

Product datasheet for **RG207615**

GPNMB (NM_001005340) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPNMB (NM_001005340) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPNMB
Synonyms:	HGFIN; NMB; PLCA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207615 representing NM_001005340
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAATGTCTCTACTATTTCTGGGATTCTGCTCCTGGCTGCAAGATTGCCACTTGATGCCGCCAAAC
 GATTTTCATGATGTGCTGGCAATGAAAGACCTTCTGCTTACATGAGGGAGCACAATCAATTAATGGCTG
 GTCTTCTGATGAAAATGACTGGAATGAAAACTTACCCAGTGTGGAAGCGGGGAGACATGAGGTGAAAA
 AACTCCTGGAAGGGAGGCCGTGTGCAGGCGGTCTGACCAGTACTCACCAGCCCTCGTGGGCTCAAATA
 TAACATTTGCGGTGAACCTGATATTCCTAGATGCCAAAAGGAAGATGCCAATGGCAACATAGTCTATGA
 GAAGAAGTGCAGAAATGAGGCTGGTTTATCTGCTGATCCGTATGTTTACAAGTGGACAGCATGGTCAGAG
 GACAGTACGGGGAAAAATGGACCGGCCAAAGCCATCATAACGTCTTCCCTGATGGGAAACCTTTTCCTC
 ACCACCCCGATGGAGAAGATGGAATTTTACCTACGTCTTCCACACACTGGTCACTATTTCCAGAAATT
 GGGACGATGTTTCACTGAGAGTTTCTGTGAACACAGCCAATGTGACTTTGGCCTCAACTCATGGAAGTG
 ACTGTCTACAGAAGACATGGACGGGCATATGTTCCCATCGCACAAGTGAAGATGTGTACGTGGTAAACAG
 ATCAGATTCCTGTGTTTGTGACTATGTTCCAGAAGAACGATCGAAATTCATCCGACGAAACCTTCTCAA
 AGATCTCCCCATTATGTTTGATGTCTGATTCATGATCCTAGCCACTTCTCAATTATTCTACCATTAAC
 TACAAGTGGAGCTTCGGGGATAACTGGCCTGTTTGTTCACCAATCATACTGTGAATCACACGTATG
 TGCTCAATGGAACCTTACGCCTAACCTCACTGTGAAAGCTGCAGCACCAGGACCTTGTCCGCCACCGCC
 ACCACCACCCAGACCTTCAAACCCACCCCTTCTTAGCAACTACTCTAAAATCTTATGATTTCAAACACC
 CCAGGACTGCTGGTGACAACCCCTGGAGCTGAGTAGGATTCCTGATGAAAAGTCCAGATTAACAGAT
 ATGGCCACTTTCAAGCCACCATACAATTTGTAGAGGGAATCTTAGAGGTTAACATCATCCAGATGACAGA
 GTCTCTGATGCCGGTGCCATGGCCTGAAAGCTCCCTAATAGACTTTGTCGTGACCTGCCAAGGGAGCATT
 CCCACGGAGGTCTGTACCATCATTTCTGACCCACCTGCGAGATCACCCAGAACACAGTCTGCAGCCCTG
 TGGATGTGGATGAGATGTGTCTGCTGACTGTGAGACGAACCTTCAATGGGTCTGGGACGACTGTGTGAA
 CCTCACCTGGGGATGACACAAGCCTGGCTCTCACGAGCACCCTGATTTCTGTTCTGACAGAGACCCA
 GCCTCGCCTTTAAGGATGGCAAACAGCGCCCTGATCTCCGTTGGCTGCTGGCCATATTTGCTCACTGTGA
 TCTCCCTCTTGGTGTACAAAAACACAAGGAATACAACCCAATAGAAAATAGTCTGGGAATGTGGTCAG
 AAGCAAAGGCTGAGTGTCTTTCTCAACCGTGCAAAGCCGTGTTCTTCCCGGAAACCAGGAAAAGGAT
 CCGCTACTCAAAAACCAAGAATTTAAAGGATTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207615 representing NM_001005340
 Red=Cloning site Green=Tags(s)

MECLYYFLGFLLLAARLPLDAAKRFHDLGNERP SAYMREHNQLNGWSSDENDWNEKLYPVWKRGMRWK
 NSWKGGVRQAVLTS DSPALVGSNITFAVNLI FPRCQKEDANGNI VYEKNCRNEAGLSADPYVYNWTAWSE
 DSDGENGTGQSHHNVPDGPFPHPGWRWNFIYVFHTLGQYFQKLGRC SVRVS VNTANVTLGPQLMEV
 TVYRRHGRAYVPIAQVKD VYVVDQIPVFVTMFQKNDRNSDETFLKDLPI MFVDVLIHDP SHFLNYSTIN
 YKWSFGDNTGLFVSTNHTVNHTYVLNGTFS LNL TVKAAAPGPCPPPPPPRPSKPTSLATTLKSYDSNT
 PGPAGDNPLELSRIPDENCQINRYGHFQATIT IVEGILEVNIIQM TDVLM PVPWPESLIDFVVTCQGSI
 PTEVCTIISDPTCEITQNTVCS PVDVDEMCLLTVRRTFNGSGTYCVNL TLGD DTS LAL TSLI SVPDRDP
 ASPLRMANSALISVGCLAIFVTVISLLVYKHKHKEYNPIENSPGNVVR SKGLSVFLNRAKAVFFPGNQEKD
 PLLKNQEFKGV S

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001005340

ORF Size: 1716 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_001005340.1](#), [NP_001005340.1](#)

RefSeq Size: 2775 bp

RefSeq ORF: 1719 bp

Locus ID: 10457

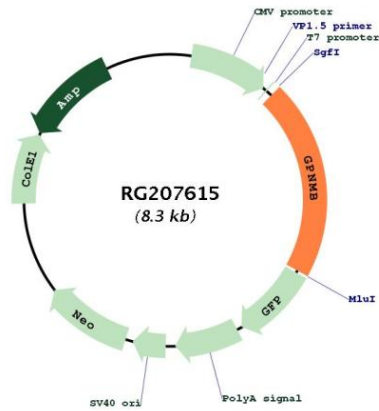
UniProt ID: [Q14956](#)

Cytogenetics: 7p15.3

Protein Families: Druggable Genome, Transmembrane

Gene Summary: The protein encoded by this gene is a type I transmembrane glycoprotein which shows homology to the pMEL17 precursor, a melanocyte-specific protein. GPNMB shows expression in the lowly metastatic human melanoma cell lines and xenografts but does not show expression in the highly metastatic cell lines. GPNMB may be involved in growth delay and reduction of metastatic potential. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207615