

Product datasheet for **RG229371**

MMEL1 (NM_033467) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMEL1 (NM_033467) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MMEL1
Synonyms:	MMEL2; NEP2; NEPII; NL1; NL2; SEP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG229371 representing NM_033467
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGAAGTCCGAAGGCCAGTGGGGATGGTGGAGAGCGCCGGCGTGCAGGGCAGAAGCGCCCGGGT
 TCCTGGAGGGGGGCTGCTGCTGCTGCTGCTGGTGAACCGCTGCCCTGGTGGCCTTGGGTGTCCTCTA
 CGCCGACCGCAGAGGGAAGCAGCTGCCACGCTTCTAGCCGGCTGTGCTTCTTACAGGAGGAGAGGACC
 TTTGTA AAAACGAAAACCCGAGGGATCCAGAGGCCAAGAGGTGAGCGAGGTCTGCACCACCCCTGGCT
 GCGTGATAGCAGCTGCCAGGATCCTCCAGAATCGACCCGACCACGGAACCGTGTGACGACTTCTACCA
 GTTTGCATGCGGAGGCTGGTGC GGCGCCACGTGATCCCTGAGACCAACTCAAGATACAGCATCTTTGAC
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 GCCCTGCTGGACATCTGGAGGTGGTGGGAGGCTGGCCGGTGGCGATGGACAGGTGGAACGAGACCGTA
 GGA CTGAGTGGGAGCTGGAGCGCAGCTGGCGCTGATGAACTCACAGTTCAACAGGCGCGTCTCATCG
 ACCTCTTCATCTGGAACGACGACCAGA ACTCCAGCCGGCACATCATCTACATAGACCAGCCACCTTGGG
 CATGCCCTCCCGAGAGTACTACTTCAACGGCGGCAGCAACCGGAAGGTGCGGGAAGCCTACCTGCAGTTC
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 CGTCATCGCCTTGTACCACCGGATGGGACTGGAGGAGCTGCAAAGCCAGTTTGGCCTGAAGGGATTAAC
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 TCTATGGCATCCCCTACCTGCAGAACCTTGAAAACATCATCGACACCTACTCAGCCAGGACCATACAGAA
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 TGGGATGGTGTGATCGGGCAGGATCACGCACGGCTTTGACGACAATGGCCGGAACCTCGACAAGAATGGC
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 GACCAGCAGCTGCCCGCCTGGATCTACCCATGAGCAGCTCTTCTTCACTCAACTATGCCAGGTGTGGT
 GCGGGTCTACCGGCCGAGTTCCCATCCAATCCATCAAGACAGACGTCCACAGTCCCCGAAAGTACAG
 GGTA CTGGGTGCTGCAGAACCTGGCCGCTTCGACACACGTTCCACTGTGCCGGGGCACCCCCATG
 CACCCCAAGGAGCGATGCCGCGTGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG229371 representing NM_033467
Red=Cloning site Green=Tags(s)

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MGKSEGPVGMVESAGRAGQKRPGFLEGLLLLLLLLVTAAALVALGVLVADRRGKQLPRLASRLCFLQEERT
FVKRKPRGIPEAQEVSEVCTTPGCVIAAARILQNDPTTEPCDDFYQFACGGWLRHVIPETNSRYSIFD
VLRDELEVILKAVLENSTAKDRPAVEKARTLYRSCMNQSVIEKRGSQPLLDILEVVGWVAMDRWNETV
GLEWELERQLALMNSQFNRRVLIDLFIWDDQNSSRHIIYIDQPTLGMPSREYFNGGSRKRVREAYLQF
MYSVATLLREDANLPRDSCLVQEDMVQVLELETQLAKATVPQEERHDVIALYHRMGLEELQSQFGLKGFN
WTLFIQTVLSSVKIKLLPDEEVVYGIPLYLQNLNIIDTYSARTIQNYLVWRLVLDRIIGLSQRFKDTRV
NYRKALFGTMVEEVRWRECVGYVNSNMENAVGSLYVREAFPGDSKSMVRELIDKVRTVFVETLDELGWMD
EESKKAQEKAMSIREQIGHDPYILEEMNRRLEDEEYSNLNFSEDLYFENSLQNLKVGARSLRKLREKVD
PNLWIIIGAAVVNAFYSPNRNQIVFPAGILQPPFFSKEQPQALNFGGIGMVGHEITHGFDDNRFNDKNG
NMMDWWSNFSTQHFREQSECMIQYGNYSWDLADEQNVNGFNTLGENIADNGGVRQAYKAYLKWMAEGGK
DQQLPGLDLTHEQLFFINYAQVWCGSYRPEFAIQSIKTDVHSPLKYRVLGSLQNLAAFADTFHCARGTGM
HPKERCRVW
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033467

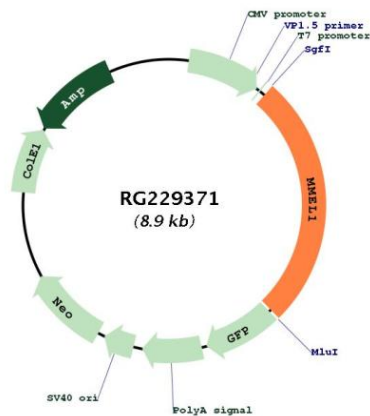
ORF Size: 2337 bp

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:	<u>NM_033467.4</u>
RefSeq Size:	2902 bp
RefSeq ORF:	2340 bp
Locus ID:	79258
UniProt ID:	<u>Q495T6</u>
Cytogenetics:	1p36.32
Protein Families:	Druggable Genome, Protease, Secreted Protein, Transmembrane
Gene Summary:	The protein encoded by this gene is a member of the neutral endopeptidase (NEP) or membrane metallo-endopeptidase (MME) family. Family members play important roles in pain perception, arterial pressure regulation, phosphate metabolism and homeostasis. This protein is a type II transmembrane protein and is thought to be expressed as a secreted protein. This gene is expressed mainly in testis with weak expression in the brain, kidney, and heart. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG229371