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Product datasheet for RC209802

CNO (BLOC1S4) (NM_018366) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNO (BLOC1S4) (NM_018366) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CNO
Synonyms:	BCAS4L; BLOS4; CNO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC209802 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGGTAGCTTTTCGGATGGCGGAGCGCTGCCGGAGGGGCTCGCGGAAGAGGCCGAGCCGCAGGGCG
CCGCCTGGAGCGGGGACAGTGGCACTGTTTCCCAGAGCCACAGCAGCGCCTCGGGGCCGTGGGAGGACGA
GGGCGCGGAGGACGGCGCGCCGGGCCGCGACCTGCCGCTGCATCGCCGCGCCGCTGCGGGCTACGCCGCC
TGCCTGCTGCCCGGGGCCGGGGCGCGGCCCGAGGTCGAGGCCCTGGACGCGAGCCTAGAGGACCTGCTTA
CCAGAGTGGACGAGTTCGTGGGCATGCTGGACATGCTTCGCGGCGACTCGTCCCACGTCGTCAGCGAGGG
CGTGCCGCGCATCCACGCGAAGGCCGCCGAGATGCGGCGCATCTACAGCAGGATCGACCGGCTGGAGGCC
TTCGTGAGGATGGTGGGGGGCCGCGTGGCCAGGATGGAGGAGCAGGTCACCAAGGCCGAGGCCGAGCTGG
GCACCTTCCCCAGGGCGTTCAAGAAGCTCCTGCACACGATGAACGTGCCCTCGCTCTTTAGCAAGTCTGC
TCCCTCGAGGCCACAGCAAGCCGGCTACGAAGCCCCCGTCCTGTTTCGGACCGAAGACTACTTCCCTTGT
TGCAGTGAAAGGCCTCAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC209802 protein sequence
Red=Cloning site Green=Tags(s)

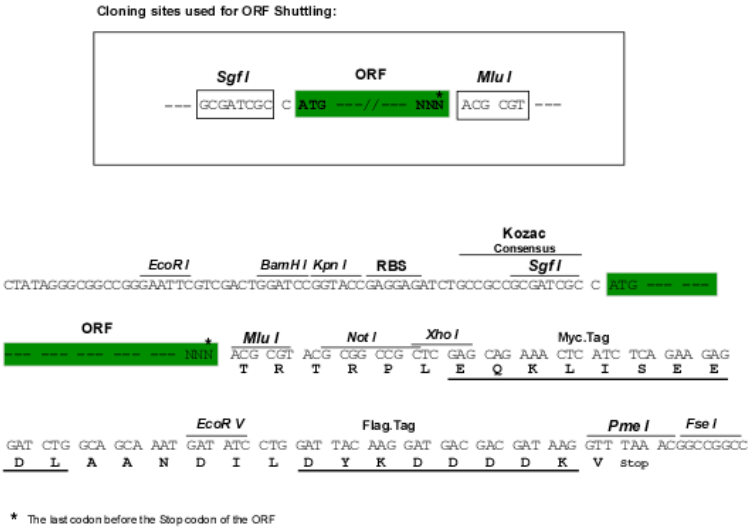
MEGSFSDGGALPEGLAEEAEPQGAAWSGDSGTVSQSHSSASGPWEDEGAEDGAPGRDLPLHRRAAAGYAA
CLLPGAGARPEVEALDASLEDLLTRVDEFVGMLDMLRGDSSHVVSEGVPRIHAKAAEMRRIYSRIDRLEA
FVRMVGGRVARMEEQVTKAEAELGTFPRAFKKLLHTMNVPSLFSKSAPSRPQQAGYEAPVLFRTEDYFPC
CSERPQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6770_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018366

ORF Size: 651 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_018366.3

RefSeq Size: 1546 bp

RefSeq ORF: 654 bp

Locus ID: 55330

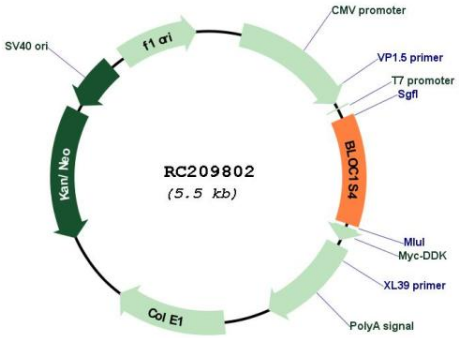
UniProt ID: Q9NUP1

Cytogenetics: 4p16.1

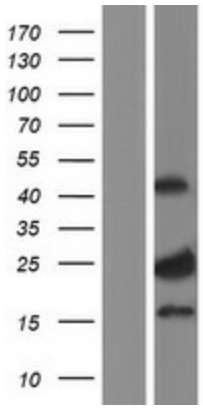
MW: 23.4 kDa

Gene Summary: This intronless gene encodes a protein that may play a role in organelle biogenesis associated with melanosomes, platelet dense granules, and lysosomes. A similar protein in mouse is a component of a protein complex termed biogenesis of lysosome-related organelles complex 1 (BLOC-1), and is a model for Hermansky-Pudlak syndrome. The encoded protein may play a role in intracellular vesicular trafficking. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC209802



Western blot validation of overexpression lysate (Cat# [LY413118]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209802 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).