

## Product datasheet for **RG229839**

### **MARCH I (MARCH1) (NM\_001166373) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MARCH I (MARCH1) (NM\_001166373) 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:** >RG229839 representing NM\_001166373  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGGGCTGGTGTGAAGCGATAGCCCGTAACCCTCACAGAATTCAAACAACACGCGAACACCCGAGA  
 TCTCAGGGGATTTGGCTGACGCCTCACAACTCCACATTGAATGAAAAATCCCCAGGGCGATCTGCAAG  
 TCGATCAAGTAACATTTCAAAGCAAGCAGCCCAACAACAGGGACAGCTCCAGGAGCCAGTCAAGGTTG  
 TCTGTCTGTCCATCCACTCAGGACATCTGCAGAATCTGCTACTGCGAAGGGGATGAAGAGAGCCCTCA  
 TCACACCTGTCGCTGCTGACTGGGACTGCGCTTTGTCCACCAGTCTGCCTCCACCAGTGGATAAAGAG  
 CTCAGATACACGCTGCTGTGAGCTCTGCAAGTATGACTTCATAATGGAGACCAAGCTCAAACCCCTCCGG  
 AAGTGGGAGAACTACAGATGACCACAAGTGAAAGGAGGAAAATATTCTGCTCTGTACATTCCACGTAA  
 TCGCGATCACCTGTGTGGTTTGGTCTTTGTATGTATTGATAGACCGGACAGCGGAGGAAATCAAGCAAGG  
 CAATGACAATGGTGTCTTGAATGGCCATTTGGACAAAAGTGGTTGTGGTAGCCATTGGCTTACAGGA  
 GGTCTTGTCTTACATGTACGTACAGTGTAAAGTCTATGTTCAAGTTGGCGCAGGCTGAAGGCTACAACC  
 GTGTGATCTTTGTACAAAATTGCCAGACTGCCAAAAAAGTGGAGAAGAACTTCTCATGTAATGTAAA  
 CACAGACATCAAAGATGCTGTGGTAGTGCCTGTACCACAACAGGTGCAAATTCAGTCCATCTGCAGAG  
 GGTGGCCCCCTGAAGTTGTATCAGTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG229839 representing NM\_001166373  
 Red=Cloning site Green=Tags(s)

MLGWCEAIARNPHRIPNNTRTPEISGLDADASQTSTLNEKSPGRSASRSSNISKASSPTTGTAPRSQSRL  
 SVCPOSTQDICRICHCEGDEESPLITPCRCTGTLRFVHQSLHQWIKSSDRCCCELCKYDFIMETKPKPLR  
 KWEKLQMTTSERRKIFCSVTFHVIAITCVVWSLYVLIDRTAAEIKQGNDNGVLEWPFWTKLVVVAIGFTG  
 GLVFMVYQCKVYVQLWRRLLKAYNRVIFVQNCPTD AKKLEKNF SCNVNTDIKDVAVVVVPVQTGANSPLSAE  
 GGPPEVSV

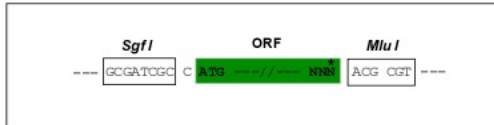
TRTRPLE - GFP Tag - V

**Restriction Sites:**

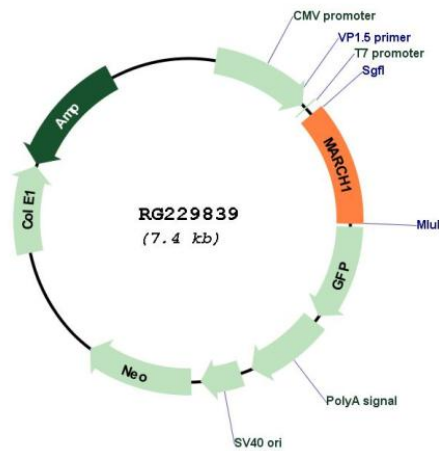
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001166373

**ORF Size:** 867 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001166373.1</a> , <a href="#">NP_001159845.1</a>
<b>RefSeq Size:</b>	5502 bp
<b>RefSeq ORF:</b>	870 bp
<b>Locus ID:</b>	55016
<b>UniProt ID:</b>	<a href="#">Q8TCQ1</a>
<b>Cytogenetics:</b>	4q32.2-q32.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	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]