

Product datasheet for **SC114903**

EDEM1 (NM_014674) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EDEM1 (NM_014674) Human Untagged Clone
Tag:	Tag Free
Symbol:	EDEM1
Synonyms:	EDEM
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_014674, the custom clone sequence may differ by one or more nucleotides

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ATGCAATGGCGAGCGCTCGTCTGGGGCTGGTGTCTCCCGCTTGGCCTCCATGGAGTATTGTGGCTCG
TCTTCGGGCTGGGGCCAGCATGGGCTTCTACCAGCGCTTCCGCTCAGCTTCGGCTCCAGCGTCTGAG
GAGCCCCGACGGCCCGCGTCCGCCACCTCGGGGCCGCTGGGCCGGCTGGGGGGTATCCGGGCCGTCG
TGGCTGCAGCCGCGGGACCGGGGCAGCGCAGAGCCCGCAAGGCTCCGCGGCGTCTGGGCCGGGA
TGTGCGGCCAGCCAACCTGGGGCTACGTGCTGGCGGCCGGGGCCGCGGCCCGGACGAGTACGAGAAGCG
CTACAGCGGCGCCTTCCCTCCGAGCTGCGTGCCAGATGCGCGACCTGGCACGGGGCATGTTCTGCTTT
GGCTACGACAACATACATGGCTCACGCTTCCCCAGGACGAGCTCAACCCATCCACTGCCGCGGCCGTG
GGCCCCGACCGGGGACCCTTCAAATCTGAACATCAATGATGACTAGGGAACACTACTCATTGACTTTGT
TGATGCATTGGATACACTTGAATAATGGGAAATTCATCCGAGTCCAGAAAGCCGTCAGTTAGTGATC
AACACAGTTTCATTTGACAAAGATTCCACCGTCCAAGTCTTTGAGGCCACGATAAGGGTCTGGGAAGCC
TCCTTTCTGCTCAGAAATAATAACTGACTCCAAGCAGCCCTTTGGTGACATGACAATTAAGGACTATGA
TAATGAGTTGTTATACATGGCCCATGACCTGGCGGTGCGGCTCCTCCCTGCTTTTAAAAACCAAGACA
GGGATTCATATCCTCGGTGAATCTAAAGACAGGAGTTCCTCCTGACACCAATAATGAGACATGCACAG
CGGGAGCCGGTCCCTCCTGGTGAATTTGGGATTCTGAGTCGACTCCTGGGGGACTCCACATTTGAGTG
GGTGGCCAGACGAGCAGTGAAAGCCCTTTGAACTCCGGAGCAATGATACAGGATTACTAGGCAATGTC
GTGAACATTGACGCGGCCACTGGGTTGGAAAGCAGAGTGGCCTGGTGCCGGCTGGACTCCTTCTATG
AATACCTTTGAAATCTTACATTTCTTTGGAGAAAAAGAAGACCTAGAAATGTTAATGCTGCATATCA
GAGTATTCAGAACTACTTAAGAAGAGGGCGGGAAGCCGCAATGAAGGAGAAGGAGACCCCTCCACTAT
GTCAACGTGAACATGTTTCAGTGGCAGCTGATGAACACCTGGATTGACTCTCTGCAGGCCCTTTTCCCTG
GACTGCAGGTGCTGATAGGAGATGTGGAAGATGCCATCTGCCTTCTACTATGCCATATGGAA
ACGATATGGTGCCCTCCCTGAGAGATATAACTGGCAGCTGCAGGCCCTGACGTTCTTCTACCCACTG
AGACCAGAGTTAGTGAATCCACATATCTCCTCTACCAGGCAACCAAGAATCCCTTCTACCTCCATGTAG
GAATGGATATTCTGCAGAGTCTGGAAAAGTACACAAAAGTCAAGTGTGGGTACGCCACGCTGCATCACGT
CATTGACAAGTCCACAGAAGACCGGATGGAGAGCTTTTCTCAGTGAGACCTGTAATATTTGTATCTG
CTGTTTGTGAAGACAATCCAGTACACAAGTCTGGAACCAAGATACATGTTCAACAGAGGGACACATTG
TATCTGTGGATGAGCATTTCCGGAATTGCCATGGAAGGAATTTCTCTGAAGAGGGAGGGCAGGACCA
AGGGGGAAAGTCTGTGCACAGGCCGAAACCTCATGAGTTAAAAGTCACTCAACTCCAGCTCCAAGTCAAT
CGTGACCTGATGAGAGGAGTACTCCCTGCCCTAAAGAGCATCTACATGCGACAGATTGACCAGATGG
TTGTTTGAATTTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014674 unedited

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TCCCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAG
AGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAA
TTCGGCACGAGGGGCCGGGCAATCCCGGGCCACTGGGCGGGCGACCGTGGGGCCTGGCC
GGCCCCGCGGAGAGCCTGGGGTTGGGGACGATGGGCTAGTTCCTGGTGCGTACGGGGG
AGTTTCTTAAAGGGGAAGCGAGCCGGGCTACGGGGCGAGCGGGGTGCGGTGGTTCGGCG
GGGAGGCCCGCGCTTTAAAATAATGCCCGGGCGCCCGCGCGACCATGCAATGGCGAG
CGCTCGTCTGNGGCTGGTGTCTCCTCCGGCTTGGCCTCCATGGAGTATTGTGGCTCGTCT
TCGGGCTGGGGCCAGCATGGGCTTCTACCAGCGCTTCCGCTCAGCTTCGGCTCCAGC
GTCTGAGGAGCCCGACGGCCCCGCTCGCCACCTCGGGGCCGTTGNGCCGGCCTGNGG
GGGTATCCGNGCCGTCGTGGCTGCAGCCGCCGNGACCGNGCAGCGCAGAGCCCGCGCA
AGGGGCTCGCGCTCCTGGGCCGGGGATGTGCGGCCAGCCACTGNGGCTACNNTGCTGG
CGGCCGGGCCCGNGCCCGGACGAGTACGAGAAGCGCTACAGCGGGCGCCTCCCTNCGCA
GCTGCGTGCCAGATGCGCGACCTGCCACGGGGCATGGTCTGTTGGCTACAAACACTA
CATGGTCAAGCTTNCCTCCAGACGAGCTCAACCCCTCCACTGCCCGGCCCGTGGCCCC
GACGGGGGGGACCCTTTCAATCTTGACATCATGTGACTAGGGAACACTCCTGCCTCTG
TTGAAGCATTGGAACCTGCCATATGGGAATTTTCCGATTCGAAAGC
    
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3' Read Nucleotide Sequence: >OriGene 3' genomic read for NM_014674 unedited
 CNANGATCGGTTTTTTTTTTTTTTTTTTGGAAACTCAAAAAAGAATCTTTAAAAAATTA
 CTCTAAAATCCTAAAATTTAAAGAGCAGATTTCTTATTACATTTATAAAAAGACATTT
 GGTCTTTTACAAAAAGATCCCTTTTAAATTTAAATACATTTCTTTTACAGATTAACA
 TAAATATCATCTACAGTTGCAAAGCATATTGCACATTACAGAGAAGCATTGTGTATTT
 CGTAAGTTTTCCAGAGGTTCCAACCTATACTTTTTTTGTAAAAGATTTACCTTTCGTA
 TGCATCATAATTAATAATGCAGCTTGTGTTCTGCTGATTAACACTGATGACAGAAGCCCG
 TGCAAAAAGCACTATTCCTCTGCCTTGGATGCGTTAGAAGAGGTAAGCCGGCTGTGGTGGC
 TCAGACCTGTGATCCTACCACTTGAGGAGGCCAAGAGTCCGGGTCAAGAGGTCCAGAGA
 TTCCGATCATCTGGGCAGCATGGGGAAAACCCCTCTACTAGGGACTAAAAGATTAGCT
 GGGCCTGGTGGTGCATGCGTGGGTCCCCAGGTCGTCAGAGGGGTGAGGCAAAGAAATT
 CCCCTGACCCGGGAAGGCTGAGTTTGCAGTGGGGCCAGGATCACGCCATTGGAGAGAAA
 CCCAAGCCCCAGGGCAGGAATTCGGTCCCATATGGCGGACGGTGGCGGGTGGGTGTT
 TGCCCGCTGGGGATCTGGGAATATACCAGGTGCTTCGGAGGGATTAACGGCGCATTCT
 GCTGTTACAGCGGGGAATGGGCCGTGACGCGAGGGTGC GCGCTAATCAAATCCCGGG
 CCGCTAATACAGAGGTTGCCGGGCTAAT

Restriction Sites: NotI-NotI

ACCN: NM_014674

Insert Size: 4700 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_014674.1](#), [NP_055489.1](#)

RefSeq Size: 6072 bp

RefSeq ORF: 1974 bp

Locus ID:	9695
UniProt ID:	Q92611
Cytogenetics:	3p26.1
Domains:	Glyco_hydro_47
Protein Families:	Transmembrane
Gene Summary:	Extracts misfolded glycoproteins, but not glycoproteins undergoing productive folding, from the calnexin cycle. It is directly involved in endoplasmic reticulum-associated degradation (ERAD) and targets misfolded glycoproteins for degradation in an N-glycan-independent manner, probably by forming a complex with SEL1L. It has low mannosidase activity, catalyzing mannose trimming from Man8GlcNAc2 to Man7GlcNAc2.[UniProtKB/Swiss-Prot Function]