

Product datasheet for **MC217606**

Gp2 (NM_025989) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gp2 (NM_025989) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gp2
Synonyms:	2310037118Rik; AV060639
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217606 representing NM_025989
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAAAGGATGGTGGGTTGTGACCTGCTGTGGCTGGCTGCAGCCTCCTGCGTTCTGACTGGTATCTC
CATCTACAATACATCAAGGTTATGGGAGGCCAGGAACAGCTCCAATCTGGACTTGGACTGTGGATCCCC
TGACTCTCCAAGTTCTGGAATCTGCTTTGATCCCTGCCAGAATCACACGGTCCTGAATGATCCTACCAGA
AGCACAGAGAACAACGATTTCATCAGTTGCATGGTGTGATGATAACCTGCACGGCTGGTACCCTTTGTGG
GTGATGGAGGAGTGAAGATGCCAGAGACCTGTGTGAGTGTGTTCCGGTCCACACCTCTGCCCCATGTG
GCTGAGTGGATCTACCCCATCCTTGGAGATGGCATTGTCAGCCACACAGCCTGTGCCAACTGGAATGAA
AATTGTTGCTTCTGGCGTCTGAGGTCCAGGTGAAGGCCTGTTCTGAAGAACTAGGAGAATACACGTGT
ACAAGTTACAGGGTACCCCTGAATGCAGTCTGAGATACTGCACAGACCCCTCCACTGCACCCAAGAATTG
TGAGATTACTTGTGCTCCTGAGGAGGAATGTGTATTCCAAAATAACAACCTGGTCTGTGTCTGTAGGCAG
GACCTCCATGTTTCTGACTCTCAGAGTTTGCAGCCTCTTCTGGACTGTGGAGATAATGAGATCAAGGTGA
AGTTGGACAAGTGTGCTGGGAGGTATGGGTTTCAAGGAGGAGATCATTGCCTACCTCAATGACCGGAA
CTGCAATGGTACCATGCAAGATGAGCCCAACAACCTGGGTGTCCATGACCAGCCCTGTTGTGGCTAATTAC
TGTGGGAACATCCTGGAGAAAAATGGGACCCATGCCATCTACAGAAACACCCTTTCCTTGGCCACTGACT
TTATTATCAGGGACTTTCGTGTCAATGTCAACTCCAGTGTGCCTACCCACTGGACATGAGCGTCAGCCT
CGAAACTGCTCTCCAGCCATTGTAAGTCCCTGACTGTTGATGTGGACGGAGCAGGAGAGTTCAATGTC
AAGATGGCCCTCTTCCAAGACCAGAGCTACACAAACCTTATGAAGGAGCCGAAGTGTGCTTCCAGTGG
AGTCTATACTCTATGTGGTGTCTCTTAAATAGAGGGGATACCTCCAGTTCAAACCTGTTGCTGACCAA
CTGCTATGCCACCCTTCAAGAGACAGGCATGACCCTGTGAAGTACTTCATCATCAAGAACAGATGCCCA
AACCAACGTGATTCCACCATCAATGTGCGGGAGAAATGGTGTGTCCTCAGAAAGCCGATTTTCAGTGCAGA
TGTTTCATGTTTGTGGAAATTATGACTTAGTTTTCTGCATTGTGAGTTTACCTGTGTGACTCCACTAC
TGAACAGTGTCAACCATTTGCTCTACAAATCGACTTCGCAGTAGTAGACCAGCCATTGACTATAATCGG
GTTCTGGATTTAGGACCCATCACTAAAAGAAGTGTCTCAGAGTTCTGCTACCTCGAAGGGGACTCCCCACA
CTACAGGGTCTTGTGGCCTGGCCATGTTCTTCTGCTGTCTTCTGGCTCTACTGTTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_025989

Insert Size: 1605 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).

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]