

## Product datasheet for **SC312747**

### **MARCH I (MARCH1) (NM\_017923) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MARCH I (MARCH1) (NM_017923) Human Untagged Clone
Tag:	Tag Free
Symbol:	MARCHF1
Synonyms:	MARCH-I; MARCH1; RNF171
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC312747 representing NM_017923. Blue=Insert sequence Red=Cloning site Green=Tag(s)

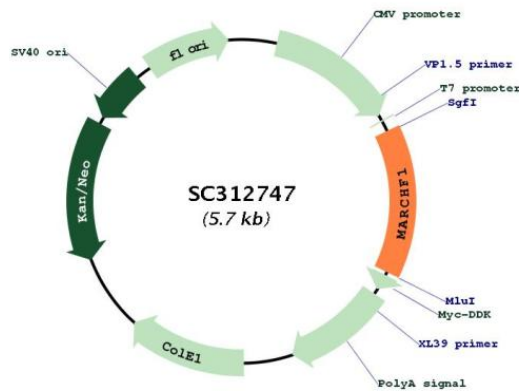
```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGACCAGCAGCCACGTTTGTGTAAATTTTAAATATGTGAAAAAAGCAAGATATCAACCATGTAT
TACCTTAACCAAGATGCCAAATTATCTAACTTGTCTCCAGGCAAGCAGCCCAACAACAGGGACAGCT
CCCAGGAGCCAGTCAAGTTGTCTGTCTGTCCATCCACTCAGGACATCTGCAGAACTGTCTACTGCGAA
GGGGATGAAGAGAGCCCCCTCATCACACCCTGTCGCTGCACTGGGACACTGCGCTTGTCCACCAGTCC
TGCTCCACCAGTGGATAAAGAGCTCAGATACAGCTGCTGTGAGCTCTGCAAGTATGACTTCATAATG
GAGACCAAGCTCAAACCCCTCCGGAAGTGGGAGAACTACAGATGACCACAAGTAAAGGAGGAAAATA
TTCTGCTCTGTACATTCCACGTAATCGCGATCACCTGTGTGGTTTGGTCTTTGTATGTATTGATAGAC
CGGACAGCGGAGGAAATCAAGCAAGGCAATGACAATGGTGTCTTGAATGGCCATTTGGACAAAACG
GTTGTGGTAGCCATTGGCTTACAGGAGGTCTTGTCTTCAATGTACGTACAGTGTAAAGTCTATGTTGAG
TTGTGGCGCAGGCTGAAGGCTACAACCGTGTGATCTTTGTACAAAATTGCCAGACACTGCCAAAAAA
CTGGAGAAGAATTCTCATGTAATGTAACACAGACATCAAAGATGCTGTGGTAGTGCCTGTACCACAA
ACAGGTGCAAATTCAGTCCATCTGCAGAGGGTGGCCCCCTGAAGTTGTATCAGTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Restriction Sites: SgfI-MluI



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## Plasmid Map:



ACCN: NM\_017923

Insert Size: 819 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\\_017923.3](#)

RefSeq Size: 5389 bp

RefSeq ORF:	819 bp
Locus ID:	55016
UniProt ID:	<a href="#">Q8TCQ1</a>
Cytogenetics:	4q32.2-q32.3
Domains:	RING
Protein Families:	Druggable Genome, Transmembrane
MW:	30.9 kDa
Gene Summary:	<p>MARCH1 is a member of the MARCH family of membrane-bound E3 ubiquitin ligases (EC 6.3.2.19). MARCH proteins add ubiquitin (see MIM 191339) to target lysines in substrate proteins, thereby signaling their vesicular transport between membrane compartments. MARCH1 downregulates the surface expression of major histocompatibility complex (MHC) class II molecules (see MIM 142880) and other glycoproteins by directing them to the late endosomal/lysosomal compartment (Bartee et al., 2004 [PubMed 14722266]; Thibodeau et al., 2008 [PubMed 18389477]; De Gassart et al., 2008 [PubMed 18305173]). [supplied by OMIM, Mar 2010]</p> <p>Transcript Variant: This variant (2) lacks multiple exons at its 5' end and has a novel segment at its 5' end, compared to variant 1. These differences result in a protein (isoform 2) with a shorter and distinct N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>