

## Product datasheet for **MR222739**

### Marco (NM\_010766) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Marco (NM_010766) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Marco
Synonyms:	A1323439; Ly112; Scara2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR222739 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGAAGTAAAGAACTCTCAAGAGGAAGACTTCTTGGGCAGCACAGAAGACAGAGCCGATTTTGACC  
 AAGCTATGTTCCCTGTGATGGAGACCTTCGAAATCAATGATCCAGTGCCCAAGAAGAGAAATGGGGGAC  
 CTTCTGCATGGCAGTCATGGCCATCCACCTGATCTGCTCACGGCAGGTAAGTACTGCTGCTGATTCAA  
 GTTCTCAATCTGCAGGAGCAGCTCCAGATGCTAGAGATGTGCTGTGGCAATGGATCACTAGTATCGAGG  
 ACAAGCCCTTCTCTCGCTGCAGTGGGCACCAAAACACACCTGGTACCTAGAGCACAGGGGCTGCAAGC  
 CTTGCAGGCCAGCTCAGCTGGTCCATACCAGCCAGGAGCAACTCCGTCAGCAGTTCAACAACCTCACT  
 CAAAATCCAGAGTTGTTCCAGATTAAGGTGAACGAGGCTCTCCAGGTCCAAAAGGGGCCCGGGTCTC  
 CTGGAATCCCCGGGCTGCCTGGCCAGCTGCTGAGAAGGGAGAAAAGGGGCTGCAGGTCGTGATGGAAC  
 CCCAGGTGTCCAAGGACCCAGGGCCACCAGGCAGCAAGGGAGAGGCAGGCCTCCAGGGACTTACGGGT  
 GCACCAGGGAAGCAAGGAGCAACTGGTGTCCAGGACCTCGAGGAGAGAAGGGCAGCAAAAGGTGACATAG  
 GTCTCACTGGCCCAAGGGGAACATGGCACCAGGGAGACAAAGGGGACCTAGGCCTCCAGGAAACAA  
 AGGGGACATGGGCATGAAGGGAGACACGGGGCCATGGGGTCCCTGGAGCTCAGGGAGGTAAAGGTGAT  
 GCTGGAAAACAGGCCTACCAGGTTTGGCTGGATCTCCAGGAGTCAAAGGTGACCAAGGAAAACCTGGAG  
 TGCAGGGTGTTCAGGCCCTCAAGGTGCACAGGACTTTCAGGTGCCAAGGGTGAAGCCAGGACGCACTGG  
 TCTTCTGGGCCAGCAGGACCCCGGAATTGCTGGGAATCCAGGGATTGAGGTGTGAAAGGAAGCAAG  
 GGTGACACAGGAATCAAGGACAGAAAGGCACAAAAGGAGAATCAGGAGTCCCAGTCTTGTAGGCAGAA  
 AGGGAGACACTGGAAGCCCTGGGCTGGCAGTCCCAAAGGAGAACCTGGACGAGTCGGTCAGAGGGAGA  
 CCCGGGGATGAAAGGGTCTTCTGGCCAGCAAGGACAAAAGGGGAGAAAAGGGTCAAAAAGGCGAATCTTTC  
 CAACGCGTCCGGATCATGGGTGGCACCACAGAGGCCGAGCTGAAGTTTACTATAACAATGAGTGGGGGA  
 CAATTTGTGATGATGATTGGGATAATAATGATGCGACTGTCTTCTGTCGCATGCTCGTTACTCCAGAGG  
 GAGAGCACTTAGCAGCTATGGAGGTGGCTCTGGGAACATCTGGCTGGACAATGTGAATTGTCGGGCACA  
 GAGAACAGTTTGTGGGACTGCAGTAAGAACTCTGGGGCAATCACAATTGCGTACATAATGAAGATGCGG  
 GTGTGGAATGCTCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR222739 protein sequence  
 Red=Cloning site Green=Tags(s)

MGSKELLKEEDFLGSTEDRADFDQAMFPVMEFTEINDPVPKKNRGGTFCMAVMAIHLILLTAGTALLLIQ  
 VLNLQEQLQMLEMCCNGSLAIEDKPFSLQWAPKTHLVPRAQGLQALQAQLSWVHTSQEQLRQGFNNLT  
 QNPELFQIKGERGSPGPKGAPGAPGIPGLPGPAAEKGEKGAAGRDTGPGVQGPQPPGSKGEAGLQGLTG  
 APGKQGATGAPGPRGEKGSKGDIGLTGPKGEHGTGDKGDLGLPGNKGDMGMKGDTPMGSPGAQGGKGD  
 AGKPLPGLAGSPGVKGDQKPGVQGVPGPQAPGLSGAKGEPGRTGLPGPAGPPGIAGNPGIAGVKGSK  
 GDTGIQKQKGTGKESGVPGLVGRKGDGSPGLAGPKGEPGRVQKGDPMKGSQGGQKGEKQKGESF  
 QRVRIMGGTNRGRAEVYNNNEWGTICDDDDWNNDATVFCRMLGYSRGRALSSYGGGSGNIWLDNVNCRGT  
 ENSLWDCSKNSWGNHNCVHNEDAGVECS

**SGP**TRTRPLEQKLI**SEEDLA**ANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**


**ACCN:** NM\_010766

**ORF Size:** 1557 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\\_010766.3](#)

**RefSeq Size:** 1985 bp

**RefSeq ORF:** 1557 bp

**Locus ID:** 17167

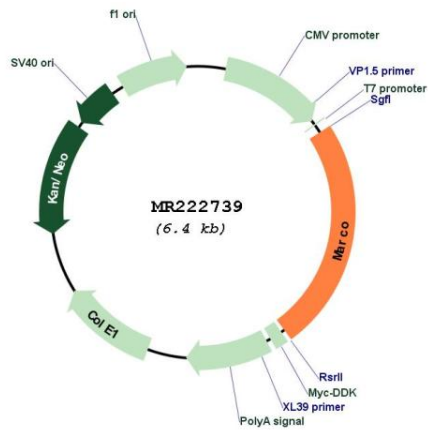
**UniProt ID:** [Q60754](#)

**Cytogenetics:** 1 E2.3

**MW:** 52.7 kDa

**Gene Summary:** Pattern recognition receptor (PRR) which binds Gram-positive and Gram-negative bacteria (PubMed:7867067). Also plays a role in binding of unopsonized particles by alveolar macrophages (By similarity). Binds to the secretoglobulin SCGB3A2 (By similarity). [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR222739