

## Product datasheet for **RG209802**

### 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:                      | TurboGFP  |
| Symbol:                   | CNO   |
| Synonyms:                 | BCAS4L; BLOS4; CNO  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >RG209802 representing NM_018366<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGGTAGCTTTTCGGATGGCGGAGCGCTGCCGGAGGGGCTCGCGGAAGAGGCCGAGCCGAGGGCG  
CCGCCTGGAGCGGGACAGTGGCACTGTTCCAGAGCCACAGCAGCGCCTCGGGCCGTGGGAGGACGA  
GGGCGCGGAGGACGGCGCGCCGGCCGCGACCTGCCGCTGCATCGCCGCGCCGCTGCGGGCTACGCCGC  
TGCTGTGCCCGGGCCGGGGCGGGCCGAGGTCGAGGCCCTGGACGCGAGCCTAGAGGACCTGCTTA  
CCAGAGTGGACGAGTTTCGTGGGCATGCTGGACATGCTTCGCGGCGACTCGTCCCACGTCGTCAGCGAGGG  
CGTGCCGCGCATCCACGGAAGGCCGCGGAGATGCGGCGCATCTACAGCAGGATCGACCGCTGGAGGCC  
TTCGTGAGGATGGTGGGGGCCGCGTGGCCAGGATGGAGGAGCAGGTACCAAGGCCGAGGCCGAGCTGG  
GCACCTTCCCAGGGCGTTCAAGAAGCTCCTGCACACGATGAACGTGCCCTCGCTCTTTAGCAAGTCTGC  
TCCCTCGAGGCCACAGCAAGCCGGCTACGAAGCCCCCGTCTGTTTCGGACCGAAGACTACTTCCCTTGT  
TGCAGTGAAGGCCTCAGCTC

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209802 representing NM\_018366  
 Red=Cloning site Green=Tags(s)

MEGSFSDGGALPEGLAEEAEPQGAAWSGDSGTVSQSHSSASGPWEDEGAEDGAPGRDPLHRRAAAGYAA  
 CLLPGAGARPEVEALDASLEDLLTRVDEFVGLDMLRGDSSHVVSEGVPRIHAKAAEMRRIYSRIDRLEA  
 FVRMVGGRVARMEEQVTKAEALGTFPRAFKLLHTMNVPSLFSKAPSRRPQQAGYEAPVLFRTEDYFPC  
 CSERPQL

TRTRPLE – GFP Tag – V

**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\\_018366.2](#), [NP\\_060836.1](#)

**RefSeq Size:** 1546 bp

**RefSeq ORF:** 654 bp

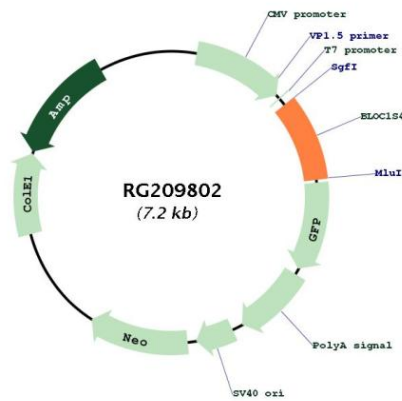
**Locus ID:** 55330

**UniProt ID:** [Q9NUP1](#)

**Cytogenetics:** 4p16.1

**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 RG209802