

Product datasheet for **RG202285**

Apoptosis enhancing nuclease (AEN) (NM_022767) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apoptosis enhancing nuclease (AEN) (NM_022767) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Apoptosis enhancing nuclease
Synonyms:	ISG20L1; pp12744
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202285 representing NM_022767 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTACCCCGGGAGGCCCTGAGTCTGCTCAGTGCCTGTGCCCTCCCTCACCATCCCAAATGCCAAGG
ATGTGCTTCGGAAGAGGCACAAGAGAAGGAGCCGACAGCACCAGCGTTTCATGGCCCGGAAGGCCTTGCT
GCAGGAGCAGGGGCTGCTGAGCATGCCTCCAGAACCAGGGTCTCCCACTGCCACCCCTTCGGGGCA
GCGACAGCAACTGAAGCTGCCAGCAGTGGGAAGCAGTGTCTGAGGGCTGGATCTGGCAGTGCCCCATGCA
GCAGAAGGCCTGCTCCCGGAAAGCCTCAGGGCCCTTGCCAGCAAGTGTGTGGTATCGACTGTGAGAT
GGTGGGCACGGGACCCGAGGGCGGTAAGCGAGCTGGCCGCTGTTCCATTGTGAGCTACCATGGCGAT
GTCCTCTATGACAAGTACATCAGGCCTGAGATGCCATCGCTGACTACCGTACCCGCTGGAGTGGCATCA
CTCGGCAGCACATGCGCAAGGCTGTCCCTCCAGGTGGCCAGAAAGAGATCCTTAAGCTCCTGAAGGG
CAAGGTGGTGGTGGGACGCGCTGCACAACGACTTCCAGGCGCTCAAGTATGTCCACCCTCGGAGCCAG
ACCCGGGATACCACCTATGTCCAACTTCTCAGCGAGCCCGGCTCCACCCCGGCGCCGGTCTCTC
TAAAGGACCTGGCCCTGCAGTGTCTGCACAAGAAGATCCAGGTGGCCAGCACGGGCACTCATCAGTAGA
AGATGCCACGACAGCCATGGAGCTCTACCGCTGGTGGAGGTGCAGTGGGAACAGCAGGAGGCCCGCAGC
CTCTGGACCTGCCCGAGGACAGAGAACCTGACAGCAGCACAGACATGGAACAGTACATGGAGGACCACT
ACTGGCCCGATGACCTGGCCACGGCAGCAGAGGAGGCCAGGGAGGCACAGGACAGAAGGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202285 representing NM_022767
 Red=Cloning site Green=Tags(s)

MVPREAPESAQCLCPSLTIPNAKDVLKRHRKRRSRQHQRFFMARKALLQEQLLSMPPEPGSSPLPTPFGA
 ATATEAASSGKQCLRAGSGSAPCSRRPAPGKASGPLPSKCAIDCEMVGTPRGRVSELARCSIVSYHGD
 VLYDKYIRPEMPIADYRTRWSGITRQHMRKAVPFQVAQKEILKLLKGVVVGHALHNDFQALKYVHPRSQ
 TRDTTYVPNFLSEPLHTRARVSLKDLALQLLHKKIQVGQHGHSVEDATTAMELYRLVEVQWEQQEARS
 LWTCPEDREPDSSTDMEQYWPDDL AHGSRGGAREAQDRRN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022767

ORF Size: 975 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

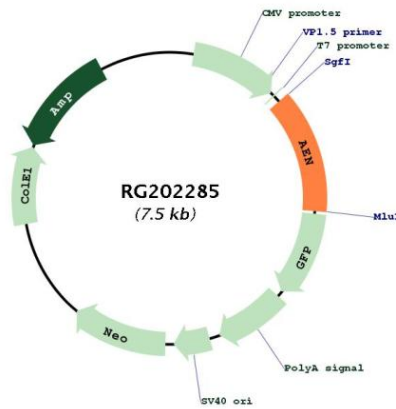
UniProt ID: [Q8WTP8](#)

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]

Product images:



Circular map for RG202285