

Product datasheet for **MC224055**

Apaf1 (NM_001042558) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apaf1 (NM_001042558) 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: >MC224055 representing NM_001042558
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGATGCAAAGGCCCGCAATTGTTTGCTTCAACATAGAGAAGCTTTGGAAAAGGACATCAAACATCCT
 ACATCATGGATCACATGATCAGTAATGGCGTCTTGTGAGTATAGAGGAGGAGAAGGTCAAAGTCAGGC
 CACTCAATATCAACGAGCAGCCGCTTTAATTAATGATACTTAATAAGACAACGTGTCCTACATTTCA
 TTCTACAACGCTCTGCTACACGAGGGCTATAAGGACCTTGTGCGCTTCTGCAGAGTGGCCTTCCTCTTG
 TGTCGTCTTCCAGTGGCAAGGACACAGATGGTGAATAACTTCATTTGTAAAGGACAGTGTGTGAAGG
 TGGAGTACCCAGAGGCCGTTATTTTCGTTACTAGAAAGAAGCTGGTTCATGCGATTACGAGAAGCTC
 TGGAACTGAATGGAGAACCAGGGTGGGTACCATCTATGGGATGGCAGGCTGCGGCAAGTCTGTGTTAG
 CTGCGGAAGCCGTTTCGAGATCACTCCCTCTTAGAAGGTTGCTTTTCAGGGGTGTACACTGGGTTTCCAT
 TGGAAAACAAGACAAATCTGGGCTTCTCATGAACTGCAGAATCTGTGCATGCGCTTGGACCAAGAAGAG
 AGTTTCTCTCAGAGGCTTCCACTTAATATTGAGGAGGCCAAAGACCGCCTCCGTGTTCTGATGTCGCA
 AACACCCAAAGTCTCTGTTGATCTTGGATGATGTTGGGATCCTTGGGTGTTAAAAGCTTTTGACAATCA
 GTGTGAGATTCTTCTTACAACAGAGATAAGAGTGTACAGATTCAAGTAAAGGTCCTAAGCATGTTGTC
 CCTGTGGAGAGTGGTCTAGGGAGAGAGAAAGGACTTGAGATCTTGTCACTTTTTGTTAATGAAGAAAG
 AAGATCTGCCAGCGGAGGCTCACAGTATTATAAAGGAATGCAAAGGTTCTCCTCTGTAGTGTCTTAAT
 TGGTGCCTTTTACGTGATTTTCCCAATCGCTGGGCATACTACCTCAGACAGTTCAGAAATAAGCAGTTT
 AAGAGAATAAGGAAGTCTTCATCTTATGATTATGAGGCTCTAGATGAAGCCATGTCGATAAGTGTGAA
 TGCTCAGAGAAGACATCAAAGACTATTACACAGACCTTCCATCCTTCAGAAGGACGTCGAAGTACCTAC
 AAAGGTGTTGTGCTTCTCTGGACTTGGAAACGGAAGAAGTTGAAGACATCCTGCAGGAGTTCGTTAAT
 AAGTCTCTTATTCTGTAATCGGAATGGAAGTCATTTTGTTATTATTTACATGATCTTCAAGTAGATT
 TTCTTACAGAGAAGAATCGCAGTCAGCTTCAGGATCTGCACAGGAAGATGGTCACTCAGTTTCAGAGGTA
 TTACCAGCCCCACGCTGTCTCCAGACCAGGAGGACTGCATGTATTGGTACAATTCCTAGCCTATCAC
 ATGGCTAGTGCCAATATGCACAAAGAACTTTGTGCTTTAATGTTTCCCTGGACTGGATTAAGCAAAAA



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CAGAACTGTGCGGCCCTGCCATCTGATTACAGAGTTCGTGGCATATAGGCATATATTGGATGAAAAGGA
 TTGTGACAGTCTGTGAGAAATTTCAAGAGTTTTATCTTTAAATGGACACCTCCTTGGACGACAGCCATTT
 CCTAATATTGTACAGCTGGGCCCTCTGTGAACGAAACTCCGAAGTTTATCGACAAGCAAAGCTGCAGG
 CCAAGCAGGAGGGGATACTGGGCGCCTTACCTGGAATGGATAAAACAAAAAATCAAGAATCTGTC
 CCGCTTAGTCGTCCGCCCCACACAGATGCTGTTTACCACGCGTGTCTTCTCAGGATGGTCAGAGAATA
 GCTTCTGTGGGGCTGATAAAACCTTACAGGTGTTCAAAGCCGAGACAGGAGAGAAACTCTTGACATCA
 AAGCTCACGAAGATGAGGTGCTTGTGCGCGTTCCTCAGACGACAGTTACATAGCGACCTGCTCAGC
 GGATAAGAAGGTTAAGATTTGGGATTCTGCGACTGGGAAGCTTGTGCACACCTACGACGACACTCGGAG
 CAAGTCAATTGCTGCCATTTACCAACAAGAGTAACCACCTTCTCTTGGCCACTGGGTCAAATGATTTCT
 TCCTCAAGCTCTGGGATTTGAATCAAAAAGAAATGTCGAAATACCATGTTTGGTCACACGAACTCAGTCAA
 CCACTGCAGGTTCTACCAGACGATGAGCTCTTGGCTAGCTGCTCAGCTGACGGGACTTTAAGGCTTTGG
 GATGTGAGATCAGCAAACGAGAGGAAAAGCATTAAATGTGAAGCGCTTCTCTGAGTTCAGAAGACCTC
 CAGAGGATGTGGAGGTGATCGTGAAGTGTGTTCTGGTCTGCAGATGGTGACAAAATAATAGTGCAGC
 AAAAAACAAGTCTCTTTTTGATATTCATACTAGTGGCCTATTGGCAGAGATCCACACAGGCCATCAC
 AGCACCATCCAGTACTGTGACTTCTCCCCTATGACCATTTGGCTGTGATTGCCCTGTCTCAGTACTGTG
 TGGAGTTGTGGAACATAGACTCCCGCTAAAGGTGGCCGACTGCAGAGGACATTTGAGTTGGGTTACGG
 TGTGATGTTTTCTCCCGATGGCTCCTCATTTTTGACAGCTTCTGATGACCAACAATAAGGGTCTGGGAG
 ACAAAAAGGTATGCAAGAACTCGCCATCGTGCTAAAGCAGGAAATAGACGTCGTGTTCAAGAGAACG
 AAACGATGGTCTTGCAGTTGACAACATAAGAGGCCTGCAACTCATTGCTGGA AAAACAGGCCAGATTGA
 TTACCTGCCTGAAGCCCAAGTGAGTTGCTGCTGCCTCAGTCCACACCTTGAGTACGTGGCATTCCGGAGT
 GAAGATGGAGCCATTAAGATTATAGA ACTTCCAACAACAGAGTCTTCAAGTTCTGGGTTGGGCACAAGA
 AAGCTGTGCGGCACATCCAGTTCACAGCTGATGGGAAGACACTGATTTCAAGTTCTGAAGATTCTGTGAT
 TCAGGTATGGAATTGGCAGACAGGGGACTATGATTTTTGCAAGCCCACCAGGAAACGGTAAAGGACTTC
 AGGCTCCTCCAAGATTCAAGATTGCTTTCTTGGTCATTTGATGGAACGGTGAAGGTGTGGAATGTCATTA
 CCGGAAGAATAGAAAGAGACTTTACTTGTGATCAGGGCACAGTGTCTTCTGTGCTATCTCTTCTGATGC
 GACCAAGTTTTCTACCTCTGCTGATAAGACTGCCAAGATCTGGAGTTTTGACCTCCTTTCCCCTCTT
 CATGAGCTGAAGGGCCATAATGGCTGTGTCGCTGCTGCTCTCGCTTCTCGTGGATGGCATCCTGTTGGCAA
 CTGGAGATGACAATGGAGAAATCCGGATATGGAATGTCTCAGATGGCCAGCTTCTTATTCTGTGCTCC
 GATCTCGGTAGAGGAAGGAACTGCTACCCACGGCGGCTGGGTAAGTGTGTGCTTCTCTCCGACAGT
 AAAACGCTTGTCTCTGCTGGAGGATATCTCAAGTGGTGAATGTTGCCACTGGGACTCCTCACAGACCT
 TCTACACAAATGGAACAACCTCAAGAAAATCCAGTGTCCCCTGACTTCAGAACCTATGTGACTGTCTGA
 TAATCTCGGTATTTTATATATTTTACAGTTTTAGAGTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-RsrII

ACCN:

NM_001042558

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).

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_001042558.1](#), [NP_001036023.1](#)

RefSeq Size: 6557 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 (1) has an additional segment in the 5' UTR, compared to variant 2. Variants 1 and 2 encode the same isoform 1.