

Product datasheet for MR201750

Cib2 (NM_019686) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cib2 (NM_019686) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cib2
Synonyms:	2810434I23Rik; A1449053
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR201750 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAACAAGCAGACCATCTTCACTGAAGAGCAGCTGGACAACCTACCAGGACTGCACTTTCTTCAATA
AGAAGGACATCCTCAAGCTTCATGCACGGTTCTATGAGCTGGCTCCCAACCTCGTCCCGATGGACTACAG
GAAGAGTCCCATCGTCCATGTACCCATGAGCCTCATCATTAGATGCCGGAGCTCCGGGAGAATCCCTTC
AAAGAGAGGATTGTGGAGCTTTCTCCGAGGATGGCGAGGGGAACCTCACCTTCAATGACTTTGTGGACA
TGTTCTCTGTGCTCTGCGAATCAGCGCCTCGGGAGCTCAAGGCAAACCTATGCCTTCAAGATCTATGACTT
CAACACTGACAATTTTATCTGTAAGAAGACTTAGAGATGACGCTGGCCCGACTACCAAGTCTGAGTTG
GAAGAGGATGAGGTAGTCTGTGTGTGACAAAGTCATTGAAGAGGCTGACCTGGATGGTACGGCAAGC
TGGGCTTTGCTGACTTTGAGGACATGATCGCCAAGGCCCTGATTTTCTCAGCACCTTCCACATTCGAAT
C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>MR201750 protein sequence Red=Cloning site Green=Tags(s)
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MGNKQTFIFTEEQLDNYQDCTFFNKKDILKLHARFYELAPNLVPM DYRKSPIVHVPMSLI IQMPELRENPF
KERIVEAFSEDEGNLTFNDFVDMF SVLCESAPRELKANYAFKIYDFNTDNFICKEDLEMTLARLTKSEL
EEDEVVLVCDKVIIEADLDGDGKLGFA DFEDMIAKAPDFLSTFHIRI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_019686

ORF Size: 564 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).

- 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_019686.1](#), [NM_019686.2](#), [NM_019686.3](#), [NM_019686.4](#), [NM_019686.5](#), [NP_062660.1](#)

RefSeq Size: 736 bp

RefSeq ORF: 564 bp

Locus ID: 56506

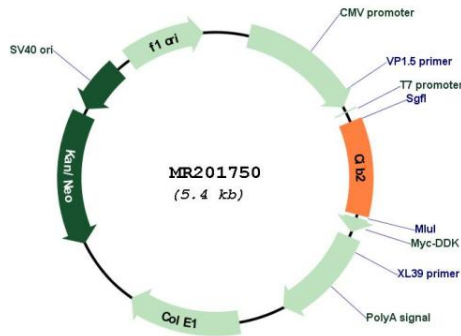
UniProt ID: [Q9Z309](#)

Cytogenetics: 9 A5.3

MW: 21.7 kDa

Gene Summary: Calcium-binding protein critical for proper photoreceptor cell maintenance and function. Plays a role in intracellular calcium homeostasis by decreasing ATP-induced calcium release (PubMed:23023331). May be involved in the mechanotransduction process (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201750