OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG209777

Edem1 (NM_138677) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Edem1 (NM_138677) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Edem1
Synonyms:	A130059K23Rik; EDEM; mKIAA0212
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>MG209777 representing NM_138677
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAATGGCGAGCGCTTGTCCTGGGGCTGGTGCTGCTGCGCCTCGGCCTCCACGCGGTGCTCTGGTTGG
TCTTCGGGCTGGGGCCCAGCATGGGCTTCTACCAGCGGTTTCCGCTCAGCTTCGGCTTCCAGCGCTTGAG
GGACCCCGACGGCTCGGGGCCAGTTGGTCCGCCCGGAGGCCCGGCCTGGCTTCATCGGCCAAGGCGCGGA
ACGGAGGGGCGGCTTGAGACCCCGCCAGAGCCGGGACCGACGCCGGGACCGGGCGTGTGCGGCCCGGCGC
ACTGGGGCTATGCCCTGGGCGGCGGTGGCTGCGGCCCGGACGAGTACGAGCGGCGCTACAGCGGCGCCTT
CCCGCCGCAGCTGCGTGCCCAGATGCGCGACCTGGCGCGGGGCATGTTCGTCTTCGGCTATGACAACTAC
ATGGCGCACGCCTTTCCGCAGGACGAGCTCAACCCCATCTACTGCCGCGGCCGGGGGCCTGACCGCGGAG
ACCCTTCCAATCTGAACATCAATGATGTCCTAGGGAATTACTCTCTGACTCTGGTTGATGCCTTGGATAC
ATTGGCAATAATGGGAAATTCATCCGAGTTCCAGAAGGCAGTCAAGTTAGTGATCAACACTGTTTCATTT
GACAAAGATTCCACAGTCCAGGTCTTCGAAGCTACGATAAGGGTTCTGGGAAGCCTCCTTTCTGCTCACA
GAATAATAACTGATTCCAAACAGCCCTTTGGTGACATGACAATTGAGGATTATGATAATGAATTGTTGTA
CATGGCCCATGACTTGGCTGTGCGGCTCCTTCCAGCCTTTGAAAACACCAAGACAGGGATCCCCTATCCT
CGGGTGAATCTGAAGACAGGTGTTCCTCCTGACAGCAATAATGAGACCTGCACAGCGGGGGCCGGTTCTC
TCCTGGTGGAATTTGGGATTCTGAGCCGCCTGCTGGGGGATTCCACTTTTGAGTGGGTTGCCAGACGAGC
TGTGAAAGCCCTCTGGAACTTGCGGAGCAACGATACAGGATTATTAGGCAATGTTGTGAACATCCAGACA
GGCCATTGGGTTGGAAAGCAGAGTGGCTTGGGTGCTGGGCTGGATTCCTTCTATGAGTACCTCTTGAAAT
CTTACATTCTTTTTGGAGAAAAAGAAGATCTAGAGATGTTTAATGCTGCGTATCAGAGCATCCAGAGCTA
CCTGCGAAGAGGCCGGGAAGCCTGCAATGAAGGAGAAGGAGACCCACCGCTCTACGTCAACGTGAACATG
TTCAGTGGGCAGCTCATGAACACCTGGATTGACTCACTGCAGGCTTTCTTCCCTGGACTGCAGGTTCTGA
TAGGGGATGTGGAAGATGCCATCTGCCTACACGCCTTCTACTATGCCATATGGAAGCGGTACGGGGCCCT
CCCTGAGCGCTATAACTGGCAACTCCAGGCCCCTGATGTTCTCTTCTACCCTCTGAGACCAGAGCTAGTG
GAGTCCACATATCTCCTCTACCAGGCAACCAAGAATCCCTTCTACCTCCATGTAGGAATGGACATTCTGC
AGAGTCTTGAAAAATACACAAAAGTCAAATGTGGATATGCTACGCTGCATCACGTCATAGACAAGTCTAA
AGAAGACCGGATGGAAAGCTTCTTTCTCAGCGAGACTTGCAAATACTTGTATCTGCTATTTGATGAAGAG
AATCCAGTACACAAATCTGGAACCAGATACATGTTTACAACTGAGGGCCATATCATATCTGTGGACAAAC
GTCTTCGGGAATTGCCTTGGAAGGAATTCTTCTCTGAAGATGGGGAGCGGGACCAAGAGGAAAAGTTTGT
ACACAGACCTAAGTCTCAGGAGCTCAGAGTCATTAACTCCAGTTCTAATTGTAATCGTGTTCCTGATGAG
AGGAGATACTCCTTGCCCTTAAAGAGCATCTACATGCGCCAGATCGACCAGATGGTTGGCTTGATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209777 representing NM_138677
Red=Cloning site Green=Tags(s)

MQWRALVLGLVLLRLGLHAVLWLVFGLGPSMGFYQRFPLSFGFQRLRDPDGSGPVGPPGGPAWLHRPRRG
TEGRLETPPEPGPTPGPGVCGPAHWGYALGGGGCGPDEYERRYSGAFPPQLRAQMRDLARGMFVFGYDNY
MAHAFPQDELNPIYCRGRGPDRGDPSNLNINDVLGNYSLTLVDALDTLAIMGNSSEFQKAVKLVINTVSF
DKDSTVQVFEATIRVLGSLLSAHRIITDSKQPFGDMTIEDYDNELLYMAHDLAVRLLPAFENTKTGIPYP
RVNLKTGVPPDSNNETCTAGAGSLLVEFGILSRLLGDSTFEWVARRAVKALWNLRSNDTGLLGNVVNIQT
GHWVGKQSGLGAGLDSFYEYLLKSYILFGEKEDLEMFNAAYQSIQSYLRRGREACNEGEGDPPLYVNVNM
FSGQLMNTWIDSLQAFFPGLQVLIGDVEDAICLHAFYYAIWKRYGALPERYNWQLQAPDVLFYPLRPELV
ESTYLLYQATKNPFYLHVGMDILQSLEKYTKVKCGYATLHHVIDKSKEDRMESFFLSETCKYLYLLFDEE
NPVHKSGTRYMFTTEGHIISVDKRLRELPWKEFFSEDGERDQEEKFVHRPKSQELRVINSSSNCNRVPDE
RRYSLPLKSIYMRQIDQMVGLI

TRTRPLE - GFP Tag - V

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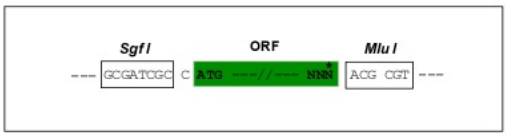
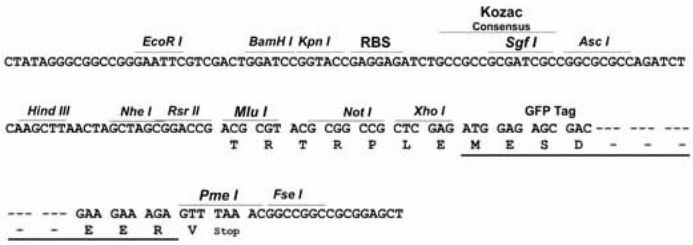
Restriction Sites: SgfI-MluI

Cloning Scheme:





ACCN: NM_138677

ORF Size: 1956 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_138677.2, NP_619618.1

RefSeq Size: 5858 bp

RefSeq ORF: 1959 bp

Locus ID: 192193

UniProt ID: Q925U4

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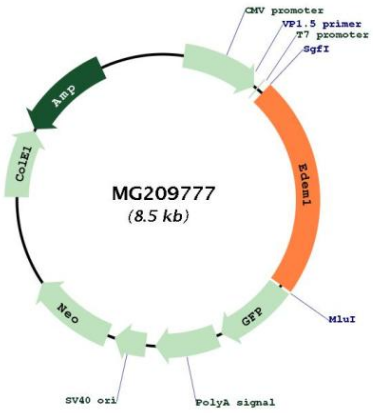
Cytogenetics: 6 E2

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]

Product images:



Circular map for MG209777

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