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Product datasheet for MR226666

Men1 (NM_008583) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Men1 (NM_008583) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Men1
Synonyms:	AW045611
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>MR226666 representing NM_008583
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCTGAAGGCCGCCCAGAAGACGCTGTTCCCTCTGCGCTCTATCGACGACGTGGTGCGCCTGTTTG
CTGCAGAGCTGGGCCGAGAGGAGCCTGACCTGGTGCTCCTGTCCTTGGTCCTGGGCTTCGTGGAGCATTT
CCTGGCTGTCAACCGTGTCATCCCCACCAACGTGCCGGAGCTCACCTTCCAGCCCAGCCCCGCACCCGAC
CCTCCTGGTGGCCTCACCTACTTCCCGGTGGCCGACCTATCCATCATTGCTGCCCTCTATGCCCGATTCA
CCGCTCAGATCCGCGGCGCTGTGGACCTCTCCCTCTATCCTCGAGAGGGAGGTGTTTCTAGTCGCGAACT
GGTAAAAAAGGTCTCGGATGTCATATGGAACAGCCTCAGCCGCTCCTACTTCAAGGACCGGGCCCACATC
CAGTCCCTCTTCAGCTTCATCACAGGCACCAAACTGGACAGCTCGGGCGTGGCCTTTGCAGTGGTAGGGG
CCTGCCAGGCTCTGGGTCTCAGAGATGTCCATCTGGCCCTGTCTGAAGATCATGCTTGGGTGGTGTTTGG
GCCCAACGGGGAGCAGACAGCTGAGGTGACGTGGCACGGCAAAGGCAACGAGGACCGCAGAGGCCAGACA
GTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAGGGGTCGTACATGCGCTGCGACCGTAAGA
TGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTTCCATCGATCTTCACACTGACTCTTTGGAACTGTT
GCAACTACAGCAGAAGCTGCTCTGGCTGCTGTATGACCTCGGACATCTGGAAAGATACCCCATGGCGCTA
GGGAACTTGGCAGACCTGGAGGAGCTGGAGCCTACCCCGGGCCGGCCAGACCCACTCACCCTTTATCACA
AGGGAATTGCCTCAGCTAAGACCTACTACCAGGATGAACACATCTACCCCTACATGTACCTGGCTGGCTA
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ACCTGCTGAAGGAGGCGGCCAGCCTGCTAGAAACAGGCGAAGAGCGGACTGGGGAGCAAGCCCAGGGCAC
CCAGGGCCAAGGTTCTGCTCTCCAGGACCCAGAATGCTTTGCCCACCTGCTGCGATTTTATGATGGCATC
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TGAAGAACCATGGGGGGATGAAGCCCGAGAAGGCCGTCGGCGTGGTCCCCGAAGAGAGTCCAAGCCTGAG
GAGCCACCACCACCCAAGAAGCCTGCATTGGACAAGGGCCCGGGCTCAGGACAAAGTGCAGGGTCGGGAC
CACCTAGGAAAACGTCAGGGACTGTCCCAGGTACTACCCGCGGTGGCCAGGAAGTCGGCAATGCTGCTCA
GGCTCCAGCACCTGCAGCATCGCCACCCCCAGAGGGCCCAGTGCTCACTTTCCAGAGTGAGAAGATGAAA
GGCATGAAGGAGCTACTGGTGGCCACCAAGATCAACTCGAGCGCCATCAAGCTGCAACTCACGGCACAGT
CGCAAGTGCAGATGAAGAAACAGAAAGTGTCCACACCCAGCGACTACACACTCTCTTTCCTAAAGCGGCA
GCGCAAGGGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

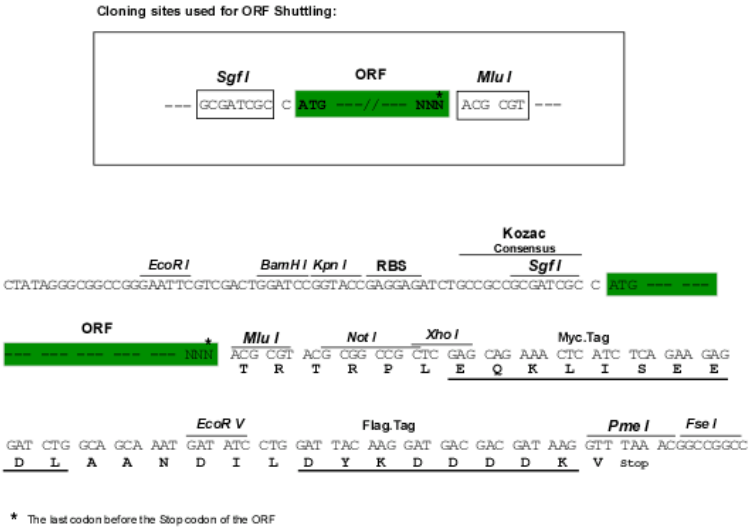
>MR226666 representing NM_008583
Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDDVVRLFAAELGREEPDLVLLSLVLGFVEHFLAVNRVIPTNVPELTFQPSPAPD
PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGGVSSRELVKKVSDVIWNSLSRSYFKDRAHI
QSLFSFITGTKLDSSGVAFAVVGACQALGLRDVHLALSEDHAWVVFGPNGEQTAEVTWHGKGNEDRRGQT
VNAGVAERSWLYLKGSYMRCDRKMEVAFMVCAINPSIDLHTDSLELLQLQQKLLWLLYDLGHLERYPMAL
GNLADLEELEPTPGRPDPLTLYHKGIASAKTYYQDEHIYPYMYLAGYHCRNRNVREALQAWADTATVIQD
YNYCREDEEIYKEFFEVANDVIPNLLKEAASLLETGEERTGEQAQGTQGQGSALQDPECFAHLLRFYDGI
CKWEEGSPTPVLHVGWATFLVQSLGRFEGQVRQKVHIVSREAEAAEAEEPWGDEAREGRRRGPRRESKPE
EPPPPKKPALDKGPGSGQSAGSGPPRKTSGTVPGTTRGGQEVGNAAQAPAPAASPPPEGPVLTFQSEKMK
GMKELLVATKINSSAIKLQLTAQSQVQMKKQKVSTPSDYTLSFLKRQRKGL

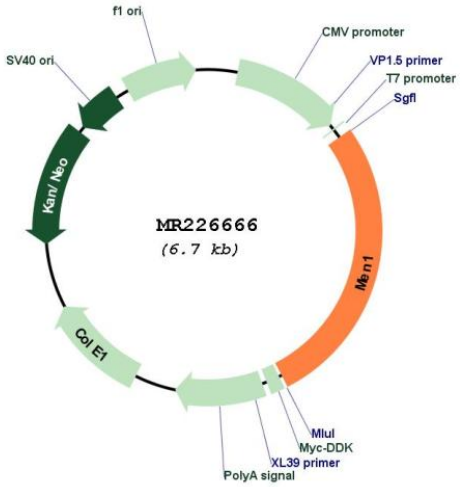
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008583

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_008583.2, NP_032609.1
RefSeq Size:	2980 bp
RefSeq ORF:	1836 bp
Locus ID:	17283
UniProt ID:	O88559
Cytogenetics:	19 A
MW:	68 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]