

## Product datasheet for **MG217624**

### Edem3 (NM\_001039644) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Edem3 (NM_001039644) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Edem3
Synonyms:	2310050N11Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG217624 representing NM\_001039644  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCAAAGCCGGCGGCTGCCGGGCTGTGGGTGCCGGTCCCCAGCGAGCGTATGGAGCCTGGTGG  
 CAGCGACGGCCGCGCTCTGTCTGGTGTGGCCAGTCCGTGTGCACGGCAGGGGCCGCGCCATGAGTAG  
 GGAAGAGAAGCAGAAGCTTGAAATCAAGTCTGGAAATGTTTGATCATGCTTATGGCACTATATGGAA  
 CATGCCTACCCAGCTGATGAGCTCATGCCTTAACTGCCGGGCGGTGTGAGAGCCAGGAGCCAGCCAGCC  
 GGGCGATGTGGATGACGCCTTGGGAAAGTTTTCCCTAACACTGATTGATTCTTTGGACTCTTGTGGT  
 ATTAACAAAACAAAGGAATTTGAAGATGCTGTGAGAAAAGTTTTAAGGGATGTTAATTTAGATAATGAT  
 GTAGTTGTTTCAGTCTTTGAAACAAACATCAGAGTTCTTGGGGTCTTTGGGCGGACACTCGTGGCCA  
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 GGGTTACAAGCTCCTGCCAGCTTCAACACCACCAGCGGCTTCCGTACCCAGGATTAATTTAAAGTTT  
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 TCCTCGAGTTTGCTGCACTGAGTCGATTACAGGAGCGACCATATTTGAGGAATATGCAAGAAAAGCTCT  
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 GCATTGCTTGCCTTTTTCCAGGTTTGCAGTTTTAAAGGGTGAATTAGACCTGCTATTGAAACTCAGC  
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 CCTCAGAATACACAGAACTGGATGATAGTAATTTGATTGGACTGTCCAACACTCAGATCTTTTTTCC  
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 GGCATCATCAGAGTAGAGGAGATTTCAGAAGTGGAGCTAAGCCTCCTCTGAGAGCCAGAGATTTATGG  
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 GATTCTCACTCAGAGGCTCTCCATCGGACAGTGAAGAGGCTGCTGGCTTTGCCCTCTGAACAGATAT  
 CTGGGTCCACGAAAACACGAGACTACAAGCCTTGTGTTGATGTACAGACTTAGATAACCAAGTTCA  
 AGAACAAATCAGAACTGAGGAAGATTCAGTCTAATGTCAGCTGGGGTACAAAGGCCAGCCTATAGAC  
 TCCATATTAGCAGACTGGAATGAAGACATAGAAGCATTGAAATGATGGAGAAGGATGAAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG217624 representing NM\_001039644  
Red=Cloning site Green=Tags(s)

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MSKAGGCRGCGCRVPQRASWSLVAATAALCLVLATSVCTAGAAPMSREEKQKLGQVLEMFHDHAYGNMYE
HAYPADELMPLTCRGRVRGQEPSRGDVEDDALGKFSLTLIDSLDTLVVLNKTFEFEDAVRKVLRDVLNDND
VVVSVFETNIRVLGGLLGGHSLAIMLKEKGEHMOWYNDPELLHMAKQLGYKLLPAFNTTSGLPYPRINLKF
GIRKPEARTGTETDCTACAGTLILEFAALSFRFTGATIFEYARKALDFLWEKRQRSSNLVGVTTINIHTG
DWRKDSGVGAGIDSYYEYLLKAYVLLGDDSFLEFRFNTHYDAIMRYISQPPLLLDVHIHKPMLNARTWMD
ALLAFFPGLQVLKGDIRPAIETHEMLYQVIKKNHFLPEAFTTDFRVHWAQHPLRPEFAESTYFLYKATGD
PYYLEVGKTLIENLNKYARVPCGFAAMKDVRTGSHEDRMSFFLAEMFKYL YLLFADKEDIIFDIEDYIF
TTEAHLPLWLSTTNRISKKNNTSEYTELDDSNFDWTCPTQILFPNDPLYAQSIREPLKNVVDKSCPR
GIIRVEESFRSGAKPPLRARDFMATNPEHLEILKMGVSLIHLKDRVQLVQHA IQAASSIDAEDGLRFM
QEMIELSSQQQEQQLPPRAVQIISHPFFGRVVLTAGPAQFGLDL SKHKETR GFVASSKPYNGCSEL TNP
EAVMGKIALIQRGQCMFAEKARNIQNAGAI GGIVIDDNEGSSSDTAPLFQ MAGDGKDTDDIKIPMLFLFS
KEGSIIILDAIREHEQVEVLLSDKARDRDP EMENEDQPSSEND SQNQS AEQMLSLSQTVDLADKESPEHPA
DSHSEASPSDSEEAAGFAPSEQISGSTENHETTSLDGECTDLDNQVQE QSETEEDSSPNVSWGTKAQPID
SILADWNEDIEAFEMMEKDEL
    
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TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

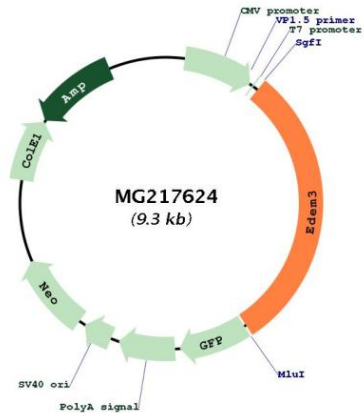
**Cloning Scheme:**



**ACCN:** NM\_001039644

<b>ORF Size:</b>	2793 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001039644.2</a> , <a href="#">NP_001034733.2</a>
<b>RefSeq Size:</b>	6604 bp
<b>RefSeq ORF:</b>	2796 bp
<b>Locus ID:</b>	66967
<b>UniProt ID:</b>	<a href="#">Q2HXL6</a>
<b>Cytogenetics:</b>	1 G1-G2
<b>Gene Summary:</b>	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]

Product images:



Circular map for MG217624