

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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCAATGGCGAGCGCTTGTCTGGGGCTGGTGTCTGCGCCTCGGCCCTCCACGCGGTGCTCTGGTTGG
 TCTTCGGGCTGGGGCCAGCATGGGCTTCTACCAGCGTTTCCGCTCAGCTTCGGCTTCCAGCGCTTGAG
 GGACCCCGACGGCTCGGGGCCAGTTGGTCCGCCCGGAGGCCCGGCCTGGCTTCATCGGCCAAGGCGCGGA
 ACGGAGGGGCGGCTTGAGACCCCGCAGAGCCGGGACCGACCGCGGGACCGGGCGTGTGCGGCCCGGCGC
 ACTGGGGCTATGCCCTGGGCGCGGTGGCTGCGGCCCGGACGAGTACGAGCGGCGCTACAGCGGCGCCTT
 CCCGCCGAGTGCCTGCCAGATGCGCGACCTGGCGCGGGCATGTTCTGCTTCGGCTATGACAACTAC
 ATGGCGCACGCCCTTCCGACGAGACGAGTCAACCCCATCTACTGCCGCGCGGGGGCTGACCGCGGAG
 ACCCTTCCAATCTGAACATCAATGATGTCTAGGGAATTACTCTGACTCTGGTTGATGCCTTGGATAC
 ATTGGCAATAATGGAAATTCATCCGAGTTCAGAAGGCAGTCAAGTTAGTGATCAACACTGTTTCAATT
 GACAAAGATTCCACAGTCCAGGTCTTCAAGCTACGATAAGGGTTCTGGGAAGCCTCTTTCTGCTCACA
 GAATAAATACTGATTCCAACAGCCCTTTGGTGACATGACAATTGAGGATTATGATAATGAATTGTTGTA
 CATGGCCCATGACTTGGCTGTGCGGCTCCTTCCAGCCTTTGAAAACACCAAGACAGGGATCCCTATCCT
 CGGGTGAATCTGAAGACAGGTGTTCTCCTGACAGCAATAATGAGACCTGCACAGCGGGGCGGTTCTC
 TCTGGTGGAAATTTGGGATTCTGAGCCGCTGCTGGGGGATTCCACTTTTGGTGGGTTGCCAGACGAGC
 TGTGAAAGCCCTCGAACTTGGGAGCAACGATACAGGATTATTAGGCAATGTTGTGAACATCCAGACA
 GGCCATTGGGTTGAAAGCAGAGTGGCTGGGTGCTGGGCTGGATTCTTCTATGAGTACCTCTTGAAT
 CTTACATTTCTTTGGAGAAAAAGAAGATCTAGAGATGTTAATGCTGCGTATCAGAGCATCCAGAGCTA
 CCTGCGAAGAGGCCGGGAAGCCTGCAATGAAGGAGAAGGAGACCCACCGCTCTACGTCAACGTGAACATG
 TTCAGTGGGACGCTCATGAACACCTGGATTGACTCACTGCAGGCTTTCTCCCTGGACTGCAGGTTCTGA
 TAGGGGATGTGGAAGATGCCATCTGCCTACACGCTTCTACTATGCCATATGGAAGCGGTACGGGCCCT
 CCCTGAGCGCTATAACTGGCACTCCAGGCCCTGATGTTCTTCTACCTCTGAGACCAGAGCTAGTG
 GAGTCCACATATCTCCTTACCAGGCAACCAAGAATCCCTTCTACCTCCATGTAGGAATGGACATCTGC
 AGAGTCTTAAAAATACACAAAAGTCAAATGTGGATATGCTACGCTGCATCACGTATAGACAAGTCTAA
 AGAAGACCGGATGAAAGCTTCTTCTCAGCGAGACTTGCAAATACTTGTATCTGCTATTTGATGAAGAG
 AATCCAGTACACAAATCTGGAACAGATACATGTTTACAACCTGAGGGCCATATCATATCTGTGGACAAAC
 GTCTTCGGGAATTCCTTGAAGGAATTTCTCTGAAGATGGGAGCGGGACCAAGAGGAAAAGTTTGT
 ACACAGACCTAAGTCTCAGGAGCTCAGAGTCAATTAACCTCAGTTCTAATTGTAATCGTGTTCCTGATGAG
 AGGAGATACTCCTTGCCCTAAAGAGCATCTACATGCGCCAGATCGACCAGATGGTTGGCTTGATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

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

MQWRALVLLGLVLLRLLGLHAVLWLVFGLGPMGFYQRFPLSFGFQRLRDPDGSVPVGGPPGPAWLHRPRRG
 TEGRLETPPEPGPTPGPVCGPAHWGYALGGGCGPDEYERRYSGAFPPQLRAQMRDLARGMVFVGYDNY
 MAHAFPQDELNPIYCRGRGPDGRDPSNLNINDVLGNYSLLVDALDTLAIMGNSSEFQKAVKLVINTVSF
 DKDSTVQVFEATIRVLGSLLSAHRITDTSKQPFQDMTIEDYDNELLYMAHDLAVRLLPAFENTKTGIPYP
 RVNLKTGVPPDSNETCTAGAGSLLVEFGILSRLLDSTFEWVARRAVKALWNLRSNDTGLLGNVNIQT
 GHWVGKQSGLGAGLDSFYEYLLKSYILFGEKEDLEMFNAAYQSIQSYLRRGREACNEGEGDPPPLYVNVNM
 FSGQLMNTWIDSLQAFFPGLQVLIGDVEDAICLHAFYAIWKRYGALPERYNWQLQAPDVLFYPLPELV
 ESTYLLYQATKNPFYLVHGMIDILQSLEKYTKVKCGYATLHHVIDKSKEDRMESFFLSETCKYLYLLFDEE
 NPVHKSTRYMFTTEGHIISVDKRLREL PWKEFFSEDGERDQEEKFVHRPKSQELRVINSSSNCNRVPDE
 RRYSLPLKSIYMRQIDQMVGLI

TRTRPLE - GFP Tag - V

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:	<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_138677.2 , NP_619618.1
RefSeq Size:	5858 bp
RefSeq ORF:	1959 bp
Locus ID:	192193
UniProt ID:	Q925U4
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]