

## Product datasheet for **MR231061**

### Mme (NM\_001289463) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mme (NM_001289463) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mme
Synonyms:	6030454K05Rik; C85356; CALLA; CD10; NEP; SFE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>MR231061 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGGATCGCC

ATGGAAGATCAGAAAGTCAGATGGATATAACTGATATCAATGCTCCAAAGCCAAAGAAGAAACAGCGAT  
GGACTCCCTGGAGATCAGCCTCTCTGTGCTTGCTTGCTCCTGACTATCATAGCCGGTGACAATGATCGC  
TCTCTATGCAACCTATGATGATGGCATTGCAAAATCATCAGACTGCATAAAATCAGCTGCTCGACTGATT  
CAGAATATGGATGCCTCTGTTGAGCCATGTACAGACTTCTTCAAGTATGCTTGTGGAGGCTGGTTGAAAC  
GCAACGTCATTCCCGAGACCAGTCCCGATACAGTAATTTTGACATTTTAAAGAGATGAGCTAGAAGTCAT  
TTTGAAAGATGTCCTTCAAGAACCACAAACTGAAGACATAGTAGCAGTGCAGAAAGCAAAAACCTTGTAC  
AGATCGTGATAAATGAGTCTGCTATTGATAGCAGAGGCGGACAACCTCTACTCAAAGTGTACCAGATA  
TATATGGTGGCCAGTAGCATCAGATAACTGGGATCAAACATATGGCACTTCTTGGACAGCTGAGAAATC  
CATTGCACAAGTGAATTTAAATATGGGAAAAAGTCTCATTAAATTTTTTTGTTGGCAGTATGATAAG  
AATTCTACCCAGCATATAATTCATTTTGACCAGCCTCGACTTGGCCTCCCTCCAGAGACTACTATGAGT  
GCACTGGAATATATAAGAGGCTTGACAGCATATGTGGATTTTATGATTCTGTGGCCAGACTGATTCCG  
TCAGGAACAAAGTTTGCCTATTGATGAAAACAGCTCTCTTTGGAAATGAATAAAGTTATGGAATTGGAA  
AAAGAAATGGCAATGCTACAACATAACAGAGACCGAAATGACCCAATGCTGCTTTATAACAAAATGA  
CATTGGCCAAGCTGCAGAAACATTTCCCTGGAGGTCAATGGGAAGTCAATCAGCTGGTCAAATTTAC  
AAATGAAATCATGTCAACTGTGAATATTAATATCAAAATGAGGAAGAAGTTGTTGTCTATGCTCCAGAA  
TATTTAACCAAATTAAGCCTATTCTTACCAAATATTCTCCAGAGATCTTCAAATTTAATGTCCTGGA  
GGTTCATAATGGATCTTGTAAAGCAGCCTCAGCCGAAACTACAAGGAGTCCAGAAATGCTTCCGCAAGGC  
CCTTTATGGGACTACATCAGAAACTGCAACATGGAGACGGTGTGCTAACTACGTCATGGGAATATGGAG  
AATGCTGTGGGAGGCTTTATGTGGAAGCGCTTTTGTGGAGAGCAAGCACGTGTTGAAGACTTGA  
TTGCACAAATCCGGGAAGTTTTTATCAGACTTTGGATGACCTTACTTGGATGGATGCTGAGACAAAAAA  
GAAAGCTGAAGAAAAGGCTTGGCAATTAAGAAAGGATTGGCTATCCTGATGACATCATTTCCAATGAG  
AACAACTGAATAATGAGTATCTTGAGTTGAACTACAGGGAAGATGAATACTTTGAGAACATAATTCAAA  
ATTTGAAATTCAGCCAAAGCAAGCAGCTAAAGAAGCTCCGAGAAAAAGTGGACAAAGATGAGTGGATAAG  
TGGAGCAGCTGTAGTCAATGCATTTTATCCTCAGGCCGAAATCAGATAGTCTTCCCGCTGGCATTG  
CAGCCCCATTCTCAGTCTCAGCAATCCAATCATTGAACTATGGGGCATCGGCATGGTCAATGGAC  
ATGAAATCACACATGGATTTGATGACAATGGAAGAAATTTCAATAAAGATGGAGACCTCGTTGACTGGT  
GACGCAGCAGTCGGCAAATAATTTAAAGACCAATCCCAGTGTATGGTATACCAGTATGGAACTTTTCC  
TGGGACCTAGCAGGTGGACAGCATCTCAATGGAATTAATACACTAGGAGAAAAACATTGCTGATAATGGAG  
GTATTGGCCAAGCATACAGAGCCTATCAGAATTATGTTAAAAAGAATGGTGAAGAAAAATTACTCCCTGG  
ACTTGACCTCAATCACAACAATATTTTTCTGAACTTTGCCAGGTGTGGTGTGGGACCTACCGGCCA  
GAGTATGCAGTCAATTTATTAACAGATGTACACAGTCTGGAATTTTCAGGATCATTGGGACTTTGC  
AGAACTCTGCCGAGTTTGAGATGCCTTTCATTGCCGCAAGAATTCATACATGAATCCAGAAAGGAAATG  
TCGGGTTTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR231061 protein sequence  
 Red=Cloning site Green=Tags(s)

MGRSESQMDITDINAPKPKKKQRWTPLEISLSVLVLLLTIIAVTMIALYATYDDGICKSSDCIKSAARLI  
 QNMDASVEPCTDFFKYACGGWLKRNVIPETSSRYSNFDILRDELEVILKDVLPKPTEDI VAVQKATLY  
 RSCINESAIDSRGGQPLKLLPDIYGWVVASDNWDQTYGTSWTAEKSI AQLNSKYGKKVLINFFVGTDDK  
 NSTQHI IHFDQPRLLPSRDYECTGIYKEACTAYVDFMISVARLIRQEQLPIDENQLSLEMNKVMELE  
 KEIANATTKPEDRNDPMLLYNKMTLAKLQNNFSLEVNGKSF SWSNFTNEIMSTVNINI QNEEVVYAPE  
 YLTKLKPILTKYSPRDLQNLMSWRFIMDLVSSL SRNYKESRNAFRKALYGTTSATWRRCANYVNGME  
 NAVGRLYVEAAFAGESKHVVEDLIAQIREVFIQTLDDL TWMDAETKKAEEKALAIKERIGYPDDIISNE  
 NKLNNEYLELNYREDEYFENIIQNLKFSQSKQLK LREKVDKDEWISGAAYVNAFYSSGRNQIVFPAGIL  
 QPPFFSAQQSNLNYGGIGMVGHEITHGFDDNGRNFNKDGDLDVWWTQQSANNFKDQSQCMVYQYGNFS  
 WDLAGGQHLNGINTLGENIADNGGIGQAYRAYQNYVKKNGEEKLLPGLDLNHKQLFFLNFAQVWCCTYRP  
 EYAVNSIKTDVHSPGNFRIIGTLQNSAEFADAFHCRKNSYMNPERKCRVW

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001289463

**ORF Size:** 2250 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\\_001289463.1](#), [NP\\_001276392.1](#)

**RefSeq Size:** 5872 bp

**RefSeq ORF:** 2253 bp

**Locus ID:** 17380

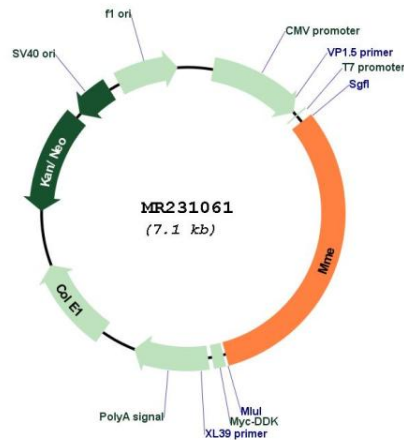
**UniProt ID:** [Q61391](#)

**Cytogenetics:** 3 29.97 cM

**MW:** 85.7 kDa

**Gene Summary:** Thermolysin-like specificity, but is almost confined on acting on polypeptides of up to 30 amino acids. Biologically important in the destruction of opioid peptides such as Met- and Leu-enkephalins by cleavage of a Gly-Phe bond. Able to cleave angiotensin-1, angiotensin-2 and angiotensin 1-9. Involved in the degradation of atrial natriuretic factor (ANF) (By similarity). Displays UV-inducible elastase activity toward skin preelastic and elastic fibers (PubMed:20876573).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR231061