

Product datasheet for **RG222000**

MARCH I (MARCH1) (NM_017923) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MARCH I (MARCH1) (NM_017923) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MARCHF1
Synonyms: MARCH-I; MARCH1; RNF171
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG222000 representing NM_017923
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCAGCAGCCACGTTTGTGTAATTTTTAAATATGTGGAAAAAGCAAGATATCAACCATGTATT
 ACCTTAACCAAGATGCCAAATTCTAACTTGTCTCCAGGCAAGCAGCCCAACAACAGGGACAGCTCC
 CAGGAGCCAGTCAAGTTGTCTGTCTGTCCATCCACTCAGGACATCTGCAGAATCTGCTACTGCGAAGG
 GATGAAGAGAGCCCCCTCATCACACCCTGTCGCTGCACTGGGACTGCGCTTTGTCCACCAGTCTGCC
 TCCACCAGTGGATAAAGAGCTCAGATACACGCTGCTGTGAGCTCTGCAAGTATGACTTCATAATGGAGAC
 CAAGCTCAAACCCCTCCGGAAGTGGGAGAACTACAGATGACCACAAGTAAAGGAGGAAAAATTTCTGC
 TCTGTACATTCCACGTAATCGCGATCACCTGTGTGGTTGGTCTTTGTATGTATTGATAGACCGGACAG
 CGGAGGAAATCAAGCAAGGCAATGACAATGGTGTCCCTTGAATGGCCATTTTGGACAAAACGGTTGTGGT
 AGCCATTGGCTTCACAGGAGGTCTTGTCTTATGTACGTACAGTGTAAAGTCTATGTTTCAGTTGTGGCGC
 AGGCTGAAGGCCCTACAACCGTGTGATCTTTGTACAAAATTGCCAGACTGCCAAAAACTGGAGAAGA
 ACTTCTCATGTAATGTAACACAGACATCAAAGATGCTGTGGTAGTGCCTGTACCACAAACAGGTGCAAA
 TTCCTGCCATCTGCAGAGGGTGGCCCCCTGAAGTTGTATCAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222000 representing NM_017923
 Red=Cloning site Green=Tags(s)

MTSSHVCCNFLNMWKKSKISTMYLNLQDAKLSNLFQASSPTTGTAPRSQSRLSVC PSTQD ICRICHCEG
 DEESPLITPCRC TGLRFVHQSLHQWIKSSDTRCCELCKYDFIMETK LKPLRKWEKLQMTTSERRKIFC
 SVTFHVIAITCVVWSLYVLIDRTAEEIKQGN DNGVLEWPFWTKLVVVAIGFTGGLVFMVYQCKVYVQLWR
 RLKAYNRVIFVQNC PDAKKLEKNFSCNVNTDIKDAVVVPVPQTGANS LPSAEGGPPEVSV

TRTRPLE - GFP Tag - V

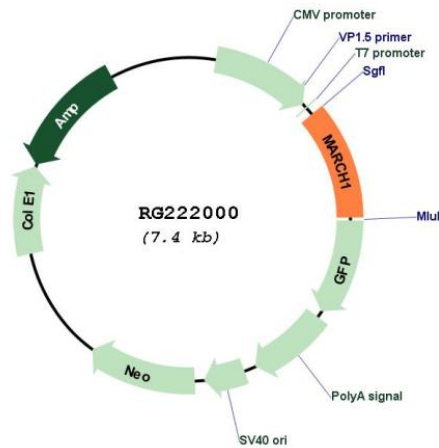
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_017923

ORF Size: 816 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:	<ol style="list-style-type: none">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_017923.4
RefSeq Size:	1790 bp
RefSeq ORF:	819 bp
Locus ID:	55016
UniProt ID:	Q8TCQ1
Cytogenetics:	4q32.2-q32.3
Domains:	RING
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	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]