

Product datasheet for **SC300949**

MARCHF2 (NM_001005415) Human Untagged Clone

Product data:

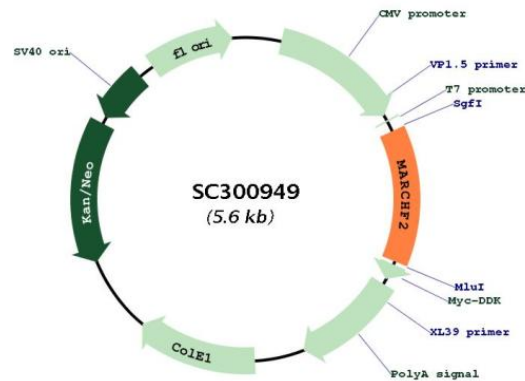
Product Type:	Expression Plasmids
Product Name:	MARCHF2 (NM_001005415) Human Untagged Clone
Tag:	Tag Free
Symbol:	MARCHF2
Synonyms:	HSPC240; MARCH-II; MARCH2; RNF172
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC300949 representing NM_001005415. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGGATCGCC
ATGACGACGGGTGACTGCTGCCACCTCCCCGGCTCCCTGTGTGACTGCTCCGGCAGCCCTGCCTTCTCC
AAGGTCGTGGAGGCTACGGGCTCGGACCGCCCCAGTATGTGGCACAGGTGACTTCAAGGGATGGCCGG
CTCCTCTCCACCGTCATCCGTGCCTTGGACACACCGAGTGATGGTCCTTTCTGCCGGATCTGCCATGAG
GGAGCGAACGGGAGTGCTTGTGTCCCGTGTGGCTGCACCGGCACGCTGGGTGCCGTGCATAAGAGC
TGTCTGGAGAAGTGGCTTCTCATCTAACACCAGCTACTGCGAGCTGTCCACACGGAGTTTGCAGTG
GAGAAACGGCCTCGACCCTCACAGAGTGGCTGAAGGACCGGGCCGGGACGGAGAAGCGGACACTG
TGCTGCGACATGGTGTGTTTCTGTTTATCACACCGCTGGCCGCATCTCAGGCTGGTGTGCTGCGC
GGGGCCCAGGACCACCTCCGGCTCCACAGCCAGCTGGAGGCCGTGGGTCTCATTGCCCTCACCATGCC
CTCTTCACCATCTATGTCTCTGGACGCTGGTCTCCTTCCGCTACCAGTCCAGCTGACTCCGAGTGG
AGAAAGACCAACCAGAAAGTTCCGCTGAAGATCCGGGAGGCGGACAGCCCCGAGGGCCCCAGCATTCT
CCACTGGCAGCTGGACTCCTGAAGAAGGTGGCAGAGGAGACACCAGTATGA
ACGGCTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-MluI



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Plasmid Map:


ACCN: NM_001005415

Insert Size: 741 bp

OTI Disclaimer: 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001005415.1](https://www.ncbi.nlm.nih.gov/nuccore/NM_001005415.1)

RefSeq Size: 1434 bp

RefSeq ORF: 741 bp

Locus ID: 51257

UniProt ID: [Q9P0N8](#)

Cytogenetics: 19p13.2

Protein Families: Druggable Genome, Transmembrane

MW: 27 kDa

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]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 4. Variants 1, 2, and 4-7 all encode the longer isoform (1).