

Product datasheet for **RC215645**

MARCHF5 (NM_017824) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	MARCHF5
Synonyms:	MARCH-V; MARCH5; MITOL; RNF153
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC215645 representing NM_017824
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCGGACCAAGCCCTACAGCAGATGCTGGACAGAAGTTGCTGGGTTTGTCTTCTACTGATGAAGATG
ATAGAACAGCTGAATGGGTGAGACCATGCAGGTGCAGAGGATCTACAAAATGGGTTCCACGAGCCTGTCT
ACAACGCTGGGTGGATGAAAAGCAAAGAGGAAACAGTACAGCCAGAGTGGCATGTCTCAGTGCAATGCT
GAATACCTAATAGTTTTTCCAAAATGGGTCCAGTGGTTACGTCTTGGATCTTGCAGATAGACTGATCT
CAAAAGCCTGTCCATTTGCTGCAGCAGGAATAATGGTCGGCTCTATCTATTGGACAGCTGTGACTTATGG
AGCAGTGACAGTGATGCAGGTTGTAGGTGCATAAAGAAGGTCTGGATGTTATGGAGAGAGCTGATCCTTTA
TTCCTTTTAATTGGACTTCCTACTATTCTGTCTGCTGATATTAGGCAAGATGATTCGCTGGGAGGACT
ATGTGCTTAGACTGTGGCGAAATACTCGAATAAACTACAAATTTAAATAGTATATTTCCAGGGATAGG
TTGTCCTGTTCTCGAATTCAGCTGAGGCCAATCCTTTAGCAGATCATGTCTCTGCTACTCGAATCTTG
TGTGGAGCCCTTGCTTTCTACTATTGCTACAATAGTTGGTAAATTGATGTTCAAGTGTAACTCTA
ATTTACAAAGGACAATCTTGGGTGGAATTGCGTTTGTGCCATAAAAGGAGCATTAAAGTTTACTTCAA
ACAGCAGCAATATTTACGACAGGCACACCGCAAAATCTGAATTATCCAGAACAAGAAGAAGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC215645 representing NM_017824
Red=Cloning site Green=Tags(s)

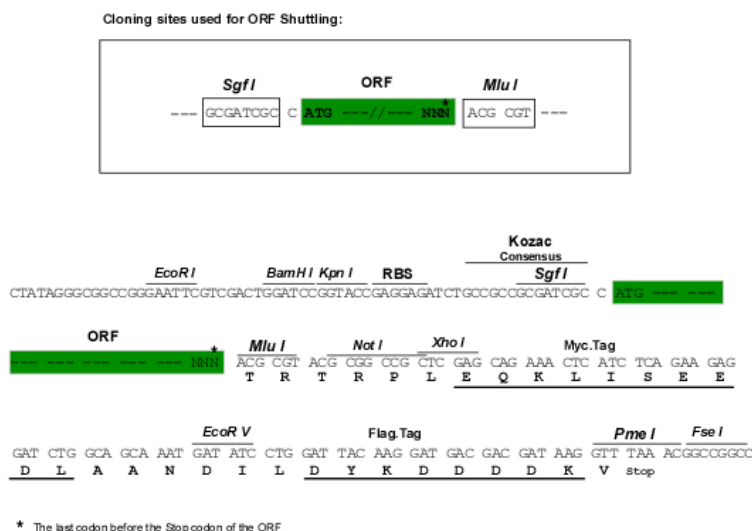
MPDQALQQMLDRSCWVCFATDEDDRTAEWVRPCRGRSTKVVHQALQRWVDEKQRGNSTARVACPQCNA
EYLIVFPLKGPVVVYLDLADRLISKACPFAAAGIMVGSIIYWTAVTYGAVTVMQVVGHEGLDVMERADPL
FLLI GLPTIPVMLILGKMI RWEDYVLRWRKYSNKLQTLNSIFPGIGCPVPRIPAEANPLADHVSATRL
CGALVEPTIATIVGKLMFSSVNSNLORTILGGIAFVAIKGAFKVYFKQOQYLRQHRKILNYPEOEEA

TRTRPLFOKLISEFDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6105_c10.zip

Restriction Sites: SqaI-MluI

Cloning Scheme:



ACCN: NM_017824

ORF Size: 834 bp

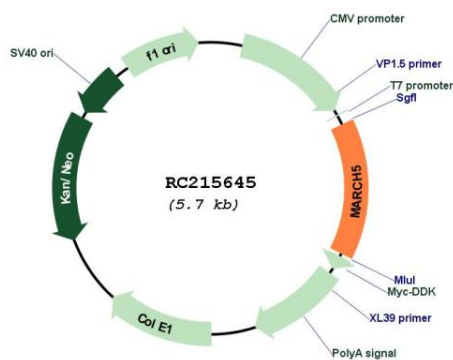
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

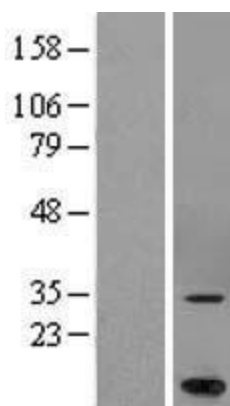
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_017824.5</u>
RefSeq Size:	3941 bp
RefSeq ORF:	837 bp
Locus ID:	54708
UniProt ID:	<u>Q9NX47</u>
Cytogenetics:	10q23.32-q23.33
Domains:	RING
Protein Families:	Transmembrane
MW:	31.1 kDa
Gene Summary:	MARCH5 is a ubiquitin ligase of the mitochondrial outer membrane that plays a role in the control of mitochondrial morphology by regulating mitofusin-2 (MFN2; MIM 608507) and DRP1 (DNM1L; MIM 603850) (Nakamura et al., 2006 [PubMed 16936636]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC215645



Western blot validation of overexpression lysate (Cat# [LY413504]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215645 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).