

Product datasheet for **MG203990**

Ms4a1 (NM_007641) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ms4a1 (NM_007641) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ms4a1
Synonyms:	AA960661; Cd20; Ly-44; Ms4a2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203990 representing NM_007641 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGGACCTTTCCAGCAGAGCCTACAAAAGGTCCCCTCGCCATGCAACCTGCTCCAAAAGTGAACC
TCAAAGGACATCTTCACTGGTGGGCCACACAAAGCTTCTTCATGAGGGAATCAAAGCTTTGGGGC
TGTCAAATCATGAATGGCCTCTCCATATTACCCTGGGGGACTGCTGATGATCCACAGGGTCTTC
GCACCCATCTGTTGAGTGTATGGTACCCTCTCTGGGGAGGCATTATGTACATTATTCAGGATCACTCC
TGGCAGCTGCAGCAGAAAAACCTCCAGGAAGAGTTTGGTCAAAGCAAAGTGATAATGAGCTCTCTAAG
CCTCTTTGCTGCCATTTCTGGAATAATCTTTCAATCATGGACATACTTAACATGACACTTTCTCATTTT
TTAAAAATGAGAAGACTGGAGCTTATTTCAAACCTCCAAGCGTATGTTGATATCTACGACTGTGAACCAT
CTAATTCCTCAGAGAAAACTCCCATCTACACAGTACTGTAACAGCATTGAGTCTGTGTTCTTGGGCAT
TCTGTCGGCGATGCTGATCTCTGCCTTCTTCCAGAACTGTGACAGCTGGTATTGTGGAGAATGAGTGG
AAAAGAATGTGTACCAGATCCAAATCTAATGTGGTTCTGCTGTCAGCTGGAGAAAAAATGAGCAGACGA
TAAAAATGAAAGAAGAAATCATTGAGCTAAGTGGAGTATCTTCCCAACCAAGAATGAAGAGGAAATTGA
AATTATCCAGTGCAGGAGGAAGAAGAAGAAGCAGAAATAAATTTCCAGCACCTCCCAAGAGCAG
GAATCCTTGCCAGTGGAAAATGAGATCGCTCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203990 representing NM_007641
 Red=Cloning site Green=Tags(s)

MSGPFPAEPTKGPLAMQPAPKVNLKRTSSLVGPTQSFFMRESKALGAVQIMNGLFHITLGGLLMIPTGVF
 APICLSVWYPLWGGIMYIISGSLLA AAAEKT SRKSLVKAKVIMSSLSLFAAISGII LSIMDILNMTLSHF
 LKMRRLLELIQTSKPYVDIYDCEPSNSSEKNSPSTQYCNISIQSVFLGILSAMLISAFFQKLVTAGIVENEW
 KRMCTRKSNVLLSAGEKNEQTIKMKEEIIELSGVSSQPKNEEEIEIIPVQEEEEEEAEINFPAPPQEQ
 ESLPVENEIAP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007641

ORF Size: 873 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_007641.6](#)

RefSeq Size: 2984 bp

RefSeq ORF: 876 bp

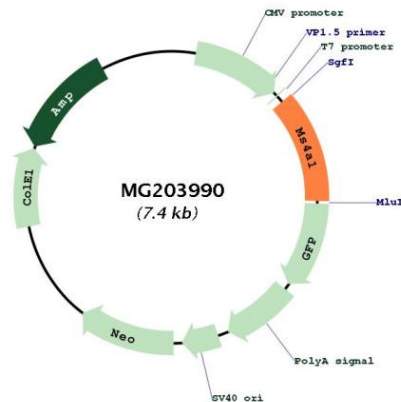
Locus ID: 12482

UniProt ID: [P19437](#)

Cytogenetics: 19 8.19 cM

Gene Summary: B-lymphocyte-specific membrane protein that plays a role in the regulation of cellular calcium influx necessary for the development, differentiation, and activation of B-lymphocytes. Functions as a store-operated calcium (SOC) channel component promoting calcium influx after activation by the B-cell receptor/BCR.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG203990