

## Product datasheet for **RG238944**

### **MARCHF8 (NM\_001282866) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MARCHF8 (NM_001282866) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MARCHF8
Synonyms:	c-MIR; CMIR; MARCH-VIII; MARCH8; MIR; RNF178
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG238944 representing NM\_001282866.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAGCATGCCACTGCATCAGATCTCTGCCATTCATCCCAGGATGCCATCTCTGCTAGAGTCTACAGA
AGTAAGACCAAAGAAAAGGAGAGGGAAGAACAAGAAATGAGAAGACTTTGGACATTTTCATGAGTCATTCA
AGCAACATTTTCTAAGGCTGGGAGTCTCCGTCAGCATCAGCTCCGGCTCCGGTGTCTCCTTCTCTCGC
ACTTCTATCACGCCATCCAGCCAGGACATCTGCAGTTCAGTGCAGTGTCTTCTGAGTGTGTACCAC
AGTTCCGTGCAGTCTGCTGTTGTCTCGAAAGCTCCTCACTGCCAGAGTCTCTGACACAAGGGCTCACT
GTGACAGTTATCTGTAAGGACACATTACAGGCGTCAAAGAGAAATTCCTTTGGTTCAGAATGGGCCAG
GCCTTGAAGCCTGCTAAGAATACCAAAGCCAGAAGAACAATAAGTTCTCAAGTCCCTCAATGATGTG
GGTGAGAAGGCGCAGGATACTTCAGAAAGTTTGCCTATGTGGAAAGAACTTGTCTGAAGGAAATTA
ATACTCCCTCAAGATACGTGTCTCAGAATAACAGGTTTCATCATAAAGAAAAAAGAACCTGAACCAC
AAACCTCTTGGAATTCAAACATCTTGTGTTTCATGCCTTTCTGCCGGTCGCTCAACTGCCTCAGAG
GTGGAAGCTGGCAAGGGGGCAGGCCCGCCTGCTGCTGGAAGAGAAGGGGATGGTGAGGCCACGTCC
CGAAGCCGGCAACTGCTCCAGTACCTGTTCTCACTCTCGACGGCTTGAGCGCCAGCAGCCTGCACAGG
TTCCATGAGCTGGAGAGCTGCGCTGCTCGCTGCACACTGCCAAGTCTCCAGCGGGCTGGCAGGGAGT
ATGGGCTTCTGCTCTGACGAGATGGGAGACGACGATGTCTTTGAGGACAGCACATCTGCAAACTGAAG
AGTAGGGTTCTGCGGGCGCCCTCTGCTCCACGGAAAAGGACAGCGACCTGGATTGTCTCTCCCTTC
TCTGAAAAATACCCCCATATCTCCCGTGTCCACGTACGGGGATGTCTGCAGGATCTGCCACTGTGAA
GGAGATGATGAGAGCCCCCTGATCACCCCTGCCACTGCACAGGAAGCCTCCACTTCGTGCACCAGGCC
TGCTGCAGCAGTGGATCAAGAGCTCCGACACGCGTCTGCGAGCTCTGCAAGTATGAGTTCATCATG
GAGACCAAGCTGAAGCCACTGAGAAAATGGGAGAAGTTGCAGATGACGTCCAGCGAGCGCAGGAAGATC
ATGTGCTCAGTGACATTCACGTCATTGCCATCAGTGTGGTCTGGTCTTGTATGTGCTCATTGAC
CGTACTGCTGAGGAGATCAAGCAGGGGCAGGCAACAGGAATCCTAGAATGGCCCTTTTGGACTAAATTG
GTGTTGTGGCCATCGGCTTACCGGAGGACTCTTTTTATGTATGTTCAAGTGTAAAGTGTATGTGCAA
TTGTGGAAGAGACTCAAGGCCTAATAGAGTGTCTATGTTCAAACTGTCCAGAAACAAGCAAAAAG
AATATTTTTGAAAAATCTCCACTAACAGAGCCAACTTTGAAAAAATAACATGGATATGGAATCTGTCAT
TCCGACACAACTCTTCTTGTTCACAGAGCCTGAAGACTGGAGCAGAAATCATTACGTC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238944  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MSMPLHQISAIPSQDAISARVYRSKTKEKEREQNEKTLGHFMSHSSNISKAGSPPSASAPVVSFSR
TSITPSSQDICSSEAVFSECCHHSVQSAVVSAPHCQSSLTQGLTVTVICKDTLQASKRNSFGSEWAQ
ALKPAKNTKARRTLKFSRSLNDVGEKAQDTSESFAYVERTCSEGKLLLPQDCLRTNRFHHKEKRTLNH
KPLGNSKHSCVSCLSAGRSTASEVEAGKGRPGLLLEEKADGEATSRSRQLLQYLFSLSHGLSASSLHR
FHELESCAARLHTAKSSSGLAGSMGFCSEMDDDDVFEDSTSAKLSRVLRAPLCSTEKDSLDPCSPF
SEKLPPIPVSTSGDVCRICHCEGDDESPLITPCHCTGSLHFVHQACLQWIKSSDTRCCELCKYEFIM
ETKLPKRWKELQMTSSERRKIMCSVTFHVIAITCVVWSLYVLIDRTAEEIKQGQATGILEWPFWTKL
VVVAIGFTGGLLFMYVQCKVYVQLWKRLKAYNRVIYVQNPCETSKKNIFEKSPLTEPNFENKHGYGICH
SDTNSSCCTEPEDTGAEIIHV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIIGDFKVMGTGFPE
SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSDMHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001282866

**ORF Size:** 1719 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).

**RefSeq:** [NM\\_001282866.2](#)

**RefSeq Size:** 5658 bp

**RefSeq ORF:** 1722 bp

**Locus ID:** 220972

**UniProt ID:** [Q5T0T0](#)

**Cytogenetics:** 10q11.21-q11.22

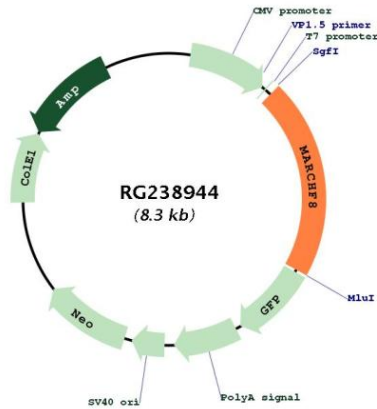
**Protein Families:** Druggable Genome, Transmembrane

**MW:** 63.8 kDa

**Gene Summary:**

MARCH8 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. MARCH8 induces the internalization of several membrane glycoproteins (Goto et al., 2003 [PubMed 12582153]; Bartee et al., 2004 [PubMed 14722266]).[supplied by OMIM, Apr 2010]

**Product images:**



Circular map for RG238944