

Product datasheet for **RG207482**

Neuroglobin (NGB) (NM_021257) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Neuroglobin (NGB) (NM_021257) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Neuroglobin
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG207482 representing NM_021257
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCGCCCGGAGCCCGAGCTGATCCGGCAGAGCTGGCGGGCAGTGAGCCGAGCCCGCTGGAGCAGC
 GCACCGTCCTGTTTGCCAGGCTGTTTGCCTGGAGCCTGACCTGCTGCCCTCTTCCAGTACAACCTGCCG
 CCAGTTCTCCAGCCAGAGGACTGTCTCTCCTCGCCTGAGTTCCTGGACCACATCAGGAAGGTGATGCTC
 GTGATTGATGCTGCAGTGACCAATGTGGAAGACCTGCTCACTGGAGGAGTACCTTGCCAGCCTGGGCA
 GGAAGCACCGGGCAGTGGGTGTGAAGCTCAGCTCCTTCTCGACAGTGGGTGAGTCTCTGCTACATGCT
 GGAGAAGTGTCTGGGCCCTGCCTTCACACCAGCCACACGGGCTGCCTGGAGCCAACCTACGGGGCCGTA
 GTGCAGGCCATGAGTCGAGGCTGGGATGGCGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207482 representing NM_021257
 Red=Cloning site Green=Tags(s)

MERPEPELIRQSWRAVSRSPLEHGTVLFARLFALPDLLPLFQYNCRQFSSPEDCLSSPEFLDHIRKVML
 VIDAAVTNVEDLSSLEEYLASLGRKRAVGVKLSSTVSTGESLLYMLEKCLGPAFTPATRAAWSQLYGAV
 VQAMSRGWDGE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_021257

ORF Size: 453 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_021257.3](#), [NP_067080.1](#)

RefSeq Size: 1885 bp

RefSeq ORF: 456 bp

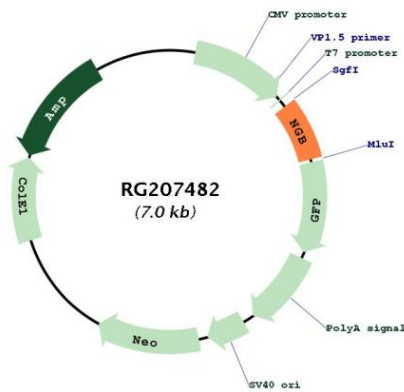
Locus ID: 58157

UniProt ID: [Q9NPG2](#)

Cytogenetics: 14q24.3

Gene Summary: This gene encodes an oxygen-binding protein that is distantly related to members of the globin gene family. It is highly conserved among other vertebrates. It is expressed in the central and peripheral nervous system where it may be involved in increasing oxygen availability and providing protection under hypoxic/ischemic conditions. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207482