

## Product datasheet for RC210371

### MS4A2 (NM\_000139) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MS4A2 (NM_000139) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MS4A2
Synonyms:	APY; ATOPY; FCER1B; FCERI; IGEL; IGER; IGHHER; MS4A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210371 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACACAGAAAGTAATAGGAGAGCAAATCTTGCTCTCCACAGGAGCCTTCCAGTGTGCCTGCATTTG  
AAGTCTTGAAATATCTCCCAGGAAGTATCTTCAGGCAGACTATTGAAGTCGGCCTCATCCCACCACT  
GCATACATGGCTGACAGTTTTGAAAAAGAGCAGGAGTTCCTGGGGTAACACAAATTCGACTGCTATG  
ATATGCCTTTGTTTTGGAACAGTTGTCTGCTCTGACTTGATATTTACACATTGAGGGAGACATTTTTT  
CATCATTTAAAGCAGTTATCCATTCTGGGGAGCCATATTTTTTCTATTTCTGGAAATGTTGTCAATTAT  
ATCTGAAAGGAGAAATGCAACATATCTGGTGAGAGGAAGCCTGGGAGCAAACACTGCCAGCAGCATAGT  
GGGGAAACGGGAATTACCATCCTGATCATCAACCTGAAGAAGAGCTTGGCCTATATCCACATCCACAGTT  
GCCAGAAATTTTTGAGACCAAGTGCTTTATGGCTTCCTTTTCCACTGAAATTGTAGTGATGATGCTGTT  
TCTCACCATTCCTGGGACTTGGTAGTGCTGTCACTCACAACTGTGGAGCTGGGGAAGAACTCAAAGGA  
ACAAGTTCCAGAGGATCGTGTATGAAGAATTAACATATATTCAGCTACTTACAGTGAGTTGGAAG  
ACCCAGGGAAATGTCTCCTCCATTGATTTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC210371 protein sequence  
Red=Cloning site Green=Tags(s)

MDTESNRRANLALPQEPSSVPAFEVLEISPQEVSSGRLLKSASSPPLHTWLTVLKKEQEF LGVTQILTAM  
 ICLCFGTVVCSVL DISHIEGDI FSSFKAGYFPWGAIFFSISGMLSIISERRNATYLVRGSLGANTASSIA  
 GGTGITILIIINLKKSLAYIHIHSCQKFFETKCFMASFSTEIVVMMFLTILGLGSAVSLTICGAGEELKG  
 NKVPEDRVYEELNIYSATYSELEDPGEMSPPIDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6006\\_h06.zip](https://cdn.origene.com/chromatograms/mk6006_h06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_000139

**ORF Size:** 732 bp

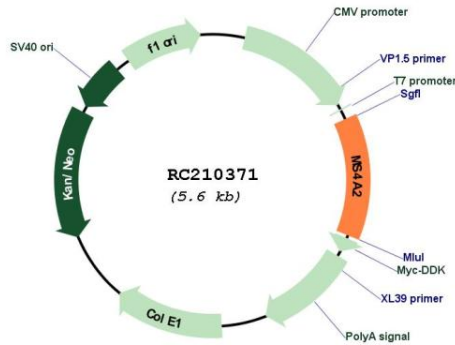
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

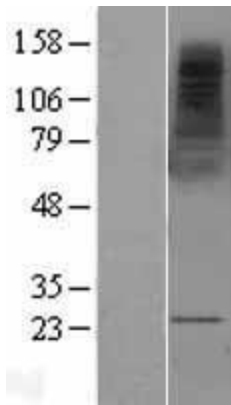
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<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 Size:</b>	3658 bp
<b>RefSeq ORF:</b>	735 bp
<b>Locus ID:</b>	2206
<b>UniProt ID:</b>	<a href="#">Q01362</a>
<b>Cytogenetics:</b>	11q12.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Asthma, Fc epsilon RI signaling pathway
<b>MW:</b>	26.5 kDa
<b>Gene Summary:</b>	<p>The allergic response involves the binding of allergen to receptor-bound IgE followed by cell activation and the release of mediators responsible for the manifestations of allergy. The IgE-receptor, a tetramer composed of an alpha, beta, and 2 disulfide-linked gamma chains, is found on the surface of mast cells and basophils. This gene encodes the beta subunit of the high affinity IgE receptor which is a member of the membrane-spanning 4A gene family. Members of this nascent protein family are characterized by common structural features and similar intron/exon splice boundaries and display unique expression patterns among hematopoietic cells and nonlymphoid tissues. This family member is localized to 11q12, among a cluster of membrane-spanning 4A gene family members. Alternative splicing results in multiple transcript variants encoding distinct proteins. Additional transcript variants have been described but require experimental validation. [provided by RefSeq, Mar 2012]</p>

Product images:



Circular map for RC210371



Western blot validation of overexpression lysate (Cat# [LY400048]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210371 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).