

## Product datasheet for **SC305340**

### MFRP (NM\_031433) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MFRP (NM_031433) Human Untagged Clone
Tag:	Tag Free
Symbol:	MFRP
Synonyms:	CTRP5; MCOP5; NNO2; RD6
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_031433 edited  
 GTACAAAAAGCAGAAGGGCCGTCAAGGCCACCATGAAGGACTTCTCAGATGTCATCCT  
 CTGCATGGAGGCAACAGAATCGAGCAAGACCGAGTTCTGCAATCCTGCCTTCGAGCCTGA  
 GTCTGGGCCACCCCTGCCCTCCCCAGTTTTCCAGAGGATGCCAGCTACAGCGTCCCAGC  
 TCCCTGGCATGGTCGGCGTCTCGAGGGCTACGGCCAGACTGCCGCTTCTCCTGGCTCTG  
 TGTCTCTCTGCTCCAGCCTGCTCCTCTGCTGCTGGGCTGCTGGTGGCCATCATCCT  
 GGCCACGCTGCAGGCTGCACCCCATCTGGGGCGTCCCATAGCCCACTGCCTGCCGGAGG  
 CCTTACCACGACCACCACCCACCACCATCACCACCTCTCAGGCAGCTGGGACCCCTAA  
 AGGGCAGCAGGAGTCAGGCGTGAGCCCTCCCCACAGTCCACCTGTGGAGCCTCTCTC  
 TGGCCCAAGGGGCTTCTTCAGCAGCCCTAACTACCCAGACCCCTACCCCCCAACACCCA  
 CTGCGTGTGGCATATCCAGGTGGCCACAGACCATGCAATACAGCTCAAGATCGAAGCCCT  
 CAGCATAGAGAGTGTGGCCTCTTGCCTTTTTGATCGCTTGAAGTCTCCCTGAGCCTGA  
 AGGCCCTCTCAGGGTTGTGGAAGGGTGCCTCCCCACGCTCAACACCAATGCCAG  
 CCACCTCTGGTGTCTCGTCTCTGACAGCAGTGTGGAAGGATTTGGTTTCCATGCCTG  
 GTACCAGGCTATGGCCCTGGGCGGGAGCTGTGCCATGATGAGTTCCGCTGTGACCA  
 GCTCATCTGCCTGCTACCTGACTCAGTGTGTGATGGTTTTGCCAACTGTGCTGACGGCAG  
 TGATGAGACCAATTGCAGTGCCAAGTTCTCGGGGTGTGGGGGAATCTGACTGGCCTCCA  
 GGGCACTTTCTACTCCAGCTACCTGCAGCAGTACCCTCACCAACTGCTCTGCACCTG  
 GCATATCTCGGTGCCTGCCGGACACAGCATAGAAGTACAGTTCCACAACCTCAGCCTGGA  
 GGCTCAGGACGAGTGAAGTTTACTACGTGGAGGTGTATGAGACCAGCAGCTCAGGGGC  
 CTTCAGCCTCTGGGCAGTTCTGTGGAGCAGAGCCACCCCCACCTCGTCTCCTCGCA  
 CCATGAGCTGGCTGTGCTGTTTAGGACAGATCATGGCATCAGCAGTGGAGGCTTCTCAGC  
 CACTACCTGGCCTTCAATGCCACGGAGAACCCTGTGGGCCCACTGAGCTCTCCTGCCA  
 GGCAGGAGGGTGAAGGGTGTGCAGTGGATGTGTGACATGTGGAGAGACTGCACCGATGG  
 CAGCGATGACAACCTGCAGCGCCCTTGTTCACCCCAAGAGCTGGCCTGTGAGCCTGT  
 CCAGGTGGAGATGTGCCTCGGTCTGAGCTACAACACCACAGCCTTCCCTAACATCTGGGT  
 GGGCATGATCACCCAGGAGGAGGTGGTAGAGTCTCAGCGTTACAAGAGCCTGACAAG  
 CCTGCCCTGCTACCAGCATTTCCGGAGGCTCCTGTGTGGGCTGCTGTGCCCCGTTGCAC  
 CCCACTAGGCAGTGTCTGCCCTTGGCGCTGTCTGCCAGGAAGCGGAGCACCAGTG  
 CCAGTCTGGCCTGGCACTACTGGGCACCCCTGGCCCTTCAACTGCAACAGGCTGCCAGA  
 GGCAGCTGACCTGGAAGCTTGTGCCAGCCCTAGGGCCTCATGGGCCAGCTTTCTTGTA  
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**Restriction Sites:** Please inquire

**ACCN:** NM\_031433

**Insert Size:** 1800 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_031433.1.
<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><a href="#">NM_031433.1</a></u> , <u><a href="#">NP_113621.1</a></u>
<b>RefSeq Size:</b>	2519 bp
<b>RefSeq ORF:</b>	1740 bp
<b>Locus ID:</b>	83552
<b>UniProt ID:</b>	<u><a href="#">Q9BY79</a></u>
<b>Cytogenetics:</b>	11q23.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	This gene encodes a member of the frizzled-related protein family. The encoded protein plays an important role in eye development and mutations in this gene have been associated with nanophthalmos, posterior microphthalmia, retinitis pigmentosa, foveoschisis, and optic disc drusen. The protein is encoded by a bicistronic transcript which also encodes C1q and tumor necrosis factor related protein 5 (C1QTNF5). [provided by RefSeq, Jun 2013]