

Product datasheet for **MG217236**

Gp2 (NM_025989) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gp2 (NM_025989) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gp2
Synonyms:	2310037118Rik; AV060639
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG217236 representing NM_025989
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAAGGATGGTGGGTTGTGACCTGCTGTGGCTGGCTGCAGCCTCCTGCGTTCTGACACTGGTATCTC
 CATCTACAATACATCAAGTTATGGGAGGCCAGGAACAGCTCCAATCTGGACTTGACTGTGGATCCCC
 TGACTCTCCAAGTTCTGGAATCTGCTTTGATCCCTGCCAGAATCACACGGTCCTGAATGATCCTACCAGA
 AGCACAGAGAACAACGATTTCATCAGATGCATGGTGTGATGATAACCTGCACGGCTGGTACCCTTTGTGG
 GTGATGGAGGAGTGAAGATGCCAGAGACCTGTGTGAGTGTGTTCCGGTCCACACCTCTGCCCCATGTG
 GCTGAGTGGATCTACCCCATCCTTGGAGATGGCATTGTCAGCCACACAGCCTGTGCCAACTGGAATGAA
 AATTGTTGCTTCTGGCGTCTGAGGTCCAGGTGAAGGCCTGTTCTGAAGAACTAGGAGAATACACGTGT
 ACAAGTTACAGGGTACCCCTGAATGCAGCTGAGATACTGCACAGACCCCTCCACTGCACCCAAGAATTG
 TGAGATTACTTGTGCTCCTGAGGAGGAATGTGTATTCCAAAATAACAACCTGGTCTGTGTCTGTAGCGAG
 GACCTCCATGTTTCTGACTCTCAGAGTTTGCAGCCTCTTCTGGACTGTGGAGATAATGAGATCAAGGTGA
 AGTTGGACAAGTGTGCTGGGAGGTATGGGTTTCAAGGAGGAGATCATTGCCTACCTCAATGACCGGAA
 CTGCAATGGTACCATGCAAGATGAGCCCAACTGGGTGTCCATGACCAGCCCTGTTGTGGCTAATTAC
 TGTGGGAACATCCTGGAGAAAAATGGGACCCATGCCATCTACAGAAACACCCCTTCTGGCCACTGACT
 TTATTATCAGGGACTTTCGTGTCAATGTCAACTCCAGTGTGCCTACCCACTGGACATGAGCGTCAGCCT
 CGAAACTGCTCTCCAGCCATTGTAAGTCCCTGACTGTTGATGTGGACGGAGCAGGAGATTCAATGTC
 AAGATGGCCCTCTTCCAAGACCAGACTACACAAACCTTATGAAGGAGCCGAAGTTGCTTCCAGTGG
 AGTCTATACTCTATGTGGGTGCTCTTAAATAGAGGGGATAACCTCCAGTTCAAATGTGCTGACCAA
 CTGCTATGCCACCCCTTCAAGACAGGCATGACCCCTGTGAAGTACTTCATCATCAAGAACAGATGCCCA
 AACCAACGTGATTCCACCATCAATGTGCGGGAGAAATGGTGTGCTCAGAAAGCCGATTTTCAGTGCAGA
 GTTTCATGTTTGTGGAAATTATGACTTAGTTTTCTGCATTGTGAGTTTACCTGTGTGACTCCACTAC
 TGAACAGTGTCAACCATTTGCTCTACAAATCGACTTCGCAGTAGTGGACCAGCCATTGACTATAATCGG
 GTTCTGGATTTAGGACCCATCACTAAAAGAAGTGTCTCAGAGTTCTGCTACCTCGAAGGGGACTCCCCACA
 CTACAGGGTCTTGTGGCCTGGCCATGTTCTTCTGCTGTCTTCTGGCTCTACTGTTCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

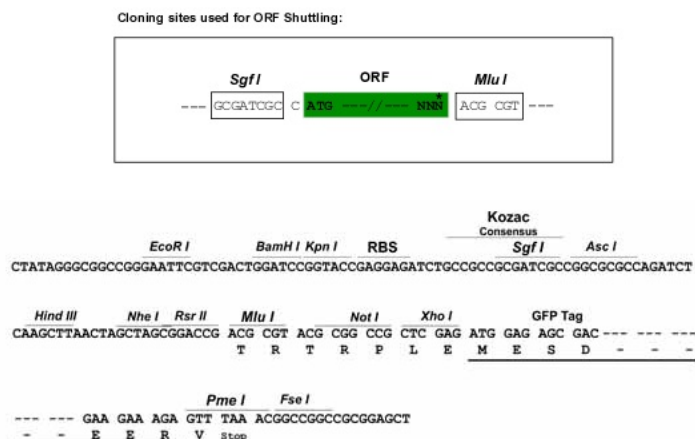
>MG217236 representing NM_025989
 Red=Cloning site Green=Tags(s)

MKRMVGCDDLWLAASCVLTLVSPSTIHQGYGRPRNSSNLDLDCGSPDSPSSGICFDPQNHTVLDNPT
 STENNDSSDAWDDNLHGWRVYFVGDGGVKMPETCVSVFRCHTSAPMWSGSHPILDGIVSHTACANWNE
 NCCFWRSEVQVKACSEELGEYHVYKLQGTPECSLRYCTDPSTAPKNCEITCRPEEFCVFQNNWVSCVCRQ
 DLHVSDSQSLQPLLDGNEIKVKLDKCLLGGMGFKEEIIAYLNDNRNCGTMQDEPNWVSMSPVVANY
 CGNILEKNGTHAIYRNTLSLATDFIIRDFRVNVNFQAYPLDMSVSLETALQPIVSSLTVDDVGAGEFNV
 KMALFQDQSYTNPYEGAEVLLPVESILYVGVLLNRGDTSRFKLLLTNCYATPSEDRHDPVKYFIIKNRCP
 NQRDSTINVRENGVSSSRFSVQMFAGNYDLVFLHCEVYLCDSTTEQCQPSCSTNRLRSSGPAIDYNR
 VLDLGPITKRSAQSSATSKGTPHTTGFLAWPMFFLPVFLALLF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_025989

ORF Size: 1602 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_025989.3](#), [NP_080265.2](#)

RefSeq Size: 1978 bp

RefSeq ORF: 1605 bp

Locus ID: 67133

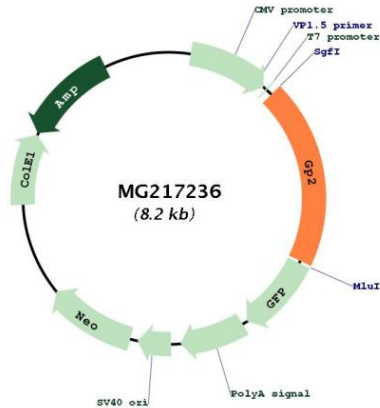
UniProt ID: [Q9D733](#)

Cytogenetics: 7 63.88 cM

Gene Summary:

Functions as an intestinal M-cells transcytotic receptor specific of type-I-piliated bacteria that participates to the mucosal immune response toward these bacteria. At the apical membrane of M-cells binds fimH, a protein of the bacteria type I pilus tip. Internalizes bound bacteria, like E.coli and S.typhimurium, from the lumen of the intestine and delivers them, through M-cells, to the underlying organized lymphoid follicles where they are captured by antigen-presenting dendritic cells to elicit a mucosal immune response.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG217236