

## Product datasheet for **MR225017**

### Ms4a3 (NM\_133246) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ms4a3 (NM_133246) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ms4a3
Synonyms:	HTm4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225017 representing NM_133246 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCCAGAGGAGACTGGTGGTTCTGTTTATCAGCCCTTGGATGAGTCAGCCATGTTCAACGAGGTG  
TACTGCAAGCCCTCGGGCCATCCAGATCCTGAATGGAATACTGATTCTAGCTCTCGGAATTTTCTGGT  
TTGTTTACAACAGTGTCCCACTTCAGGCATTTCTTCTTTCACCTTCTACACAGGCTACCCACTG  
TGGGTGCTGTGTTTTTATCAGCTCAGGATCCTTGACTGTTGCCGAGGGAGAAACCCACACGAATGC  
TGATGCAAAACAGTTTTGGGATAAACATTGCCAGTACTACAATTGCATTTGTTGGGACTGTTTCCTTTC  
TGTGCATTTGGCATTCAATACCCAGGCTTCAAGGGTTGCCAATCTTCACCGTCACCTGATGTCTGCATT  
TCCCTGGGTTCCCTCATCAGATGGCCTGGTGTCTTAAATGCTGATTCTCACCTGCTGGAGCTGTCCGTGA  
CCATTTCTATCTGCCATGTGGTGCTTGGGAAATGTTTGTGGTTTAAGAGAGGCAATTACTTCACCTCC  
TAATTCTGTGGAGTCAGGAATACTTCTGAAGGAAGTGATTCTGAGAACCTGAACACTCAGCCCCAAGCT  
TCAGAAGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:** >MR225017 representing NM\_133246  
 Red=Cloning site Green=Tags(s)

MKPEETGGSVYQPLDESRHVQRGVLQALGAIQILNGILILALGIFLVCLQHVSHHFRHFFFFFFFYTGYP  
 LGAVFFISSGSLTVAAGRNPTMLMQNSFGINIASTTIAFVGTVFLSVHLAFNTQAFKGCQSSPSDVC  
 I SLGSSSDGLVSLMLILTLLELSVTISISAMWCLGNVCGLREAITSPNSVESGILPEGSDSENLTQPQA  
 SEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9025\\_b01.zip](https://cdn.origene.com/chromatograms/mm9025_b01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_133246

**ORF Size:** 639 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_133246.5](#), [NP\\_573509.1](#)

**RefSeq Size:** 1012 bp

**RefSeq ORF:** 642 bp

**Locus ID:** 170813

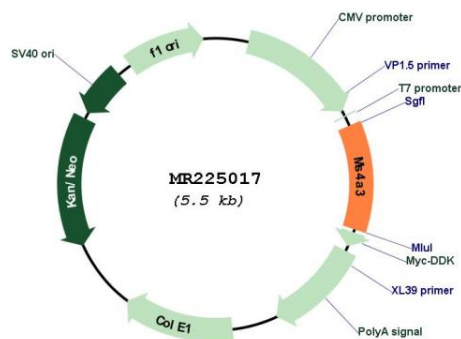
**UniProt ID:** [Q920C4](#)

**Cytogenetics:** 19 A

**MW:** 23.3 kDa

**Gene Summary:** Summary: This gene encodes a member of the membrane-spanning-four (MS4) protein group, that contain a four-transmembrane protein structure. This gene is expressed in developing hematopoietic cells and has also been observed in some regions of the adult brain. Expression of the human ortholog of this gene has also been observed in some human cancer cell lines. This protein may play a role in cell cycle regulation, and interactions have been demonstrated between Ms4a3 and KAP phosphatase. [provided by RefSeq, Jul 2014]

## Product images:



Circular map for MR225017