

Product datasheet for **MC204178**

Ngb (NM_022414) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ngb (NM_022414) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ngb
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >BC024263

```
GCCACCGTAGCTTTAATGGGCGGTTCTCTGGGAGCTTCGGGGTGTAGGGCGCAGCTGCCAAGCGGGGTC
CCCGAAGCGCCCGAGGCCAAGCTGGCCGTGCGCATCCTCTGGGCTGGACCAGTAAAGGCGCAGTTGCTG
GGCCCCACCAACTAAGGCACTGGGCTGGAGGGGGGCTCCCCCGCGTCGCCGAGGAGATGGCGCTGCAT
GTGCGTTGACTGCACCCACGCCTCGAGGGTCCCATCACTGCGTCCCGCGAGTCTCCTGGGAGAGAGAGCA
TGGAGCGCCCGGAGTCAGAGCTGATCCGGCAGAGCTGGCGGGTAGTGAGCCGCAGCCCTCTGGAACATGG
CACTGTCTGTTCCGACAGGCTCTTCGCCCTGGAACCCAGCCTGTGCCTCTTTCCAGTACAATGGCCGC
CAGTTCTCCAGCCCTGAGGACTGTCTCTCTCCAGAATTCCTGGACCACATTAGGAAGGTGATGCTAG
TGATTGATGCTGCAGTGACCAACGTGGAGGACCTGTCTTATTGGAGGAGTACCTGACCAGCTTGGGCAG
GAAGCATCGGGCAGTGGGAGTGAGGCTCAGCTCCTTCTCGACAGTAGGCGAGTCCCTGCTCTACATGCTG
GAGAAGTGCCTGGGTCGGACTTTACACCAGCTACAAGGACCCGCTGGAGCCGACTTACGGAGCTGTGG
TGCAAGCCATGAGCCGAGGCTGGGATGGGAGTAAGAGACGAGCCAGTGCCCTATCTATGTGTCTGT
CTGTTGATCTGCCTGTTGTAGTCTTAGCCTCTCCCCAGGGTCTCTATACCTTGGTCCTCATCCCTT
GGCCATCTAGAGAGGTGATGGGAGAGGGCTCTGTCTCAGCTTCTGGTCAGCTGCAGGGAGGTGGATTTT
CTTCCCTCATCCCATAGATGCTCTGCTGCATGCCTGGTTAGCTCGCCCCAGGAGGCAGAACAATTTGGG
TAGTGAGGTGGCATGGGGTTCTTCTCAGAGAAGCTTTCTGCCAAGGTGAGGGAAAAGTGACTAGGCTTC
TAGAATTTCCACCTTGCTGCCAGTCTCTGATACTCCCTGCCAAGCTGTTACTTTCCAACAATG
AAGAGGAGAGACTTTTTAGTGTCTCAGGCAAGGAAGCATAGAAGATGCCATTCTCAGTGGCATTGG
GCAGTGGCTCAGCTGCTCAGACGCCCATACAAAACCTCTGTGCTCTTGGTTCAGATTCTGGTGGAA
GCACCCCGGTATTCTTTGGGGGAAACCTAACTGGCCAGCCATAATGGAGAGGCCAGAAGGCAAGGAGG
AGGAGTGACCTCATCCCAATGGCATGGAATCTGGGGCTCTTCCCTGCCACTTAATTGTAGAAGGGCTGA
ATCCTGTCTCCCCACCCTCTTCTGCTCACCACCCTCTCCAGCTGTGGGCCCTAGCTCTATGTTAAT
GCTTGAGGTGACTCGTGCCTGGGCTGATGAGTGGGAGAGAATAGAGTAGGGAGGGCCCTGTACCCATC
CCCAGCCACCCACACTTTCTTGCTCTGTGCTGTGGCTCTATAAATCACAAAGAAATAAATCATGTTCTGTG
TGCTGAAAAAAAAAAAAAAAAA
```

Restriction Sites: RsrII-NotI
ACCN: NM_022414



[View online »](#)

Insert Size:	456 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	BC024263 , AAH24263
RefSeq Size:	1630 bp
RefSeq ORF:	456 bp
Locus ID:	64242
UniProt ID:	Q9ER97
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 (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.</p>