

## Product datasheet for **RC203022**

### Methionyl Aminopeptidase 1 (METAP1) (NM\_015143) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Methionyl Aminopeptidase 1 (METAP1) (NM_015143) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Methionyl Aminopeptidase 1
Synonyms:	MAP1A; MetAP1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203022 representing NM_015143 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCTGAATCTGAACAGGCTCTAAAGGTAAGTACTTCTCAGATTAATTAATCTCTCATCTGAAGATATAGAAG  
GGATGCGACTTGTATGTAGGCTTGCTAGAGAAGTTTTGGATGTTGCTGCCGGCATGATTAACCAGGTGT  
AACTACTGAAGAAATAGATCACGCTGTACACTTAGCATGTATTGCAAGAAATTGCTACCCTTCTCCCCTG  
AATTATTATAATTTCCCAAAGTCTTGTTGTACCTCAGTGAATGAAGTCATTTGCCATGGAATACCAGACA  
GAAGGCCCTTACAAGAAGGTGACATTGTTAATGTGGATATCACTCTTTATCGCAATGGTTATCATGGGGA  
CCTGAATGAGACATTTTTTGTGGAGAAGTGGATGATGGAGCACGAAACTTGTTGAGACCACATATGAG  
TGCTGATGCAAGCCATTGATGCAGTGAAGCCTGGTTCGGTACAGAGAATTGGGAAACATTATCCAGA  
AGCATGCCAAGCAAATGGGTTTTAGTTGTTGAAAGCTATTGTGGGCATGGAATCCACAAGCTTTTTCA  
TACAGCTCCCAATGTACCCCACTATGCTAAAAATAAAGCAGTTGGAGTGAAGTCGGGCCATGTATTT  
ACAATTGAGCCAATGATTTGTGAAGCGGATGGCAGGATGAACTGGCCAGATGGTTGGACTGCGGTGA  
CAAGAGACGAAAGCGGTCTGCTCAGTTGAGCACACCCCTCCTGGTCACAGACACTGGCTGTGAAATCCT  
AACCCGGCGACTTGACAGTGCACGGCCTCACTTCATGTCTCAATTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC203022 representing NM\_015143  
Red=Cloning site Green=Tags(s)

MSESEQALKGTSQIKLLSSEIDIEGMRLVCRLAREVLDAAGMIKPGVTTEEIDHAVHLACIARNCPSP  
 NYYNFPKSCCTSVNEVICHGIPDRRLQEGDIVNVDITLYRNGYHGDLNETFFVGEVDDGARKLVQTTYE  
 CLMQAIDAVKPGVRYRELGNIIQKHAQANGFSVRSYCGHGIHKL FHTAPNVPHYAKNKAVGVMKSGHVF  
 TIEPMICEGGWQDETWPDGWTAVTRDGKRSQFEHTLLVTD TGCEILTRRLDSARPHFMSQF

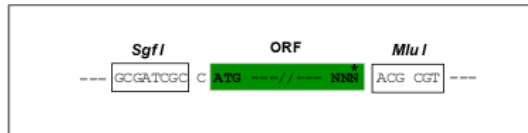
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg2603\\_g05.zip](https://cdn.origene.com/chromatograms/mg2603_g05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_015143

**ORF Size:** 816 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\\_015143.1](#), [NP\\_055958.1](#)

**RefSeq Size:** 2835 bp

**RefSeq ORF:** 1161 bp

**Locus ID:** 23173

**UniProt ID:** [P53582](#)

**Cytogenetics:** 4q23

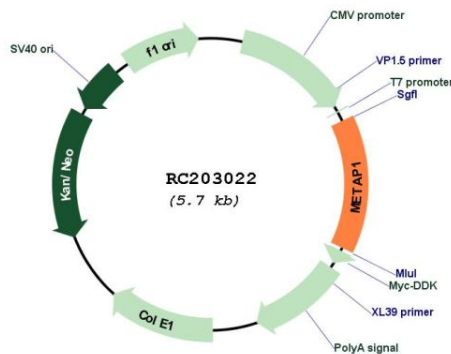
**Domains:** Peptidase\_M24

**Protein Families:** Druggable Genome

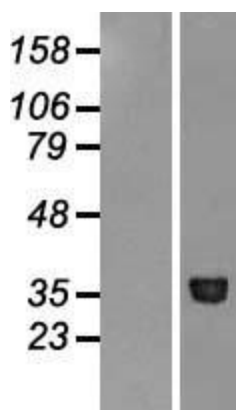
**MW:** 30.37 kDa

**Gene Summary:** Cotranslationally removes the N-terminal methionine from nascent proteins. The N-terminal methionine is often cleaved when the second residue in the primary sequence is small and uncharged (Met-Ala-, Cys, Gly, Pro, Ser, Thr, or Val). Required for normal progression through the cell cycle.[UniProtKB/Swiss-Prot Function]

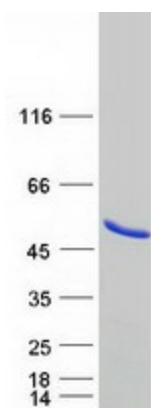
### Product images:



Circular map for RC203022



Western blot validation of overexpression lysate (Cat# [LY402412]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203022 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified METAP1 protein (Cat# [TP303022]). The protein was produced from HEK293T cells transfected with METAP1 cDNA clone (Cat# RC203022) using MegaTran 2.0 (Cat# [TT210002]).