

Product datasheet for MC229517

Apaf1 (NM_009684) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apaf1 (NM_009684) Mouse Untagged Clone
Tag: Tag Free
Symbol: Apaf1
Synonyms: 6230400I06Rik; Apaf-1; Apaf1l; fog; mKIAA0413
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229517 representing NM_009684
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGATGCAAAGGCCCGCAATTGTTTGCTTCAACATAGAGAAGCTTTGGAAAAGGACATCAAACATCCT
 ACATCATGGATCACATGATCAGTAATGGCGTCTTGTGAGTATAGAGGAGGAGAAGGTCAAAGTCAGGC
 CACTCAATATCAACGAGCAGCCGCTTTAATTAATGATACTTAATAAGACAACGTGTCCTACATTTCA
 TTCTACAACGCTCTGCTACACGAGGGCTATAAGGACCTTGTGCGCTTCTGCAGAGTGGCCTTCCTCTTG
 TGTCGTCTTCCAGTGGCAAGGACACAGATGGTGAATAACTTCATTTGTAAGGACAGTGTGTGGAAGG
 TGGAGTACCCAGAGGCCGTTATTTTCGTTACTAGAAAGAAGCTGGTTCATGCGATTACGAGAAGCTC
 TGGAACTGAATGGAGAACCAGGGTGGGTACCATCTATGGGATGGCAGGCTGCGGCAAGTCTGTGTTAG
 CTGCGGAAGCCGTTTCGAGATCACTCCCTCTTAGAAGGTTGCTTTTCAGGGGGTGTACACTGGGTTTCCAT
 TGGAAAACAAGACAAATCTGGGCTTCTCATGAACTGCAGAATCTGTGCATGCGCTTGGACCAAGAAGAG
 AGTTTCTCTCAGAGGCTTCCACTTAATATTGAGGAGGCCAAAGACCGCCTCCGTGTTCTGATGCGCA
 AACACCAAGGCTCTGTTGATCTTGGATGATGTTGGGATCCTTGGGTGTTAAAAGCTTTTGACAATCA
 GTGTGAGATTCTTCTTACAACAGAGATAAGAGTGTACAGATTCAAGTAAATGGGTCCTAAGCATGTTGTC
 CCTGTGGAGAGTGGTCTAGGGAGAGAGAAAGGACTTGAGATCTTGTCACTTTTTGTTAATGAAGAAAG
 AAGATCTGCCAGCGGAGGCTCACAGTATTATAAAGGAATGCAAAGGTTCTCCTCTGTAGTGTCTTAAT
 TGGTGCCTTTTACGTGATTTTCCCAATCGCTGGGCATACTACCTCAGACAGTTCAGAAATAAGCAGTTT
 AAGAGAATAAGGAAGTCTTCATCTTATGATTATGAGGCTCTAGATGAAGCCATGTCGATAAGTGTGAA
 TGCTCAGAGAAGACATCAAAGACTATTACACAGACCTTCCATCCTTCAGAAGGACGTCGAAGTACCTAC
 AAAGGTGTTGTGCGTCTCTGGGACTTGGAAACGGAAGAAGTTGAAGACATCCTGCAGGAGTTCGTTAAT
 AAGTCTCTTATTCTGTAATCGGAATGGAAGTCATTTTGTATTATTTACATGATCTTCAAGTAGATT
 TTCTTACAGAGAAGAATCGCAGTCAGCTTCAGGATCTGCACAGGAAGATGGTCACTCAGTTTCAGAGGTA
 TTACCAGCCCCACGCTGTCTCCAGACCAGGAGGACTGCATGTATTGGTACAATTCCTAGCCTATCAC
 ATGGCTAGTGCCAATATGCACAAAGAACTTTGTGCTTTAATGTTTCCCTGGACTGGATTAAGCAAAAA



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CAGAACTGTGCGCCCTGCCATCTGATTACAGAGTTCGTGGCATATAGGCATATATTGGATGAAAAGGA
 TTGTGACAGTCTGTGAGAAATTTCAAGAGTTTTATCTTTAAATGGACACCTCCTTGGACGACAGCCATTT
 CCTAATATTGTACAGCTGGGCCCTCTGTGAACGAAACTCCGAAGTTTATCGACAAGCAAAGCTGCAGG
 CCAAGCAGGAGGGGATACTGGGCGCCTTTACCTGGAATGGATAAACAAAAAACTATCAAGAATCTGTC
 CCGTTAGTCGTCCGCCCCACACAGATGCTGTTTACCACGCGTGTCTTCTCAGGATGGTCAGAGAATA
 GCTTCTGTGGGGCTGATAAAACCTTACAGGTGTTCAAAGCCGAGACAGGAGAGAAACTTCTTGACATCA
 AAGCTCACGAAGATGAGGTGCTTTGCTGCGCTTCTCCTCAGACGACAGTTACATAGCGACCTGCTCAGC
 GGATAAGAAGGTTAAGATTTGGGATTCTGCGACTGGGAAGCTTGTGCACACCTACGACGACACTCGGAG
 CAAGTCAATTGCTGCCATTTACCAACAAGAGTAACCACCTTCTCTTGGCCACTGGGTCAAATGATTTCT
 TCCTCAAGCTCTGGGATTTGAATCAAAAAGAAATGTCGAAATACCATGTTTGGTCACACGAACTCAGTCAA
 CCACTGCAGGTTCTACCAGACGATGAGCTCTTGGCTAGCTGCTCAGCTGACGGGACTTTAAGGCTTTGG
 GATGTGAGATCAGCAAACGAGAGGAAAAGCATTAAATGTGAAGCGCTTCTCTGAGTTCAGAAGACCTC
 CAGAGGATGTGGAGGTGATCGTGAAGTGTGTTCTGGTCTGCAGATGGTGACAAAATAATAGTGCAGC
 AAAAAACAAGTCTCTTTTTGATATTCATACTAGTGGCCTATTGGCAGAGATCCACACAGGCCATCAC
 AGCACCATCCAGTACTGTGACTTCTCCCCTATGACCATTTGGCTGTGATTGCCCTGTCTCAGTACTGTG
 TGGAGTTGTGGAACATAGACTCCCGCTAAAGGTGGCCGACTGCAGAGGACATTTGAGTTGGGTTACGG
 TGTGATGTTTTCTCCCGATGGCTCCTCATTGTTGACAGCTTCTGATGACCAACAATAAGGGTCTGGGAG
 ACAAAAAGGTATGCAAGAACTCGCCATCGTGCTAAAGCAGGAAATAGACGTCGTGTTCAAGAGAACG
 AAACGATGGTCTTGCAGTTGACAACATAAGAGGCCTGCAACTCATTGCTGGA AAAACAGGCCAGATTGA
 TTACCTGCCTGAAGCCCAAGTGAGTTGCTGCTGCCTCAGTCCACACCTTGAGTACGTGGCATTCCGGAGT
 GAAGATGGAGCCATTAAGATTATAGA ACTTCCAACAACAGAGTCTTCAAGTTCTGAAGATTCTGTGAT
 TCAGGTATGGAATTGGCAGACAGGGGACTATGATTTTTGCAAGCCCACCAGAAACGGTAAAGGACTTC
 AGGCTCCTCCAAGATTCAAGATTGCTTTCTTGGTCATTTGATGGAACGGTGAAGGTGTGGAATGTCATTA
 CCGGAAGAATAGAAAGAGACTTTACTTGTGCATCAGGGCACAGTGTCTTCTGTGCTATCTTCTGATGC
 GACCAAGTTTTTACCTCTGCTGATAAGACTGCCAAGATCTGGAGTTTTGACCTCCTTTCCCTCTT
 CATGAGCTGAAGGGCCATAATGGCTGTGTCGCTGCTGCTCTCGCTGGATGGCATCCTGTTGGCAA
 CTGGAGATGACAAATGGAGAAATCCGGATATGGAATGTCTCAGATGGCCAGCTTCTTATTCTGTGCTCC
 GATCTCGGTAGAGGAAGGAAGTCTACCCACGGCGGCTGGGTAAGTGTGTGCTTCTCTCCGACAGT
 AAAACGCTTGTCTCTGCTGGAGGATATCTCAAGTGGTGAATGTTGCCACTGGGACTCCTCACAGACCT
 TCTACACAAATGGAACAACCTCAAGAAAATCCAGTGTCCCCTGACTTCAGAACCTATGTGACTGTCGA
 TAATCTCGGTATTTTATATATTTTACAGGTTTTAGAGTGA

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-RsrII

ACCN:

NM_009684

Insert Size:

3750 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:

Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_009684.2](#), [NP_033814.2](#)

RefSeq Size: 6514 bp

RefSeq ORF: 3750 bp

Locus ID: 11783

UniProt ID: [O88879](#)

Cytogenetics: 10 45.47 cM

Gene Summary: Oligomeric Apaf-1 mediates the cytochrome c-dependent autocatalytic activation of pro-caspase-9 (Apaf-3), leading to the activation of caspase-3 and apoptosis. This activation requires ATP (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) encodes the longer isoform (1). Variants 1 and 2 encode the same isoform 1.