

Protein Sequence: >RG212197 representing NM_020814
 Red=Cloning site Green=Tags(s)

MLMPLCGLLWWWCCSGWYCYGLCAPAPQMLRHQGLLKRCRMLFNDLKVFLLRRPPQAPLPMHGDPQP
 PGLAANNTLPALGAGGWAGWRGPREVVGREPPVPPPPPLPPSSVEDDWGGPATEPPASLLSSASSDDFC
 KEKTEDRYSLGSSLDGSMRTPLCRICFQGPEQGELLSPCRCDGSKVCTHQPCLIKWISERGCWSCELCY
 KYHVIAISTKNPLQWQATSLTVIEKVQVAAAILGSLFLIASISWLWSTFSPSARWQRQDLLFQICYGMY
 GFMDVVCIGLIIEGSPVYRIFKRWQAVNQWKVLNYDKTKDLEDQKAGGRTPRTSSSTQANIPSEEE
 TAGTPAPEQGAQAAGHPGSLSHHHCAYTILHILSHLRPHEQRSPPGSSRELVMRVTTV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020814

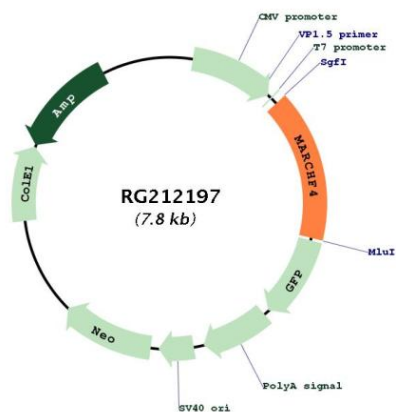
ORF Size: 1230 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_020814.3
RefSeq Size:	4450 bp
RefSeq ORF:	1233 bp
Locus ID:	57574
UniProt ID:	Q9P2E8
Cytogenetics:	2q35
Protein Families:	Transmembrane
Gene Summary:	MARCH4 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. MARCH4 reduces surface accumulation of several membrane glycoproteins by directing them to the endosomal compartment (Bartee et al., 2004 [PubMed 14722266]).[supplied by OMIM, Apr 2010]

Product images:



Circular map for RG212197