGTACTCCACGTCCATCGACATGTGGT  608
Sbjct                3415  ..............................................................  3474

CDS:cyclin-dependent 187   S  A  G  C  I  F  A  E  L  A  N  A  G  R  P  L  F  P  G  N
Query                609   CAGCCGGCTGCATCTTTGCAGAGCTGGCCAATGCTGGGCGGCCTCTTTTTCCCGGCAATG  668
Sbjct                3475  ..............................................................  3534

CDS:cyclin-dependent 207   D  V  D  D  Q  L  K  R  I  F  R  L  L  G  T  P  T  E  E  Q
Query                669   ATGTCGATGACCAGTTGAAGAGGATCTTCCGACTGCTGGGGACGCCCACCGAGGAGCAGT  728
Sbjct                3535  ..............................................................  3594

CDS:cyclin-dependent 227   W  P  S  M  T  K  L  P  D  Y  K  P  Y  P  M  Y  P  A  T  T
Query                729   GGCCCTCTATGACCAAGCTGCCAGACTATAAGCCCTATCCGATGTACCCGGCCACAACAT  788
Sbjct                3595  ..............................................................  3654

CDS:cyclin-dependent 247   S  L  V  N  V  V  P  K  L  N  A  T  G  R  D  L  L  Q  N  L
Query                789   CCCTGGTGAACGTCGTGCCCAAACTCAATGCCACAGGGAGGGATCTGCTGCAGAACCTTC  848
Sbjct                3655  ..............................................................  3714

CDS:cyclin-dependent 267   L  K  C  N  P  V  Q  R  I  S  A  E  E  A  L  Q  H  P  Y  F
Query                849   TGAAGTGTAACCCTGTCCAGCGTATCTCAGCAGAAGAGGCCCTGCAGCACCCCTACTTCT  908
Sbjct                3715  ..............................................................  3774

CDS:cyclin-dependent 287   S  D  F  C  P  P
Query                909   CCGACTTCTGTCCGCCCTAGGCCCCGGGACCCCCGGCCTCCAGGCTGGGGCCTGGCCTAT  968
Sbjct                3775  ..............................................................  3834

Query                969   TTAAGCCCCCTCTTGAGAGGGGTGAGACAGTGGGGGTGCCTGGTGCGCTGTGCTCCAGCA  1028
Sbjct                3835  ..............................................................  3894

Query                1029  GTGCTGGGCCCAGCCGGGGTGGGGTGCCTGAGCCCGAATTTCTCACTCCCTTTGTGGACT  1088
Sbjct                3895  ..............................................................  3954

Query                1089  TTATTTAATTTCATAAATTGGCTCCTTTCCCA  1120
Sbjct                3955  ................................  3986
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