

Product datasheet for **RG207517**

MARCHF2 (NM_016496) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MARCHF2 (NM_016496) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MARCHF2
Synonyms:	HSPC240; MARCH-II; MARCH2; RNF172
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207517 representing NM_016496 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGACGGGTGACTGCTGCCACCTCCCCGGCTCCCTGTGTGACTGCTCCGGCAGCCCTGCCTTCTCCA
AGGTCGTGGAGGCTACGGGCCTCGGACCGCCCCAGTATGTGGCACAGGTGACTTCAAGGGATGGCCGGCT
CCTCTCCACCGTCATCCGTACCTTGGACACACCGAGTGATGGTCCTTTCTGCCGGATCTGCCATGAGGGA
GCGAACGGGGAGTGTCTGTCCCGTGTGGCTGCACCGGCACGCTGGGTGCCGTGCATAAGAGCTGTC
TGGAGAAGTGGCTTTCCTCATCTAACACCAGCTACTGCGAGCTGTCCACACGGAGTTTGCAGTGGAGAA
ACGGCCTCGACCCCTCACAGAGTGGCTGAAGGACCCGGGCGCGGACGGAAGCGGACACTGTGCTGC
GACATGGTGTGTTTCTGTTTCATCACACCGCTGGCCGCCATCTCAGGCTGGTTGTGCCTGCGCGGGGCC
AGGACCACCTCCGGCTCCACAGCCAGCTGGAGGCCGTGGGTCTCATTGCCCTCACCATCGCCCTCTTAC
CATCTATGTCCTCTGGACGCTGGTCTCCTTCCGCTACCACTGCCAGCTGTACTCCGAGTGGAGAAAGACC
AACCAGAAAGTTCGCCTGAAGATCCGGGAGGCGGACAGCCCCGAGGGCCCCCAGCATTCTCCACTGGCAG
CTGGACTCCTGAAGAAGGTGGCAGAGGAGACACCGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207517 representing NM_016496
 Red=Cloning site Green=Tags(s)

MTTGDCCHLPGSLCDCSGSPAFSKVVEATGLGPPQYVAQVTSRDGRLSTVIRTLDTPSDGPFCRICHEG
 ANGECLLSPCGCTGTLGAVHKSCLEKWLSSNNTSYCELCHTEFAVEKRPRPLTEWLKDPGPRTEKRTLCC
 DMVCFLFITPLAAISGWLCLRGAQDHLRLHSQLEAVGLIALTIALFTIYVLWTLVSFRYHCQLYSEWRKT
 NQKVRLKIREADSPEGPQHSPLAAGLLKKVAEETPV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_016496

ORF Size: 738 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.

RefSeq: [NM_016496.3](#), [NP_057580.2](#)

RefSeq Size: 1705 bp

RefSeq ORF: 741 bp

Locus ID: 51257

UniProt ID: [Q9P0N8](#)

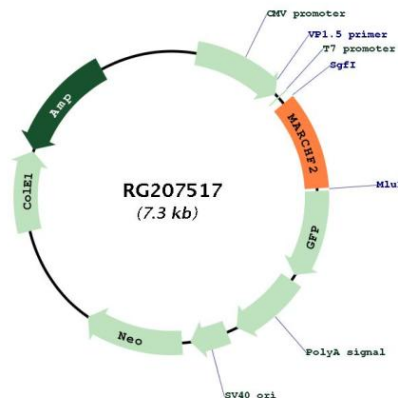
Cytogenetics: 19p13.2

Domains: RING

Protein Families: Druggable Genome, Transmembrane

Gene Summary: MARCH2 is a member of the MARCH family of membrane-bound E3 ubiquitin ligases (EC 6.3.2.19). MARCH enzymes add ubiquitin (see MIM 191339) to target lysines in substrate proteins, thereby signaling their vesicular transport between membrane compartments. MARCH2 reduces surface accumulation of several glycoproteins and appears to regulate early endosome-to-trans-Golgi network (TGN) trafficking (Bartee et al., 2004 [PubMed 14722266]; Nakamura et al., 2005 [PubMed 15689499]).[supplied by OMIM, Mar 2010]

Product images:



Circular map for RG207517