

Product datasheet for **MR209050**

Edem2 (NM_145537) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Edem2 (NM_145537) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Edem2
Synonyms:	9530090G24Rik; AI327354
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209050 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTTCCGGCTACTCATCCCGCTCGGCTCGTGTGCTGCTACCCCTGCACCATGGTGCGCCAG
 GCCCGACGGCACCGCGCCGACCCGCCCACTACAGGGAGCGAGTCAAGGCCATGTTCTACCACGCCTA
 CGACAGTTACCTGAAAAATGCCTTCCCTACGATGAGCTGAGACCTCTCACCTGTGATGGCAGCAGACC
 TGGGGCAGTTTTCTCTGACGCTAATTGATGCCCTGGACACCTTGTGATTTGGGGAATACCTCTGAAT
 TCCAAAGAGTAGTGGAGGTTCTCAGGACAATGTGGACTTTGATATCGACGTGAACGCCTCTGTGTTGCA
 AACCAACATCCGAGTGGTAGGAGGACTCCTTCTGCTCATCTCTTGTCAAAGAAGCCGGTGTGGAGGTG
 GAAGCCGGGTGGCCTTGTCTGGCCTCTCCTCAGGATGGCGGAGGAAGCAGCCCGAAACTCTCCAG
 CATTTCAGACCCACGGGCATGCCCTATGGAAGTGTGAACCTGCTTCATGGCGTGAACCTGGAGAGAC
 CCCTGTTACCTGTACAGCAGGATTTGGACCTTATTGTGAATTTGCTACCCTGAGCAGCTCACCGGT
 GACCCTGTGTTTGAAGATGTGGCCAGAGTGGCCCTGATGCGTCTCTGGGAGAGCCGGTACAGATATCGGGC
 TGGTTGGCAATCACATCGATGTGCTCACTGGCAAGTGGGTGGCCAGGATGCAGGCATCGGGGCTGGTGT
 GGATTCCTATTTTGTGACTGTTAAAAGGAGCCATCCTTCTTACAGGATAAGAACTCATGGCCATGTTT
 CTAGAGTACAACAAGCCATCCGGAATTACACGCACCTTCGATGACTGGTACCTCTGGGTGCAGATGTACA
 AGGGGACCGTGTCAATGCCTGTCTTCCAGTCTTGGAGGCCTACTGGCCTGGCCTTACAGACCTTATTGG
 AGACATTGACAAATGCCATGAGGACCTTCTCAACTACTACTGTATGGAAGCAGTTTGGGGGCTGCCA
 GAATTCTACAACATTCCTCAGGGATACACAGTGGAGAAGCGAGAAGGCTACCCACTCCGACCGGAGCTCA
 TCGAGAGCGCAATGTACCTCTACCGGCCACTGGGGATCCCACTCTTTAGAAGTGGGAGAGAGCTGT
 GGAATCCATTGAGAAAAATCAGCAAGGTGGAGTGTGGATTTGCCACGATCAAGGACCTCCGGGACCAAG
 CTTGACAACCGCATGGAGTCTTCTTCTGCTGAAACTGTGAAATACCTCTATCTTCTGTTCCACCCAA
 ACAACTTCATCCACAACATGGCTCCACCTTTGACTCTGTGATGACTCCCATGGGGAGTGCATCTAGG
 AGCCGGGGGCTACATCTTCAACACGGAGGCTCACCCATTGACCTGCTGCCTTGCCTGCTGCCGAGG
 CTCAAGGAGGAGCAGTGGGAAGTGGAGGACTTGATAAAGGAGTTCTACTCCCTCAAACAGAGCAGGCCAA
 AGAGAGCTCAGAGGAAGACAGTGGGTGGGGCCCTGGGAGCCCCAGTCAGGGCCAGCCACTCTTCTC
 ACCTGCAAACCAGCCAGGGAGAAGCAGCTGCCCGCAGCGAACCCCGTTCTCAGCTGCCCCAGCCAG
 CCCTTACCTCTAAGCTGGCATTGCTAGGCCAGGTTTTCTAGACTCTCA

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209050 protein sequence
 Red=Cloning site Green=Tags(s)

MPFRLLIPLGLVCVLLPLHHGAPGPDGTAPDPAHYRERVKAMFYHAYDSYLENAFPYDELRLPTCDGHDT
 WGSFSLTLIDALDTRLILGNTSEFQRVVEVLQDNVDFDIDVNASVFETNIRVVGILLSAHLLSKKAGVEV
 EAGWPCSGPLLRMAEEAARKLLPAFQTPGMPYGTVNLHGVNPGETPVTCTAGIGTFIVEFATLSSLTG
 DPVFEVARVALMRLWESRSDIGLVGNHIDVLTKWVAQDAGIGAGVDSYFEYLKGAILLQDKLMAMF
 LEYNKAIARNYTHFDDWYLWVQMYKGTVSMVPVFSLEAYWPGLQSLIGDIDNAMRFLNYYTVWKFGGLP
 EFYNIPQGYTVEKREGYPLRPELIESAMYLYRATGDPTLLELGRDAVESIEKISKVECGFATIKDLRDHK
 LDNRMESFFLAETVKYLYLLFHPNNFIHNNGSTFDSVMTPHGECILGAGGYIFNTEAHPIDPAALHCCRR
 LKEEQWEVEDLIKEFYSLKQSRPKRAQRKTVRSGPWEQSGPATLFSANQPQPREKQPARQRTPLLSQPSQ
 PFTSKLALLGQVFLDSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_145537

ORF Size: 1734 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_145537.1](#), [NP_663512.1](#)

RefSeq Size: 2294 bp

RefSeq ORF: 1734 bp

Locus ID: 108687

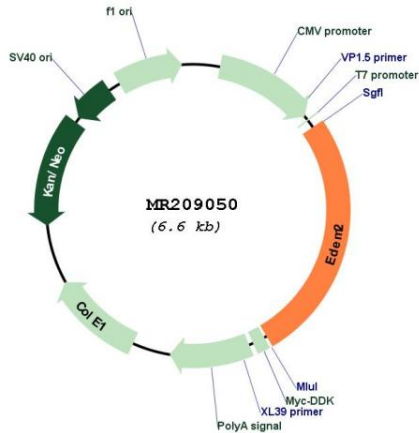
UniProt ID: [Q8BJT9](#)

Cytogenetics: 2 H1

MW: 64.7 kDa

Gene Summary: Involved in the endoplasmic reticulum-associated degradation (ERAD) pathway that targets misfolded glycoproteins for degradation in an N-glycan-dependent manner (PubMed:15579471, PubMed:25655076). May initiate ERAD by promoting the first mannose trimming step of ERAD substrates, from Man9GlcNAc2 to Man8GlcNAc2 (By similarity). Seems to recognize and bind to exposed hydrophobic regions in target proteins (PubMed:25655076). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209050