

## Product datasheet for **MR226665**

### Men1 (NM\_001168488) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Men1 (NM_001168488) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Men1
Synonyms:	AW045611
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR226665 representing NM\_001168488  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCACCGCCCGCCCATGGGGCTGAAGGCCGCCAGAAGACGCTGTCCCTCTGCGCTCTATCGACG  
 ACGTGGTGCSCCTGTTTGTGCAGAGCTGGGCCGAGAGGAGCCTGACCTGGTGCTCCTGTCTTGGTCC  
 GGGCTTCGTGGAGCATTTCCTGGCTGTCAACCGTGTATCCCCACCAACGTGCCGGAGCTCACCTCCAG  
 CCCAGCCCCGACCCGACCTCCTGGTGGCCTCACCTACTTCCCGGTGGCCGACCTATCCATCATTGCTG  
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 TGTTCCTAGTCGCGAACTGGTAAAAAGGTCTCGGATGTCATATGGAACAGCCTCAGCCGCTCTACTTC  
 AAGGACCGGGCCACATCCAGTCCCTCTCAGCTTCATCACAGGCACAACTGGACAGCTCGGGCGTGG  
 CCTTTGCAGTGGTAGGGCTGCCAGGCTCTGGGTCTCAGAGATGCCATCTGGCCCTGTCTGAAGATCA  
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 GACCGCAGAGGCCAGACAGTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAGGGTCTGACA  
 TGGCTGCGACCGTAAGATGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCCTCCATCGATCTTACAC  
 TGACTCTTTGAACTGTTGCAACTACAGCAGAAGCTGCTCGCTGCTGTATGACCTCGGACATCTGGAA  
 AGATACCCCATGGCGCTAGGGAAGTTGGCAGACCTGGAGGAGCTGGAGCCTACCCCGGGCCGGCCAGACC  
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 GCCACTGTTATCCAAGACTACAATACTGCCGGGAGGATGAGGAGATCTACAAGGAATCTTTGAAGTGG  
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 AGCAGAGGCGGCCGAGGCTGAAGAACCATGGGGGATGAAGCCCAGAGAAGGCCGTGCGGCTGGTCCCGGA  
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 CAGAGTGAGAAGATGAAAGGCATGAAGGAGCTACTGGTGGCCACCAAGATCAACTCGAGCGCCATCAAGC  
 TGCAACTCACGGCACAGTCGCAAGTGCAGATGAAGAAACAGAAAGTGTCCACCCAGCGACTACACACT  
 CTCTTTCCTAAAGCGGCAGCGCAAGGGCCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

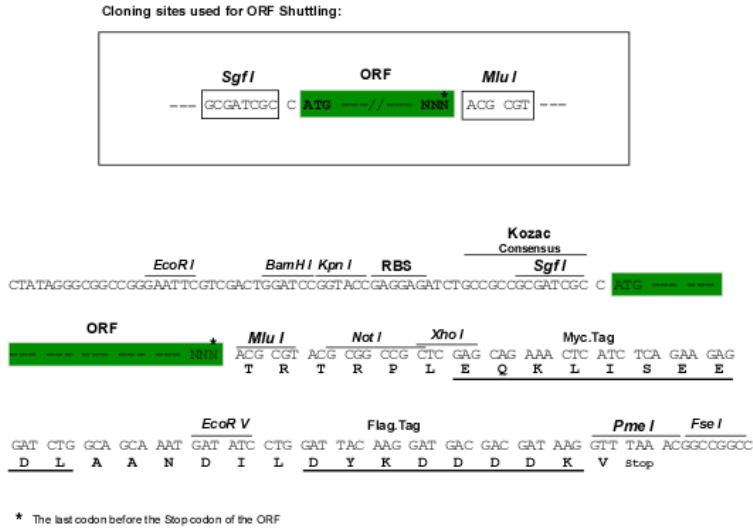
>MR226665 representing NM\_001168488  
 Red=Cloning site Green=Tags(s)

MPPPAAMGLKAAQKTLFPLRSIDDVVRLF AAEELGREPDLVLLSLVLFVGFVEHFLAVNRVIPTNPPELTFQ  
 PSPAPDPPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSL YPREGGVSSREL VKKVSDVIWNSLSRSYF  
 KDRAHIQSLFSF ITGTKLDSSGVAFVVGACQALGLRVDVHLAL SEDHAWVVFPGNGEQTA EVTWHGKGN  
 DRRGQTVNAGVAERSWL YLKGSYMRCDRKMEVAFMVCAINPSIDLHTDSLELLQLQKLLWLL YDLGHLE  
 RYPMALGNLADLEEL EPTPGRPDPL TL YHKGIASAKTYQDEHIYPYMYLAGYHCRNRNVREALQAWADT  
 ATVIQDYNCREDEE IYKEFFE VANDVIPNLLKEAASLLETGEERTGEQAQGTQGGQSALQDPECF A HLL  
 RFYDGIKWEEGSPTPVLHVGWATFLVQSLGRFEGQVRQKVHIVSREAEAEAEPEPWGDEAREGRRRGR  
 RESKPEEPPPKPALDKGPGSQSAGSGPPRKTSGTVPGTTRGGQEVGNAAPAPAA SPPPEGPVLT  
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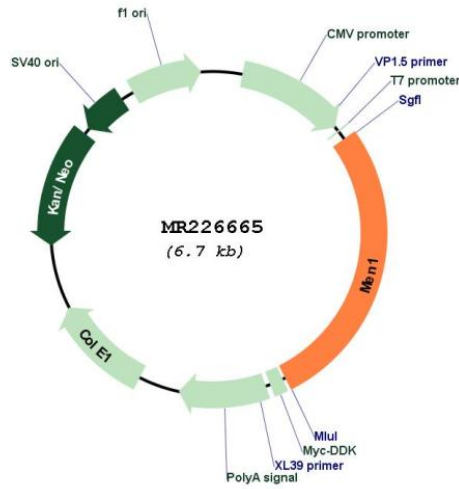
**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001168488

ORF Size: 1851 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001168488.1</a> , <a href="#">NP_001161960.1</a>
<b>RefSeq Size:</b>	2666 bp
<b>RefSeq ORF:</b>	1854 bp
<b>Locus ID:</b>	17283
<b>UniProt ID:</b>	<a href="#">O88559</a>
<b>Cytogenetics:</b>	19 A
<b>MW:</b>	68.5 kDa
<b>Gene Summary:</b>	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]