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Product datasheet for RC202321

EDC3 (NM_025083) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EDC3 (NM_025083) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EDC3
Synonyms:	hYjeF_N2-15q23; LSM16; MRT50; YJDC; YJEFN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC202321 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTACAGATTGGCTGGGAAGTATTGTGTCCATCAATTGTGGAGATAGCTTGGGTGTCTATCAGGGAA
GAGTGTCAGCTGTGGATCAGGTCAGCCAGACCATTTCTCTCACCCGGCCTTTCCATAATGGAGTGAAGTG
TCTTGTTCCAGAAGTCACCTTCAGGGCAGGTGACATTACGGAGTTAAAAATTCTGGAGATACCAGGACCT
GGAGACAACCAACATTTTGGAGACCTTCATCAAACAGAATTAGGCCCCTCTGGTGCTGGCTGCCAAGTGG
GCATCAATCAGAATGGCACAGGCAAGTTTGTCAAGAAGCCAGCCTCTTCCAGCAGTGCCCCTCAGAATAT
CCCTAAGAGGACAGATGTGAAGAGCCAGGATGTTGCCGTTTCCCCGCAGCAGCAACAGTGCTCAAAGAGC
TATGTCGACAGGCACATGGAATCCTTGAGTCAGTCCAAAAGTTTCCGTCGTCGGCACAACTCCTGGTCAT
CTAGTAGCAGGCACCCAAATCAGGCAACTCCCAAGAAAAGTGGTTTAAAGAATGGCCAGATGAAGAATAA
AGATGACGAGTGCTTCGGGGATGATATTGAGGAGATCCCAGACACAGATTTTGATTTTGAAGGGAACCTG
GCTCTTTTTGACAAGGCAGCTGTGTTTGAGGAGATTGATACCTATGAAAGGAGAAGTGGTACCCGTTCCC
GGGGCATCCCAAATGAAAGGCCCACTCGGTACCGCCATGATGAGAACATCTTGGAGTCCGAGCCCATTGT
CTATCGACGGATCATAGTGCCCCACAACGTGAGCAAGGAGTTCTGCACGGACTCTGGCCTGGTTGTCCCA
AGTATTTCCTATGAGCTGCATAAAAAGCTGTTGTCCGTGGCTGAGAAGCATGGGCTGACCCTTGAGCGGA
GACTGGAGATGACAGGTGTGTGTGCCAGTCAGATGGCACTGACCCTCCTCGGAGGACCTAACAGGTTGAA
TCCCAAAAATGTTCACCAGAGGCCTACAGTGGCTCTACTGTGTGGACCTCATGTGAAGGGGGCTCAGGGT
ATCAGCTGTGGAAGGCACCTAGCCAACCATGATGTCCAGGTCATCCTTTTCCTGCCCAATTTTGTCAAGA
TGTTGGAATCTATCACCAATGAGCTGTCGCTCTTCAGCAAGACCCAAGGCCAACAAGTGTCTAGCCTCAA
AGATCTGCCCACTAGCCCTGTGGACCTGGTCATCAACTGCCTGGATTGCCCTGAGAACGTCTTCCTGCGC
GATCAACCCTGGTACAAGGCAGCTGTGGCCTGGGCCAACCAGAACCGGGCACCAGTACTCAGCATAGACC
CTCCTGTGCATGAAGTCGAACAGGGCATTGATGCCAAATGGTCACTGGCACTGGGCCTGCCTCTGCCACT
GGGGGAGCACGCAGGCCGTATCTATTTGTGCGACATTGGCATTCCCCAGCAGGTCTTCCAGGAGGTGGGC
ATCAACTACCACTCGCCCTTTGGCTGCAAGTTTGTTATCCCACTGCACTCTGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202321 protein sequence
Red=Cloning site Green=Tags(s)

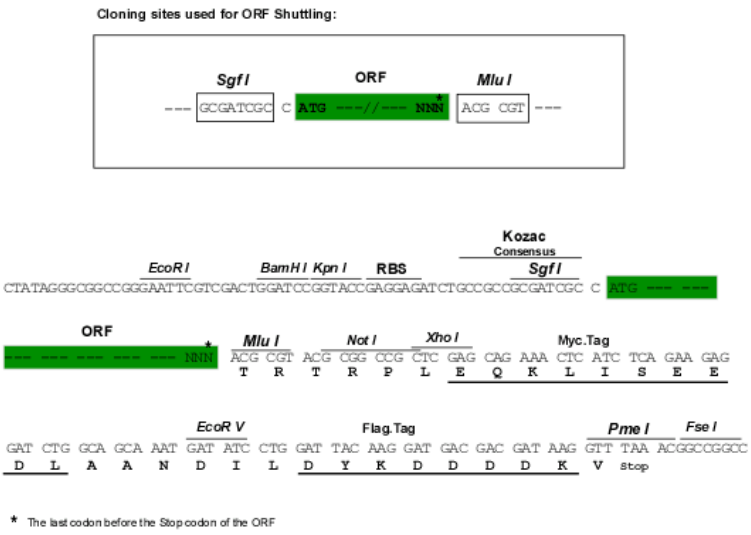
MATDWLGSIVSINCGDSLGVYQGRVSAVDQVSQTISLTRPFHNGVKCLVPEVTFRAGDITELKILEIPGP
GDNQHFGDLHQTELGPSGAGCQVGINQNGTGKFVKKPASSSSAPQNIPKRTDVKSQDVAVSPQQQQCSKS
YVDRHMESLSQSKSFRRRHNSWSSSSRHPNQATPKKSGLKNGQMKNKDDECFGDDIEEIPDTDFDFEGNL
ALFDKAAVFEEIDTYERRSGTRSRGIPNERPTRYRHDENILESEPIVYRRIIVPHNVSKEFCTDSGLVVP
SISYELHKKLLSVAEKHGLTLERRLEMTGVCASQMALTLLGGPNRLNPKNVHQRPTVALLCGPHVKGAQG
ISCGRHLANHDVQVILFLPNFVKMLESITNELSLFSKTQGQQVSSLKDLPTSPVDLVINCLDCPENVFLR
DQPWYKAAVAWANQNRAPVLSIDPPVHEVEQGIDAKWSLALGLPLPLGEHAGRIYLCDIGIPQQVFQEVG
INYHSPFGCKFVIPLHSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6308_f09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025083

ORF Size: 1524 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_025083.5

RefSeq Size: 3781 bp

RefSeq ORF: 1527 bp

Locus ID: 80153

UniProt ID: Q96F86

Cytogenetics: 15q24.1

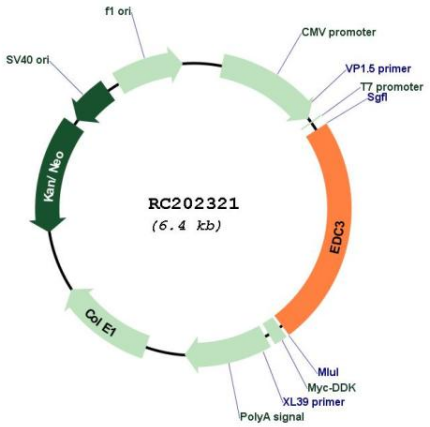
Domains: YjeF_N

Protein Pathways: RNA degradation

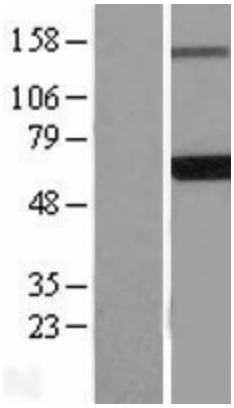
MW: 56.1 kDa

Gene Summary: This gene encodes a protein that is important in mRNA degradation. The encoded protein is a component of a decapping complex that promotes efficient removal of the monomethylguanosine (m7G) cap from mRNAs, as part of the 5' to 3' mRNA decay pathway. Mutations in this gene have been identified in human patients with an autosomal recessive form of intellectual disability. [provided by RefSeq, May 2017]

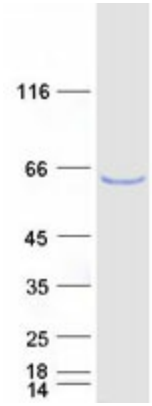
Product images:



Circular map for RC202321



Western blot validation of overexpression lysate (Cat# [LY428098]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC227114] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EDC3 protein (Cat# [TP302321]). The protein was produced from HEK293T cells transfected with EDC3 cDNA clone (Cat# RC202321) using MegaTran 2.0 (Cat# [TT210002]).