

Product datasheet for **MC229505**

Apaf1 (NM_001282947) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apaf1 (NM_001282947) 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:	>MC229505 representing NM_001282947 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGGATGCAAAGGCCCGCAATTGTTTGCTTCAACATAGAGAAGCTTTGGAAAAGGACATCAAACATCCT
ACATCATGGATCACATGATCAGTAATGGCGTCTTGTGAGTATAGAGGAGGAGAAGGTCAAAGTCAGGC
CACTCAATATCAACGAGCAGCCGCTTAAATAAAATGATACTTAATAAGACAACGTGCTTACATTTCA
TTCTACAACGCTCTGCTACACGAGGGCTATAAGGACCTTGTGCGCTTCTGCAGAGTGGCCTTCCTCTTG
TGTCGTCTCCAGTGTAAAGGACAGTGTGTGAAGGTGGAGTACCCAGAGGCCGTTATTTTCGTTAC
TAGAAAGAAGCTGGTTCATGCGATTGAGCAGAGCTCTGGAACTGAATGGAGAACCAGGGTGGGTCAAC
ATCTATGGGATGGCAGGCTGCGCAAGTCTGTGTTAGCTGCGGAAGCCGTTTCGAGATCACTCCCTCTTAG
AAGTTGCTTTTCAGGGGTGTACACTGGGTTTCCATTGGAAAACAAGACAAATCTGGGCTTCTCATGAA
ACTGCAGAATCTGTGCATGCGCTTGACCAAGAAGAGAGTTTCTCTCAGAGGCTCCACTTAATATTGAG
GAGGCCAAAGACCGCTCCGTGTTCTGATGCTGCGCAAACACCAAGGTCTCTGTTGATCTTGGATGATG
TTTGGGATCCTTGGGTGTTAAAAGCTTTTGACAAATCAGTGTGAGATTCTTCTACAACCAGAGATAAGAG
TGTTACAGATTCAGTAATGGGTCTAAGCATGTTGTCCCTGTGGAGAGTGGTCTAGGGAGAGAGAAAGGA
CTTGAGATCTTGTCACTTTTTGTTAATGAAGAAAGAAGATCTGCCAGCGGAGGCTCACAGTATTATAA
AGGAATGCAAAGGTTCTCCTCTGTAGTGTCTTAATTGGTGCCTTTTACGTGATTTTCCCAATCGCTG
GGCATACTACCTCAGACAGCTTCAAGATAAGCAGTTTAAAGAGAATAAGGAAGTCTTCACTTATGATTAT
GAGGCTCTAGATGAAGCCATGTCGATAAGTGTGAAATGCTCAGAGAAGACATCAAAGACTATTACACAG
ACCTTTCCATCCTTCAGAAGGACGTCAAGGTACCTACAAAGGTGTTGTGCGTCTCTGGGACTTGGAAAC
GGAAGAAGTTGAAGACATCCTGCAGGAGTTCGTTAATAAGTCTCTTATTCTGTAATCGGAATGGAAG
TCATTTTGTATTATTTACATGATCTTCAAGTAGATTTTCTTACAGAGAAGAATCGCAGTCAGCTTCAGG
ATCTGCACAGGAAGATGGTCACTCAGTTTCAGAGGTATTACCAGCCCCACACGCTGTCTCCAGACCAGGA
GGACTGCATGATTGGTACAACCTCCTAGCCTATCACATGGCTAGTGCCAATATGCACAAAGAACCTTTGT
GCTTTAATGTTTTCCCTGGACTGGATTAAGCAAAAACAGAACCTGTGCGCCCTGCCATCTGATTACAG



[View online »](#)

```

AGTTCGTGGCATATAGGCATATATTGGATGAAAAGGATTGTGCAGTCTGTGAGAATTTTCAAGAGTTTT
ATCTTTAAATGGACACCTCCTTGGACGACAGCCATTTCTAATATTGTACAGCTGGGCTCTGTGAACCA
GAAACTCCGAAGTTTATCGACAAGCAAAGCTGCAGGCCAAGCAGGAGGGGGATACTGGGCGCTTTACC
TGGAAATGGATAAAACAAAAAATCAAGAATCTGTCCCGCTTAGTCGTCCGCCACACAGATGCTGT
TTACCACGCGTGTTCCTCAGGATGGTCAGAGAATAGCTTCTGTGGGGCTGATAAAACCTTACAGGTG
TTCAAAGCCGAGACAGGAGAGAACTTCTTGACATCAAAGCTCACGAAGATGAGGTGCTTTGCTGCGCGT
TCTCCTCAGACGACAGTTACATAGCGACCTGCTCAGCGGATAAGAAGGTTAAGATTTGGGATTCTGCGAC
TGGGAAGCTTGTGCACACCTACGACGAGCACTCGGAGCAAGTCAATTGCTGCCATTTACCAACAAGAGT
AACACCTTCTCTGGCCACTGGGTCAAATGATTTCTTCTCAAGCTCTGGGATTTGAATCAAAAAGAAT
GTGCAAAATACCATGTTTGGTACACGAACTCAGTCAACCACTGCAGGTTCTCACCAGACGATGAGCTCTT
GGCTAGCTGCTCAGCTGACGGGACTTTAAGGCTTTGGGATGTGAGATCAGCAAACGAGAGGAAAAGCATT
AATGTGAAGCGCTTCTTCTGAGTTCAGAAGACCCTCCAGAGGATGTGGAGGTGATCGTGAAGTGTGTT
CCTGGTCTGCAGATGGTGACAAAATAAGTGGCAGCAAAAAACAAAGTCTCTTTTGTATTCATAC
TAGTGGCCTATTGGCAGAGATCCACACAGGCCATCACAGCACCATCCAGTACTGTGACTTCTCCCCCTAT
GACCATTTGGCTGTGATTGCCCTGTCTCAGTACTGTGTGGAGTGTGGAACATAGACTCCCGCTAAAGG
TGGCCGACTGCAGAGGACATTTGAGTTGGGTTACGGTGTGATGTTTTCTCCCGATGGCTCCTCATTTTT
GACAGCTTCTGATGACCAAAACAATAAGGCTCTGGGAGACAAAAAGGTATGCAAGAACTCTGCCATCGTG
CTAAAGCAGGAAATAGACGTCGTGTTTCAAGAGAACGAAACGATGGTCTTGCAGTTGACAACATAAGAG
GCCTGCAACTCATTGCTGGAAAAACAGGCCAGATTGATTACCTGCCTGAAGCCCAAGTGAGTTGCTGCTG
CCTCAGTCCACACCTTGAGTACGTGGCATTTCGGAGATGAAGATGGAGCCATTAAGATTATAGAATTCCA
AACACAGAGTCTTCAAGTCTGAAGATTCTGTGATTCAGGTATGGAATTGGCAGACAGGGGACTATGT
GGAAGCACTGATTTCAAGTCTGAAGATTCTGTGATTCAGGTATGGAATTGGCAGACAGGGGACTATGT
ATTTTTGCAAGCCACCAGGAAACGGTAAAGGACTTCAGGCTCCTCAAGATTCAAGATTGCTTTTCTGG
TCATTTGATGGAACGGTGAAGGTGTGGAATGTCATTACCGGAAGAATAGAAAGAGACTTTACTTGTGATC
AGGGCACAGTGTCTTCTGTGCTATCTTCTGATGCGACCAAGTTTTTCTACCTCTGCTGATAAGAC
TGCCAAGATCTGGAGTTTGGACCTCCTTTCCCTCTTCTGAGCTGAAGGGCCATAATGGCTGTGTCGC
TGCTCTGCCTTCTCGTGGATGGCATCTGTTGGCACTGGAGATGACAATGGAGAAATCCGGATATGGA
ATGTCTCAGATGGCCAGCTTCTTCTCGTGTGCTCCGATCTCGGTAGAGGAAGGAACTGCTACCCACGG
CGGCTGGGTAAGTGTGCTTCTCTCCGACAGTAAAACGCTTGTCTCTGCTGGAGGATATCTCAAG
TGGTGGAAATGTTGCCACTGGGACTCCTCACAGACCTTCTACACAATGGAACAAACCTCAAGAAAATCC
ACGTGTCCCTGACTTCAGAACCTATGTGACTGTGCATAATCTCGGTATTTTATATATTTTACAGGTTTT
AGAGTGA
    
```

```

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA
    
```

Restriction Sites:

SgfI-RsrII

ACCN:

NM_001282947

Insert Size:

3717 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_001282947.1](#), [NP_001269876.1](#)

RefSeq Size: 6497 bp

RefSeq ORF: 3717 bp

Locus ID: 11783

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 (3) lacks an in-frame segment in the 5' coding region, compared to variant 1. The resulting isoform (2) lacks an internal segment, compared to isoform 1.