

Product datasheet for **RR207729**

March2 (NM_001034108) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: March2 (NM_001034108) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: March2
Synonyms: MARCH-II; RGD1306395
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR207729 representing NM_001034108
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACGACAGGTGACTGTTGCCACCTCCCTGGCTCCCTATGTGACTGCTCTAGCAGCCCTGCCTTTTCCA
AGGTTGTGGAGGCCACAGGGCTTGGACCACCTCAGTATGTAGCTCAAGTACTTCAAGGGATGGCCGGCT
GCTCTCAACTGTCATCCGGGCTTTGGATACACCGAGTACTGTCCCTTCTGCCGAATCTGCCATGAGGGA
GCAAATGGGGAGAACTTGTGTCCCATGTGGCTGACTGGCACCCCTGGGAGCTGTGCACAAGAGCTGCC
TGGAGAAATGGCTGTCTTCTCCAACACAGCTACTGTGAGCTGTGTCACTGAGTTTGCAGTGAAAA
GCGGCCCGACCTCTCACAGAGTGGCTAAAGGACCCAGGGCCGCGCACCGAGAAGCGGACACTGTGCTGT
GACATGGTGTGCTTTGTGTTTATCACACCACTGGCCGCCATCTCAGGCTGGCTGTGCCTGCGAGGGGCC
AGGACCACCTCCGTCTGCATAGCCGGCTGGAGGCTGTAGGGCTCATTGCCCTCACCATCGCCCTTTTAC
CATCTATGTGCTCTGGACACTGGTCTCTTCCGATACCATTGCCAGCTGTACTCGGAATGGAGGAAGACC
AATCAGAAAGTCCGGCTGAAGATCCGGGAAGCAGATGGCTCCGAGGACCCTCACCCTCTTGTGGCTA
CTGGACTTTTAAAAAAGGTGGCAGAGGAGACCCCTGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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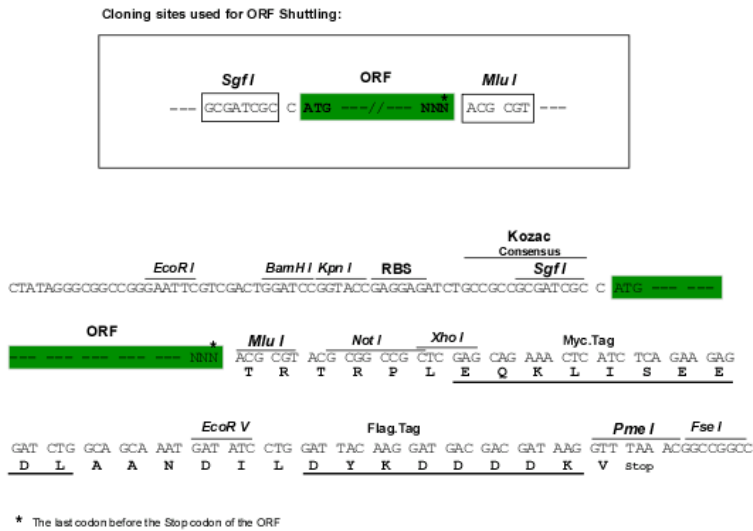
Protein Sequence: >RR207729 representing NM_001034108
 Red=Cloning site Green=Tags(s)

MTTGDCCHLPGSLCDCSSSPAFSKVVEATGLGPPQYVAQVTSRDGRLSTVIRALDTPSDCPFCRICHEG
 ANGENLLSPCGCTGTLGAVHKSCLEKWLSSNNTSYCELCHTEFAVEKRPRPLTEWLKDPGPRTEKRTLCC
 DMVCFVFIPTLAAISGWLCLRGAQDHLRLHSRLEAVGLIALTIALFTIYVLWTLVSFRYHCQLYSEWRKT
 NQKVRLKIREADGSEDPHHSLLATGLLKKVAEETPV

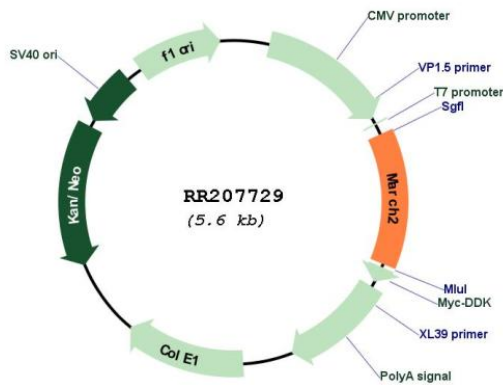
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001034108
 ORF Size: 738 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_001034108.1 , NP_001029280.1
RefSeq Size:	1306 bp
RefSeq ORF:	741 bp
Locus ID:	362849
UniProt ID:	Q5I0I2
Cytogenetics:	7q13
MW:	27.2 kDa
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]