

Product datasheet for **MG208819**

Men1 (BC036287) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Men1 (BC036287) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Men1
Synonyms:	menin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG208819 representing BC036287
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCTCTGCGCTCTATCGACGACGTGGTGGCCCTGTTT
 CTGCAGAGCTGGCCGAGAGGAGCTGACTGGTCTCCTGTCTTGGTCTGGGCTTCGTGGAGCATT
 CCTGGCTGTCAACCGTGTCAATCCCAACAGTCCGGAGCTCACCTTCCAGCCAGCCCGCACCCGAC
 CCTCTGGTGGCCTCACCTACTTCCCGGTGGCCGACCTATCCATCATTGCTGCCCTCTATGCCCGATTCA
 CCGCTCAGATCCGCGGCTGTGGACCTCTCCCTCTATCCTCGAGAGGGAGGTGTTTCTAGTCGCGAACT
 GGTAAAAAAGGTCTCGGATGTATATGGAACAGCCTCAGCCGCTCCTACTTCAAGGACCGGGCCACATC
 CAGTCCCTCTCAGCTTATCACAGGCACCAACTGGACAGCTCGGGCGTGGCCTTTCAGTGGTAGGGG
 CCTGCCAGGCTCTGGGTCTCAGAGATGTCCATCTGGCCCTGTCTGAAGATCATGCTTGGGTGGTGGT
 GCCAACGGGAGCAGACAGCTGAGGTGACGTGGCAGCGCAAGGCAACGAGGACCGCAGAGCCAGACA
 GTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAGGGTCTGTACATGCCGTGGCACCCTAAGA
 TGGAGGTGGCGTTTATGGTGTGTGCCATCAACCCTTCCATCGATCTTCACTGACTCTTTGAACTGTT
 GCAACTACAGCAGAAGCTGCTCTGGCTGTGTATGACCTCGGACATCTGGAAAGATACCCCATGGCGCTA
 GGGAACTTGGCAGACCTGGAGGAGCTGGAGCCTACCCCGGGCCGCGCCAGACCCACTACCCCTTTATCACA
 AGGGAATTGCCTCAGCTAAGACCTACTACCAGGATGAACACATCTACCCCTACATGTACCTGGCTGGCTA
 CCACTGTGCAACCGAAATGTGCGCAAGCCCTGCAGGCTGGGCGGACACTGCCACTGTTATCCAAGAC
 TACAACACTGCCGGGAGGATGAGGAGATCTACAAGGAATCTTTGAAGTGGCAATGACGTATCCCCA
 ACCTGCTGAAGGAGGCGCCAGCCTGCTAGAAACAGGCGAAGAGCGGACTGGGGAGCAAGCCAGTGCG
 GCAGAAGGTGCACATAGTTAGCCGGGAAGCAGAGGCGGCGGAGGCTGAAGAACCATGGGGGATGAAGCC
 CGAGAAGGCCGTGCGGCTGGTCCCGAAGAGAGTCCAAGCCTGAGGAGCCACCACCACCAAGAAGCCTG
 CATTGGACAAGGGCCCGGCTCAGGACAAAGTGCAGGGTTGGGACCCTAGGAAAACGTCAGGGACTGT
 CCCAGGTAACCCGCGGTGGCCAGGAAGTCCGCAATGCTGCTCAGGCTCCAGCACCTGCAGCATCGCCA
 CCCCCAGAGGGCCAGTCTACTTTCCAGAGTGAAGAAGTGAAGGCATGAAGGAGCTACTGGTGGCCA
 CCAAGATCAACTCGAGCGCCATCAAGCTGCAACTCACGGCACAGTCGCAAGTGCAGATGAAGAAACAGAA
 AGTGTCCACACCCAGCGACTACACTCTCTTTCTAAAGCGGCAGCGCAAGGCCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208819 representing BC036287
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDVVRLFAAELGREEPDLVLLSLVLFVVEHFLAVNRVIPTNPVELTFQPSAPD
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGVSSRELVKKVSVDVIWNSLSRSYFKDRAHI
 QSLFSFITGKLDSSGVAFVVGACQALGLRDVHLALSEDHAWVVF GPNGEQTA EVTWHGKGNEDRRGQT
 VNAGVAERSWLYLKGSYMRCDRMEVAFMVCAINPSIDLHTDSLELLQLQKLLWLLYDLGHLERYPMAL
 GNLADLELEPTPGRPDPLTYHKGIASAKTYQDEHIYPMYLAGYHCRNRNVREALQAWADTATVIQD
 YNYCREDEEIIYKEFFEYVANDVIPNLLKEAASLLETGEERTGEQAQVRQKVHIVSREAEAAEAEPPWGDEA
 REGRRRGPRRESKPEEPPPKPALDKPGSGQSAGLGPPRKTSGTVPGTTRGGQEVGNAAPAPASP
 PPEGPVLTFQSEKMKGMKELLVATKINSSAIKLQLTAQSQVQMKKQKVSTPVDYTL SFLKRQRKGL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC036287

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: [BC036287](#), [AAH36287](#)

RefSeq Size: 2782 bp

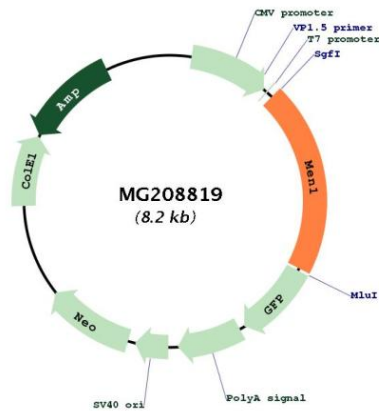
RefSeq ORF: 1670 bp

Locus ID: 17283

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 MG208819