

Product datasheet for MC226502

Cidec (NM_001301295) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cidec (NM_001301295) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cidec
Synonyms:	CIDE-3; Fsp27
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC226502 representing NM_001301295 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGACTACGCCATGAAGTCTCTCAGCCTCCTGTACCCAGGTCGCTGTCCAGGCATGTGGCAGTGAGCA
 CGGCAGTGGTGACCCAACAGCTGGTGTCTAAGCCAGCCGGGAGACCCGAGGGCCAGGCCCTGTCGTGT
 TAGCACCGCAGATCGGAAGGTTTCGAAAGGCATCATGGCTCACAGCTTGGAGGACCTCCTGAACAAGGTC
 CAGGACATCTTAAACTTAAAGACAAGCCCTTCTCCCTGGTGTGGAGGAAGATGGCACAATCGTGGAGA
 CAGAAGAATACTTCAAGCCCTGGCAAAAGATACCATGTTTCATGGTCTGCTGAAGGGGCAAGTGGA
 GCCCCATCAGAACAGCGCAAGAAGAGAGCCAGCTAGCCCTTCCAGAAAGCAACTAAGAAGATCGAT
 GTGGCCCGGGTAACTTCGACCTGTACAAGCTGAACCCTCAGGACCTTATTGGCTGCCTGAACGTGAAGG
 CAACCTCTATGACACATACTCGCTTTCCTATGACCTGCACTGCTACAAGGCCAAGCGCATCGTGAAGGA
 GATGCTCCGCTGGACCTCTTCAGCATGCAGGCCACCGGTACATGCTGCTTGGCACCTCCAGCTACATG
 CAGCAGTTCCTGGATGCCACCGAGGAAGAAGCAGCTGCCAAGGCCAAGCCCTCCTCCCTCCTCCAGCCT
 GTCTGAAGATGCTGCAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001301295
Insert Size:	720 bp


[View online »](#)

OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001301295.1</u> , <u>NP_001288224.1</u>
RefSeq Size:	1720 bp
RefSeq ORF:	720 bp
Locus ID:	14311
UniProt ID:	<u>P56198</u>
Cytogenetics:	6 E3

Gene Summary:

Binds to lipid droplets and regulates their enlargement, thereby restricting lipolysis and favoring storage. At focal contact sites between lipid droplets, promotes directional net neutral lipid transfer from the smaller to larger lipid droplets. The transfer direction may be driven by the internal pressure difference between the contacting lipid droplet pair. Its role in neutral lipid transfer and lipid droplet enlargement is activated by the interaction with PLIN1. May act as a CEBPB coactivator in the white adipose tissue to control the expression of a subset of CEBPB downstream target genes, including SOCS1, SOCS3, TGFB1, TGFBR1, ID2 and XDH. When overexpressed in preadipocytes, induces apoptosis or increases cell susceptibility to apoptosis induced by serum deprivation or TGFβ treatment. As mature adipocytes, that express high CIDEA levels, are quite resistant to apoptotic stimuli, the physiological significance of its role in apoptosis is unclear. May play a role in the modulation of the response to osmotic stress by preventing NFAT5 to translocate into the nucleus and activate its target genes expression.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR. Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from genomic sequence data because no single transcript from the reference strain was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.