

Product datasheet for **RC222629**

Menin (MEN1) (NM_000244) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Menin (MEN1) (NM_000244) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MEN1
Synonyms:	MEAI; SCG2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC222629 representing NM_000244
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGGCCCTGTTTG
 CTGCCGAGCTGGGCCGAGAGGAGCCGACTGGTCTCCTTTCTTGGTCTGGGCTTCGTGGAGCATTT
 TCTGGCTGTCAACCGCGTCATCCCTACCAACGTTCCCGAGCTCACCTTCCAGCCCAGCCCCGCCCGAC
 CCGCTGGCGGCCTCACCTACTTTCCCGTGGCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGTTCA
 CCGCCAGATCCGAGGCGCGTGCACCTGTCCCTCTATCCTCGAGAAGGGGTGTCTCCAGCCGTGAGCT
 GGTGAAGAAGGTCTCCGATGTATATGGAACAGCCTCAGCCGCTCCTACTTCAAGGATCGGGCCACATC
 CAGTCCCTCTCAGCTTATCACAGTTGGAGCCAGTAGGCACCAAATTGGACAGCTCCGGTGTGGCT
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Protein Sequence:

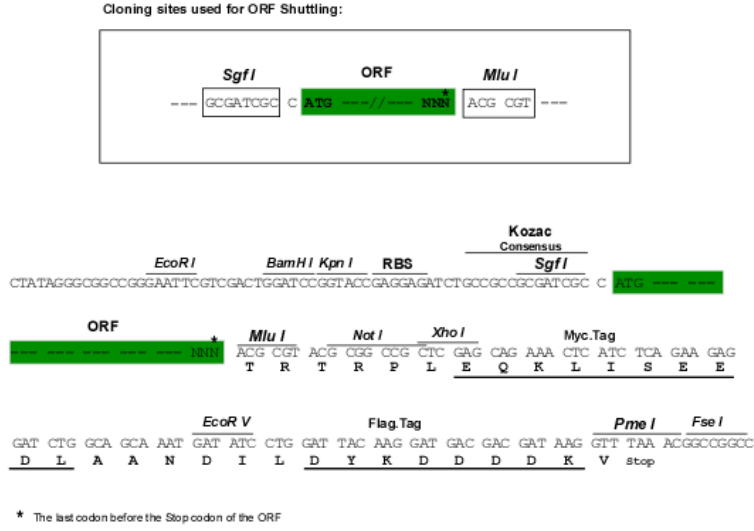
>RC222629 representing NM_000244
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDVVRLF AELGREPDLVLLSLVLFVVEHFLAVNRVIPTNPVELTFQSPAPD
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGVSSREL VKKVSDVIWNSLSRSYFKDRAHI
 QSLFSFITGWSPVGTKLDSSGVAFVVGACQALGLRDVHLAL SEDHAWVVF GPNGEQTA EVTWHGKGNED
 RRGQTVNAGVAERSWLYLKGSYMRCRMEVAFMVCAINPSIDLHTDSLELLQLQKLLWLLYDLGHLER
 YPMALGNLADLELEPTPRPDPLTYHKGIASAKTYRDEHIYPMYLAGYHCRNRNVREALQAWADTA
 TVIQDYNCREDEEIIYKEFFE VANDVIPNLLKEAASLLEAGEERPGEQSQTQSQSALQDPECF AHL LR
 FYDGICKWEEGSPVPLHVGWATFLVQSLGRFEGQVRQKVRIVSREAEAAEAEPEWGEAREGRRRGPRR
 ESKPEEPPPKPALDKGLGTGQAVSGPPRPPGTVAGTARGPEGGSTAQVPAPAASPPPEGPVLFQS
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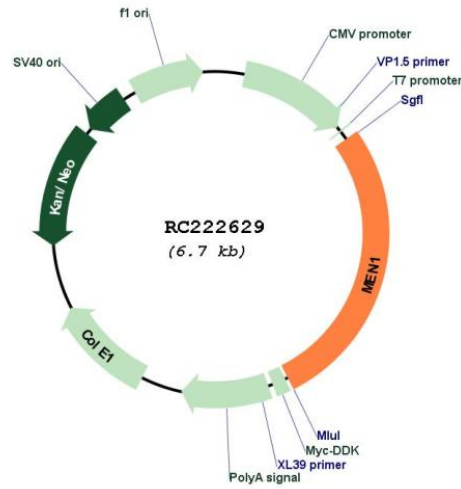
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_000244

ORF Size: 1845 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:	<ol style="list-style-type: none">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_000244.3 , NP_000235.2
RefSeq Size:	2785 bp
RefSeq ORF:	1848 bp
Locus ID:	4221
UniProt ID:	O00255
Cytogenetics:	11q13.1
Protein Families:	Druggable Genome, Transcription Factors
MW:	68 kDa
Gene Summary:	This gene encodes menin, a tumor suppressor associated with a syndrome known as multiple endocrine neoplasia type 1. Menin is a scaffold protein that functions in histone modification and epigenetic gene regulation. It is thought to regulate several pathways and processes by altering chromatin structure through the modification of histones. [provided by RefSeq, May 2019]