

Product datasheet for **SC112416**

Apoptosis enhancing nuclease (AEN) (NM_022767) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apoptosis enhancing nuclease (AEN) (NM_022767) Human Untagged Clone
Tag:	Tag Free
Symbol:	Apoptosis enhancing nuclease
Synonyms:	ISG20L1; pp12744
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_022767, the custom clone sequence may differ by one or more nucleotides

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ATGGTACCCCGGAGGCCCTGAGTCTGCTCAGTGCCTGTGCCCTTCCCTCACCATCCCAAATGCCAAGG
ATGTGCTTCGGAAGAGGCACAAGAGAAGGAGCCGACAGCACCAGCGTTTCATGGCCCGGAAGGCCTTGCT
GCAGGAGCAGGGGCTGCTGAGCATGCCTCCAGAACCAGGGTCTCCCACTGCCACCCCTTTCGGGGCA
GCGACAGCAACTGAAGCTGCCAGCAGTGGGAAGCAGTGTCTGAGGGCTGGATCTGGCAGTGCCCCATGCA
GCAGAAGGCTGCTCCCGGAAAGCCTCAGGGCCCTTGCCAGCAAGTGTGTGGCTATCGACTGTGAGAT
GGTGGGCACGGGACCCCGAGGGCGGTAAGCGAGCTGGCCGCTGTTCCATTGTGAGCTACCATGGCAAT
GTCCTCTATGACAAGTACATCAGGCCTGAGATGCCCATCGCTGACTACCGTACCCGCTGGAGTGGCATCA
CTCGGCAGCACATGCGCAAGGCTGTCCCTTCCAGGTGGCCAGAAAGAGATCCTTAAGCTCCTGAAGGG
CAAGGTGGTGGTGGGCACGCGCTGCACAACGACTTCCAGGCGCTCAAGTATGTCCACCCTCGGAGCCAG
ACCCGGGATACGACCTATGTCCAAACTTCTCAGCGAGCCCGGCTCCACACCCGGGCCCGGTCTCTC
TAAAGGACCTGGCCCTGCAGCTGCTGCACAAGAAGATCCAGGTGGGCCAGCACGGGCACTCATCAGTAGA
AGATGCCACGACAGCCATGGAGCTTACCGGCTGGTGGAGGTGCAGTGGGAACAGCAGGAGGCCCGCAGC
CTCTGGACCTGCCCGAGGACAGAGAACCTGACAGCAGCACAGACATGGAACAGTACATGGAGGACCAGT
ACTGGCCCGATGACCTGGCCACGGCAGCAGAGGAGGCCAGGGAGGCACAGGACAGAAGGAATTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022767 unedited
 NGGGGGTGTTTCAGNAATTTATGTNAATACGAACTNCACTTTTAGGGNNCGGCCGCGNNA
 ATTCGGCACGNAGGGATNNCTGGCENAGTGCCCATGNNCAGCAGNAAGGGCCTGGCTCC
 CGGGNAAAGCCTCAGGGCCCTTGCCAGCAAGTGTGTGGCTATCGACTGTGAGATGGTGG
 GCACGGGACCCCGAGGGCGGGTAAGCGAGCTGGCCGCTGTTCCATTGTGAGCTACCATG
 GCGATGTCCTCTATGACAAGTACATCAGGCCTGAGATGCCCATCGCTGACTACCGTACCC
 GCTGGAGTGGCATCACTCGGCAGCACATGCGCAAGGCTGTCCCTTCCAGGTGGCCGAGA
 AAGAGATCCTTAAGCTCCTGAAGGGCAAGTGGTGGTGGGGCACGCGCTGCACAACGACT
 TCCAGGGCTCAAGTATGTCCACCTCGGAGCCAGACCCGGGATACCACCTATGTCCCAA
 ACTTCTCAGCGAGCCCGGCTCCACACCCGGGCCGGGTCTCTCTAAAGGACCTGGCCC
 TGCAGCTGCTGCACAAGAAGATCCAGGTGGCCAGCACGGGCACTCATCAGTAGAAGATG
 CCACGACAGCCATGGAGCTCTACCGCTGGTGGAGGTGCAGTGGGAACAGCAGGAGGCC
 GCAGCCTCTGNGACCTGCCCGAGACAGAACTGACAGCAGCAGACATGGAACAGT
 ACATGGAGACCAGTACTGGCCGATGACCTGGCCACGGCAGCAGAGGAGGAGCCAGGG
 AGGCACAGACAGAAAGAATTGAGAAAGGGCGGGCTCCTGGCTGGGCTTNCNGTGTG
 GCCGGTAAGAAGTGGGGCCAGAGAGCAGCGGGCACTCCTTCTGGGCAGGNTGGNGCAN
 GATGCANTGAGCCCGCCAGGCCAGNAGAGTTGGGGTCATCTGTTACCTTGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_022767 unedited
 TTGTACCGCGCCGCTTCTAAATCGAGTTTTTTTTTTTTTTTTTTTTCACGTTTCCAATTGA
 GTTTTATTCTAGAACAAATGGTTTTACAACAAAGCTGATCTTAAATAGTACATTTCCCG
 CTGATAACAGCGCATCTTCTTCGACCCCGAGACCAAGGGATCAAAGCTACTGCTCAAT
 TGAGTTTGACATCAGCTACCGACTTTTAAGGAATCTAGAACAAAGTTCTGGAGCCAGGCC
 AGAAGTGGTAAAAGATTCAGTTAGCCCTTCTCTGTGCTGTGCTGACAGGGAGGAGCC
 AGTGACTGGACAATCTATGACCCCAAGTTTGTGGAACGTGGGGCTTCAGCTGAGGGTGGG
 GTAGTGTGATTTAGCAGTGTCTCCACCTCCCTGACCCCTGCGCTGCTTTGCTCTGTTGT
 CACCTCCCGCACAGTGTCTGGGACACTGACCGGAAGCCAAACCTGTGCCTGGTGGCCACAG
 ACAAGACACAGGATCTCCGTGAACCTTGTCTGTGTGCCCTTACCGAGGCCATTGTGCTA
 CCTGTTGAACAATAAAACCGTCTATTTGACTGCGCCCCATTGTTCAACTGTGACCTC
 TCGTGTACTCCGCAAAAATGCTTCTATATCTGAGGGATACGCCTAGGCTTTTCAATCCAC
 TACGGGGAACCGGTATCTCCATACATTCCCGTCTTCCCTGACCTACTCCCTGTCCTCC
 CCAGTACAACCCGTACACATATCTCCCAACATCCCGCACACCTCGTCCACTAGTCTCC
 TATCCCTCCTCCCTCGCAGCCTTCTCCTTATTATCTTGCCTTACTTCGTGTTTT
 CTAGCAATCTCCCTCTATAGCACCGCTCCTTCCCATATCCCCCATTACCTCTCATCCC
 TCTAACATCCGTTACTTCTCAGTCTTATTCCACCTTGATCCAGTACAATATTACCA
 TCTCATCATAAAATATTATN

Restriction Sites:

NotI-NotI

ACCN:

NM_022767

Insert Size:

2770 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:	<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:	<u>NM_022767.1, NP_073604.1</u>
RefSeq Size:	3134 bp
RefSeq ORF:	630 bp
Locus ID:	64782
UniProt ID:	<u>Q8WTP8</u>
Cytogenetics:	15q26.1
Domains:	EXOIII
Gene Summary:	Exonuclease with activity against single- and double-stranded DNA and RNA. Mediates p53-induced apoptosis. When induced by p53 following DNA damage, digests double-stranded DNA to form single-stranded DNA and amplifies DNA damage signals, leading to enhancement of apoptosis.[UniProtKB/Swiss-Prot Function]