

Product datasheet for **MG223375**

Mmel1 (NM_013783) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmel1 (NM_013783) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mmel1
Synonyms:	Mell1; NEP2; NEPII; NI1; SEP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223375 representing NM_013783
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGGAGAGAGCAGGCTGGTGTGCGAAGAAGTCCCCAGGCTTCGTGGAGTATGGGCTGATGGTGTCTGC
 TGCTGCTGCTGTTGCTGGGAGCCATAGTGACTCTGGGTGCTTCTACAGCATAGGGAAGCAGCTGCCCT
 CTTAACTAGCCTGCTACACTTCTCTGGGATGAGAGGACGGTTGTAACAGCAGCCCTCAGGGATTATCA
 CTGAAAAGTGACATCTGCACCACCCCAAGCTGTGTGATAGCAGCTGCCAGAATCTCGAAAAATGGACC
 AATCGAGGAACCCCTGTGAAAATTCTACCAGTACGCTTGCAGGAGGCTGGCTGAGGCACCACGTGATCCC
 AGAGACCAACTCCAGATACAGCGTCTTTGACATCCTTCGGGACGAGCTGGAGGTTATCCTCAAAGGGGTG
 CTGGAGGATTCCACTTCCAGCATCGCCCGCCGTGGAGAAGCCAAGACTATATCGCTCCTGCATGA
 ACCAAAGTGTGATCGAGAAGAGAGACTCTGAGCCCTGCTGAGCGTCTTAAAAATGGTAGGAGTTGGCC
 TGTGGCCATGGATAAGTGAACGAGACCATGGCCCTCAAGTGGGAAGTGGAGCGACAGTTGGCTGTGTTG
 AACTCGCAGTTCAACAGGCGGGTCTCATCGACCTCTTCATCTGGAATGACGACCAGAATCCAGCCGGC
 ATGTCATCTACATAGACCAGCCACCTTGGGCATGCCATCCCGGGAGTACTATTTCCAGGAGGACAAACA
 CCAAGGTACGGAAAGCCTACCTGGAGTTCATGACGTCAGTGGCCACTATGCTTAGGAAAGACCAGAAC
 CTGTCCAAGGAGAGCGCCATGGTGCAGGAGGAGATGGCGGAGGTGCTGGAAGTGGAGACGCATCTGGCCA
 ACGCCACAGTCCCCCAGGAGAAAAGGCATGATGTCAGTGCCTGTACCACCGAATGGACCTGATGGAGCT
 ACAGGAAAGGTTTGGTCTGAAGGGGTTAACTGGACTCTTTCATACAAAACGTGTTGTCTTCTGTGGAA
 TCGAGCTGTTCCAGATGAGGAGGTGGTGGTCTACGGCATCCCCTACCTGGAGAATCTGGAGGATATCA
 TTGATAGCTACTCAGCAGGACCATGCAGAACTACCTGGTATGGCGCTGGTGTAGATCGAATGGCAG
 CCTGAGCCAGAGATTCAAGAGGCGCGTGTGGACTACCGCAAGGCGCTGTACGGCACGACCGTGGAGGAG
 GTACGCTGGCGAGAGTGTGTCAGCTATGTCAACAGTAACATGGAGAGCGCCGTGGCTCCCTCTACATCA
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 CCAGTTTGACTTTCTATGAGGACCTGTATTTTGAAGACGACTTCAGAACCTCAAGAACAATGCCAGAG
 GAGCCTCAAGAAGCTTCGGGAAAAGGTGGACCAGAATCTCTGGATCATCGGGCTGCAGTGGTCAATGCA
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 TTCCAACAGCAGTCGCAATGCATGATCTATCAGTACGGCAACTTCTCTTGGGAACTAGCAGACAACCAGA
 ATGTGAACGGATTAGTACCCTCGGGGAGAACATTGCCGACAACGGAGGTGTGCGACAGGCATACAAGGC
 TTACCTACGGTGGCTGGCTGATGGCGGCAAGATCAGCGACTGCCGGGACTGAACCTGACCTATGCCAG
 CTTTTCTCATCAACTATGCCAGGTGTGGTGTGGTCTATAGCCGGAGTTCGCCGTCAGTCCATCA
 AGACGGACGTCCACAGTCTCTTAAGTACAGGGTGTGGCTCACTACAGAACCTGCCAGGCTTCTCTGA
 GGCATTCCACTGCCACGAGGACGCCCATGCACCCATGAAGCGATGTCGCATCTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG223375 representing NM_013783
 Red=Cloning site Green=Tags(s)

MVERAGWCRKKSPPGFVEYGLMVL LLLLLLGAIVTLGVFYSIGKQLPLLTSLHFSWDERTVVKRALRDSS
 LKSDICTTPSCVIAAARILENMDQSRNPCENFYQYACGGWLRHHVIPETNSRYSVFDILRDELEVILKGV
 LEDSTSQHRPAVEKAKTLYRSCMNQSVIEKRDSEPLL SVLKMVGWVAVMDKWNETMGLKWELERQLAVL
 NSQFNRRVLIDLFIWDDQNSSRHVIYIDQPTLGMP SREYFFQEDNNHKVRKAYLEFMTSVATMLRKDQN
 LSKE SAMVREEMA EVLELETHLANATVPQEK RHDVTALYHRMDLMELQERFGLKGFNWTLFIQNVLSSVE
 VELFPDEEVVY GIPYLENLEDIIDSYSARTMQNYL VWRVLVDRIGLSQRFKEARVDYRKALYGTTVEE
 VRWRECVSYVNSMESAVGSLYIKRAF SKDSKSTVRELIEKIRSVFVDNLDELNWMDEESKKAQEKAMN
 IREQIGYPDYILEDNNKHLDEEYSSLTFYEDLYFENGLQNLKNN AQRSLKKLREKVDQNLWIIGA AVVNA
 FYSPNRNQIVFPAGILQPPFFSKDQPQSLNFGGIGMVIGHEITHGFDDNGRNF DKNGNMLDWWSNFSARH
 FQQSQCM IYQYGNFSWELADNQNVNGFSTLGENIADNGGVRQAYKAYLRWLADGGKDQRLPGLNLTYAQ
 LFFINYAQVWCGSYRPEFAVQSIKTDVHSPLKYRVLGSLQNLPGFSEAFHCPRGSPMHPMKRCRIW

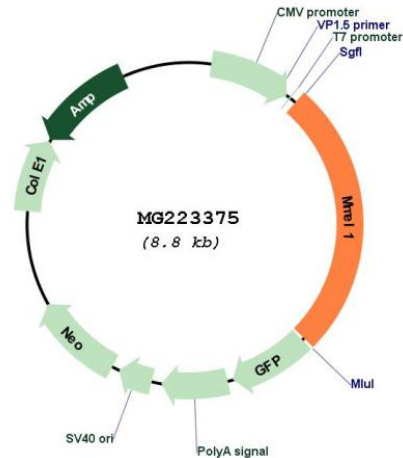
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


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:

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

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]