

## Product datasheet for **SC110646**

### EDC3 (NM\_025083) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EDC3 (NM_025083) Human Untagged Clone
Tag:	Tag Free
Symbol:	EDC3
Synonyms:	hYjeF_N2-15q23; LSM16; MRT50; YJDC; YJEFN2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC110646 sequence for NM\_025083 edited (data generated by NextGen Sequencing)

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ATGGCTACAGATTGGCTGGGAAGTATTGTGCCATCAATTGTGGAGATAGCTTGGGTGTC
TATCAGGGAAGAGTGTACAGCTGTGGATCAGGTCAGCCAGACCATTCTCTACCCGGCCT
TTCCATAATGGAGTGAAGTGTCTGTCCAGAAGTCACCTTCAGGGCAGGTGACATTACG
GAGTTAAAAATTCTGGAGATACCAGGACCTGGAGACAACCAACATTTTGGAGACCTTCAT
CAACAGAAATTAGGCCCTCTGGTGTCCAAAGTGGGCATCAATCAGAATGGCACA
GGCAAGTTTGTCAAGAAGCCAGCCTCTTCCAGCAGTGCCCTCAGAATATCCCTAAGAGG
ACAGATGTGAAGAGCCAGGATGTTGCCGTTTCCCGCAGCAGCAACAGTGCTCAAAGAGC
TATGTGCGACAGGCACATGGAATCCTTGAGTCAGTCCAAAAGTTTCCGTCGTCGGCACAAC
TCCTGGTCATCTAGTAGCAGGCACCCAAATCAGGCAACTCCCAAGAAAAGTGGTTAAAG
AATGGCCAGATGAAGAATAAAGATGACGAGTGCTTCGGGGATGATATTGAGGAGATCCCA
GACACAGATTTTGATTTTGAAGGGAACCTGGCTCTTTTGAACAAGGCAGCTGTGTTGAG
GAGATTGATACCTATGAAAGGAGAAGTGGTACCCGTTCCCGGGGCATCCCAAATGAAAGG
CCCCTCGGTACCGCCATGATGAGAACATCTTGGAGTCCGAGCCATTGTCTATCGACGG
ATCATAGTGCCCCACAAGTGAGCAAGGAGTTCTGCACGACTCTGGCCTGGTTGCCCA
AGTATTTCTATGAGCTGCATAAAAAGCTGTTGTCCGTGGCTGAGAAGCATGGGCTGACC
CTTGAGCGGAGACTGGAGATGACAGGTGTGTGTCAGTCAGATGGCACTGACCCCTCTC
GGAGGACCTAACAGGTTGAATCCCAAAAATGTTCAACAGAGGCCACAGTGGCTCTACTG
TGTGGACCTCATGTGAAGGGGGCTCAGGATACAGCTGTGGAAGGCACCTAGCCAACCAT
GATGTCAGGTCATCCTTTTCTGCCAATTTTGTCAAGATGTTGGAATCTATACCAAT
GAGCTGTCGCTCTTCAGCAAGACCCAAGGCCAACAAGTGTCTAGCCTCAAAGATCTGCC
ACTAGCCCTGTGGACCTGGTCATCAACTGCCTGGATTGCCCTGAGAAGCTCTTCTCGCG
GATCAACCCTGGTACAAGGCAGCTGTGGCCTGGGCCAACCAAGAACCAGGACCAGTACTC
AGCATAGACCCTCTGTGCATGAAGTCAAGAGGCATTGATGCCAAATGGTCACTGGCA
CTGGGCTGCCTCTGCCACTGGGGGAGCACGCAGGCCGTATCTATTTGTGCGACATTGGC
ATTCCCCAGCAGGTCTTCCAGGAGGTGGGCATCAACTACCACTCGCCCTTTGGCTGCAAG
TTTGTATCCCACTGCACTCTGCTTAG
    
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Clone variation with respect to NM\_025083.3

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_025083 unedited

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NGTTCNCATTTGTATACGACTCCTATAGGGCGGCCGCGATTTCGGCACGAGGGCCGATGCT
GTGGGGGTGGGCGTGGAGAGAATTCTTCTGTGGGTCTCTGGTGTGAGTGGTCCGCTTG
GTGTGGTGTGCGGAGGAGCTCCAGGCCGTCGGCGCGGAGTGGTCTCACGTGTGAAACAT
GGCTACAGATTGGCTGGGAAGTATTGTGTCCATCAATTGTGGAGATAGCTTGGGTGTCTA
TCAGGGAAGAGTGTGAGTGTGGATCAGGTCAGCCAGACCAATTTCTCTACCCGGCCTTT
CCATAATGGAGTGAAGTGTCTTGTCCAGAAGTACCTTCAGGGCAGGTGACATTACGGA
GTTAAAAATTCTGGAGATACCAGGACCTGGAGACAACCAACATTTTGGAGACCTTCATCA
AACAGAATTAGGCCCTCTGGTGTGGCTGCCAAGTGGGCATCAATCAGAATGGCACAGG
CAAGTTTGTCAAGAAGCCAGCCTCTTCCAGCAGTGCCCTCAGAATATCCCTAAGAGGAC
AGATGTGAAGAGCCAGGATGTTGCCGTTTCCCGCAGCAGCAACAGTGCTCAAAGAGCTA
TGTGCGACAGGCACATGGAATCCTTGAGTCAGTCCAAAAGTTTCCGTCGTCGGCACAACCTC
CTGGTCATCTAGTAGCAGGCACCCAAATCAGGCAACTCCCAAGAAAAGTGGTTTANAGAAT
GGCCAGATGAAGAATAAAGATGACGAGTGCTTCGGGGATGATATGGAGGAGATCCAGAC
CCAGATTTTGAAGGGAACCTGGCCTCTTTTTCAGAGGCAGCTGTGTTTTGAGGA
GATTGATCCCTATGAAAGGAGAAGTGGGTACCCGTTCCCGGGGCATTCCCAATGAAAGGC
CCTACTGTAC
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_025083 unedited GGCTTTTCAGCTTTCTTTNCAGTGGCTGGTTGTTTGGTTGCCCTAAGAGCTGCATGAGTGC TAGGCTTCACCACGTGACTGGGGGCCCTTGGGAACTGGTACTATGGGCAGGATGCCCC TGAAAAGAAGTGAAGACAGAGGAATCATACTTCTCTTTAATACCTCTGGGGAAGGCCAG GCTAAGGATGAGGGCAGGGACCAGTCCCAGTCCCCCTGGGGAGAGAAGAGGGAGAAGCT TGGGCACAAAACCTCCAGTGGCCCTGCAAGGCTATCATCCCTGGATCTTGCTGGAGTGGAC AGTCTTTCTGGGCCAGGGTTGTTCTAGCTTGTCTCACTGTACCTAATCAGGGGGCCTAA CTGCATTAACAGGCAGCCAGAACCTACCTACCAAAAAGCCTGTAACCTAGACTGCTCCTC AGATTTTGGCCAAGAGAGGGCCCGCTTGGGAGCTGCTTGGCCCTGAGAGTGAGCAGAG GCTCAGAGAATACACAGCACAAGGGTTACAGTCCCTGGCCTCTTCCCATCGCTGGAGACA ATTTAAGACTGAAGGGAAGATGAGAGGAGGGGCCAGCCCTCTACCTGGCTCATCTGCTT CTGGCTATGTTTCTACAAGGGAAGTGATAACAGCCTGAAACCCGTGGTACCAGGGCCTAC CCTATGTCCACAATCCTTGGTGAGCCCTTCTGTCCACCCATTACCCGCTCAGCCAGCCT GGGCAGACACAGAGCAGAAGCAGCCTGAAGCCCTGAAGCAGGCTTAAACACAAGTCTTG ACAGGATCCCTGCCAGGATTCAGGGTAGATCCTGTTCTCCAGCCTCCAGGCTANAGCTG GCACCTTAGATTGAGCTCANTGGTCTATGGTGGACCCACAGCTACTCTCCAGACTAG CCTATTTGCCTCTTGAACAGGGGTGGCCAGCTCCATTAAGTGGCAATGGAAGTTCAACC ACAGAGCANACTGGCGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_025083
<b>Insert Size:</b>	4000 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_025083.2</a> , <a href="#">NP_079359.2</a>
<b>RefSeq Size:</b>	3755 bp
<b>RefSeq ORF:</b>	1527 bp
<b>Locus ID:</b>	80153
<b>UniProt ID:</b>	<a href="#">Q96F86</a>
<b>Cytogenetics:</b>	15q24.1
<b>Domains:</b>	YjeF_N

**Protein Pathways:** RNA degradation

**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]  
Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1-4 encode the same isoform (1).