

Product datasheet for **RR217367**

Aak1 (NM_001173450) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aak1 (NM_001173450) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aak1
Synonyms:	RGD1563580
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR217367 representing NM_001173450
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGAAGTTTTTCGACTCCAGGCGGGAGCAGGGGAGCTCTGGCCTGGGTTTCGGCTCCAGCGGAGGAG
 GGGGCAGCAGCTCAGGCCTGGGCAGTGGCTACATCGGGAGGGTCTTCGGCATCGGGAGGCAGCAAGTCAC
 CGTGGACGAGGTCTTGGCAGAAGGTGGATTTCGCTCTCGTCTTTCTGGTGAGAAACAAGCAATGGGGTGAAA
 TGTGCCTTGAAACGCATGTTTGTCAACAATGAGCATGACCTTCAGGTGTGCAAGAGGGAGATCCAGATCA
 TGAGGGACCTATCAGGGCACAAGAACATTGTGGGCTACATTGATTCTAGTATCAACAATGTGAGCAGTGG
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 CGTCTCCAGACAGGCTTTACAGAGAATGAAGTGTGCAGATCTTCTGTGACACCTGTGAGGCTGTGGCCC
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 ACAGTGGCAAAATCATCACACGAAGGCAGATATTTGGGCTCTTGGCTGTTTGTGTATAAATTATGCTA
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 CGATATTCACAAGATATGCACTGCCTTATTAGGTATATGTTGGAACCAGACCCCTGACAAAAGGCCGGATA
 TTTACCAGGTTTCTTACTTCTCATTAACTACTCAAGAAAGAATGCCAGTTCCAAATGTACAGAATTC
 TCCCATTCCTACAAACTTCTGAACAGTGAAGCCAGTGAGGCAGCTGAAAAAGACCCAGCCAAAG
 GCCAGACTGACAGATCCCATTCCCACACAGAGACTTCAATTGCACCCCGCCAGAGGCCCTAAAGCTGGGC
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 CCTCCTCAAGCAGCAGCAGCAGCAACAGCAGCAGCAGCAACAGCCACAGCAGCCAAACAGCACCA
 CCACAGCCATCAGGCACCTTTTACCAGCAGCAGCAGCCCCAGCAGCAGCAGGCTCAGACTCAGCAGTTTC
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 GCAACAGCTGATGCAGAATCTACCAGCAGCAGCAGCAGCAACAGCAGCAGCAACAGCTGATGGCT
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 CGTGCTGGGCACAGGCGGATTCTCAGTGATGTAACCCACAGTGCAGTCTTCGGGGTTCCTGCCAGCAAGT
 CAACCCAGCTGCTCCACGCGGCTGCAGCTGAGGCCAGTCTCAGTAAATCTAAGTCTGCAACCACCACTCC
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 GAAAGCTTCTGAGAAGCTTGGAGGCTCTGCAGAGAGTTTATCCAGGTTTCCAGGCAACACAAGGAGA
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 AGCACTCTGCTTCCACTCATAAAGCTGCAGAAGATAGTAATCTCATCTCAGGGTTTGGTGTGCTGAG
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 GCACTCTAGGAACAGCAGTGGGAGCTCTGAGTCCAGTCTCCCAACCTAGCCAGGCTTTGCTGCTGGT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217367 representing NM_001173450
 Red=Cloning site Green=Tags(s)

MKKFFDSRREQSSGLSGSSGGGSSSGLSGSYIGRVFGIGRQQVTVDEVLAEGGFALVFLVRTSNGVK
 CALKRMFVNNEHDLQVCKREIQIMRDL SGHKNI VGYIDSSINNVSSGDVWEVLI LMDFCRGGQVNL MNQ
 RLQTGF TENEVLQIFCDTCEAVARLHQCKTPIIHRDLKVENILLHDRGHVYVLCDFGSATNKFQNPQAEV
 NAVEDIKKYTTLSYRAPEMVNLVSGKIIITTKADIWALGCLLYKLCYFTL PFGESQVAICDGSFTIPDNS
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 ARLTDP IPTTETSIAPRQRPKAGQTQPNPILPIQPAL TPRKRATVQPLPQATGPNQPSLLASVSQPKA
 QATPSQPLQSSQPKQPAPPTPQQTPAQPTQGLPTQAQATPQHQQQLLLKQQQQQQQQQQPQQPTAP
 PQQSGTFYQQQQPQQQAQTQQFQAVHPAAQSVTAQFPVVSQGGSQQLMQNFYQQQQQQQQQQQLMA
 QQAALQQKTAVVVPQQAQAPATAQAAAAQEPAQIQAPARQQPKVQTTTPPTIQGQKVGSLTPPSSPKTQ
 RAGHRRILSDVTHSAVFGVPASKSTQLLHAAAASLSKSKSATTPSGSPRTSQQNVSNASEGSTWNP
 DDDNF SKL TAEELLNKDFAKLGEGLPEKLGGSAESLIPGFQATQGDFAFATSSF SAGTAEKRKGGQAVDS
 GIPLLSVSDPFIPLQVPDAPEKLEGLKSPDTSLLL PDLLPMTDPFGSTDAVIEKADA AVESLIPGLEP
 PVAQRLPSHTESVTSNRDSDLTGEDSLDCSLLSNPTADLLDEFAPIALSASTHKAEDSNLISGFGVAE
 GSEKVAEDEFDIPVLI TNKNTQGGHSRNSGSSSESSLNPLARSLLLVDQLIDL

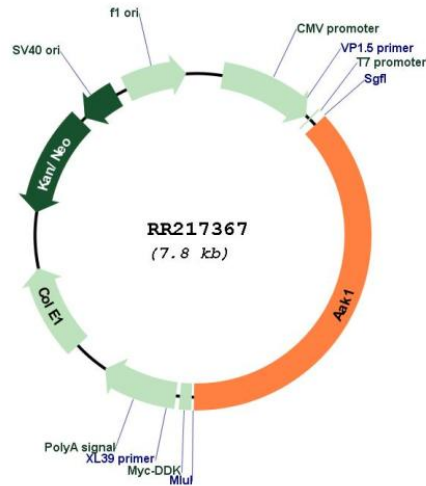
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001173450

ORF Size: 2889 bp

OTI Disclaimer: 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](#)

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:

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_001173450.1](#), [NP_001166921.1](#)

RefSeq Size: 7976 bp

RefSeq ORF: 2892 bp

Locus ID: 500244

Cytogenetics: 4q34

MW: 103.9 kDa