

## Product datasheet for MC224895

### Marf1 (NM\_001081154) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Marf1 (NM_001081154) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Marf1
Synonyms:	4921513D23Rik; BC031575; C87306; E030019O05; Lkap; mKIAA0430
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224895 representing NM_001081154 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGAAGGAAAGGAAGTGAACCCCTGCAGCAGAACACTTGGATGGTTTCACCAAGATAATGATGCTA  
AGCCGTGGCTTTGGAAATCTCTGGTTGCTTTTCTCGTCCCGAGCAGACATTGCCTCTTAGTTCCCAAAC  
GAAAGAGTACATGGAGAACAAGAAAGCTGCTGTGGAGTTAAAGGATATACCATCTCCCTTCATGTTGGC  
TCTAAATTTTCCAGCAGTCCCCTTCCCTGATATTCGTTCTCTTCAGCAACCTAAAGTACAGCTCTCAG  
CTATTCCAAAGTAAGCTGCTGTGCTCATTGCCCTAATGAACCCCTCCACTTCACCCATGCGTTTTGGTGG  
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GGGACAGTCACTGTCAAGTAGGGTCAAGTTTCTGGTCCAGTCCGTGTCTTCACTGCAGAAATGCCTCCA  
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CCACATCATTTTGGTACATAAAAACAGGCCTCTGAAGCCTTGTACATCATGCTAACCGCTGATCAGA  
TTTGAAGAGTTTCTGATCTCCCCCTCGGTTACCACTGAAGATTCCTTGCCCACTCTACTCTATG



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TTTATAACCTGCCAGCAAATAAAGATGGCAAGAGCATCAGCAACAGGCTCAGGCGCTCTCTGATAACTG  
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 ACAACAAGCCCCACCTCCCAACTGACCCTTGGCTTCTCGTTCTAAAAGTCTGTGAGAAATCCCCA  
 GCTGATTCAGTTCAGCAGAGAGTTCATTGATTTACTGAAGACCCAGCCATCGTGTATACTACCCGTCAGC  
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 CAGATCCAGCTGATCAATAGGAAGTCTCTGCGTCTCTCACTGCTCAGTGTCTGTTGTTGATGTCTT  
 GGAAGGGGATGCTTATCTTCTGTTGATGAGCTCAGGAGACATTATGAAACCACTCACAGCACTCCTCT  
 CAACCCCTGTGAATATGGATTATGACCCTGACTGAGCTACTGAAGAGTCTGCCGTACTTGTAGAGGTT  
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 CTTTGTCTCATACCTACTACTACCAGCAGATTTTTCTTCAATTTTCCATGGCCTATAACAAATATGT  
 TGGAGAAACACTACAGCCAAAATTTATGGCTACAGTGTGGAGGAATTACTGGGAGCCATCCCACAG  
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 GCTCATTTGACCTTTTCTGTCAATCATGAAGACCAGCCTGCAGTGCAGCAGGAGATCTGCGGTTGCC  
 AGAATCCCATCTAGCCTCAGAATCCAGCTCCGAACAGGACCCAGCCAGATGGAGCAGGAGCTTCTGCAC  
 CTGCCCAGCAGCTCCCCGTTGACCTGCTCTGTGCTCCTGTTCTTTCATGCCTGCCATCCCCCTCAGCTAA  
 GACCAGATCCTGTATCCTGAAGCCCGTGTCTCATTAGTTTGTAGGAACACCCCAAGAGCCTTTGGG  
 AGTTTTAGTTTTAAACCAAGAAGAAAAATCAGAAGTTCCTACTACCAGTGCAAAAGGGAAACCTGTCTGT  
 GACTCCTCACCCAGCAGCCAGCAGCTTCTCTGCTCCTCTGGCCCTCCTCAGAAGCCCCAGGCCAC  
 TTTTCAGCAAGGATGCAGTGGAAAGCCAGCCAAAAAGCAGCCAAAAATAGAGTCAAATTTGGCAGCCAA

CTTTTCTTTTGCACCTGTAACCAAGCTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001081154
<b>Insert Size:</b>	5211 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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:</b>	<u>NM_001081154.2, NP_001074623.1</u>
<b>RefSeq Size:</b>	7765 bp
<b>RefSeq ORF:</b>	5211 bp
<b>Locus ID:</b>	223989
<b>UniProt ID:</b>	<u>Q8BJ34</u>
<b>Cytogenetics:</b>	16 A1
<b>Gene Summary:</b>	Essential regulator of oogenesis required for female meiotic progression to repress transposable elements and preventing their mobilization, which is essential for the germline integrity. Probably acts via some RNA metabolic process, equivalent to the piRNA system in males, which mediates the repression of transposable elements during meiosis by forming complexes composed of RNAs and governs the methylation and subsequent repression of transposons. Also required to protect from DNA double-strand breaks.[UniProtKB/Swiss-Prot Function]