

Product datasheet for **RR212108**

Metap2 (NM_022539) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Metap2 (NM_022539) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Metap2
Synonyms:	Amp2; Mnpep; p67
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR212108 representing NM_022539
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGCGTGGAAAGAGGCATCGTCTTTCGGGGGCCACCTGAATCGCGACCTGGATCCAGACGACAGGG
 AAGAGGGAACCTCCAGCACGGCCGAGGAAGCCGCAAGAAGAAAAGACGGAAGAAGAAGAAGGGCAAAGG
 GGCTGTGTCAGCAGGGCAACAAGAACTTGATAAAGAATCGGGAACCTCAGTGGACGAAGTAGCAAAACAG
 TTGGAGAGACAAGCACTGGAGGAGAAAGAGAAAGATGATGACGATGAAGATGGAGATGGTATGGTATG
 GTGCAGCTGGGAAGAAGAAGAAAAGAAGAAGAAGAGAGGACCAAGAGTTCAAACAGACCCTCCCTC
 AGTTCCAATATGTGACCTGTATCCTAATGGTGTATTTCCAAAGGACAAGAGTGTGAATACCCACCACC
 CAAGATGGGCGGACAGCTGCTTGGAGAACCACAAGTGAAGAGAAAAGGCGCTAGACCAGGCTAGTGGG
 AGATTTGGAACGACTCCGAGAAGCTGCCGAAGCACACCGCAAGTTAGGAAATACGTCATGAGCTGGAT
 CAAGCCTGGGATGACAATGATAGAAATATGTGAGAAGTTGGAAGACTGTTCCCGAAAGCTCATAAAGGAG
 AATGGGTTAAATGCAGGCCTGGCCTTCCCACTGGGTGTTCTCTCAAACTGTGCTGCACATTACACTC
 CCAATGCTGGTGACACGACAGTCTTACAGTACGACGACATCTGTAAGATCGACTTTGGAACGCATATAAG
 TGGTAGAATAATTGATTGTGCTTTACTGTTACTTTTAAATCCAAATATGACATATTATTAAGCTGTA
 AAAGATGCCACCAATACTGGAATAAAGTGTGCGGGGATTGACGTCGCTCTGTGATGTCGGCGAGGCCA
 TTCAAGAAGTTATGGAGTCTATGAAGTGGAAATAGATGGGAAGACCTACCAAGTAAACCCATACGTAA
 CTTAAATGGACATTCAATTGGGCCATATAGAATTCATGCTGGAAGAACAGTGCCATTGTGAAAGGAGGG
 GAAGCTACAAGGATGGAGGAAGGAGAGGTGTATGCCATTGAGACCTTTGGTAGCACAGGGAAGGGCTGG
 TTCATGACGATATGGAATGTTCACTACATGAAAAATTTGATGTGGACACGTGCCAATAAGGCTTCC
 AAGAACAACAACTTGTGAATGTCATCAATGAAAACTTTGGTACCCTTGCCCTTCCCGAAGGTGGCTG
 GATCGCTTGGGAGAAAGTAAATACTTAATGGCTCTGAAGAACCTGTGACTTGGGCATTGTAGATCCAT
 ATCCACCCTCTGTGACATTAAGGATCATACACAGCACAGTTTGAACATACCATACTCTGCGCCCAACC
 TGTAAGAAGTTGTCAGCAGAGGAGATGACTATTAATACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR212108 representing NM_022539
 Red=Cloning site Green=Tags(s)

MAGVEEASSFGGHLNRDLDPDDREEGTSSAAEEAAKKRRRKKKKGKAVSAGQQELDKESGTSVDEVAKQ
 LERQALEEKEKDDDEDGDGDGAAGKKKKKKRGRVQTDPPSVPICDLYPNGVFPKGQECEYPPT
 QDGRATAWRTTSEEKALDQASEEINWDFREAAEAHRQVRKYVMSWIKPGMTMIEICEKLEDCSRKLIKE
 NGLNAGLAFPTGCSLNNCAAHYTPNAGDITVLQYDDICKIDFGTHISGRIIDCAFVTTFNPKYDILLKAV
 KDATNTGIKAGIDVRLCDVGEAIQEVMESEYEIDGKTYQVKPIRNLNGHSIGPYRIHAGKTPVIVKGG
 EATRMEEGEVYAIETFGSTGKGVVHDDMECSHYMKNFVGHVPIRLPRTKHLLNVINENFTLAFRRWL
 DRLGESKYLKMLKNCGLGIVDPYPPLCDIKGSYTAQFEHTILCAQPVKKLSAEEMTIKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_022539

ORF Size: 1440 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_022539.1](#), [NP_071984.1](#)
RefSeq Size: 1944 bp

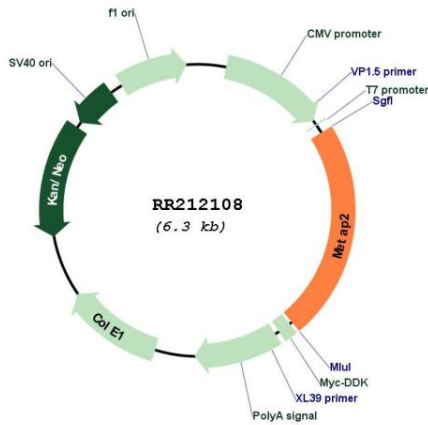
RefSeq ORF: 1443 bp

Locus ID: 64370

UniProt ID: [P38062](#)

Cytogenetics: 7q13
MW: 53.2 kDa
Gene Summary: peptidase that protects eIF-2 alpha-subunit from inhibitory phosphorylation by eIF-2 kinases [RGD, Feb 2006]

Product images:



Circular map for RR212108