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Product datasheet for MG216574

March2 (NM_145486) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	March2
Synonyms:	9530046H09Rik; MARCH-II
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG216574 representing NM_145486
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGACAGGTGACTGTTGCCACCTCCCTGGCTCCCTATGTGACTGTTCGAGCAGCCCTGCCTTTTCCA
AGGTTGTAGAGGCCACAGGGCTTGGGCCACCTCAATATGTAGCACAAGTGACTTCACGGGATGGCCGGCT
GCTCTCAACTGTCATCCGGGCTTTGGATTCACAGAGTGACTGTCCCTTCTGCCGAATCTGCCACGAGGGA
GCAAATGGGGAGAACTTGCTGTCCCCATGTGGCTGCACGGGCACACTGGGAGCTGTGCACAAGAGCTGCC
TGGAGAAATGGCTGTCTTCCTCCAACACCAGCTACTGTGAGCTGTGTCACACTGAGTTTGCAGTGGAAAA
GCGGCCCCGACCTCTCACAGAGTGGCTAAAGGACCCAGGGCCGCGCACTGAGAAGCGAACACTGTGCTGT
GACATGGTGTGCTTTGTGTTCATCACACCACTGGCTGCCATCTCAGGCTGGCTTTGCCTGCGAGGGGCCC
AGGACCACCTCCGTCTGCATAGCCGGCTGGAAGCTGTAGGTCTCATTGCCCTCACCATCGCCCTCTTTAC
CATCTATGTGCTCTGGACACTGGTCTCTTTCCGATACCATTGCCAGCTGTACTCGGAATGGAGGAAGACA
AATCAGAAAGTCCGCCTGAAGATTCGGGAAGCAGATGGCTCCGAGGATCCACATCACTCCTTGCTGGCTA
CTGGACTCTTAAAAAAGCTTCAGAGATTCAGTCCATTATCATTAAGGCAAGAGCATGGCAGCATCCAGGG
AGGCATGGTGCAGGTGGAGCTGAGAGTTCTGCATCTTCGTCTAAAGGAGGCTAGTGGAAGACTGACTCCC
AGGCATCTAGGTCAAGTGCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

>MG216574 representing NM_145486
Red=Cloning site Green=Tags(s)

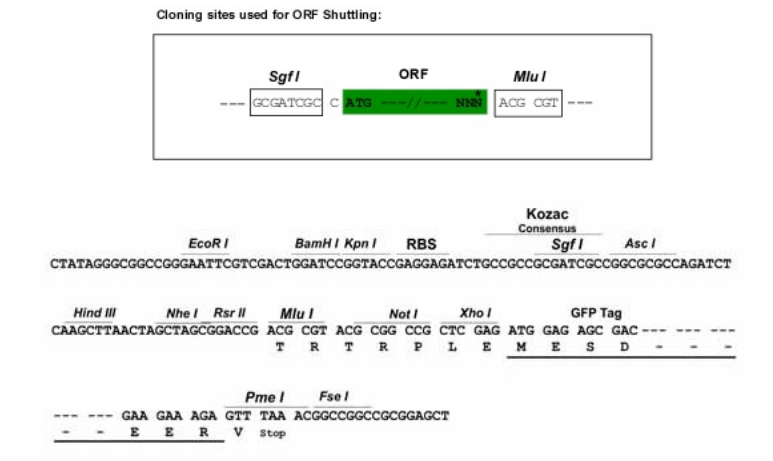
MTTGDCCHLPGSLCDCSSSPAFSKVVEATGLGPPQYVAQVTSRDGRLLSTVIRALDSQSDCPFCRICHEG
ANGENLLSPCGCTGTLGAVHKSCLEKWLSSSNTSYCELCHTEFAVEKRPRPLTEWLKDPGPRTEKRTLCC
DMVCFVFITPLAAISGWLCLRGAQDHLRLHSRLEAVGLIALTIALFTIYVLWTLVSFRYHCQLYSEWRKT
NQKVRLKIREADGSEDPHHSLLATGLLKKLQRFSPLSLRQEHGSIQGGMVQVELRVLHLRLKEASGRLTP
RHLGQVH

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_145486

ORF Size:

861 bp

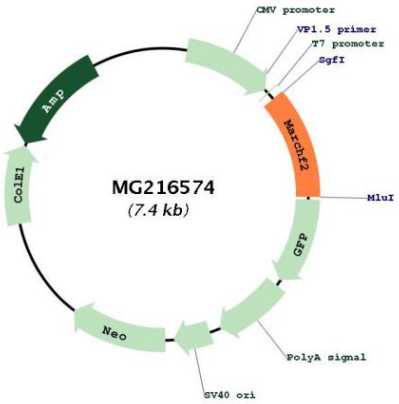
OTI Disclaimer:

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_145486.5, NP_663461.2
RefSeq Size:	3425 bp
RefSeq ORF:	864 bp
Locus ID:	224703
Cytogenetics:	17 B1
Gene Summary:	E3 ubiquitin-protein ligase that may mediate ubiquitination of TFRC and CD86, and promote their subsequent endocytosis and sorting to lysosomes via multivesicular bodies. E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfer the ubiquitin to targeted substrates. May be involved in endosomal trafficking through interaction with STX6.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216574