

Product datasheet for **SC324654**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_022767.2
 CCGGAAGAGACACGCGGGCTTCAGGCTGCTGCCCCATTGGAAGATTACTCCCCAGGCTT
 CCCTTGCCCCAAGCAGTGAAGTGGTACCCCGGAGGCCCTGAGTCTGCTC
 AGTGCCTGTGCCCTTCCCTCACCATCCCAAATGCCAAGGATGTGCTTCGGAAGAGGCACA
 AGAGAAGGAGCCGACAGCACCAGCGTTTCATGGCCCGGAAGGCCCTTGCTGCAGGAGCAGG
 GGCTGCTGAGCATGCCTCCAGAACCAGGGTCTCCCCACTGCCACCCCTTTCGGGGCAG
 CGACAGCAACTGAAGCTGCCAGCAGTGGGAAGCAGTGTCTGAGGGCTGGATCTGGCAGTG
 CCCCATGCAGCAGAAGGCCTGCTCCCGGAAAGCCTCAGGGCCCTTGCCAGCAAGTGTG
 TGGCTATCGACTGTGAGATGGTGGGCACGGGACCCGAGGGCGGGTAAGCGAGCTGGCC
 GCTGTTCCATTGTGAGCTACCATGGCGATGTCTCTATGACAAGTACATCAGGCCTGAGA
 TGCCCATCGCTGACTACCGTACCCGCTGGAGTGGCATCACTCGGCAGCACATGCGCAAGG
 CTGTCCCCTTCCAGGTGGCCAGAAAGAGATCCTTAAGCTCTGAAGGGCAAGGTGGTGG
 TGGGGCACGCGCTGCACAACGACTTCCAGGCGCTCAAGTATGTCCACCCTCGGAGCCAGA
 CCCGGGATACCACCTATGTCCAAACTTCTCAGCGAGCCCGGCCTCCACACCCGGGCC
 GGGTCTCTCTAAAGGACCTGGCCCTGCAGCTGCTGCACAAGAAGATCCAGGTGGGCCAGC
 ACGGGCACTCATCAGTAGAAGATGCCACGACAGCCATGGAGCTCTACCGCTGGTGGAGG
 TGCAGTGGGAACAGCAGGAGGCCCGCAGCCTCTGGACCTGCCCGAGGACAGAGAACCTG
 ACAGCAGCACAGACATGGAACAGTACATGGAGGACCAGTACTGGCCCGATGACCTGGCCC
 ACGGCAGCAGAGGAGGAGCCAGGACAGGACAGGACAGAAAGGAATTGAGAAGGGGGCGGGG
 CTCCTTGCTGGGCTTCCGGTGTGGCCGGTAGGAAGTGGGGGCCAGGAGAGCAGCGGCA
 CTCTTCTGGGAGGGTGGGGCAGGATGCAGTGAAGCCAGCCCCAGGGCCAGAGGAGTTG
 GGGTACATCTGTTACCTTGACACCCTCTGCACACAGCATAGCCCTCTCTCTCCAGGGCT
 GTTGGTCTTTCTCCTGACTCCTGTGGTTTTGCTAATGGCACTTTACAGACTCCATGGAG
 ATGTCAGGTGGACCATCTTCTAGGGCCAGCAGGAGTAGGGAATGTGCCAACAGACTGCC
 CAGGTTGCCGTGGCCTTCCCCACCCCCAGATCTCCTGAGTCATCATGCTGTGCTAATGA
 AAGGGATCATATCATCTCTCTGGGATGGTGGGTGGGGTGTCAATATCCTGGAGCTCC
 CTTACCCCAACTCAATGACTTGGGGTAAAGTTCTTCTTTTGTTCCTACCTCTTCC



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TCCACTCATTTGGGTTCCAGAATAAACATGCCCTGAAGTTAAAGGGGAGTTAAGTCCTAAA
 GGAGGCATTTCTTCCCCACCTCCCTGACCTGGAACCTGGCTACAGCCATTGTAGGAACT
 CCGTGCCTGGCCTGTGACCTCCCTGCTAGGCTACAGTGGAAATAGCAGAGCCCACAGGCTT
 CTCGTGGGGAGTTGGCTCCTTAACATTTCTTGGCAACAGAAAGCCCCAGGCACAGCTCAG
 GGAGGAGGGAAGGCAGGTAAGCTTTGGACGAGAACTGGCATATTTATTTTACCCAAATC
 AGGGATTTCCCCAGTCCACCCAGTACTGGGCTCTTAAGCAAAAGTCTGAGAAAACAAGACA
 GTGGTTGAATTCTGGGGCTTTGTGTAGGATTGTGCCTGACCTTTATTTATTTAATAC
 AGCAGGGCCACTCGTCTAGGGCAGTGGAGTCTGGGTGTCTCCTGGGGCTGGGGCAGGGCA
 TTGGCAGTTACGCAGTGGCCCTGAACCTGGTCTGGTGCCCCGAACCTGGTCTGTATGCC
 CCTCAGCTCTTTGACAATCACTGTGGCTGTTGGGTTTTCTCTATTTCTAAAAATGTTCT
 CTTCTTTCTAAGTGACAGTTTTGAAGTATTGGATAACCAAGAGCTCAGGTCACACAGAC
 CTTGGAGCCCCATCTTTGCTTGCAGCTTAGCTTTGAGATACTAAGCAAGCGAGGGACTTC
 ACTCTTGAGCCTGTTTTTCTCATCTGTAAAGTGGGGATAGTGGTACGGCTACCTCAT
 AGGGTTGTAATGAGCACTAAATGTGAAGTCTTGGCACAGTGCCTGGCACATGGTGAGCC
 ACAGCTACTGTGAGTTTCTGTTTATCCCCTTTTTTTTTTTTTAAAGCCATTGTTTATTC
 TTTGAGAAATTTGTTGTAACCTTCTCAGGATAACACCTGAGTCCACAGGCTGAGCAGCTGT
 GGCCACAGACAAGTGTCCGGCTTGGCTGTTCCAGCAGGTGGGGCGCTGGCCTCGGTGA
 GGGCACAGCAGCAAGGTTACGGATATCCGTGTGTCTTGTCTGTGGCCACCAGGCACAGG
 TTTGGCTTCCGGTCAAGTGTCCCGACTGTGCGGGAGGTGACAACAGAGCAAAGCAGCGC
 AGGGGTGAGGGAGGTGGAGACTGTGAAATCACACTACCCACCCCTCAGTGAAGCCC
 CACGTTCCACAACTTGGGGTCATAGATTGTCCAGTCACTGGCTCCCTCCCTGTGACGAC
 AGCACAGAGGAAGGGGCTAACTGAATCTTTACCACTTCTGGCCTGGCTCCAGAACTTTG
 TTCTAGATTCCTTAAAAGTCGGTAGCTGATGTCAAACCTCAATTGACAGTAGCTTTGATC
 CTTGGTCTGGGGTCTGAAGGAAGATGGCGCTGTTATCAGCGGGAAATGTACTATTTAA
 GATCAGCTTTGTTGTAACCATTGTTCTAGAATAAACTCAATTGAAACGTGAAAAA
 AAAAAAAAAAAAAA

Restriction Sites:

Please inquire

ACCN:

NM_022767

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:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_022767.2](#), [NP_073604.2](#)

RefSeq Size:	3074 bp
RefSeq ORF:	978 bp
Locus ID:	64782
UniProt ID:	Q8WTP8
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]