

Product datasheet for **MG200804**

Cisd2 (NM_025902) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cisd2 (NM_025902) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cisd2
Synonyms: 1500009M05Rik; 1500026J14Rik; 1500031D15Rik; AI848398; B630006A20Rik; Miner1; Noxp70
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200804 representing NM_025902
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCCTGGACAGCGTGGCCCGCATCGTGAAGGTGCAGCTGCCCGCTACCTCAAGCAGCTCCCGGTCC
CCGACAGCATCACCGGTTCCGCCCGCTCACAGTTTCAGACTGGCTCCGCTACTGCCCTCCTCGGGT
ACTTGCCTTCTGGGCTACCTCGCAGTGCGCCATTCTCCAAAGAAGAAGCAACAGAAGGATAGCTTG
ATCAATCTTAAGATACAAAAGGAAAATCCAAGTGGTGAATGAGATAAACATTGAAGATCTGTGTCTCA
CCAAAGCAGCTTATTGTAGGTGCTGGCGGTCCAAGACGTTTCCTGCCTGTGATGGATCCATAATAAGCA
TAATGAATTGACAGGCGATAACGTGGGCTCTCATCCTGAAGAAGAAAGAAGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200804 representing NM_025902
Red=Cloning site Green=Tags(s)
MVLDSVARIVKVQLPAYLKQLPVPDSITGFARLTVSDWLRLLPFLGVLALLGYLAVRPFPPKKKQKDSL
INLKIQKENPKVVNEINIEDLCLTKAAYCRCWRSKTFPACDGSNKHNELTGDVNGPLILKKKEV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	NM_025902.3
RefSeq Size:	2881 bp
RefSeq ORF:	408 bp
Locus ID:	67006
UniProt ID:	Q9CQB5
Cytogenetics:	3 G3
Gene Summary:	<p>Regulator of autophagy that contributes to antagonize BECN1-mediated cellular autophagy at the endoplasmic reticulum. Participates in the interaction of BCL2 with BECN1 and is required for BCL2-mediated depression of endoplasmic reticulum Ca(2+) stores during autophagy. Contributes to BIK-initiated autophagy, while it is not involved in BIK-dependent activation of caspases. Involved in life span control, probably via its function as regulator of autophagy (By similarity).[UniProtKB/Swiss-Prot Function]</p>