

## Product datasheet for **MC225770**

### Ms4a2 (NM\_001276329) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ms4a2 (NM\_001276329) Mouse Untagged Clone  
**Tag:** Tag Free  
**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  
**Fully Sequenced ORF:** >MC225770 representing NM\_001276329  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGACACAGAAAATAGGAGCAGAGCAGATCTTGCTCTCCAAATCCACAAGAATCCTCCAGTGCACCTG  
ACATTGAACTCTTGAAGCATCTCTGCCAAAGCAGCCCCACAAAGCAGACATGGCGGACATTTTGGAA  
GAAAGAGTTGGAGTTCCTGGGAGCAACACAAATCTGTTTGTCTGGATTTTGTCAATTATCTCC  
GAAAGAAAAACACATTGTATCTGAATGTAACCGAAGACGACGGCTGCTTTGTGGCTTTTCCACCACAG  
TCCAGATGATCGTCTTTATGAAGAATTAATGTATTACCAATTTACAGTGAGTTGGAAGACAAAGG  
GGAAACATCTTCTCCAGTTGATTCA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001276329  
**Insert Size:** 378 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).  
**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001276329.1, NP_001263258.1</u>
<b>RefSeq Size:</b>	2429 bp
<b>RefSeq ORF:</b>	378 bp
<b>Locus ID:</b>	14126
<b>Cytogenetics:</b>	19 8.46 cM
<b>Gene Summary:</b>	<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> <p>Transcript Variant: This variant (3) uses two alternate in-frame splice sites and lacks an in-frame exon in the 3' coding region, compared to variant 1. The encoded isoform (c) is shorter than isoform a.</p>