

Product datasheet for **RR204173**

App (NM_019288) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	App (NM_019288) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	App
Synonyms:	Abeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RR204173 representing NM_019288
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCCAGCCTGGCACTGCTCTGCTGGCCGCTGGACGGTTCGGGCTCTGGAGGTGCCACTGATG
 GCAATGCCGGTCTGCTGGCAGAACCCAGATCGCCATGTTCTGTGGTAACTCAACATGCACATGAATGT
 GCAGAATGGAAAATGGGAGTCAGACCCATCAGGGACAAAACCTGCATTGGCACCAAGGAGGGAATCCTG
 CAGTACTGCCAAGAGGTCTACCCTGAACTGCAGATCACAACCTGGTGGAGCCAAACAGCCAGTGACCA
 TCCAGAAGTGGTCAAGCGGGCCGCAAGCAGTGAAGACGCACACCCACATCGTGATTCCTTACCGGTG
 CCTAGTTGGTGGTGGTAAAGCGATGCCCTTCTCGTGCCCGACAAGTGAAGTTTCTACACCAGGAGCGG
 ATGGACGTTTGTGAGACCCATCTTCACTGGCATACTGTTGCCAAAGAGACATGCAGTGAAGAGACTA
 ACTTGCACGACTATGGCATGCTGCTGCCCTGTGGCATCGACAAGTTCGAGGGGTCGAGTTCGTGTGCTG
 CCCGTTGGCGGAGGAGAGCGACAGCATCGATTCTGCGGACGCAGAGGAGGACGACTCCGATGCTGTGG
 GGTGGAGCGGACACAGACTATGCTGATGGCGGTGAAGACAAAGTCTAGAAAGTAGCCGAAGAGGAGGAAG
 TGGCCGATGTTGAGGAAGAAGAAGCTGAGGATGACGAGGATGTGGAGGATGGGGATGAGGTGGAGGAGGA
 GGCCGAGGAGCCCTACGAAGAGGCCACAGAGAGAACAACAGCATTGCCACCACTACCACAACCTACCACT
 GAGTCTGTGGAGGAGGTAGTCCGAGAGGTGTGCTCTGAACAAGCTGAGACCGGGCCATGCCGTGCAATGA
 TCTCCCGTGGTACTTTGATGTCAGTGAAGGAAAGTGCGCCCATTTCTTTACGGCGGATGTGGCGGCAA
 CAGGAACAACCTTGGACTGAAGAGTACTGCATGGCGGTGTGTGGCAGCGTGTATCCCAAAGTTTACTC
 AAGACTACCAGTGAACCTCTTCCCAAGATCCGGTTAACTTCCCACGACGGCAGCCAGCACCCCTGACG
 CAGTCGACAAGTACCTGGAGACCCCGGAGATGAGAACGAGCAGCCCATTTCCAGAAAAGCCAAAGAGAG
 GTTGAAGCCAAAGCACCAGAGAGAATGTCCAGGTCATGAGAGAATGGGAGGAGGACAGCAACGTCAGCC
 AAGAATTTGCCCAAAGCTGACAAGAAGGCCGTTATCCAGCATTTCAGGAGAAAAGTGAATCTCTGGAAC
 AGGAAGCAGCCAACGAGAGGCGAGCAGCTGTAGAGACACACATGGCCAGAGTTGAAGCCATGCTCAATGA
 TCGCCGTCGCTGGCCCTCGAGAATTACATCACCGCACTGCAGGCGGTGCCTCCAAGGCCTCATCATGTG
 TTCAACATGCTGAAGAAGTACGTCGTCAGAGCAGAAGGACAGACAGCACACCCATAAGCATTGTAAC
 ATGTGCGCATGGTGGACCCCAAGAAAGCTGCTCAGATCCGGTCCCAGGTTATGACACACCTCCGTGTGAT
 CTACGAGCGCATGAACCACTCTGTCCCTGCTCTACAACGTCCTGCCGTGGCTGAGGAGATTCAAGAT
 GAAGTTGACGAGCTGCTCAGAAGGAGCAGAAGTACTCCGACGAGTCTTAGCCAACATGATCAGTGAAC
 CCAGAATCAGTTACGGCAACGATGCTCTCATGCCTTCTTTGACTGAAACGAAGACCACTGTGGAGCTCCT
 TCCCGTGAATGGCGAATTCAGCCTGGATGATCTCCAACCGTGGCATCCTTTTGGGGTGGACTCTGTGCCA
 GCCAATACAGAAAATGAAGTTGAGCCTGTGACGCGCCCGCCCGCTGCTGACCGAGGACTGACCACTCGAC
 CAGGGTCTGGGTTGACAAAACATCAAGACAGAAGAGATCTCAGAAGTGAAGATGGATGCGGAGTTCGGACA
 TGATTGAGGCTTCGAAGTCCGCCATCAAAAAGTGGTGTCTTTGACAGAAGATGTGGGTTCAAACAAGGT
 GCCATCATTGACTCATGGTGGGTGGCGTTGTATAGCAACAGTATTGTCATCACCTTGGTGATGCTGA
 AGAAGAAAACAGTACACATCCATCCATCATGGCGTGGTGGAGTTGACGCTGCTGTGACCCCGAGGAGCG
 CCACCTCTCAAGATGCAGCAGAATGGATATGAGAATCCAACATACAAGTTCTTTGAGCAGATGCAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR204173 representing NM_019288
 Red=Cloning site Green=Tags(s)

MLPSLALLLLAAWTVRALEVPTDGNAGLLAEPQIAMFCGKLNMHMNVQNGKVESDPSGKTKCIGTKEGIL
 QYCQEVPELQITNVVEANQPVTIQNWCKRGRKQCKTHTHIVIPYRCLVGEFVSDALLVPDKCKFLHQR
 MDVCETHLHWHTVAKETCSEKSTNLHDYGMLPCGIDKFRGVEFVCCPLAEESSIDSADAEEDSDVWV
 GGADTDYADGGEDKVVEVAEEEEVADVEEEAEDEDEDVEDEVEEEAEEPYEEATERTTTSIATTTTTTT
 ESVEEVREVCSEQAETGPCRAMISRWFYFDVTEGKCAPFFYGGCGGNRNNFDTEEYCMVAVCGSVSSQSL
 KTTSEPLPQDPVKLPTTAASTPDAVDKYLETPGDENEHAFQKAKERLEAKHRERMSQVMREWEAEERQA
 KNLPKADKKAVIQHFQEKVESLEQEAANERQQLVETHMARVEAMLNDRRLALENYITALQAVPPRPHV
 FNMLKKYVRAEQKDRQHTLKHFEHVRMVDPKAAQIRSQVMTHLRVIYERMNQSLSLYNVPAVAEEIQD
 EVDELLQKEQNYSDVLANMISEPRI SYGNDALMPSLTETKTTVELLPVNGEFLDDLQWHPFGVDSVP
 ANTENEVEPVDARPAADRGLTTRPGSLTNIKTEEISEVKMDAEFGHDSGFVVRHQKLVFFAEDVGSNKG
 AIIGLMVGGVVIATVIVITLVMLKKKQYTSIHGVEVDAAVTPEERHL SKMQQNGYENPTYKFFEQMQN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1745_f06.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



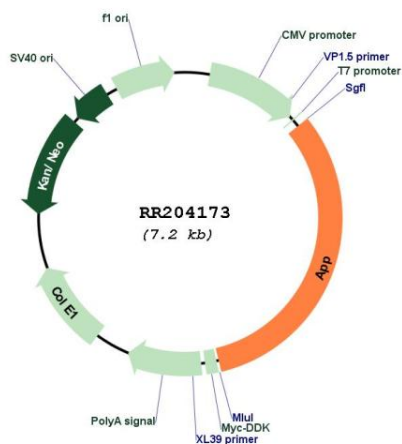
* The last codon before the Stop codon of the ORF

ACCN: NM_019288

ORF Size: 2310 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_019288.2 , NP_062161.1
RefSeq Size:	2340 bp
RefSeq ORF:	2313 bp
Locus ID:	54226
UniProt ID:	P08592
Cytogenetics:	11q11
MW:	86.7 kDa
Gene Summary:	activates voltage dependent calcium channels; may induce neuronal apoptosis [RGD, Feb 2006]

Product images:



Circular map for RR204173