

Product datasheet for **MG221668**

Ms4a2 (NM_013516) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ms4a2 (NM_013516) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ms4a2
Synonyms:	Fce1b; Fcer1; Fcer1b; fcERI; FcR; FcRB; Fcrbe; Fcrbeta; Ms4a1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221668 representing NM_013516 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACACAGAAAATAGGAGCAGAGCAGATCTTGCTCTCCAAATCCACAAGAATCCTCCAGTGCACCTG
ACATTGAACTCTTGGAAGCATCTCTGCCAAAGCAGCCCCACAAAGCAGACATGGCGGACATTTTGGAA
GAAAGAGTTGGAGTTCCTGGGAGCAACACAAATCTGGTTGGTTTGATATGCCTTTGTTTGGAAACAATT
GTCTGCTCCGTACTCTATGTTTCAGACTTTGATGAAGAAGTGCTTTTACTTTATAAACTAGGCTATCCAT
TCTGGGTGCAGTGTGTTGTTTGTCTGGATTTTGTCAATTATCTCCGAAAGAAAAACACATTGTA
TCTGGTGAGAGGCAGCCTGGGAGCAAACATTGTCAGTAGCATCGCTGCAGGGACGGGGATCGCCATGCTG
ATCCTCAATCTGACCAATAAATTCTGCTTATATGAACAAGTGAAGAATGTAACCGAAGACGACGGCTGCT
TTGTGGCTTTTACCACAGAAGTGGTGTGATGATGCTGTTTCTCACCATCCTGGCCTTTTGCAGTGC
TGTGTTGTTCACTATCTATAGGATTGGACAAGAGTTAGAAAGTAAAAAGGTTCCAGATGATCGTCTTTAT
GAAGAATTAATGTGTATTCACCAATTTACAGTGAGTTGGAAGACAAAGGGGAAACATCTTCTCCAGTTG
ATTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG221668 representing NM_013516
Red=Cloning site Green=Tags(s)

MDTENRSRADLALPNPQESSAPDIELLEASPAKAAPPKQWRTFLKKELEFLGATQILVGLICLCFGTI
 VCSVLYVSDFDDEEVLLLKLYGYPFWGAVLFLVSGFLSII SERKNTLYLVRGSLGANIVSSIAAGTGIAML
 ILNL TNNFAYMNNCKNVTEDDGGCFVASFTTELVLMMFLTLILAFCSAVLFTIYRIGQELESKKVPDDRLY
 EELNVYSPIYSELEDKGETSSPVDS

TRTRPLE - GFP Tag - V

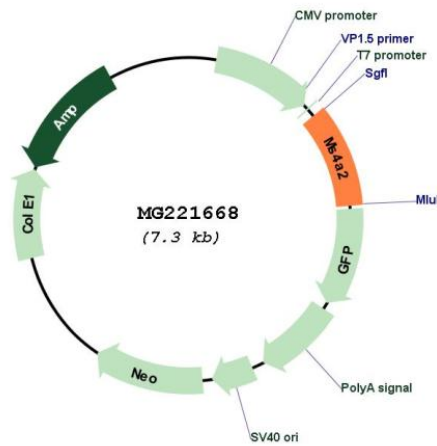
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_013516

ORF Size: 2756 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none"> 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:	<p>NM_013516.2, NP_038544.1</p>
RefSeq ORF:	<p>708 bp</p>
Locus ID:	<p>14126</p>
UniProt ID:	<p>P20490</p>
Cytogenetics:	<p>19 8.46 cM</p>
Gene Summary:	<p>This gene encodes a member of the membrane-spanning 4A family. The encoded protein is the beta subunit of the high affinity IgE receptor and is localized to the membrane. The encoded protein is required for full activation of mast cells, including the release of histamine. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]</p>