

Product datasheet for **MR223375**

Mmel1 (NM_013783) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmel1 (NM_013783) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mmel1
Synonyms:	Mell1; NEP2; NEPII; NI1; SEP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223375 representing NM_013783
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGAGAGAGCAGGCTGGTGTGCGAAGAAGTCCCCAGGCTTCGTGGAGTATGGGCTGATGGTGTCTGC
 TGCTGCTGCTGTTGCTGGGAGCCATAGTGACTCTGGGTGCTTCTACAGCATAGGGAAGCAGCTGCCCT
 CTTAACTAGCCTGCTACACTTCTCTGGGATGAGAGGACGGTTGTAACAGCAGCCCTCAGGGATTATCA
 CTGAAAAGTGACATCTGCACCACCCCAAGCTGTGTGATAGCAGCTGCCAGAATCTCGAAAAATGGACC
 AATCGAGGAACCCCTGTGAAAATTCTACCAGTACGCTTTCGGGAGGCTGGCTGAGGCACCACGTGATCCC
 AGAGACCAACTCCAGATACAGCGTCTTTGACATCCTTCGGGACGAGCTGGAGGTTATCCTCAAAGGGGTG
 CTGGAGGATTCCACTTCCAGCATCGCCCGCCGTGGAGAAGCCAAGACTATATCGCTCCTGCATGA
 ACCAAAGTGTGATCGAGAAGAGAGACTCTGAGCCCTGCTGAGCGTCTTAAAAATGGTAGGAGTTGGCC
 TGTGGCCATGGATAAGTGAACGAGACCATGGGCCTCAAGTGGGAAGTGGAGCGACAGTTGGCTGTGTTG
 AACTCGCAGTTCAACAGGCGGGTCTCATCGACCTCTTCATCTGGAATGACGACCAGAATCCAGCCGGC
 ATGTCATCTACATAGACCAGCCACCTTGGGCATGCCATCCCGGGAGTACTATTTCCAGGAGGACAAACA
 CCACAAGGTACGGAAAGCCTACCTGGAGTTCATGACGTCAGTGGCCACTATGCTTAGGAAAGACCAGAAC
 CTGTCCAAGGAGAGCGCCATGGTGCAGGAGGAGATGGCGGAGGTGCTGGAAGTGGAGACGCATCTGGCCA
 ACGCCACAGTCCCCCAGGAGAAAAGGCATGATGTCAGTGCCTGTACCACCGAATGGACCTGATGGAGCT
 ACAGGAAAGGTTTGGTCTGAAGGGGTTAACTGGACTCTTTCATACAAAACGTGTTGTCTTCTGTGGAA
 GTCGAGCTGTTCCAGATGAGGAGGTGGTGGTCTACGGCATCCCCTACCTGGAGAATCTGGAGGATATCA
 TTGATAGCTACTCAGCAGGACCATGCAGAACTACCTGGTATGGCGCTGGTGTAGATCGAATTTGGCAG
 CCTGAGCCAGAGATTCAAAGAGGCGCGTGTGGACTACCGCAAGGCGCTGTACGGCACGACCGTGGAGGAG
 GTACGCTGGCGAGAGTGTGTCAGCTATGTCAACAGTAACATGGAGAGCGCCGTGGCTCCCTCTACATCA
 AGCGGGCCTTCTCCAAGGACAGCAAGAGCACGGTCAGAGAGCTGATTGAGAAGATAAGGTCCGTGTTTGT
 GGATAACCTGGATGAGCTGAACTGGATGGACGAGGAATCCAAGAAGAAGGCCAGGAAAAGGCCATGAAT
 ATACGGGAACAGATTGGCTACCCTGACTACATTTTGAAGATAACAATAAACACCTGGATGAGGAATACT
 CCAGTTTGACTTTCTATGAGGACCTGTATTTTGAAGACGGACTTCAGAACCTCAAGAACAATGCCAGAG
 GAGCCTCAAGAAGCTTCGGGAAAAGGTGGACCAGAATCTCTGGATCATCGGGCTGCAGTGGTCAATGCA
 TTCTACTCCCAACAGAAACCAGATCGTCTTTCCAGCAGGGATTCTCCAGCCGCCCTTCTCAGCAAGG
 ACCAACCCAGTCTTGAATTTTGGGGCATCGGGATGGTATTGGGCACGAGATCACACACGGCTTTGA
 TGATAATGGTCGTAACCTTGACAAGAACGGCAACATGCTGGACTGGTGGAGTAACCTCTCGGCCCGGCAC
 TTCCAACAGCAGTCGCAATGCATGATCTATCAGTACGGCAACTTCTCTTGGGAACTAGCAGACAACCAGA
 ATGTGAACGGATTAGTACCCTCGGGGAGAACATTGCCGACAACGGAGGTGTGCGACAGGCATACAAGGC
 TTACCTACGGTGGCTGGCTGATGGCGGCAAGATCAGCGACTGCCGGGACTGAACCTGACCTATGCCAG
 CTTTTCTCATCAACTATGCCAGGTGTGGTGTGGTCTATAGGCCGGAGTTCGCCGTCAGTCCATCA
 AGACGGACGTCCACAGTCTCTTAAGTACAGGGTGTGGCTCACTACAGAACCTGCCAGGCTTCTCTGA
 GGCATTCCACTGCCACGAGGACGCCCATGCACCCATGAAGCGATGTCGCATCTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223375 representing NM_013783
Red=Cloning site Green=Tags(s)

MVERAGWCRKKS PGFVEYGLMVL LLLLLLLG AIVTLGVFYSIGKQLPL L TSL LHFSWDERTVVKRALRDSS
 LKSDICTTPSCVIAAARILENMDQSRNPCENFYQYACGGWLRHHVIPETNSRYSVFDILRDELEVILKGV
 LEDSTSQHRPAVEKAKTL YRSCMNQSVIEKRDSEPLL SVLKMVGGWPVAMDKWNETMGLKWELERQLAVL
 NSQFNRRVLIDLFIWNDDQNSSRHVIYIDQPTLGMP SREYYFQEDNNHKVRKAYLEFMTSVATMLRKDQN
 LSKESAMVREEMA EVLELETHLANATVPQEK RHDVTALYHRMDLMELQERFGLKGFNWTLFIQNVLSSVE
 VELFPDEEVVYGI PYLENLEDIIDSYSARTMQNYL VWRVLVDRIGLSQRFKEARVDYRKALYGT TVEE
 VRWRECVSYVNSNMESAVGSLYIKRAF SKDSKSTVRELIEKIRSVFVDNLDELNWMDEESKKAQEKAMN
 IREQIGYPDYILEDNNKHLDEEYSSLTFYEDLYFENGLQNLKNN AQRSLKLRKVDQNLWIGAAVVNA
 FYSPNRNQIVFPAGILQPPFFSKDQPQSLNFGGIGM VIGHEITHGFDDNGRNF DKNGNMLDWWSNFSARH
 FQQSQCMIQYGNFSWELADNQNVNGFSTLGENIADNGGVRQAYKAYLRWLADGGKDQRLPGLNLT YAQ
 LFFINYAQVWCGSYRPEFAVQS IKTDVHSPLKYRVLGSLQNLPGFSEAFH CPRGSPMHPMKRCRIW

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9004_c02.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_013783

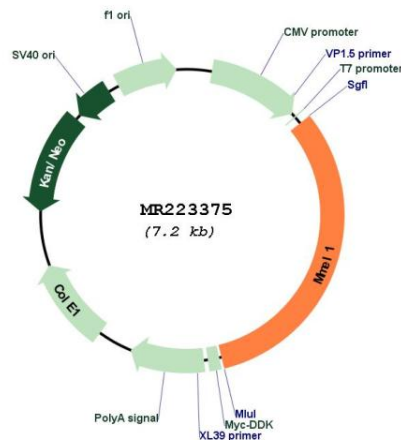
ORF Size: 2298 bp

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.
RefSeq:	NM_013783.2 , NP_038811.2
RefSeq Size:	2948 bp
RefSeq ORF:	2301 bp
Locus ID:	27390
UniProt ID:	Q9JLI3
Cytogenetics:	4 E2
MW:	89.3 kDa
Gene Summary:	Metalloprotease involved in sperm function, possibly by modulating the processes of fertilization and early embryonic development. Degrades a broad variety of small peptides with a preference for peptides shorter than 3 kDa containing neutral bulky aliphatic or aromatic amino acid residues. Shares the same substrate specificity with MME and cleaves peptides at the same amide bond.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223375