

Product datasheet for **RR216115**

Cidec (NM_001244798) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cidec (NM_001244798) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cidec
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR216115 representing NM_001244798
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACTATGCTATGAAGTCTCTCAGCCTTCTCTACCCTAGGTCAGTGTCCAGGCATGTAGCAGTGAGCA
CTGCAGTGGTGACCCAACAGCTGGTGTCTGAGCCAGCCGGGAGACCCCAAGGGCAAGACCTGTCTGTGT
TAGCACCGCAGATCGGAAGGTTTCGAAAGGCATCATGGCCACAGCTTGGAGGACCTCCTGGCAAGGTC
CAAGACATCTTGAAGCTTAAAGACAAGCCCTTCTCCCTGGTGTGGAGGAAGATGGCACAATCGTGGAGA
CAGAAGAATACTTCCAAGCCCTACCAAGAGATACAGTGTTCATGGTCTGCAGAAGGGGCAGAAGTGGAA
GTCCCCATCAGAACAGCGCAAGAAGAAAGCCAGCTATCCCTTCCAGAAAGCCAACTAAGAAGATCGAC
GTGGCCCGGGTAACTTTGACCTGTACAAGCTGAACCCTCAGGACTTCATCGGCTGCCTGAACGTGAAGG
CAACCCTCTATGACACATACTCGCTTTCATATGACCTGCACTGTACAGGGCCAAACGCATCGTGAAGGA
AATGCTCCGCTGGACTCTCTCAGTATGCAAGCCACAGGCCACATGCTGCTTGGCACCTCCAGTTACATG
CAGCAGTTCCTGGATGCCACTGAGGAAGAAGCCCTCCAAGGCCAAGGCCTCCCTCCTCCCTGCCTGTC
TGAAGATGCTGCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR216115 representing NM_001244798
Red=Cloning site Green=Tags(s)

MDYAMKSLSLLYPRSLSRHVAVSTAVVTQQLVSEPSRETTPRARPCRVSTADRKVRKGMMAHSLEDLLGKV
QDILKLDKPFSLVLEEDGTIVETEEYFQALPRDVFVFLVQKQKWKSPSEQRKKAQLSLSQKPTKID
VARVTFDLYKLNPDQDFIGCLNVKATLYDTYSLSYDLHCYRAKRIVKEMLRWTLFSMQATGHMLLGTSSYM
QQFLDATEEEQPSKAKASLLPACLKMLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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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_001244798.1</u> , <u>NP_001231727.1</u>
RefSeq Size:	1655 bp
RefSeq ORF:	717 bp
Locus ID:	500292
UniProt ID:	<u>Q5XI33</u>
Cytogenetics:	4q42
MW:	27.2 kDa
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 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]