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Product datasheet for RC222885

EDEM3 (NM_025191) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EDEM3 (NM_025191) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EDEM3
Synonyms:	C1orf22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC222885 representing NM_025191
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGAAGCCGGCGGCCGGGGCTGTGGGTCCCCGGTTCCCCAGCGAGCGCGATGGAGACTAGTGGCGG
CGACGGCCGCGTTCTGCCTGGTGTCGGCCACCTCCGTGTGGACGGCGGGGGCCGAGCCCATGAGTAGGGA
GGAGAAACAGAAGCTTGGGAATCAAGTACTGGAAATGTTTGATCATGCTTATGGTAACTATATGGAACAT
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GTGACGTTGATGATGCCTTGGGAAAATTTTCTCTGACACTGATTGATTCTTTGGACACTCTTGTGGTTTT
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CTTCTAATCCCACAGAAAACCATGAGACTACAAATCTTAATGGTGAATGTACAGATTTAGATAACCAGCT
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GACTCCATATTAGCAGACTGGAATGAAGATATAGAAGCATTTGAAATGATGGAGAAGGATGAGCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222885 representing NM_025191
Red=Cloning site Green=Tags(s)

MSEAGGRGCGSPVPQRARWRLVAATAAFCLVSATSVWTAGAEPMSREEKQKLGNQVLEMFDHAYGNYMEH
AYPADELMPLTCRGRVRGQEPSRGDVDDALGKFSLTLIDSLDTLVVLNKTKEFEDAVRKVLRDVNLDNDV
VVSVFETNIRVLGGLLGGHSLAIMLKEKGEYMQWYNDELLQMAKQLGYKLLPAFNTTSGLPYPRINLKFG
IRKPEARTGTETDTCTACAGTLILEFAALSRFTGATIFEEYARKALDFLWEKRQRSSNLVGVTININTGD
WVRKDSGVGAGIDSYYEYLLKAYVLLGDDSFLERFNTHYDAIMRYISQPPLLLDVHIHKPMLNARTWMDA
LLAFFPGLQVLKGDIRPAIETHEMLYQVIKKHNFLPEAFTTDFRVHWAQHPLRPEFAESTYFLYKATGDP
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TEAHLLPLWLSTTNQSISKKNTTSEYTELDDSNFDWTCPNTQILFPNDPLYAQSIREPLKNVVDKSCPRG
IIRVEESFRSGAKPPLRARDFMATNPEHLEILKKMGVSLIHLKDGRVQLVQHAIQAASSIDAEDGLRFMQ
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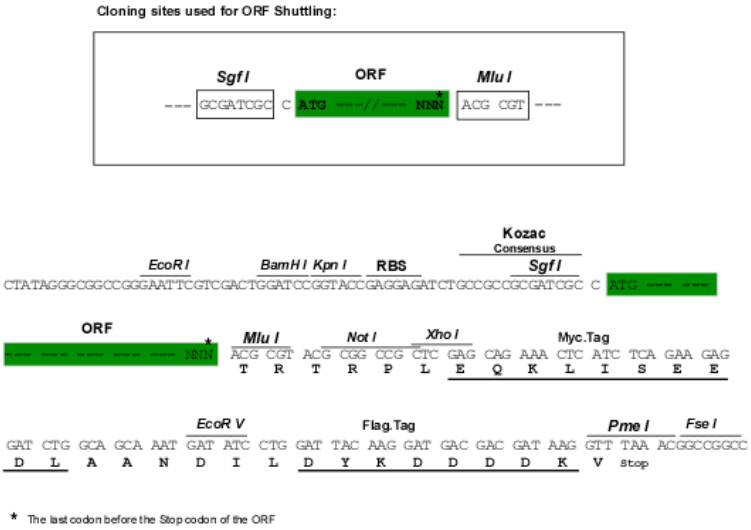
EGSIILDAIREYEEVEVLLSDKAKDRDPEMENEEQPSSENDSQNQSGEQISSSSQEVDLVDQESSEENSL
NSHPESLSLADMDNAASISPSEQTSNPTENHETTNLNGECTDLDNQLQEQSETEEDSNPNVSWGKKVQPI
DSILADWNEDIEAFEMMEKDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2162_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

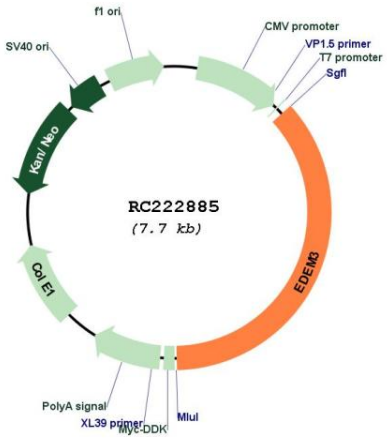


ACCN: NM_025191

ORF Size: 2796 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_025191.4
RefSeq Size:	6670 bp
RefSeq ORF:	2799 bp
Locus ID:	80267
UniProt ID:	Q9BZQ6
Cytogenetics:	1q25.3
Domains:	Glyco_hydro_47, PA
MW:	105.1 kDa
Gene Summary:	Quality control in the endoplasmic reticulum (ER) ensures that only properly folded proteins are retained in the cell through recognition and degradation of misfolded or unassembled proteins. EDEM3 belongs to a group of proteins that accelerate degradation of misfolded glycoproteins in the ER (Hirao et al., 2006 [PubMed 16431915]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC222885