

Product datasheet for **MC225963**

Ngb (NM_001294308) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ngb (NM_001294308) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ngb
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225963 representing NM_001294308
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCGCCCGGAGTCAGAGCTGATCCGGCAGAGCTGGCGGGTAGTGAGCCGCAGCCCTCTGGAACATG
GCACTGTCCTGTTCCGCCAGGCTCTTCGCCCTGGAACCCAGCCTGCTGCCTCTCTCCAGTACAATGGCCG
CCAGTTCTCCAGCCCTGAGGACTGTCTCCTCTCCAGAATTCCTGGACCACATTAGGAAGGTGATGCTA
GTGATTGATGCTGAGTGACCAACGTGGAGGACCTGTCTTCATTGGAGGAGTACCTGACCAGCTTGGGCA
GGAAGCATCGGGCAGTGGGAGTGAGGCTCAGCTCCTTCTCGTGGGTAGTGGGACAGTAGCCGAGTCCCT
GCTCTACATGCTGGAGAAGTGCCTGGGTCCCGACTTTACACCAGCTACAAGGACCGCCTGGAGCCGACTC
TACGGAGCTGTGGTGCAAGCCATGAGCCGAGGCTGGGATGGGGAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001294308
Insert Size: 468 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



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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_001294308.1</u> , <u>NP_001281237.1</u>
RefSeq Size:	1644 bp
RefSeq ORF:	468 bp
Locus ID:	64242
Cytogenetics:	12 D2
Gene Summary:	<p>Involved in oxygen transport in the brain. Hexacoordinate globin, displaying competitive binding of oxygen or the distal His residue to the iron atom. Not capable of penetrating cell membranes. The deoxygenated form exhibits nitrite reductase activity inhibiting cellular respiration via NO-binding to cytochrome c oxidase. Involved in neuroprotection during oxidative stress. May exert its anti-apoptotic activity by acting to reset the trigger level of mitochondrial cytochrome c release necessary to commit the cells to apoptosis.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>