

Product datasheet for **MC220111**

Edem1 (NM_138677) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Edem1 (NM_138677) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Edem1
Synonyms:	A130059K23Rik; EDEM; mKIAA0212
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220111 representing NM_138677
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAATGGCGAGCGCTTGTCTGGGGCTGGTGTCTGCGCCTCGGCCTCCACGCGGTGCTCTGGTTGG
 TCTTCGGGCTGGGGCCAGCATGGGCTTCTACCAGCGTTTCCGCTCAGCTTCGGCTTCCAGCGCTTGAG
 GGACCCCGACGGCTCGGGGCCAGTTGGTCCGCCGGAGGCCCGGCCTGGCTTCATCGGCCAAGGCGCGGA
 ACGGAGGGGCGGCTTGAGACCCCGCAGAGCCGGGACCGAGCCGGGACCGGGCGTGTGCGGCCCGGCGC
 ACTGGGGCTATGCCCTGGGCGCGGTGGCTGCGGCCCGGACGAGTACGAGCGGCGCTACAGCGGCGCCTT
 CCCGCCGAGTGCCTGCCAGATGCGCGACCTGGCGCGGGGCATGTTCTGCTTCGGCTATGACAACTAC
 ATGGCGCACGCCCTTCCGACGAGACGAGCTCAACCCCATCTACTGCCGCGGCCGGGGCCGCTGACCGCGGAG
 ACCCTTCCAATCTGAACATCAATGATGTCTAGGGAATTACTCTGACTCTGGTTGATGCCTTGGATAC
 ATTGGCAATAATGGAAATTCATCCGAGTTCAGAAGGCAGTCAAGTTAGTGATCAACACTGTTTCATTT
 GACAAAGATTCCACAGTCCAGGTCTTCAAGCTACGATAAGGGTTCTGGGAAGCCTCTTTCTGCTCACA
 GAATAATAACTGATTCCAACAGCCCTTTGGTGACATGACAATTGAGGATTATGATAATGAATTGTTGTA
 CATGGCCCATGACTTGGCTGTGCGGCTCCTTCCAGCCTTTGAAAACACCAAGACAGGGATCCCTATCCT
 CGGGTGAATCTGAAGACAGGTGTTCTCCTGACAGCAATAATGAGACCTGCACAGCGGGGCCGGTTCTC
 TCTGGTGGAAATTTGGGATTCTGAGCCGACTGCTGGGGGATTCCACTTTTGAGTGGGTGCCAGACGAGC
 TGTGAAAGCCCTCGAACTTGGGAGCAACGATACAGGATTATTAGGCAATGTTGTGAACATCCAGACA
 GGCCATTGGGTTGGAAAGCAGAGTGGCTGGGTGCTGGGCTGGATTCTTCTATGAGTACCTCTTGAAT
 CTTACATTTCTTTTGGAGAAAAAGAAGATCTAGAGATGTTAATGCTGCGTATCAGAGCATCCAGAGCTA
 CCTGCGAAGAGCGCGGAAGCCTGCAATGAAGGAGAAGGAGACCCACCGCTCTACGTCAACGTGAACATG
 TTCAGTGGGACGCTCATGAACACCTGGATTGACTCGCTGCAGGCTTTCTCCCTGGACTGCAGGTTCTGA
 TAGGGGATGTGGAAGATGCCATCTGCCTACACGCTTCTACTATGCCATATGGAAGCGGTACGGGCCCT
 CCCTGAGCGCTATAACTGGCAACTCCAGGCCCTGATGTTCTTCTACCTCTGAGACCAGAGCTAGTG
 GAGTCCACATATCTCTCTACCAGGCAACCAAGAATCCCTTCTACCTCCATGTAGGAATGGACATCTGC
 AGAGTCTTAAAAATACACAAAAGTCAAATGTGGATATGCTACGCTGCATCACGTATAGACAAGTCTAA
 AGAAGACCGGATGAAAGCTTTCTCTCAGCGAGACTTGCAAATACTTGTATCTGCTATTTGATGAAGAG
 AATCCAGTACACAAATCTGGAACAGATACATGTTTACAACCTGAGGGCCATATCATATCTGTGGACAAAC
 GTCTTCGGGAATTGCCTTGAAGGAATTTCTCTGAAGATGGGAGCGGGACCAAGAGGAAAAGTTTGT
 ACACAGACCTAAGTCTCAGGAGCTCAGAGTCAATTAACCTCAGTTCTAATTGTAATCGTGTTCCTGATGAG
 AGGAGATACTCCTTGCCCTAAAGAGCATCTACATGCGCCAGATCGACCAGATGGTTGGCTTGATT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_138677
- Insert Size:** 1959 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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](#)

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]