

Product datasheet for **MC222691**

Edem3 (NM_001039644) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Edem3 (NM_001039644) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Edem3
Synonyms:	2310050N11Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC222691 representing NM_001039644

Red=Cloning site Blue=ORF Orange=Stop codon

 TTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCAAAGCCGGCGCTGCCGGGCTGTGGGTGCCGGTCCCCAGCGAGCGTCATGGAGCCTGGTGG
 CAGCGACGGCCGCGCTCTGTCTGGTGTGGCCAGTCCGTGTGCACGGCAGGGGCCGCGCCCATGAGTAG
 GGAAGAGAAGCAGAAGCTTGAAATCAAGTCTGGAAATGTTTGATCATGCTTATGGCACTATATGGAA
 CATGCCTACCCAGCTGATGAGCTCATGCCTTAACTGCCGGGCGGTGTGAGAGCCAGGAGCCAGCCAGCC
 GGGCGATGTGGATGACGCCTTGGGAAAGTTTTCCCTAACACTGATTGATTCTTTGGACTCTTGTGGT
 ATTAACAAAACAAAGGAATTTGAAGATGCTGTGAGAAAAGTTTTAAGGGATGTTAATTTAGATAATGAT
 GTAGTTGTTTCAGTCTTCGAAACAAACATCAGAGTTCTTGGGGTCTTTGGGCGGACACTCGTGGCCA
 TCATGCTGAAGGAGAAAGCGAGCACATGCAGTGTACAATGACGAGCTCCTCCACATGGCAAAGCAGCT
 GGGTTACAAGCTCCTGCCAGCTTCAACACCACCAGCGGCTTCCGTACCCAGGATTAATTTAAAGTTT
 GGCAATCAGAAAACAGAAGCCAGGACGGGAACAGAGACAGACACCTGTACAGCCTGTGCAGGCACCTTGA
 TCCTCGAGTTTGCTGCACTGAGTCGATTACAGGAGCGACCATATTTGAGGAATATGCAAGAAAAGCTCT
 TGATTTTCTCTGGGAGAAAAGACAGCGAAGTAGCAATTTAGTAGGCGTACTATCAATATTCATACTGGA
 GACTGGGTACGCAAGATAGTGGAGTTGGAGCGGGGATCGACTCCTATTATGAGTATCTGTTGAAAGCCT
 ATGTCTTGCTTGGAGATGACAGTTTTCTGGAAAGATTTAATACACATTACGATGCCATAATGAGGTATAT
 AAGCCAGCCACCTCCTACTTGTGATGTGCATATCCACAAACCAATGCTGAACGCTCGGACCTGGATGGAT
 GCATTGCTTGCCTTTTTCCAGGTTTGCAGTTTTAAAGGGTGAATTAGACCTGCTATTGAAACTCAG
 AAATGTTATACCAGGTGATTAACAAACACAATTTCTACCAGGCATTTACTACAGATTTACAGGTCAC
 TTGGGCTCAGCATCCTTTAAGGCCAGAGTTTGCAGAAAAGTACCTACTTCTTATATAAGGCTACAGGAGAC
 CCTACTACCTTGAAGTAGGGAACACTTATTGAAAATTTGAATAAGTATGCTCGAGTGCCTTGGGGT
 TTGCTGCCATGAAGGATGTTTCGCACTGGGAGTCATGAGGACAGAATGGATTCAATCTTCTGGTGAAAT
 GTTTAAATACCTGTACCTGTTATTTGCTGATAAAGAGGACATCATTTTGCATAGAAGACTATATCTTT
 ACAACAGAAGCTCATCTGTACCCTTTGGCTTCCACCACAAACCGAAGCATCTCAAAGAAGAACACAA
 CCTCAGAATACACAGAACTGGATGATAGTAATTTGATTGGACTGTCCAACACTCAGATCTTTTTTCC
 TAATGATCCATTGTATGCTCAGAGCATCCGTGAACCTTGAACAAAGCTGGTGGATAAGAGCTGCCGAGA
 GGCATCATCAGAGTAGAGGAGAGTTTCAAGTGGAGCTAAGCCTCCTCTGAGAGCCAGAGATTTATGG
 CCACTAACCTGAACATTTAGAAATCCTGAAGAAGATGGGGTGAAGTTGATTCACTCAAAGATGGGCG
 AGTCCAGCTGGTCCAACATGCAATCCAAGCTGCTAGTTCAATTGATGCTGAAGATGGGTTACGGTTCATG
 CAGGAGATGATAGAGCTGTCCAGTCAGCAACAGAAGGAGCAGCAGCTGCCTCCACGAGCTGTCCAGATTA
 TCTCCCACCCGTTTTTGGCAGGGTCTGTTAACTGCTGGACCAGCTCAGTTTGGGCTGGATCTATCTAA
 ACACAAAGAGACACGAGGATTTGTTGCAAGCAGTAAACCATATAATGGTTGTTTCAGAGCTCACTAACCT
 GAGGCAGTGATGGGAAAAATTGCCTTGATACAAAGAGGACAGTGCATGTTTGCAGAAAAGGCACGCAACA
 TTCAGAATGCTGGCGCCATCGTGGCATTGTGATCGATGACAACGAGGGGAGCAGTAGCGACACGGCCCC
 CCTGTTCCAGATGGCCGGCGATGGGAAGGACACAGACGACATCAAGATCCCCATGCTGTTCTGTTCCAGC
 AAGGAAGGCAGCATCATCCTGGACGCCATCCGCGAGCAGCAGGAGTGGAGGTGCTCCTTTCTGACAAAG
 CGAGAGACCGAGATCCCAGAAATGGAAAATGAAGACCAGCCATCTTCTGAAAATGATTCTCAGAATCAGAG
 CGCAGAGCAGATGCTCTCGTTTTCTCAGACAGTCGACTTGGCTGATAAGGAGAGCCCTGAACACCCTGCA
 GATTCTCACTCAGAGGCGTCTCCATCGGACAGTGAAGAGGCTGCTGGCTTTGCCCTCTGAACAGATAT
 CTGGGTCCACGAAAACACGAGACTACAAGCCTTGTGGTGAATGTACAGACTTAGATAACCAAGTTCA
 AGAACAATCAGAACTGAGGAAGATTCCAGTCTAATGTCAGCTGGGGTACAAAGGCCAGCCTATAGAC
 TCCATATTAGCAGACTGGAATGAAGACATAGAAGCATTGAAATGATGGAGAAGGATGAAGTGA

 A**CGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_001039644
Insert Size:	2796 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	NM_001039644.2 , NP_001034733.2
RefSeq Size:	6604 bp
RefSeq ORF:	2796 bp
Locus ID:	66967
UniProt ID:	Q2HXL6
Cytogenetics:	1 G1-G2
Gene Summary:	<p>Involved in endoplasmic reticulum-associated degradation (ERAD). Accelerates the glycoprotein ERAD by proteasomes, by catalyzing mannose trimming from Man8GlcNAc2 to Man7GlcNAc2 in the N-glycans. Seems to have alpha 1,2-mannosidase activity. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>