

Product datasheet for **MG226665**

Men1 (NM_001168488) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Men1 (NM_001168488) 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:

>MG226665 representing NM_001168488
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCACCGCCCGCCCATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCTCTGCGCTCTATCGACG
 ACGTGGTGCGCCTGTTTGTGCAGAGCTGGGCCGAGAGGAGCCTGACCTGGTGCTCCTGTCTTGGTCCCT
 GGGCTTCGTGGAGCATTTCCTGGCTGTCAACCGTGTATCCCCACCAACGTGCCGGAGCTCACCTCCAG
 CCCAGCCCCGACCCGACCCCTCCTGGTGGCCTCACCTACTTCCCGGTGGCCGACCTATCCATCATTGCTG
 CCCTCTATGCCGATTACCGCTCAGATCCGCGCGCTGTGGACCTCTCCCTCTATCCTCGAGAGGGAGG
 TGTTCCTAGTCGCGAACTGGTAAAAAGGTCTCGGATGTCATATGGAACAGCCTCAGCCGCTCTACTTC
 AAGGACCGGGCCACATCCAGTCCCTCTCAGCTTCATCACAGGCACAACTGGACAGCTCGGGCGTGG
 CCTTTGCAGTGGTAGGGCCTGCCAGGCTCTGGGTCTCAGAGATGCCATCTGGCCCTGTCTGAAGATCA
 TGCTTGGTGGTGTGGGCCAACGGGAGCAGACAGCTGAGGTGACGTGGCACGGCAAAGGCAACGAG
 GACCGCAGAGGCCAGACAGTCAATGCCGGTGTGGCTGAGCGGAGCTGGTGTACCTGAAGGGTCTGACA
 TGGCTGCGACCGTAAGATGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCCTCCATCGATCTTACAC
 TGACTCTTTGAACTGTTGCAACTACAGCAGAAGCTGCTTGGCTGCTGTATGACCTCGGACATCTGGAA
 AGATACCCCATGGCGCTAGGGAACCTGGCAGACCTGGAGGAGCTGGAGCCTACCCCGGGCCGGCCAGACC
 CACTCACCTTTATCACAAGGAATTGCCTCAGCTAAGACCTACTACCAGGATGAACACATCTACCCCTA
 CATGTACCTGGCTGGCTACCACTGTGCAACCGAAATGTGCGCGAAGCCCTGCAGGCTGGGCCGACACT
 GCCACTGTTATCCAAGACTACAATACTGCCGGGAGGATGAGGAGATCTACAAGGAATCTTTGAAGTGG
 CCAATGACGTCAATCCCAACCTGCTGAAGGAGGGGCCAGCCTGCTAGAACAGGCGAAGGCGGACTGG
 GGAGCAAGCCCCAGGGCACCCAGGGCCAAGGTTCTGCTCTCCAGGACCCAGAATGCTTTGCCACCTGCTG
 CGATTTTATGATGGCATCTGCAAATGGGAGGAGGTAGCCCCACACCACTACTGCACGTAGGCTGGGCAA
 CTTTCCTTGTGCAGTCCCTAGGCCGCTTCGAGGGACAGGTGCGGCAGAAGGTGCACATAGTTAGCCGGGA
 AGCAGAGGCGGCCGAGGCTGAAGAACCATGGGGGATGAAGCCCGAGAAGGCCGTCGGCGTGGTCCCGGA
 AGAGAGTCCAAGCCTGAGGAGCCACCACCACCAAGAAGCCTGCATTGGACAAGGGCCCGGGCTCAGGAC
 AAAGTGCAGGGTCCGGACCCTAGGAAAACGTCAGGGACTGTCCAGGTACTACCCGGTGGCCAGGA
 AGTCGGCAATGTGCTCAGGCTCCAGCACCTGCAGCATCGCCACCCCGAGAGGGCCAGTGTCACTTTC
 CAGAGTGAGAAGATGAAAGGCATGAAGGAGCTACTGGTGGCCACCAAGATCAACTCGAGCGCCATCAAGC
 TGCAACTCACGGCACAGTCGCAAGTGCAGATGAAGAAACAGAAAGTGTCCACCCAGCGACTACACACT
 CTCTTTCCTAAAGCGGCAGCGCAAGGGCCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG226665 representing NM_001168488
 Red=Cloning site Green=Tags(s)

MPPPAAMGLKAAQKTLFPLRSIDDVVRLFAAELGREEPDLVLLSLVLFVEHFLAVNRVIPTNVPETFQ
 PSPAPDPPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGGVSSRELVKVSDVIWNSLSRSYF
 KDRAHIQSLFSFITGTLKLDSSGVAFVVGACQALGLRDVHLALSEDHAWVVFVGPNGEQTAEVTWHGKNE
 DRRGQTVNAGVAERSWLKSGSYMRCRDMEVAFMVCAINPSIDLHTDSLELLQLQKLLWLLYDLGHLE
 RYPMALGNLADLEELPTPGRPDPLTYHKGIASAKTYQDEHIYPYMYLAGYHCRNRNVREALQAWADT
 ATVIQDYNCREDEEIIYKEFFEVDVNPVLLKEAASLLETGEERTGEQAQGTQGGQGSALQDPECF AHL
 RFYDGIKWEESPTPVLHVGWATFLVQSLGRFEGQVRQKVHIVSREAEAEAEAEAEAEAEAEAEAEAE
 RESKPEEPPPPKPPALDKGPGSGQSAGSGPPRKTSGTVPGTTRGGQEVGNAAQAPAPAASPPPEGPVLT
 QSEKMKGMKELLVATKINSSAIKLQLTAQSQVQMKKQKVSTPSDYTL SFLKRQRKGL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001168488

ORF Size: 1851 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_001168488.1](#), [NP_001161960.1](#)

RefSeq Size: 2666 bp

RefSeq ORF: 1854 bp

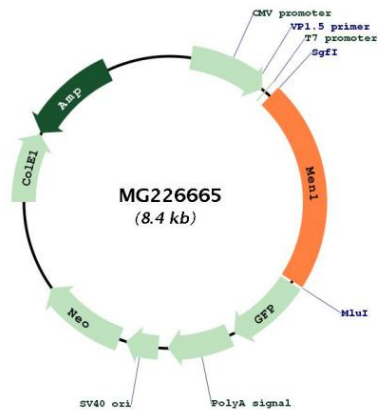
Locus ID: 17283

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 MG226665