

Product datasheet for **MG226668**

Men1 (NM_001168489) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Men1 (NM_001168489) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Men1
Synonyms:	AW045611
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226668 representing NM_001168489
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCTCTGCGCTCTATCGACGACGTGGTGGCCCTGTTT
 CTGCAGAGCTGGGCCGAGAGGAGCTGACTGGTCTCCTGTCTTGGTCTGGGCTTCGTGGAGCATT
 CCTGGCTGTCAACCGTGTCACTCCCAACAGTCCGGAGCTCACCTTCCAGCCAGCCCGCACCCGAC
 CCTCTGGTGGCCTCACCTACTTCCCGGTGGCCGACCTATCCATCATTGCTGCCCTCTATGCCCGATTCA
 CCGCTCAGATCCGCGGCTGTGGACCTCTCCCTCTATCCTCGAGAGGGAGGTGTTTCTAGTCGCGAACT
 GGTAAAAAAGGTCTCGGATGTATATGGAACAGCCTCAGCCGCTCTACTTCAAGGACCGGGCCACATC
 CAGTCCCTCTCAGCTTCAACAGGCACCAACTGGACAGCTCGGGCGTGGCCTTTCAGTGGTAGGGG
 CCTGCCAGGCTCTGGGTCTCAGAGATGTCCATCTGGCCCTGTCTGAAGATCATGCTTGGGTGGTGGT
 GCCAACGGGGAGCAGACAGCTGAGGTGACGTGGCAGCGCAAGGCAACGAGGACCGCAGAGGCCAGACA
 GTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAGGGTCTGATACGCTGCGACCGTAAGA
 TGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTTCCATCGATCTTCACTGACTCTTTGAACTGTT
 GCAACTACAGCAGAAGCTGCTCTGGCTGTGTATGACCTCGGACATCTGGAAAGATACCCCATGGCGCTA
 GGGAACTTGGCAGACCTGGAGGAGCTGGAGCCTACCCCGGCCGCGCCAGACCCACTACCCCTTTATCACA
 AGGGAATTGCCTCAGCTAAGACCTACTACCAGGATGAACACATCTACCCCTACATGTACCTGGCTGGCTA
 CCACTGTGCAACCGAAATGTGCGCAAGCCCTGCAGGCTGGGCCGACACTGCCACTGTTATCCAAGAC
 TACAACACTGCCGGGAGGATGAGGAGATCTACAAGGAATCTTTGAAGTGGCCAATGACGTCATCCCA
 CCCTGCTGAAGGAGGCGGCCAGCCTGCTAGAAACAGGCGAAGAGCGGACTGGGGAGCAAGCCAGGGCAC
 CCAGGGCCAAGGTTCTGCTCTCCAGGACCCAGAATGCTTTGCCACCTGCTGCGATTTTATGATGGC
 TGCAATGGGAGGAGGTAGCCCCACACCACTGACTGACGCTAGGCTGGGCAACTTTCCTTGTGAGTCCC
 TAGGCCGCTTCGAGGGACAGGTGCGGCAGAAAGTGCACATAGTTAGCCGGGAAGCAGAGGCGCCGAGGC
 TGAAGAACCATGGGGGATGAAGCCCGAGAAGGCCGTCGGCGTGGTCCCGAAGAGAGTCCAAGCCTGAG
 GAGCCACCACCACCAAGAAGCCTGCATTGGACAAGGGCCCGGGCTCAGGACAAAGTGCAGGCTCGGGAC
 CACCTAGAAAACGTGAGGACTGTCCAGGACTACCCCGGTGGCCAGGAAGTGCAGCAATGCTGCTCA
 GGCTCCAGCACCTGCAGCATCGCCACCCAGAGGGCCAGTGTCACTTCCAGAGTGAGAAGATGAAA
 GGCATGAAGGAGTACTGGTGGCCACCAAGATCAACTCGAGCGCCATCAAGCTGCAACTCACGGCACGT
 CGCAAGTGCAGATGAAGAAACAGAAAGTGTCCACACCCAGCGACTACACACTCTTTCTAAAGCGGCA
 CGCAAGGGCCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG226668 representing NM_001168489
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDVVRFLFAAELGREEDLVLLSLVLFVVEHFLAVNRVIPTNPELTFQSPAPD
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGGVSSRELVKKVSVDIWNLSRSYFKDRAHI
 QSLFSFITGKLDSSGVAFVVGACQALGLRDVHLALSEDHAWVVFVGPNGEQTAETVWHGKGNEDRRGQT
 VNAGVAERSWL YLKGSYMRCDRKMVAFMVCAINPSIDLHTDSELLLQLQKLLWLLYDLGHLERYPMAL
 GNLADLEELEPTPGRPDPLTYHKGIAAKTYQDEHIYPYMYLAGYHCRNRNVREALQAWADTATVIQD
 YNYCREDEEIIYKEFFEYVANDVIPNLLKEAASLLETGEERTGEQAQGTQGGQGSALQDPECF AHL LRFYDGI
 CKWEEGSPVPLHVGWATFLVQSLGRFEGQVRQKVHIVSREAEAAEAEPEPWGDEAREGRRRGPRESKPE
 EPPPPKPKALDKPGSGQSAGSGPPRKTSGTVPGTTRGGQEVGNAAQAPAPAASPPPEPVLTFQSEKMK
 GMKELLVATKINSSAIKLQLTAQSQVQMKQKVSTPSDYTL SFLKRQRKGL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


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:

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

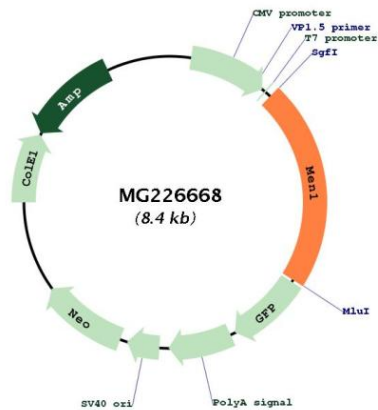
Locus ID: 17283

UniProt ID: [O88559](#)

Cytogenetics: 19 A

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 MG226668