

Product datasheet for **MC218200**

Men1 (NM_001168490) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Men1 (NM_001168490) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Men1
Synonyms:	AW045611
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC218200 representing NM_001168490
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCTCTGCGCTCTATCGACGACGTGGTGGCCCTGTTTG
 CTGCAGAGCTGGGCCGAGAGGAGCTGACTGGTCTCCTGTCTTGGTCTGGGCTTCGTGGAGCATT
 CCTGGCTGTCAACCGTGTCACTCCCAACAGTCCCGGAGCTCACCTTCCAGCCAGCCCGCACCCGAC
 CCTCTGGTGGCCTCACCTACTTCCCGGTGGCCGACCTATCCATCATTGCTGCCCTCTATGCCCGATTCA
 CCGCTCAGATCCGCGGCTGTGGACCTCTCCCTCTATCCTCGAGAGGGAGGTGTTTCTAGTCGCGAACT
 GGTAAAAAAGGTCTCGGATGTATGGAACAGCCTCAGCCGCTCCTACTTCAAGGACCGGGCCACATC
 CAGTCCCTCTCAGTTCATCACAGGCACCAACTGGACAGCTCGGGCGTGGCCTTTCAGTGGTAGGGG
 CCTGCCAGGCTCTGGGTCTCAGAGATGTCCATCTGGCCCTGTCTGAAGATCATGCTTGGGTGGTGTGG
 GCCAACGGGAGCAGACAGCTGAGGTGACGTGGCACGGCAAAGGCAACGAGGACCGCAGAGGCCAGACA
 GTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAGGGTCTGATACGCTGCGACCGTAAGA
 TGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTTCCATCGATCTTCACTGACTCTTTGAACTGTT
 GCAACTACAGCAGAAGCTGCTCTGGCTGTGTATGACCTCGGACATCTGGAAAGATACCCCATGGCGCTA
 GGGAACTTGGCAGACCTGGAGGAGCTGGAGCCTACCCCGGCCGCGCCAGACCCACTCACCCTTTATCACA
 AGGGAATTGCCTCAGCTAAGACCTACTACCAGGATGAACACATCTACCCCTACATGTACCTGGCTGGCTA
 CCACTGTCGAACCGAAATGTGCGCAAGCCCTGCAGGCTGGGCCGACACTGCCACTGTTATCCAAGAC
 TACAACACTGCCGGGAGGATGAGGAGATCTACAAGGAATCTTTGAAGTGGCCAATGACGTCAATCCCA
 ACCTGCTGAAGGAGGCCGCGCCAGCTGCTAGAAACAGGCGAAGAGCGGACTGGGGAGCAAGCCAGTGCG
 GCAGAAGGTGCACATAGTTAGCCGGAAGCAGAGGCGGCCGAGGCTGAAGAACCATGGGGGGATGAAGCC
 CGAGAAGGCCGTGCGCGTGGTCCCGAAGAGAGTCCAAGCCTGAGGAGCCACCACCACCAAGAAGCCTG
 CATTGGACAAGGGCCCGGCTCAGGACAAAGTGCAGGGTCCGGACCACCTAGGAAAACGTCAGGGACTGT
 CCCAGGTAACCCGCGGTGGCCAGGAAGTCCGCAATGCTGCTCAGGCTCCAGCACCTGCAGCATCGCCA
 CCCCCAGAGGGCCAGTCTACTTTCCAGAGTGAAGAAGTGAAGGATGAAGGAGCTACTGGTGGCCA
 CCAAGATCAACTCGAGCGCCATCAAGTCAACTCACGGCACAGTCGCAAGTGCAGATGAAGAAACAGAA
 AGTGTCCACACCCAGCGACTACACTCTCTTTCTAAAGCGGCAGCGCAAGGGCCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001168490

Insert Size: 1671 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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

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]
Transcript Variant: This variant (4) differs in the 5' UTR, uses a downstream start codon, and lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. The resulting isoform (c) is shorter than isoform a.