

Product datasheet for RG236513

MS4A2 (NM_001256916) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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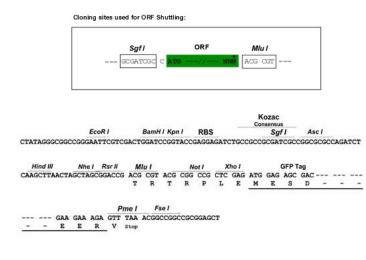
Product Type:	Expression Plasmids
Product Name:	MS4A2 (NM_001256916) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MS4A2
Synonyms:	APY; ATOPY; FCER1B; FCERI; IGEL; IGER; IGHER; MS4A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>RG236513 representing NM_001256916. Blue=ORF Red=Cloning site Green=Tag(s)</pre>
	GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGACACAGAAAGTAATAGGAGAGAGCAAATCTTGCTCTCCCACAGGAGCCTTCCAGTGTGCCTGCATTT GAAGTCTTGGAAATATCTCCCCAGGAAGTATCTTCAGGCAGACTATTGAAGTCGGCCTCATCCCACCA CTGCATACATGGCTGACAGTTTTGAAAAAGAGCAGGAGTTCCTGGGGTTTTCTATTTCTGGAATGTTG TCAATTATATCTGAAAGGAGAAATGCAACATATCTGGTGAGAGGAAGCCTGGGAGCAAACACTGCCAGC AGCATAGCTGGGGGAACGGGAATTACCATCCTGATCATCAACCTGAAGAGGAGCTTGGCCTATATCCAC ATCCACAGTTGCCAGAAATTTTTTGAGACCAAGTGCTTTATGGCTTCCTTTTCCACTGAAATTGTAGTG ATGATGCTGTTTCTCACCATTCTGGGACTTGGTAGTGCTGTCACTCAC
Protein Sequence:	<pre>>Peptide sequence encoded by RG236513 Blue=ORF Red=Cloning site Green=Tag(s) MDTESNRRANLALPQEPSSVPAFEVLEISPQEVSSGRLLKSASSPPLHTWLTVLKKEQEFLGFSISGML</pre>
	SIISERRNATYLVRGSLGANTASSIAGGTGITILIINLKKSLAYIHIHSCQKFFETKCFMASFSTEIVV MMLFLTILGLGSAVSLTICGAGEELKGNKVPEDRVYEELNIYSATYSELEDPGEMSPPIDL TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
Restriction Sites:	Sgfl-Mlul



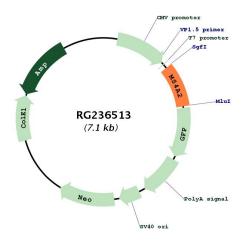
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Cloning Scheme:



Plasmid Map:



ACCN:	NM_001256916
ORF Size:	597 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. <u>More info</u>
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).

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ORIGENE MS4A2 (NM_001256916) Human Tagged ORF Clone – RG236513		
RefSeq:	<u>NM 001256916.1, NP 001243845.1</u>	
RefSeq Size:	3529 bp	
RefSeq ORF:	600 bp	
Locus ID:	2206	
Cytogenetics:	11q12.1	
Protein Families:	Druggable Genome, Transmembrane	
Protein Pathways:	Asthma, Fc epsilon RI signaling pathway	
MW:	22.1 kDa	
Gene Summary:	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]

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