

Product datasheet for **RG236458**

CIB2 (NM_001301224) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CIB2 (NM_001301224) 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: >RG236458 representing NM_001301224.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGAACAAGCAGACCATCTTCACCGAAGAGCAGCTAGACAACCTACCAGGACTGCACCTTCTTCAAT
AAGAAGGACATCCTCAAATGGGGAACCGAGGCTCAGAGGGATTGGTCACTCCTCCAGGGTCACACAG
GCTGTCCACAGTCTGGCTCCGGGGCCCTCTGCTTATCCTGCACCCACAGTGATTGCTGTGTGTTTT
CTTCAGGAGAATCCCTTCAAAGAAAGGATCGTGGCGGCGTTTTCCGAGGATGGTGAGGGGAACCTCACT
TTCAACGACTTTGTGGACATGTTTTCCGTGCTCTGCGAGTCGGCTCCCCGAGAGCTCAAGGCAAACCTAT
GCCTTCAAGATCTATGACTTCAACTGACAACCTCATCTGCAAGGAGGACCTGGAGCTGACGCTGGCC
CGGCTCACTAAGTCAGAGCTGGATGAGGAGGAGGTGGTGTGTTGTGCGACAAGGTCATTGAGGAGGCT
GACTTGGACGGTGACGGCAAGCTGGGCTTTGCTGACTTCGAGGACATGATTGCCAAGGCCCTGACTTC
CTCAGCACTTTCCACATCCGGATC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236458
Blue=ORF Red=Cloning site Green=Tag(s)

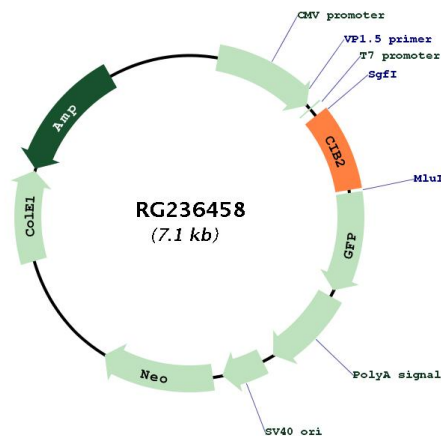
```
MGNKQIFTEEQLDNYQDCTFFNKKDILKWGNRGSEGFHSSRVTAQVHSLAPGPSCLCTHSDCCVCF
LQENPFKERIVAAFSDEGEGNLTFNDFVDMFVSLCESAPRELKANYAFKIYDFNTDNFICKEDLELTLA
RLTKSELDEEEVVLVCDKVEEADLDGDKLGFADFEDMIKAPDFLSTFHIRI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001301224

ORF Size: 576 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).

RefSeq:	NM_001301224.2
RefSeq Size:	1638 bp
RefSeq ORF:	579 bp
Locus ID:	10518
UniProt ID:	O75838
Cytogenetics:	15q25.1
Protein Families:	Druggable Genome
MW:	22.1 kDa
Gene Summary:	<p>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]</p>