

Product datasheet for **MR228453**

Ms4a2 (NM_001276328) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ms4a2 (NM_001276328) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ms4a2
Synonyms: Fce1b; Fcer1; Fcer1b; fcERI; FcR; FcRB; Fcrbe; Fcrlbeta; Ms4a1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228453 representing NM_001276328
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACACAGAAAATAGGAGCAGAGCAGATCTTGCTCTCCAAATCCACAAGAATCCTCCAGTGCACCTG
 ACATTGAACTCTTGAAGCATCTCTGCCAAAGCAGCCCCACAAAGCAGACATGGCGGACATTTTTGAA
 GAAAGAGTTGGAGTTCTGGGAGCAACACAAATCTGGTTGGTTGATATGCCTTTGTTTTGGAACAATT
 GTCTGCTCCGACTCTATGTTTCAGACTTTGATGAAGAAGTGCTTTACTTTATAAACTAGGCTATCCAT
 TCTGGGGTGCAGTGTCTGTTTGTCTGGATTTTTGTCAATTATCTCCGAAAGAAAAACACATTGTA
 TCTGAATGTAACCGAAGACGACGGCTGCTTTGTGGCTTCTTCCACACAGAACTGGTGTGATGATGCTG
 TTTCTCACCATCCTGGCCTTTTGCAGTGTGTGTTGTTCACTATCTATAGGATTGGACAAGAGTTAGAAA
 GTAAAAAGGTCCCAGATGATCGTCTTTATGAAGAATTAATGTGTATTACCAATTTACAGTGAGTTGGA
 AGACAAAGGGGAAACATCTTCTCCAGTTGATTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228453 representing NM_001276328
 Red=Cloning site Green=Tags(s)

MDTENRSRADLALPNPQESSAPDIELLEASPAKAAPPKQWRTFLKKELEFLGATQILVGLICLFCGTI
 VCSVLYVSDFDDEEVLLLYKLGYPFWGAVL FVLSGFLSII SERKNTLYLNVTEDDGCFFVASFTELVLMLL
 FLTILAFCSAVLFTIYRIGQELESKKVPDDRLYEELNVYSPIYSELEDKGETSSPVDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

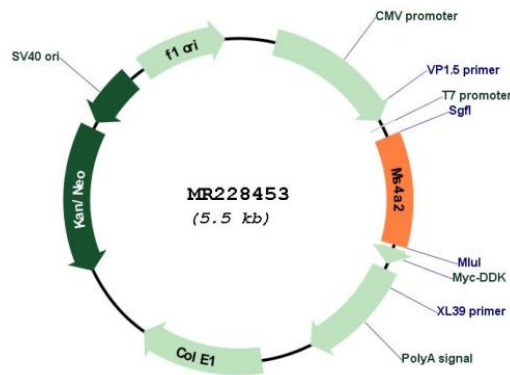


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001276328

ORF Size: 594 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_001276328.1](#), [NP_001263257.1](#)

RefSeq Size: 2648 bp

RefSeq ORF: 597 bp

Locus ID: 14126

Cytogenetics: 19 8.46 cM

MW: 22.6 kDa

Gene Summary: 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]