

Product datasheet for **RR213935**

Marco (NM_001109011) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Marco (NM_001109011) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Marco
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR213935 representing NM_001109011
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAAGTAAAGAAACCCTCAAGGAGGAAGCCTTCTTGGGCAGCACAGAAGACGGAGCCGACTTTGACC
 AAGACATGCTCCCTGTGATGGAGACCTTTGAAATCAATGATCCGGTGCCCAAGAAGAGAAATGGAAGGAC
 CTTGTGCATGGCAGTCATGGCCATCCACCTGATTCTGCTCACAGCAGGACTGCCCTGCTGCTGATTCAA
 GTTCTCAATCTGCAGGAGCAGTTCCAGAGCCTAGAGATGTGTTGTGACAAATGGAACACTAGCTGCTGAGG
 ACAAGCCATTCTCTCTGTCAGTGGGCACGTCCAAAACACACATAGTATCAGGAGCACAGGGGCTGCA
 AGCCTTGACGGCCAGCTTAGCTGGGTCCACACCAGCCAGGAGCAACTGCGTCAGCAAGTTGACAACCTC
 ACTCAAAATCCAGAGTTGTTCCGGATTAAGGTGAACGAGGCTCTCCAGGTCCAAAAGGGGCCCCGGGGC
 CACCGGGAATCCAGGCCTGCCTGGGCCATCTGCTGCGAAGGGAGAAAAGGGGGCTGCGGGTCTGTACGG
 AACTCCAGGTGTCCGAGGACCCAGGGCCACCAGGCACCAAGGGAGAGGCAGGCCTCCAGGGATTACG
 GGTGCACCAGGGAAGCAAGGAGCAGATGGTGCTCCAGGGCCTCAAGGAGAAAAGGGCAGCAAAGGTGACA
 AAGGTCTCACTGGCCCCAAGGGGAACACGGCACCAAGGGGGACAAGGGGACCTAGGCCTTCCAGGAAG
 CAAAGGGGACACGGGCATGAAGGGAGACAGGGGGTACGGGGTCCCCTGGAGCCAGGGAAATAAAGGC
 GATGCTGGAAAACCAGGCCTACCAGGTTTGGCTGGATCTCCTGGAGCCAAAGGTGATCAAGGAAAATTG
 GAGTGCAGGGTCTCCAGGCCCTCTGGTGACACAGGACAATCAGGTGCCAAGGGTGAGCCGGGGCGCAC
 TGGTCTCCTGGGCCAACAGGACCCCAAGGATTGCCGTAATCCAGGGGCTGCAGGTTTGAAGGAAGC
 AAGGGGGACATAGGAATCAAGGACAGAAAGGCACAAAAGGAGAATCAGGAGTCCAGGCTTGTAGGCA
 GAAAGGGGAGACTGGAAGCCCTGGGCTGGCAGGCCCAAGGAGAACCTGGACGAGCCGGTCTGAAGGG
 AGAACCTGGGATGAAAGGGTCTTCTGGCCAGCAAGGACAAAAGGGAGAAAAGGTCAAAAAGGCGATTTC
 AACCTGGTTGTCCGGATCGTGGGCGCACACAGCAGAGGCCGAGCTGAAGTTTACTATAACATGTCTGGG
 GGACAATTTGCGATGATGGTTGGGATAATAACGATGCCACTGTCTTCTGCCGCATGCTCGGTTACTCCAG
 CGGGAGGGGACTTGGCAGCTTTGGAGGTGGCACTGGGAAGATCTGGCTGGATGATGTGAGTTGTCTGGG
 ACAGAGGCCACTTTGTGGGACTGCAGGAAGAGCTCCTGGGGCTCTACAATTGCAACCATAATGAAGATG
 CAGGAGTGAATGCCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213935 representing NM_001109011
 Red=Cloning site Green=Tags(s)

MGSKETLKEEAF LGSTEDGADFDQDMLPVMETFEINDPVPKRNRTLCMAVMAIHLILLTAGTALLLIQ
 VLNLQEQFQSLEMCCDNGTLAEDKPFSLQWARPKTHIVSQAQLQALQQLSWVHTSQEQLRQQVDNL
 TQNPFLFRKGERGSPGPKGAPGAPGIPGLPGPSAAKGEKGAAGRDGTPGVRGPQPPGKGEAGLQGFT
 GAPGKQADGAPGQGEKGSKGDKLGTGPKGEHGTGDKGDLGLPGSKGDTGMKGDRGVTGSPGAQGNKG
 DAGKPLPGLAGSPGAKGDQGLGVQPPPPGAPGQSGAKGEPGRTGPPGPTGPPGIAGNPGAAGLKGS
 KGDIGIQGQKGTGKESGVPLVGRKGDTSPLAGPKGEPGRAGLKGEPMKGSQGGQKGEKQKGD
 NLVVRIVGGTSRGRAEVYNNVWGTICDDGWDNNDATVFCRMLGYSSGRGLGSFGGGTGKIWLDDVSLCL
 TEATLWDCRKSSWGSNHCNHEDAGVECR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

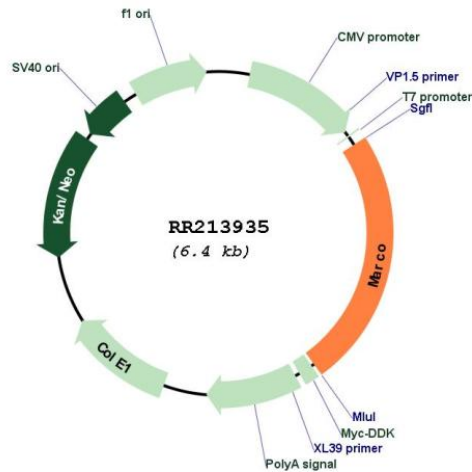
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001109011

ORF Size: 1557 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:

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_001109011.1](#), [NP_001102481.1](#)

RefSeq Size: 1979 bp

RefSeq ORF: 1560 bp

Locus ID: 367391

Cytogenetics: 16q12.5

MW: 52.4 kDa