

Product datasheet for **RC216063**

Meprin beta (MEP1B) (NM_005925) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Meprin beta (MEP1B) (NM_005925) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Meprin beta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Protein Sequence: >RC216063 representing NM_005925
Red=Cloning site Green=Tags(s)

```
MDLWNL SWFLFLDALLVISGLATPENFDVDGGMDQDIFDINEGLGLDLFEGDIRLDRAQIRNSIIGEKYR
WPHTIPYVLEDSLEMNAKGVILNAFERYRLKTCIDFKPWAGETNYISVFKGSGCWSSVGNRRRVGKQELSI
GANCDRIATVQHEFLHALGFWEQSRSDRDDYVRIMWDRILSGREHNFTYSDDISDSLNVPYDYTSVMH
YSKTAFQNGTEPTIVTRISDFEDVIGQRMDFSDSDLKLNQLYNCSSLSFMDSCSFELENVCGMIQSSG
DNADWQRVSQVPRGPESDHSNMGCQGGSGFFMHFDSSSVNVGATAVLESRTL YPKRGFQCLQFYLYNSGS
ESDQLNIYIREYSADNV DGNLTLVEEIKEIPTGSWQLYHVTLKVTKKFRVVFEGRKGSASLGGLSDDI
NLSETRCPHHIWHIRNFTQFIGSPNGTLYSPFYSSKGYAFQIYLNLAHV TNAGIYFHLISGANDDQLQW
PCPQQATMTLLDQNPDIRQRMSNQRSITDPPMTDNGNYFWDRPSKVGTV ALFSNGTQFRGGGYGTS
AFITHERLKS RDIKGDVYILLTVEDISHLNSTQIQLTPAPSVQDLCSKTTCKNDGVCTVRDGKAECRC
QSGEDWWYMG ERCEKRGSTRDTIVIAVSVTVAVFALMLIITLVS VYCTRKKYRERMSSNRPNLTPQNQHA
F
```

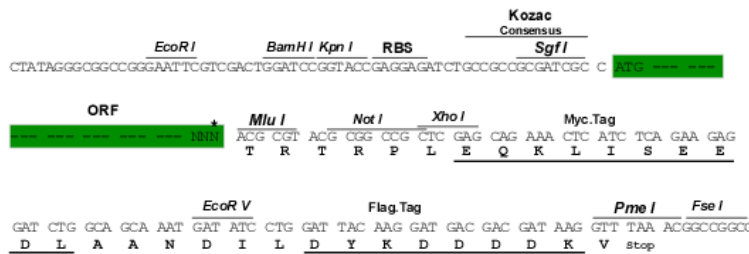
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8115_d11.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_005925

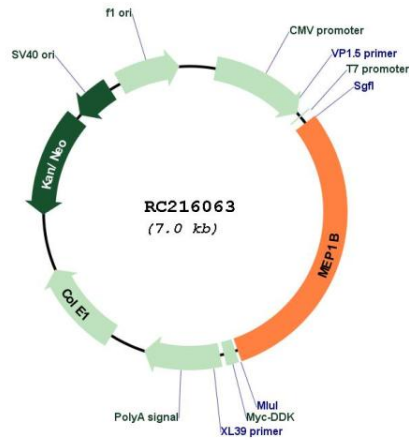
ORF Size: 2103 bp

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](#)

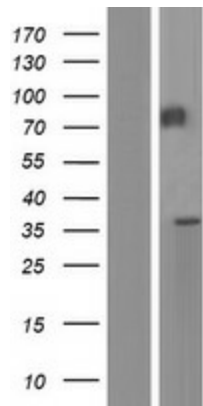
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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:	<u>NM_005925.3</u>
RefSeq Size:	2327 bp
RefSeq ORF:	2106 bp
Locus ID:	4225
UniProt ID:	<u>Q16820</u>
Cytogenetics:	18q12.1
Protein Families:	Druggable Genome, Transmembrane
MW:	79.4 kDa
Gene Summary:	Meprins are multidomain zinc metalloproteases that are highly expressed in mammalian kidney and intestinal brush border membranes, and in leukocytes and certain cancer cells. They are involved in the hydrolysis of a variety of peptide and protein substrates, and have been implicated in cancer and intestinal inflammation. Mature meprins are oligomers of evolutionarily related, but separately encoded alpha and/or beta subunits. Homooligomers of alpha subunit are secreted, whereas, oligomers containing the beta subunit are plasma membrane-bound. This gene encodes the beta subunit. Targeted disruption of this gene in mice affects embryonic viability, renal gene expression profiles, and distribution of the membrane-associated alpha subunit in kidney and intestine. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RC216063



Western blot validation of overexpression lysate (Cat# [LY416979]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216063 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).