

Product datasheet for **MR226668**

Men1 (NM_001168489) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Men1 (NM_001168489) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Men1
Synonyms:	AW045611
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR226668 representing NM_001168489
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCTCTGCGCTCTATCGACGACGTGGTGGCCCTGTTT
 CTGCAGAGCTGGGCCGAGAGGAGCTGACTGGTGTCTCCTTGGTCTGGGCTTCGTGGAGCATTT
 CCTGGCTGTCAACCGTGTCACTCCCAACAGTCCCGGAGCTCACCTTCCAGCCAGCCCGCACCCGAC
 CCTCTGGTGGCCTCACCTACTTCCCGGTGGCCGACCTATCCATCATTGCTGCCCTCTATGCCCGATTCA
 CCGCTCAGATCCGCGGCTGTGGACCTCTCCCTCTATCCTCGAGAGGGAGGTGTTTCTAGTCGCGAACT
 GGTAAAAAAGGTCTCGGATGTATATGGAACAGCCTCAGCCGCTCCTACTTCAAGGACCGGGCCACATC
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 CCTGCCAGGCTCTGGGTCTCAGAGATGTCCATCTGGCCCTGTCTGAAGATCATGCTTGGGTGGTGGT
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 GTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAGGGTCTGATGCCTGCGACCGTAAGA
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 GCAACTACAGCAGAAGCTGCTCTGGCTGTGTATGACCTCGGACATCTGGAAAGATACCCCATGGCGCTA
 GGGAACTTGGCAGACCTGGAGGAGCTGGAGCCTACCCCGGGCCGAGACCCACTACCCCTTTATCACA
 AGGGAATTGCCTCAGCTAAGACCTACTACCAGGATGAACACATCTACCCCTACATGTACCTGGCTGGCTA
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 TACAACACTGCCGGGAGGATGAGGAGATCTACAAGGAATCTTTGAAGTGGCAATGACGTCATCCCA
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 GAGCCACCACCACCAAGAAGCCTGCATTGGACAAGGGCCCGGGCTCAGGACAAAGTGCAGGCTCGGGAC
 CACCTAGAAAACGTGAGGACTGTCCAGGACTACCCCGGTGGCCAGGAAGTGCAGGCTGCTGCTCA
 GGCTCCAGCACCTGCAGCATCGCCACCCAGAGGGCCAGTGTCACTTCCAGAGTGAGAAGATGAAA
 GGCATGAAGGAGTACTGGTGGCCACCAAGATCAACTCGAGCGCCATCAAGCTGCAACTCAGGCACAGT
 CGCAAGTGCAGATGAAGAAACAGAAAGTGTCCACACCCAGCGACTACACACTCTCTTTCCTAAAGCGGCA
 CGCAAGGGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226668 representing NM_001168489
 Red=Cloning site Green=Tags(s)

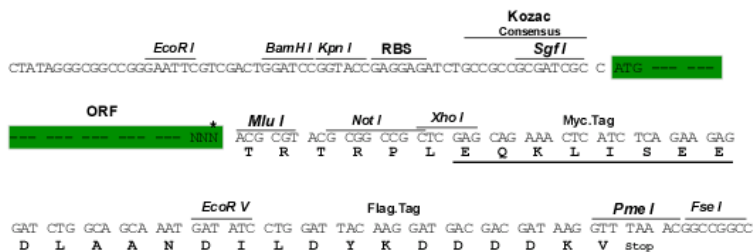
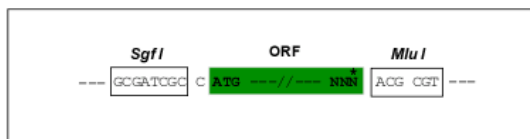
MGLKAAQKTLFPLRSIDVVRLFAAELGREPDLVLLSLVLFVVEHFLAVNRVIPTNPVELTFQPSFAPD
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGVSSREL VKKVSDVIWNSLSRSYFKDRAHI
 QSLFSFITGKLDSSGVAFVVGACQALGLRDVHLALSEDHAWVFGPNGEQTA EVTWHGKGNEDRRGQT
 VNAGVAERSWL YLKGSYMRCDRKMEVAFMVCAINPSIDLHTDSELLQLQKLLWLLYDLGHLERYPMAL
 GNLADLELEPTPGRPDPLTYHKGIASAKTYQDEHIYPMYLAGYHCRNRNVREALQAWADTATVIQD
 YNYCREDEEIIYKEFFEIVANDVIPNLLKEASLLETGEERTGEQAQGTQGGQSALQDPECF AHL LRFYDGI
 CKWEEGSPV LHVGWATFLVQSLGRFEGQVRQKVHIVSREAAEAEEPWGDEAREGRRRGRPRESKPE
 EPPPPK PALDKGPGSGQSAGSGPPRKTSGTVPGTTRGGQEVGNAAQAPAPAASPPPEGPV LTFQSEKMK
 GMKELLVATKINSSAIKQLTAQSQVQMKKQKVSTP SDYTL SFLKRQRKGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

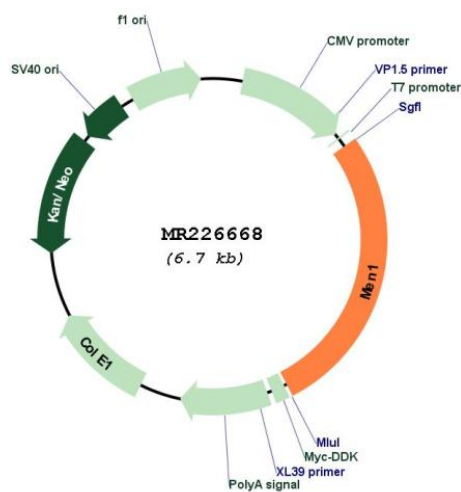
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001168489

ORF Size: 1833 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_001168489.1 , NP_001161961.1
RefSeq Size:	2644 bp
RefSeq ORF:	1836 bp
Locus ID:	17283
UniProt ID:	O88559
Cytogenetics:	19 A
MW:	68 kDa
Gene Summary:	Essential component of a MLL/SET1 histone methyltransferase (HMT) complex, a complex that specifically methylates 'Lys-4' of histone H3 (H3K4). Functions as a transcriptional regulator. Binds to the TERT promoter and represses telomerase expression. Plays a role in TGFB1-mediated inhibition of cell-proliferation, possibly regulating SMAD3 transcriptional activity. Represses JUND-mediated transcriptional activation on AP1 sites, as well as that mediated by NFKB subunit RELA. Positively regulates HOXC8 and HOXC6 gene expression (By similarity). May be involved in normal hematopoiesis through the activation of HOXA9 expression. May be involved in DNA repair.[UniProtKB/Swiss-Prot Function]