

## Product datasheet for **MR228713**

### Cidec (NM\_001301295) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cidec (NM\_001301295) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cidec  
**Synonyms:** CIDE-3; Fsp27  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR228713 representing NM\_001301295  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACTATGCCATGAAGTCTCTCAGCCTCCTGTACCCAGGTCGCTGTCCAGGCATGTGGCAGTGAGCA  
CGGCAGTGGTGACCCAACAGCTGGTGTCTAAGCCAGCCGGGAGACCCCGAGGGCCAGGCCCTGTCGTGT  
TAGCACCCGAGATCGGAAGGTTTCGAAAGGCATCATGGCTCACAGCTTGAGGACCTCCTGAACAAGGTC  
CAGGACATCTTAAACTTAAAGACAAGCCCTTCTCCCTGGTGTGGAGGAAGATGGACAATCGTGGAGA  
CAGAAGAATACTCCAAGCCCTGGCAAAAGATACCATGTTTCATGGTCTGCTGAAGGGCAGAAGTGGAA  
GCCCCATCAGAACAGCGCAAGAAGAGAGCCAGCTAGCCCTTCCAGAAAGCCAACTAAGAAGATCGAT  
GTGGCCCGGGTAACTTCGACCTGTACAAGCTGAACCCTCAGGACTTTATTGGCTGCCTGAACGTGAAGG  
CAACCCTATGACACATACTCGCTTCTATGACCTGCACTGCTACAAGGCCAAGCGCATCGTGAAGGA  
GATGCTCCGCTGGACCCTTTCAGCATGCAGGCCACCGGTACATGCTGCTTGGCACCTCCAGCTACATG  
CAGCAGTTCCTGGATGCCACCGAGGAAGAAGCAGCCTGCCAAGGCCAAGCCCTCCTCCCTCCAGCCT  
GTCTGAAGATGCTGCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR228713 representing NM\_001301295

Red=Cloning site Green=Tags(s)

MDYAMKSLSLLYPRSLSRHVAVSTAVVTQQLVSKPSRETTPRARPCRVSTADRKVRKGI MAHSLEDLLNKV  
 QDILKLDKPFSLVLEEDGTIVETEEYFQALAKDTMFMVLLKGQKWKPPSEQRKKRAQLALSQKPTKKID  
 VARVTFDLYKLN PQDFIGCLNVKATLYDTYSLSYDLHCYKAKRIVKEMLRWTLFSMQATGHMLLGTSSYM  
 QQFLDATEEEQPAKAKPSSLLPACLKMLQ

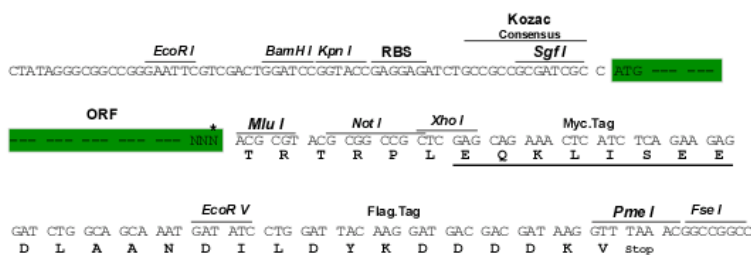
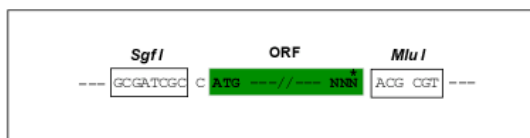
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001301295

**ORF Size:** 717 bp

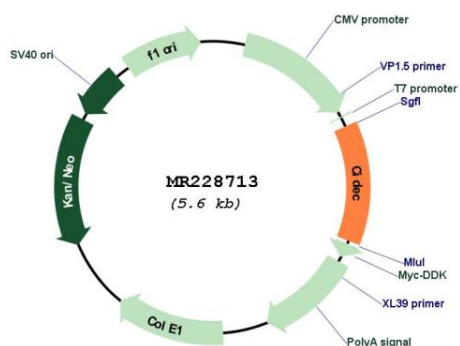
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<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>	<u><a href="#">NM_001301295.1</a></u> , <u><a href="#">NP_001288224.1</a></u>
<b>RefSeq Size:</b>	1720 bp
<b>RefSeq ORF:</b>	720 bp
<b>Locus ID:</b>	14311
<b>UniProt ID:</b>	<u><a href="#">P56198</a></u>
<b>Cytogenetics:</b>	6 E3
<b>MW:</b>	27.3 kDa
<b>Gene Summary:</b>	<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, 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 CIDEC 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]</p>

Product images:



Circular map for MR228713