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Product datasheet for RC200124

C20orf31 (EDEM2) (NM_018217) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C20orf31 (EDEM2) (NM_018217) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C20orf31
Synonyms:	bA4204.1; C20orf31; C20orf49
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC200124 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTTTCCGGCTGCTCATCCCGCTCGGCCTCCTGTGCGCGCTGCTGCCTCAGCACCATGGTGCGCCAG
GTCCCGACGGCTCCGCGCCAGATCCCGCCCACTACAGGGAGCGAGTCAAGGCCATGTTCTACCACGCCTA
CGACAGCTACCTGGAGAATGCCTTTCCCTTCGATGAGCTGCGACCTCTCACCTGTGACGGGCACGACACC
TGGGGCAGTTTTTCTCTGACTCTAATTGATGCACTGGACACCTTGCTGATTTTGGGGAATGTCTCAGAAT
TCCAAAGAGTGGTTGAAGTGCTCCAGGACAGCGTGGACTTTGATATTGATGTGAACGCCTCTGTGTTTGA
AACAAACATTCGAGTGGTAGGAGGACTCCTGTCTGCTCATCTGCTCTCCAAGAAGGCTGGGGTGGAAGTA
GAGGCTGGATGGCCCTGTTCCGGGCCTCTCCTGAGAATGGCTGAGGAGGCGGCCCGAAAACTCCTCCCAG
CCTTTCAGACCCCCACTGGCATGCCATATGGAACAGTGAACTTACTTCATGGCGTGAACCCAGGAGAGAC
CCCTGTCACCTGTACGGCAGGGATTGGGACCTTCATTGTTGAATTTGCCACCCTGAGCAGCCTCACTGGT
GACCCGGTGTTCGAAGATGTGGCCAGAGTGGCTTTGATGCGCCTCTGGGAGAGCCGGTCAGATATCGGGC
TGGTCGGCAACCACATTGATGTGCTCACTGGCAAGTGGGTGGCCCAGGACGCAGGCATCGGGGCTGGCGT
GGACTCCTACTTTGAGTACTTGGTGAAAGGAGCCATCCTGCTTCAGGATAAGAAGCTCATGGCCATGTTC
CTAGAGTATAACAAAGCCATCCGGAACTACACCCGCTTCGATGACTGGTACCTGTGGGTTCAGATGTACA
AGGGGACTGTGTCCATGCCAGTCTTCCAGTCCTTGGAGGCCTACTGGCCTGGTCTTCAGAGCCTCATTGG
AGACATTGACAATGCCATGAGGACCTTCCTCAACTACTACACTGTATGGAAGCAGTTTGGGGGGCTCCCG
GAATTCTACAACATTCCTCAGGGATACACAGTGGAGAAGCGAGAGGGCTACCCACTTCGGCCAGAACTTA
TTGAAAGCGCAATGTACCTCTACCGTGCCACGGGGGATCCCACCCTCCTAGAACTCGGAAGAGATGCTGT
GGAATCCATTGAAAAAATCAGCAAGGTGGAGTGCGGATTTGCAACAATCAAAGATCTGCGAGACCACAAG
CTGGACAACCGCATGGAGTCGTTCTTCCTGGCCGAGACTGTGAAATACCTCTACCTCCTGTTTGACCCAA
CCAACTTCATCCACAACAATGGGTCCACCTTCGACACGGTGATCACCCCCTATGGGGAGTGCATCCTGGG
GGCTGGGGGGTACATCTTCAACACAGAAGCTCACCCCATCGACCCTGCCGCCCTGCACTGCTGCCAGAGG
CTGAAGGAAGAGCAGTGGGAGGTGGAGGACTTGATGAGGGAATTCTACTCTCTCAAACGGAGCAGGTCGA
AATTTCAGAAAAACACTGTTAGTTCGGGGCCATGGGAACCTCCAGCAAGGCCAGGAACACTCTTCTCACC
AGAAAACCATGACCAGGCAAGGGAGAGGAAGCCTGCCAAACAGAAGGTCCCACTTCTCAGCTGCCCCAGT
CAGCCCTTCACCTCCAAGTTGGCATTACTGGGACAGGTTTTCCTAGACTCCTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200124 protein sequence
Red=Cloning site Green=Tags(s)

MPFRLLIPLGLLCALLPQHHGAPGPDGSAPDPAHYRERVKAMFYHAYDSYLENAFPFDELRPLTCDGHDT
WGSFSLTLIDALDTLLILGNVSEFQRVVEVLQDSVDFDIDVNASVFETNIRVVGGLLSAHLLSKKAGVEV
EAGWPCSGPLLRMAEEAARKLLPAFQTPTGMPYGTVNLLHGVNPGETPVTCTAGIGTFIVEFATLSSLTG
DPVFEDVARVALMRLWESRSDIGLVGNHIDVLTGKWVAQDAGIGAGVDSYFEYLVKGAILLQDKKLMAMF
LEYNKAIRNYTRFDDWYLWVQMYKGTVSMPVFQSLEAYWPGLQSLIGDIDNAMRTFLNYYTVWKQFGGLP
EFYNIPQGYTVEKREGYPLRPELIESAMYLYRATGDPTLLELGRDAVESIEKISKVECGFATIKDLRDHK
LDNRMESFFLAETVKYLYLLFDPTNFIHNNGSTFDTVITPYGECILGAGGYIFNTEAHPIDPAALHCCQR
LKEEQWEVEDLMREFYSLKRSRSKFQKNTVSSGPWEPPARPGTLFSPENHDQARERKPAKQKVPLLSCPS
QPFTSKLALLGQVFLDSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6199_d04.zip

Restriction Sites: SgfI-MluI

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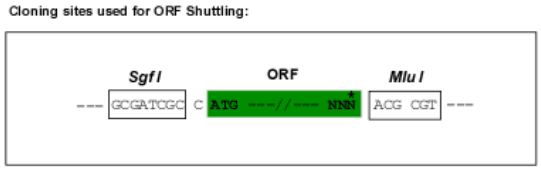
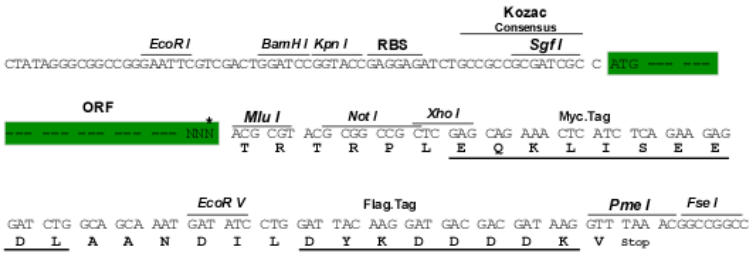
Cloning Scheme:





* The last codon before the Stop codon of the ORF

ACCN: NM_018217

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_018217.3

RefSeq Size: 1918 bp

RefSeq ORF: 1737 bp

Locus ID: 55741

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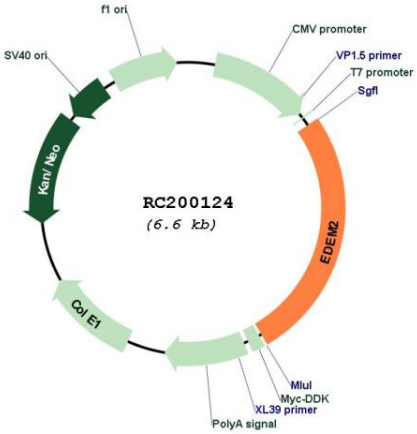
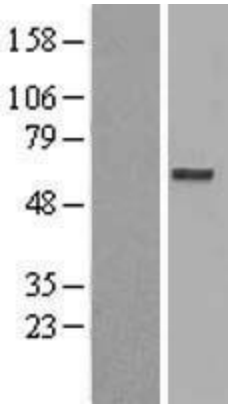
UniProt ID:	Q9BV94
Cytogenetics:	20q11.22
Domains:	Glyco_hydro_47
Protein Families:	Secreted Protein
MW:	64.8 kDa
Gene Summary:	In the endoplasmic reticulum (ER), misfolded proteins are retrotranslocated to the cytosol and degraded by the proteasome in a process known as ER-associated degradation (ERAD). EDEM2 belongs to a family of proteins involved in ERAD of glycoproteins (Mast et al., 2005 [PubMed 15537790]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC200124



Western blot validation of overexpression lysate (Cat# [LY402658]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200124 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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