

Product datasheet for **MG202932**

Cidec (NM_178373) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cidec (NM_178373) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cidec
Synonyms:	CIDE-3; Fsp27
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202932 representing NM_178373 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACTATGCCATGAAGTCTCTCAGCCTCCTGTACCCAGGTCGCTGTCCAGGCATGTGGCAGTGAGCA
CGGCAGTGGTGACCCAACAGCTGGTGTCTAAGCCAGCCGGGAGACCCCGAGGGCCAGGCCCTGTCGTGT
TAGCACCCGAGATCGGAAGGTTTCGAAAGGCATCATGGCTCACAGCTTGGAGGACCTCCTGAACAAGGC
CAGGACATCTTAAACTTAAAGACAAGCCCTTCTCCCTGGTGTGGAGGAAGATGGACAATCGTGGAGA
CAGAAGAATACTTCCAAGCCCTGGCAAAAGATACCATGTTTCATGGTCTGCTGAAGGGCAGAAGTGGAA
GCCCCATCAGAACAGCGCAAGAAGAGAGCCAGCTAGCCCTTCCAGAAAGCCAACTAAGAAGATCGAT
GTGGCCCGGGTAACTTCGACCTGTACAAGCTGAACCCTCAGGACTTTATTGGCTGCCTGAACGTGAAGG
CAACCCTATGACACATACTCGCTTCTATGACCTGCACTGTACAAGGCCAAGCGCATCGTGAAGGA
GATGCTCCGCTGGACCCTTTCAGCATGCAGGCCACCGGTACATGCTGCTTGGCACCTCCAGCTACATG
CAGCAGTTCCTGGATGCCACCGAGGAAGAAGCAGCCTGCCAAGGCCAAGCCCTCCTCCCTCCAGCCT
GTCTGAAGATGCTGCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202932 representing NM_178373
 Red=Cloning site Green=Tags(s)

MDYAMKSLSLLYPRSLSRHVAVSTAVVTQQLVSKPSRETTPRARPCRVSTADRKVRKGI MAHSLEDLLNKV
 QDILKLDKPFSLVLEEDGTIVETEEYFQALAKDTMFMVLLKGQKWKPPSEQRKKRAQLALSQKPTKKID
 VARVTFDLYKLN PQDFIGCLNVKATLYDTYSLSYDLHCYKAKRIVKEMLRWTLFSMQATGHMLLGTSSYM
 QQFLDATEEEQPAKAKPSSLLPACLKMLQ

TRTRPLE - GFP Tag - V

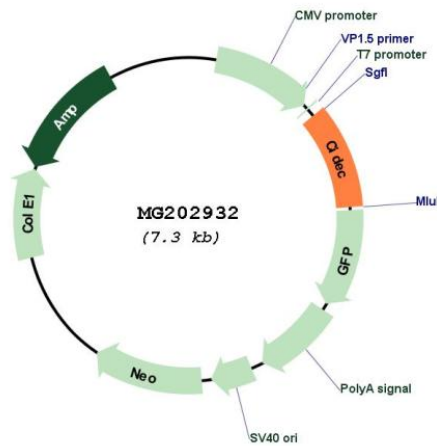
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_178373

ORF Size: 717 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

Reconstitution Method:

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: [NM_178373.2](#), [NP_848460.1](#)

RefSeq Size: 1704 bp

RefSeq ORF: 720 bp

Locus ID: 14311

UniProt ID: [P56198](#)

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 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]