

Product datasheet for **RC202203**

MAP1 (MOAP1) (NM_022151) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP1 (MOAP1) (NM_022151) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAP1
Synonyms:	MAP-1; PNMA4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202203 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTTTGAGGCTTTTGAAGACTGGTGCAGGGGATGGACATGAACCCTCGAAAGCGCTATTGATTG
CCGGCATCTCCCAGAGCTGCAGTGTGGCAGAAATCGAGGAGGCTCTGCAGGCTGGTTAGCTCCCTTGGG
GGAGTACAGACTGCTTGAAGGATGTTCAAGGAGGATGAGAACAGGAAAGTAGCCTTAGTAGGGCTTACT
GCGGAGACTAGTCAGCCCTGGTCCCTAAGGAGATACCGGAAAAGGGGTATCTGGAGAGTGATCTTTA
AGCCCCCTGACCCAGATAATACATTTTTAAGCAGATTAATGAATTTTTAGCGGGAGAGGGCATGACAGT
GGGTGAGTTGAGCAGAGCTCTTGACATGAAAATGGCTCCTTAGACCCAGAGCAGGGCATGATCCCGGAA
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AGCTGAGAGTGTTCTCGGCGAGGGAGTCTCCAGAACAGGAGAAGAAGATTTGGACGCTGGATGTTTCA
TACTACTCAGATGATAAAGGCGTGGCAGGTGCCAGATGTAGAGAAGAGAAGGCGATTGCTAGAGAGCCTT
CGAGGCCCAGCACTTGATGTTATTCGTGTCCTCAAGATAAACAATCCTTAATTACTGTCGATGAATGTC
TGCAGGCTCTTGAGGAGGTATTTGGGGTTACAGATAATCCTAGGGAGTTGCAGGTCAAATATCTAACCAC
TTACCAGAAGGATGAGGAAAAGTTGTCGGCTTATGTACTAAGGCTGGAGCCTTTGTTACAGAAGCTGGTA
CAGAGAGGAGCAATTGAGAGAGATGCTGTGAATCAGGCCCGCCTAGACCAAGTCATTGCTGGGGCAGTCC
ACAAAACAATTTCGAGAGAGCTTAATCTGCCAGAGGATGGCCCGCCCTGGTTTCTTGAGTTATTGGT
ACTAATAAAGGATTATGAGGCAGCTGAGGAGGAGGAGGCCCTTCTCCAGGCAATATTGGAAGGTAATTTCC
ACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202203 protein sequence
 Red=Cloning site Green=Tags(s)

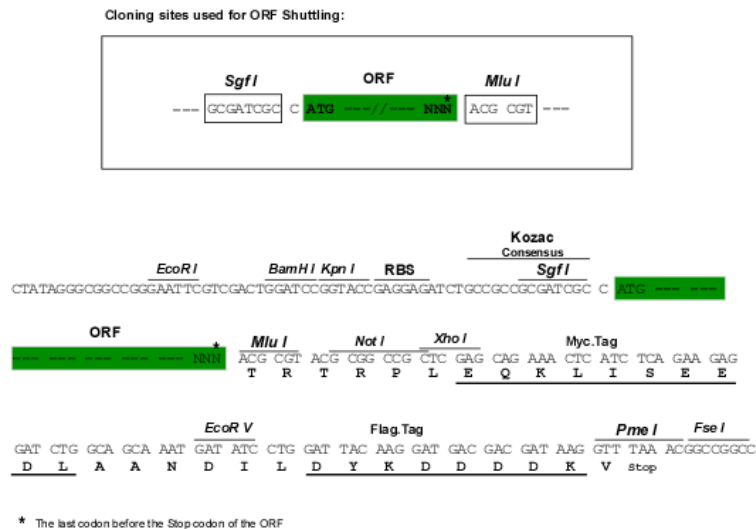
MTLRLLLEDWCRGMDMNP RKALLIAGISQSCSVAEIEEALQAGLAPLGEYRLLGRMFRRDENRKVALVGLT
 AETSHALVPKEIPGKGGIWRVIFKPPDPNTFLSRLNEFLAGEGTVGELSRALGHENGSLDPEQGMPIE
 MWAPMLAQALEALQPALQCLKYKKLRVFSGRESPEPGEIEFGRMFHHTQMIKAWQVPDVEKRRRLLES
 RGPALDVIRVLKINNPLITVDECLQALEEVFGVTDNPRELQVKYLTQYQKDEEKL SAYVLRLEPLLQKLV
 QRGAIERDAVNQARLDQVIAGAVHKTIRRELNLPEDGPAPGFLQLLVLIKDYEAEEEEALLQAILEGNF
 T

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6539_g11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022151

ORF Size: 1053 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_022151.5](#)

RefSeq Size: 2435 bp

RefSeq ORF: 1056 bp

Locus ID: 64112

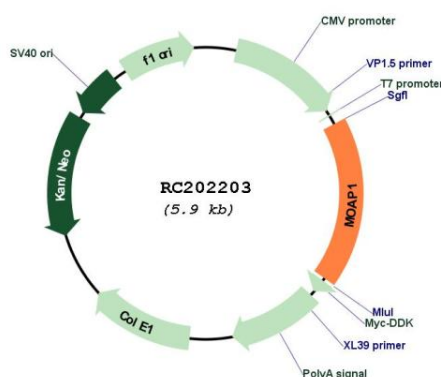
UniProt ID: [Q96BY2](#)

Cytogenetics: 14q32.12

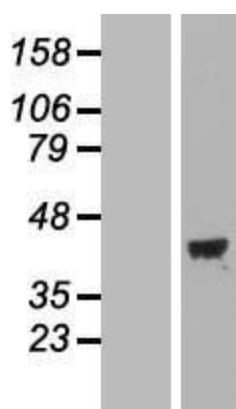
MW: 39.5 kDa

Gene Summary: The protein encoded by this gene was identified by its interaction with apoptosis regulator BAX protein. This protein contains a Bcl-2 homology 3 (BH3)-like motif, which is required for the association with BAX. When overexpressed, this gene has been shown to mediate caspase-dependent apoptosis. [provided by RefSeq, Jul 2008]

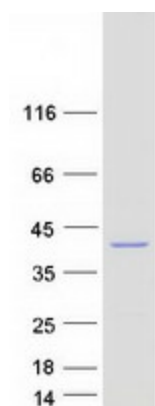
Product images:



Circular map for RC202203



Western blot validation of overexpression lysate (Cat# [LY411739]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202203 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MOAP1 protein (Cat# [TP302203]). The protein was produced from HEK293T cells transfected with MOAP1 cDNA clone (Cat# RC202203) using MegaTran 2.0 (Cat# [TT210002]).