

Product datasheet for **RG228151**

MS4A12 (NM_001164470) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MS4A12 (NM_001164470) 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:	>RG228151 representing NM_001164470 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGTCATCCAAGCCAACAAGCCATGCTGAAGTAAATGAAACCATACCCAACCCTTACCCACCAAGCA
GCTTTATGGCTCCTGGATTTCAACAGCCTCTGGGTTCAATCAACTAGAAAACCAAGCTCAGGGTGCTCA
GCGTGCTCAGCCCTACGGCATCACATCTCCGGGAATCTTTGCTAGCAGTCAACCGGGTCAAGGAAATATA
CAAATGATAAATCCAAGTGTGGGAACAGCAGTAATGAACTTTAAGAAGAAGCAAAGGCACTAGGGTTTA
TTATCTCTGGCTCTCTCTGTGTGCAGCATCCAAGGAGCTTTCCGGTTGTCTGGTAAAGGCAGCCTGGG
AATGAACATTGTTAGTTCTATCTTGGCCTTCATTGGAGTGATTCTGCTGCTGGTGGATATGTGCATCAAT
GGGGTAGCTGGCCAAGACTACTGGGCCGTGCTTTCTGGAAAAGGCATTTAGCCACGCTGATGATCTTCT
CCCTCTTGAGGATTCTTCGTAGCTTGTGCCACAGCCATTTTGCCAACCAAGCAAACACCACAACCAATAT
GTCTGTCTGGTTATTCCAATATGTATGAAAGCAACCTGTGACACCAGCGTCTTCTTCAGCTCCTCCC
AGATGCAACAACACTACTCAGCTAATGCCCTAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228151 representing NM_001164470
Red=Cloning site Green=Tags(s)

MSSKPTSHAEVNETIPNPYPSSFMAPGFQQPLGSINLENQAQGAQRAQPYGITSPGIFASSQPGQGN
 QMINPSVGTAVMNFKEEAKALGFIIISGLSVSASKELSRCLVKGSLGMNIVSSILAFIGVILLVDMCIN
 GVAGQDYWAVLSGKGISATLMIFSLLEFFVACATAHFANQANTTTNMSVLVIPNMYESNPVTPASSSAPP
 RCNNYSANAPK

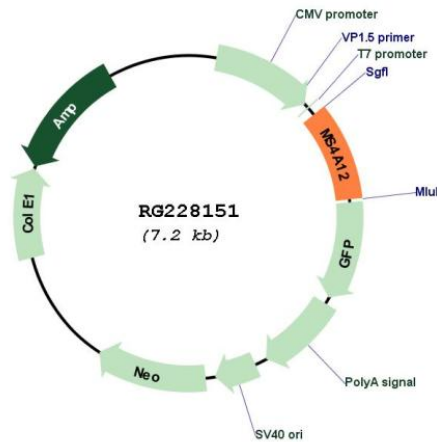
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001164470

ORF Size: 663 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:	<ol style="list-style-type: none">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_001164470.1 , NP_001157942.1
RefSeq Size:	1044 bp
RefSeq ORF:	666 bp
Locus ID:	54860
UniProt ID:	Q9NXJ0
Cytogenetics:	11q12.2
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]