

Product datasheet for **RG231819**

CIB2 (NM_001271888) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CIB2 (NM_001271888) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CIB2
Synonyms: DFNB48; KIP2; USH1J
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231819 representing NM_001271888
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACTACAGGAAGAGCCCCATCGTCCACGTGCCCATGAGCCTCATCATCCAGATGCCAGAGCTCCGGG
AGAATCCCTTCAAAGAAAGGATCGTGCCGGCGTTTTCCGAGGATGGTGAGGGAACTCACTTTCAACGA
CTTTGTGGACATGTTTTCCGTGCTCTGCGAGTCGGCTCCCGAGAGCTCAAGGCAAATATGCCTTCAAG
ATCTATGACTTCAACACTGACAACCTCATCTGCAAGGAGGACCTGGAGCTGACGCTGGCCCGGCTACTA
AGTCAGAGCTGGATGAGGAGGAGGTGGTCTTGTGTGCGACAAGGTCATTGAGGAGGCTGACTTGGACGG
TGACGGCAAGCTGGGCTTTGCTGACTTCGAGGACATGATTGCCAAGGCCCTGACTTCCTCAGCACTTTC
CACATCCGGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231819 representing NM_001271888
Red=Cloning site Green=Tags(s)

MDYRKSPIVHVPMSLIIQMPELRENPFKERIVAASFSEDGEGNLTFNDFVDMFVSLCESAPRELKANYAFK
IYDFNTDNFICKEDLELTLARLTKSELDEEEVVLVCDKVIIEEADLDGDGKLGFADEFMIKAPDFLSTF
HIRI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

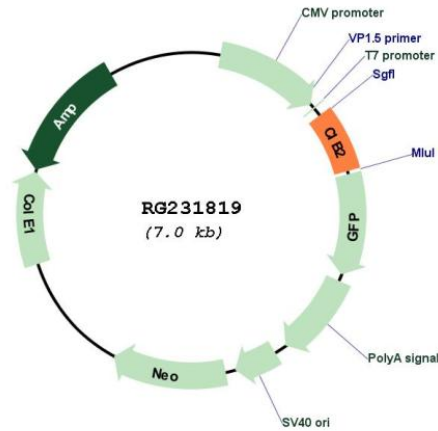


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001271888

ORF Size: 432 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:	<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_001271888.2</u>
RefSeq Size:	1588 bp
RefSeq ORF:	435 bp
Locus ID:	10518
UniProt ID:	<u>O75838</u>
Cytogenetics:	15q25.1
Protein Families:	Druggable Genome
Gene Summary:	The protein encoded by this gene is similar to that of KIP/CIB, calcineurin B, and calmodulin. The encoded protein is a calcium-binding regulatory protein that interacts with DNA-dependent protein kinase catalytic subunits (DNA-PKcs), and it is involved in photoreceptor cell maintenance. Mutations in this gene cause deafness, autosomal recessive, 48 (DFNB48), and also Usher syndrome 1J (USH1J). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]