

Product datasheet for MR231603

Map4 (NM_001205330) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map4 (NM_001205330) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Map4
Synonyms:	AA407148; MAP-4; Mtap-4; Mtap4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR231603 representing NM_001205330 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGACCTCAGTCTTGTGGATGCGTTGACAGAACCACCTCCAGAAATTGAGGGAGAAATAAAGCGAG
ACTTCATGGCTGCGCTGGAGGCAGAGCCCTATGATGACATCGTGGGAGAACTGTGGAGAAAAGTGGT
TATTCCTCCTCGGATGGTGTGATGAGAAAACCGGAACTCAGAGTCCAAAAAGAAACCTGCTTAGACT
AGCCAGGTTGAAGGTATCCCATCTTCTAAACCAACTCCTAGCCAATGGTGTATCATGGAATGGAGGGGA
ATAACTGCAGGGTCTCCAAGTACTTCTTGAAGAGAGAGTGGACTATCCGGATTATCAGAGCAGCCA
GAACTGGCCAGAAGATGCAAGCTTTTGTTCAGCCTCAGCAAGTGTAGATACTGACCAGGCTGAGCCC
TTTAACGAGCACCCTGATGATGGTTTGGCAGATCTGCTCTTTGTCTCCAGTGGACCCACGAACGCTTCTG
CATTTACAGAGCGAGACAATCCTTCAGAAGACAGTTACGGTATGCTTCCCTGTGACTCATTGCTCCAC
GGCTGTTGTATCTCAGGAGTGGTCTGTGGGAGCCCAACTCTCCATGTTTCAGAGTCTGTGTCTCCCA
GAGGTTACTATAGAAACCCTACAGCCAGCAACAGAGCTCTCAAGGCAGCAGAAGTGAATCAGTGAAG
AGCAGTCCAGCTAAAGCATTGGAACGATGGCAGAGCAGCACTGATGTGGTGCACCTCCATCCAC
AGACACAACACCAGGCCAGACACAGAGGCACTGGCTAAAGACATAGAAGAGATCAGCAAGCAGAT
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TCACAGGAACAGAGGCAGCCACGCTAACAAATATCATATTGCCTACAGAACCAGCAATCTTCAACCA
GGATGTAGCACCCTATGGAAGAAGAAATGTCCAGGCAATGATACGACATCCCCAAAGAAACAGAG
ACAACACTTCCAATAAAAATGGACTTGGCACCCTGAGGATGTGTTACTTACCAAGAAACAGAAGTAG
CCCCAGCAAGGGCATGGTTTCACTCTCAGAAATAGAAGAGGCTCTGGCAAGAATGATGAGTCTCTGC
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CTTCAGAAACAAAGGTGGCTGAGTTTAACAATGTGACTCCACTTTCAGAAGAAGAGGTAACCTCAGTCA



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AGGACATGTCTCCGCTGCAGAAACAGAGGCTCCCTGGCTAAGAATGCTGATCTGCACTCAGGAACAGA
 GCTGATTGTGGACAACAGCATGGCTCCAGCCTCCGATCTTGCCTTGGAAACAAAAGTAGCAACA
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 GGCCACTTGCCTGCAGGAGGTGCCGTGAAGACTGAGGGCGGTGGCAGTGAAGGCCCTTCCGTGTCCAGGCC
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 CAGGAGACAAGCATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231603 representing NM_001205330
 Red=Cloning site Green=Tags(s)

MADLSLVDALTEPPPEIEGEIKRDFMAALEAEPYDDIVGETVEKTEFIPLLDGDEKTGNSESKKKPCLDT
 SQVEGIPSSKPTLLANGDHGMEGNNTAGSPTDFLEERVDYQDYQSSQNWPEASFCFQPQQVLDTDQAE
 FNEHRDDLADLLFVSSGPTNASAFTERDNPSSEDSYGMPCDSFASTAVVSQEWVSGAPNSPCSESCVSP
 EVTIETLQPATELSKAAEVESVKEQLPAKALETMAEQTTDVVHSPSTDTTPGPDTEAALAKDIEEITKPD
 VILANVTQPSTESDMFLAQDMELLTGTEAAHANNIILPTEPDESSTKDVAPPMEEEIVPGNDTTSPKETE
 TTLPIKMDLAPPEDVLLTKETELAPAKGMVSLSEIEEALAKNDESSAIPVAQETVVSETEVVLATEVVL
 PSDPITTLTKDVTLPLEAERPLVDMTPSLETETLTKETAPPTETNLGMAKDMSPLESEVTLGKDVVI
 LPETKVAEFNNVPLSEEEVTSVKDMSPSAETEAPLAKNADLHSGTELIVDNSMAPASDLALPLETKVAT
 VPIKDKGTVQTEKPREDSQLASMQHKGQSTVPPCTASPEPVKAAEQMSTLPIDAPSLENLEQKETPGS
 QPSEPCSGVSRQEEAKAAVGVGTGNDITTPPNKEPPPSPEKKAKPLATTQPAKTSTSKAKTQPTSLPKQPA
 PTTSGGLNKKPMSLASGSVPAAPHKRPAATATARPSTLPARDVKPKPITEAKVAEKRTSPSKPSSAPAL
 KPGPKTTPTVSKATSPSTLVSTGPPSSRPATTLPKRPTSITKTEGKPADVKRMTAKSASADLSRSKTTAS
 SVKRNTTPTGAAPPAGMTSTRVKPMSAPSRSSGALSVDKKTSTKPSSSAPRVSRLLATTVSAPDLKSVRS
 KVGSTENIKHQPGGGRKVEKKTEAATTAGKPEPNAVTKAAGSIIASAQKPPAGKVQIVSKKVSYSHIQSK
 CGSKDNIKHPGGGNVQIQNKKVDISKVSSKCGSKANIKHKPGGGDVKIESQKLNFKKAQAKVGSGLDNDV
 GHLPAGGAVKTEGGGSEALPCGPPPAGEEPIPEAAPDAGAPTSASGLSGHTTLLSGGGDQREPQTLDSQI
 QETSI

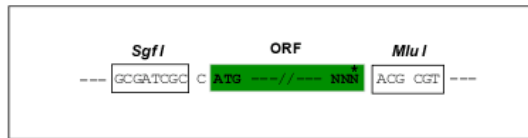
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

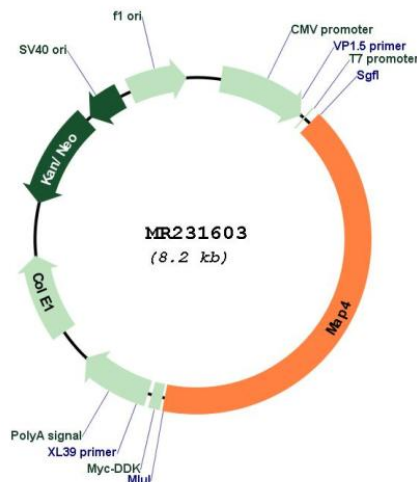
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001205330

ORF Size: 3375 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_001205330.1](#), [NP_001192259.1](#)

RefSeq Size: 5776 bp

RefSeq ORF: 3378 bp

Locus ID: 17758

UniProt ID: [P27546](#)

Cytogenetics: 9 59.83 cM

MW: 117.9 kDa

Gene Summary: Non-neuronal microtubule-associated protein. Promotes microtubule assembly.
[UniProtKB/Swiss-Prot Function]