

Product datasheet for **RN216114**

Cidec (NM_001244797) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cidec (NM_001244797) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cidec
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN216114 representing NM_001244797 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACTATGCTATGAAGTCTCTCAGCCTTCTCTACCCTAGGTCAGTGTCCAGGCATGTAGCAGTGAGCA
 CTGCAGTGGTGACCCAACAGCTGGTGTCTGAGCCAGCCGGGAGACCCAGGGCAAGACCCTGTCGTGT
 TAGCACCAGCAGATCGGAAGGTTTCGAAAGGCATCATGGCCACAGCTTGGAGGACCTCCTGGGCAAGGTC
 CAAGACATCTTGAAGCTTAAAGACAAGCCCTTCTCCCTGGTGTGGAGGAAGATGGCACAATCGTGGAGA
 CAGAAGAATACTTCCAAGCCCTACCAAGAGATACAGTGTTCATGGTCTGCAGAAGGGGCAGAAGTGGAA
 GTCCCCATCAGAACAGCGCAAGAAGAAAGCCAGCTATCCCTTTCCAGAAAGCCAACTAAGAAGATCGAC
 GTGGCCCGGGTAACCTTTGACCTGTACAAGCTGAACCCTCAGGACTTCATCGGCTGCCTGAACGTGAAGG
 CAACCCTCTATGACACATACTCGCTTTCATATGACCTGCACTGCTACAGGGCCAAACGCATCGTGAAGGA
 AATGCTCCGCTGGACTCTTTCAGTATGCAAGCCACAGGCCACATGCTGCTTGGCACCTCCAGTTACATG
 CAGCAGTTCCTGGATGCCACTGAGGAAGAAGAGCCCTCCAAGGCCAAGGCCTCCCTCCTCCCTGCCTGTC
 TGAAGATGCTGCAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001244797
Insert Size:	717 bp


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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.
RefSeq:	<u>NM_001244797.1</u> , <u>NP_001231726.1</u>
RefSeq Size:	1666 bp
RefSeq ORF:	717 bp
Locus ID:	500292
UniProt ID:	<u>Q5XI33</u>
Cytogenetics:	4q42
Gene Summary:	<p>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, TGFB1, ID2 and XDH. When overexpressed in preadipocytes, induces apoptosis or increases cell susceptibility to apoptosis induced by serum deprivation or TGFB treatment. The physiological significance of its role in apoptosis is unclear (By similarity). 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]</p> <p>Transcript Variant: This variant (2) differs in the 5' exon, which results in a downstream AUG start codon, compared to variant 1. The resulting isoform (2) is shorter at the N-terminus than isoform 1.</p>