

## Product datasheet for **RG206473**

### MS4A12 (NM\_017716) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MS4A12 (NM_017716) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MS4A12
Synonyms:	Ms4a10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206473 representing NM_017716 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGTCATCCAAGCCAACAAGCCATGCTGAAGTAAATGAAACCATACCCAACCCTTACCCACCAAGCA  
GCTTTATGGCTCCTGGATTTCAACAGCCTCTGGTTCAATCAACTAGAAAACCAAGCTCAGGGTGCTCA  
GCGTGCTCAGCCCTACGGCATCACATCTCCGGGAATCTTTGCTAGCAGTCAACCGGGTCAAGGAAATATA  
CAAATGATAAATCCAAGTGTGGAACAGCAGTAATGAACTTTAAAGAAGAAGCAAAGGCACTAGGGGTGA  
TCCAGATCATGGTTGGATTGATGCACATTGGTTTTGGAATTGTTTGTGTTAATATCCTTCTCTTTTAG  
AGAAGTATTAGGTTTTGCCTCTACTGCTGTTATTGGTGGATACCCATTCTGGGGTGGCCTTCTTTTATT  
ATCTCTGGCTCTCTCTGTGTCAGCATCCAAGGAGCTTTCCCGTTGTCTGGTGAAGGCAGCCTGGGAA  
TGAACATTGTTAGTTCTATCTTGGCCTTCATTGGAGTGATTCTGCTGCTGGTGGATATGTGCATCAATGG  
GGTAGCTGGCCAAGACTACTGGCCGTGCTTTCTGGAAAAGGCATTTTCAGCCACGCTGATGATCTTCTCC  
CTCTTGGAGTTCTTCGTAGCTTGTGCCACAGCCATTTTGCCAACCAAGCAAACACCACAATAATATGT  
CTGTCCTGGTTATTCCAATATGTATGAAAGCAACCCTGTGACACCAGCGTCTTCTTCAGTCTCTCCAG  
ATGCAACAACACTCAGCTAATGCCCTAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206473 representing NM\_017716  
 Red=Cloning site Green=Tags(s)

MMSSKPTSHAEVNETIPNPYPSSFMAGFGQQLGSINLENQAQGAQRAQPYGITSPGIFASSQPGQGN  
 QMINPSVGTAVMNFKEEAKALGVIQIMVGLMHIGFIVLCLISFSFREVLGFSTAVIGGYPFWGLSFI  
 ISGSLSVSASKELSRCLVKGSLGMNIVSSILAFIGVILLVDMCINGVAGQDYWAVLSGKGISATLMIFS  
 LLEFFVACATAHFANQANTTTNMSVLVIPNMYESNPVTPASSSAPPRCANNYSANAPK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_017716

**ORF Size:** 801 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\\_017716.1](#), [NP\\_060186.1](#)

**RefSeq Size:** 1182 bp

**RefSeq ORF:** 804 bp

**Locus ID:** 54860

**UniProt ID:** [Q9NXJ0](#)

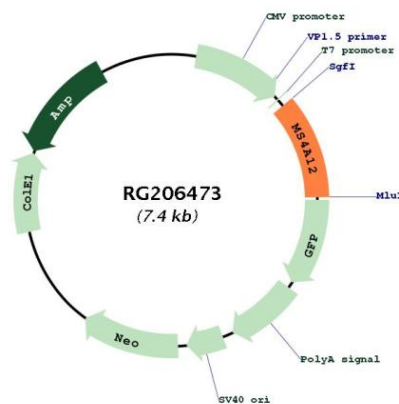
**Cytogenetics:** 11q12.2

**Domains:** CD20

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** The protein encoded by this gene is a cell surface protein found primarily in the apical membrane of colonocytes. Silencing of this gene in colon cancer cells inhibits the proliferation, cell motility, and chemotactic invasion of cells. This gene is part of a cluster of similar genes found on chromosome 11. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2009]

### Product images:



Circular map for RG206473