

Product datasheet for **MR208819**

Men1 (NM_001168490) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Men1 (NM_001168490) 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)



[View online »](#)

ORF Nucleotide Sequence:

>MR208819 representing NM_001168490
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCTCTGCGCTCTATCGACGACGTGGTGGCCCTGTTT
 CTGCAGAGCTGGGCCGAGAGGAGCTGACTGGTCTCCTGTCTTGGTCTGGGCTTCGTGGAGCATT
 CCTGGCTGTCAACCGTGTCACTCCCAACAGTCCGGAGCTCACCTTCCAGCCAGCCCGCACCCGAC
 CCTCTGGTGGCCTCACCTACTTCCCGGTGGCCGACCTATCCATCATTGCTGCCCTCTATGCCCGATTCA
 CCGCTCAGATCCGCGGCTGTGGACCTCTCCCTCTATCCTCGAGAGGGAGGTGTTTCTAGTCGCGAACT
 GGTAAAAAAGGTCTCGGATGTATGGAACAGCCTCAGCCGCTCTACTTCAAGGACCGGGCCACATC
 CAGTCCCTCTCAGCTTCAACAGGCACCAACTGGACAGCTCGGGCGTGGCCTTTCAGTGGTAGGGG
 CCTGCCAGGCTCTGGGTCTCAGAGATGTCCATCTGGCCCTGTCTGAAGATCATGCTTGGGTGGTGGT
 GCCAACGGGGAGCAGACAGCTGAGGTGACGTGGCAGCGCAAGGCAACGAGGACCGCAGAGGCCAGACA
 GTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAGGGTCTGTACATGCCCTGCCACCGTAAGA
 TGGAGGTGGCGTTTATGGTGTGTGCCATCAACCCTTCCATCGATCTTCACTGACTCTTTGAACTGTT
 GCAACTACAGCAGAAGCTGCTCTGGCTGTGTATGACCTCGGACATCTGGAAAGATACCCCATGGCGCTA
 GGGAACTTGGCAGACCTGGAGGAGCTGGAGCCTACCCCGGGCCGAGACCCACTACCCCTTTATCACA
 AGGGAATTGCCTCAGCTAAGACCTACTACCAGGATGAACACATCTACCCCTACATGTACCTGGCTGGCTA
 CCACTGTGCAACCGAAATGTGCGCAAGCCCTGCAGGCTGGGCCGACACTGCCACTGTTATCCAAGAC
 TACAACACTGCCGGGAGGATGAGGAGATCTACAAGGAATCTTTGAAGTGGCAATGACGTCATCCCA
 ACCTGCTGAAGGAGGCGCCAGCCTGCTAGAAACAGGCGAAGAGCGGACTGGGGAGCAAGCCAGTGGC
 GCAGAAGGTGCACATAGTTAGCCGGGAAGCAGAGGCGGCGGAGGCTGAAGAACCATGGGGGGATGAAGCC
 CGAGAAGGCCGTGCGCGTGGTCCCGAAGAGAGTCCAAGCCTGAGGAGCCACCACCACCAAGAAGCCTG
 CATTGGACAAGGGCCCGGCTCAGGACAAAGTGCAGGGTCCGGACCACCTAGGAAAACGTCAGGGACTGT
 CCCAGGTAACCCGCGGTGGCCAGGAAGTCCGCAATGCTGCTCAGGCTCCAGCACCTGCAGCATCGCCA
 CCCCCAGAGGGCCAGTCTACTTTCCAGAGTGAAGAAGTGAAGGATGAAGGAGCTACTGGTGGCCA
 CCAAGATCAACTCGAGCGCCATCAAGCTGCAACTCACGGCACAGTCGCAAGTGCAGATGAAGAAACAGAA
 AGTGTCCACACCCAGCGACTACACTCTCTTTCTAAAGCGGCAGCGCAAGGGCCTC

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>MR208819 representing NM_001168490
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDDVVRLFAAELGREPDVLLSLVLFVVEHFLAVNRVIPTNPVPELTFQSPAPD
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGGVSSRELVKVSDVIWNSLSRSYFKDRAHI
 QSLFSFITGKLDSSGVAFAVVGACQALGLRDVHLALSEDHAWVFGPNGEQTAEVTHWGKGNEDRRGQT
 VNAGVAERSWLKGSYMRCDRMEVAFMVCAINPSIDLHTDSELLQLQKLLWLLYDLGHLERYPMAL
 GNLAADLELEPTPGRPDPLTYHKGIASAKTYQDEHIYPMYLAGYHCRNRNVREALQAWADTATVIQD
 YNYCREDEEIIYKEFFEVANDVIPNLLKEASLLETGEERTGEQAQVRQKVHIVSREAEAAEAEPEWGDEA
 REGRRRGPRESKPEEPPPKPALDKPGSGQSAGSGPPRKTSGTVPGTTRGGQEVGNAAPAPASP
 PPEGPVLTFQSEKMKGMKELLVATKINSSAIKLQLTAQSQVQMKKQKVSTPSPDYTLNFLKQKRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9038_h02.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001168490

ORF Size: 1668 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_001168490.1](#), [NP_001161962.1](#)

RefSeq Size: 2815 bp

RefSeq ORF: 1671 bp

Locus ID: 17283

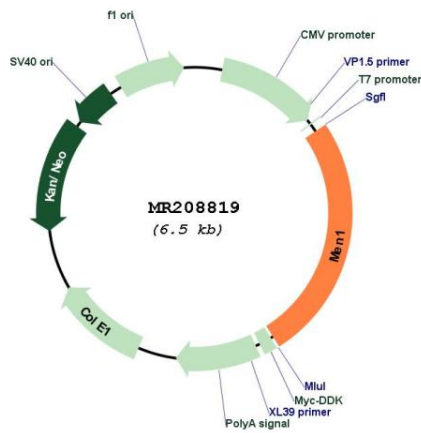
UniProt ID: [O88559](#)

Cytogenetics: 19 A

MW: 61.9 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]

Product images:



Circular map for MR208819