

## Product datasheet for **RG205655**

### **EDEM1 (NM\_014674) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EDEM1 (NM_014674) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EDEM1
Synonyms:	EDEM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG205655 representing NM\_014674  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCAATGGCGAGCGCTCGTCTGGGGCTGGTGTCTCTCCGGCTTGGCCTCCATGGAGTATTGTGGCTCG  
TCTTCGGGCTGGGGCCAGCATGGGCTTCTACCAGCGCTTCCGCTCAGCTTCGGCTTCCAGCGTCTGAG  
GAGCCCCGACGGCCCCGCGTCGCCACCTCGGGGCCCGTGGGCCGGCCTGGGGGGTATCCGGGCCGTCG  
TGGCTGCAGCCGCGGGGACCGGGCAGCGCAGAGCCCGCAAGGCTCCGCGGCGTCTGGGCCGGGA  
TGTGGCGCCAGCCAAC TGGGCTACGTCTGGGCGCCGGGGCCGCGGCCGACGAGTACGAGAAGCG  
CTACAGCGGCGCCTTCCCTCCGAGCTGCGTGCCAGATGCGCGACCTGGCACGGGGCATGTTCTGCTTT  
GGCTACGACAAC TACATGGCTCACGCCTTCCCCAGGACGAGCTCAACCCATCCACTGCCGCGGCCGTG  
GGCCCCACCGGGGACCCTTCAAATCTGAACATCAATGATGTACTAGGGAAC TACTCATTGACTCTTGT  
TGATGCATTGGATACACTTGAATAATGGGAAATTCATCCGAGTCCAGAAAGCAGTCAAGTTAGTGATC  
AACACAGTTTCATTTGACAAAGATTCACCGTCCAAGTCTTTGAGGCCACGATAAGGGTCTCTGGGAAGCC  
TCTTTTCTGCTCACAGAATAATAACTGACTCCAAGCAGCCCTTTGGTGACATGACAAATAAGGACTATGA  
TAATGAGTTGTTATACATGGCCCATGACCTGGCGGTGCGGCTCCTCCCTGCTTTTGAAAACCAAGACA  
GGGATTCATATCCTCGGGTGAATCTAAAGACAGGAGTTCCTCCTGACACCAATAATGAGACATGCACAG  
CGGGAGCCGGTTCCTCCTGGTGAATTTGGGATTCTGAGTCGACTCCTGGGGGACTCCACATTTGAGTG  
GGTGGCCAGACGAGCAGTGAAAGCCCTTGGAACTCCGGAGCAATGATACAGGATTACTAGGCAATGTC  
GTGAACATTCAGACGGGCCACTGGGTTGGAAAGCAGAGTGGCCTGGTGCCGGGCTGGACTCCTTCTATG  
AATACCTCTTGAAATCTTACATTCCTTTGGAGAAAAGAAGACCTAGAAATGTTTAAATGCTGCATATCA  
GAGTATTCAGAACTACTTAAGAAGAGGGCGGGAAGCCTGCAATGAAGGAGAAGGAGACCCTCCACTCTAT  
GTCAACGTGAACATGTTCAAGTGGCAGCTGATGAACACCTGGATTGACTCTCTGCAGGCCTTTTTCCTG  
GACTGCAGGTGCTGATAGGAGATGTGGAAGATGCCATCTGCCTTCATGCCTTCTACTATGCCATATGGAA  
ACGATATGGTGCCCTCCCTGAGAGATATAACTGGCAGCTGCAGGCCCTGACGTTCTCTTCTACCCACTG  
AGACCAGAGTTAGTGAATCCACATATCTCCTCTACCAGGCAACCAAGAATCCCTTCTACCTCCATGTAG  
GAATGGATATTCTGCAGAGTCTGAAAAGTACACAAAAGTCAAGTGTGGGTACGCCACGCTGCATCACGT  
CATTGACAAGTCCACAGAAGACCGGATGGAGAGCTTCTTCTCAGTGAGACCTGTAATATTTGTATCTG  
CTGTTTGTGAAGACAATCCAGTACACAAGTCTGGAACCAGATACATGTTTACAACAGAGGGACACATTG  
TATCTGTGGATGAGCATCTTCGGGAATGCCATGGAAGGAATTTCTCTCTGAAGAGGGAGGGCAGGACCA  
AGGGGAAAGTCTGTGCACAGGCCGAAACCTCATGAGTAAAAAGTCACTCAACTCCAGCTCCAAC TGAAT  
CGTGTACCTGATGAGAGGAGTACTCCCTGCCCTTAAAGAGCATCTACATGCGACAGATTGACCAGATGG  
TTGGTTTGATT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG205655 representing NM\_014674  
 Red=Cloning site Green=Tags(s)

MQWRALVLLGLVLLRLGLHGVLWLVFGLGPMGFYQRFPLSFGFQRLRSPDGPASPTSGPVGRPGGVSGPS  
 WLQPPGTGAAQSPRKAPRRPGPGMCGPANWGYVLGGRGRGPDEYEKRYSGAFPPQLRAQMRDLARGMFVF  
 GYDNYMAHAFQDELNPIHCRGRGPDGRDPSNLNINDVLGNYSLTLVDALDTLAIMGNSSEFQKAVKLV  
 NTVSFDKSTVQVFEATIRVLGSLLSAHRITITDSKQPFQDMTIKDYDNELLYMAHDLAVRLLPAFENTKT  
 GIPYPRVNLKTGVPPDTNNETCTAGAGSLLVEFGILSRLLGDSTFEWVARRAVKALWNLRSNDTGLLGNV  
 VNIQTGHWVGKQSGLGAGLDSFYEYLLKSYILFGEKEDLEMFNAAYQSIQNYLRRGREACNEGEGDPPLY  
 VNVNMFSGQLMNTWIDSLQAFFPGLQVLIQDVEDAICLHAFYAIWKRYGALPERYNWQLQAPDVLFPPL  
 RPELVESTYLLYQATKNPFYLVHGMIDILQSLEKYTKVCKGYATLHHVIDKSTEDRMESFFLSETCKYLYL  
 LFDEDNPVHKS TRYMF TTEGHI VSVDEHLREL PWKEFFSEEGGQDQGGKSVHRPKPHELKVINSSSNCN  
 RVPDERRYSLPLKSIYMRQIDQMVGLI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

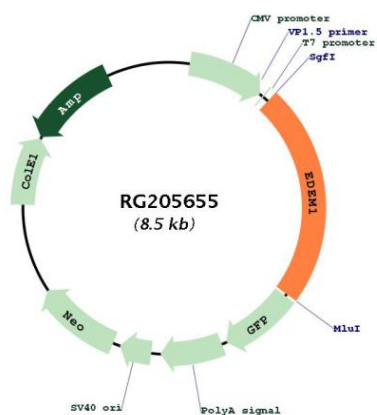


**ACCN:** NM\_014674

**ORF Size:** 1971 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_014674.1</a> , <a href="#">NP_055489.1</a>
<b>RefSeq Size:</b>	6072 bp
<b>RefSeq ORF:</b>	1974 bp
<b>Locus ID:</b>	9695
<b>UniProt ID:</b>	<a href="#">Q92611</a>
<b>Cytogenetics:</b>	3p26.1
<b>Domains:</b>	Glyco_hydro_47
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]

Product images:



Circular map for RG205655