

Product datasheet for **RC227114**

EDC3 (NM_001142444) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EDC3 (NM_001142444) 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:

>RC227114 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTACAGATTGGCTGGGAAGTATTGTGTCCATCAATTGTGGAGATAGCTTGGGTGTCTATCAGGGAA
 GAGTGTACAGTGTGGATCAGGTCAGCCAGACCATTCTCTCACCCGGCCTTCCATAATGGAGTGAAGTG
 TCTTGTTCCAGAAGTCACTTCAGGGCAGGTGACATTACGGAGTTAAAAATTCTGGAGATACCAGGACCT
 GGAGACAACCAACATTTTGGAGACCTTCATCAAACAGAATTAGGCCCTCTGGTGTGGCTGCCAAGTGG
 GCATCAATCAGAATGGCACAGGCAAGTTTGTCAAGAAGCCAGCCTCTCCAGCAGTGCCCTCAGAATAT
 CCCTAAGAGGACAGATGTGAAGAGCCAGGATGTTGCCGTTTCCCGCAGCAGCAACAGTGTCAAAGAGC
 TATGTCGACAGGCACATGGAATCCTTGAGTCAGTCCAAAAGTTCCGTCGTCGGCACAACCTCTGGTGT
 CTAGTAGCAGGCCACCAATCAGGCACTCCCAAGAAAAGTGGTTTAAAGAATGGCCAGATGAAGAATAA
 AGATGACGAGTGTTCGGGGATGATATTGAGGAGATCCCAGACACAGATTTTGATTTTGAAGGGAACCTG
 GCTCTTTTTGACAAGGCAGCTGTGTTTGAAGGAGATTGATACCTATGAAAGGAGAAGTGGTACCCGTTCCC
 GGGCATCCCAAATGAAAGGCCACTCGGTACCGCATGATGAGAACATCTTGGAGTCCGAGCCATTGT
 CTATCGACGGATCATAGTGCCCCACAACGTGAGCAAGGAGTTCTGCACGGACTCTGGCCTGGTTGTCCCA
 AGTATTTCCATGAGCTGCATAAAAAGCTGTTGTCCGTGGCTGAGAAGCATGGGCTGACCCTTGAGCGGA
 GACTGGAGATGACAGGTGTGTGTGCCAGTCAGATGGCACTGACCCTCCTCGGAGGACCTAACAGGTTGAA
 TCCCAAAAATGTTACCAGAGGCCTACAGTGGCTCTACTGTGTGGACCTCATGTGAAGGGGGCTCAGGT
 ATCAGCTGTGGAAGGCACCTAGCCAACCATGATGTCCAGTTCATCCTTTTCTGCCCAATTTTGTCAAGA
 GTTTGGAATCTATCAACATGAGCTGTGCTCTTCAGCAAGACCAAGGCCAACAAGTGTCTAGCCTCAA
 AGATCTGCCACTAGCCCTGTGGACCTGGTCATCAACTGCCTGGATTGCCCTGAGAACGTCTTCTGCGC
 GATCAACCCTGGTACAAGGCAGCTGTGGCTGGGCAACCAAGCCAGGACTACTAGCATAGACC
 CTCTGTGCATGAAGTCGAACAGGGCATTGATGCCAAATGGTCACTGGCACTGGGCTGCCTCTGCCACT
 GGGGGAGCACGCAGGCCGTATCTATTTGTGCGACATTGGCATTCCCAGCAGGTCTTCCAGGAGTGGGG
 ATCAACTACCCTCGCCCTTGGCTGCAAGTTGTTATCCCACTGCACTCTGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227114 protein sequence
 Red=Cloning site Green=Tags(s)

MATDWLGSIVSINCGDSLGVYQGRVSAVDQVSQTIISLTRPFHNGVKLVPEVTFRAGDITELKILEIPGP
 GDNQHFGLDHLQTELGPSGAGCQVGINQGTGKFKKPASSSSAPQNIIPKRTDVKSQDVAVSPQQQCCKS
 YVDRHMESLSQSKSFRRRHNSWSSSRHPNQATPKKSGLNQGMKNKDDECFGDDIEEIPDITDFEGNL
 ALFDKAAVFEEIDTYERRSGTRSRGIPNERPTRYRHENILESEPIVYRRIIVPHNVSKEFCTDSGLVVP
 SISELHKKLLSVAEKHGLTLERRLEMTGVCASQMALTLGGPNRLNPKNVHQRPTVALLCGPHVKAQG
 ISCGRHLANHDVQVILFLPNFVKMLESITNELSLFSKTQQQVSSLKDLPTSPVDLVINCLDCPENVFLR
 DQPWYKAAVAVANQNRPVLSIDPPVHEVEQGIDAKWSLALGLPLPLGEHAGRIYLCDIGIPQQVFQEVG
 INYHSPFGCKFVIPLHSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

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

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001142444

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_001142444.3](#)

RefSeq Size: 3871 bp

RefSeq ORF: 1527 bp

Locus ID: 80153

UniProt ID: [Q96F86](#)

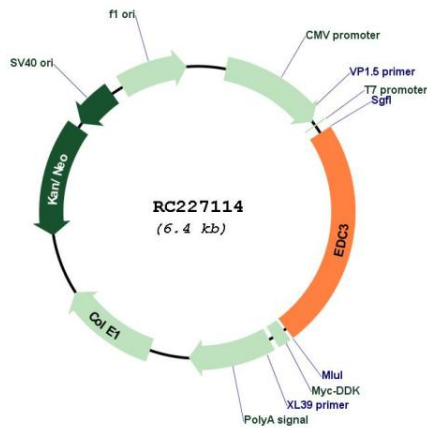
Cytogenetics: 15q24.1

Protein Pathways: RNA degradation

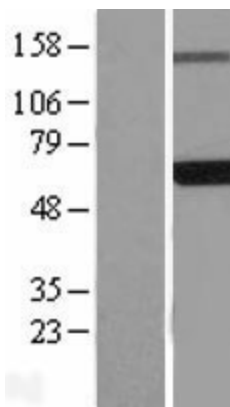
MW: 56.1 kDa

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]

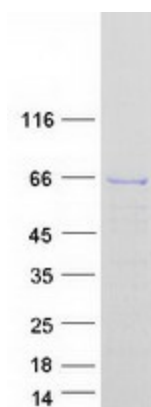
Product images:



Circular map for RC227114



Western blot validation of overexpression lysate (Cat# [LY428098]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected 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# [TP327114]). The protein was produced from HEK293T cells transfected with EDC3 cDNA clone (Cat# RC227114) using MegaTran 2.0 (Cat# [TT210002]).