

## Product datasheet for **RC403672**

### Menin (MEN1) (NM\_130799) Human Mutant ORF Clone

#### Product data:

Product Type:	Mutant ORF Clones
Product Name:	Menin (MEN1) (NM_130799) Human Mutant ORF Clone
Mutation Description:	E358X
Affected Codon#:	358
Affected NT#:	1072
Nucleotide Mutation:	MEN1 Mutant (E358X), Myc-DDK-tagged ORF clone of Homo sapiens multiple endocrine neoplasia I (MEN1), transcript variant 2 as transfection-ready DNA
Effect:	Multiple endocrine neoplasia 1
Symbol:	Menin
Synonyms:	MEAI; SCG2
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_130799
ORF Size:	1071 bp
Restriction Sites:	Sgfi-MluI



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**ORF Nucleotide Sequence:**

>RC403672 representing NM\_130799  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGCCTGTTTG  
 CTGCCGAGCTGGGCCGAGAGGAGCCGGACCTGGTGTCTCTTCCCTGGTGTGGCTTCGTGGAGCATTT  
 TCTGGCTGTCAACCGCTCATCCCTACCAACGTTCCCGAGCTCACCTTCCAGCCCAGCCCCGCCCGAC  
 CCGCTGGCGGCTCACCTACTTCCCGTGGCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGTTCA  
 CCGCCAGATCCGAGGCGCGTGCACCTGTCCCTCTATCTCGAGAAGGGGTGTCTCCAGCCGTGAGCT  
 GGTGAAGAAGGTCTCCGATGTATGGAACAGCCTCAGCCGCTCTACTTCAAGGATCGGGCCACATC  
 CAGTCCCTTTCAGTTCATCACAGGCACCAAATTGGACAGCTCCGGTGTGGCCTTTGCTGTGGTTGGG  
 CCTGCCAGGCCCTGGGTCTCCGGATGTCCACCTGCCTGTCTGAGGATCATGCCTGGGTAGTGTGGG  
 GCCCAATGGGGAGCAGACAGCTGAGGTACCTGGCACGGCAAGGCAACGAGGACCGCAGGGCCAGACA  
 GTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAAGGATCATACATGCGCTGTGACCCGAAGA  
 TGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTCCATTGACCTGCACACCGACTCGCTGGAGCTTCT  
 GCAGCTGCAGCAGAAGCTGCTCTGGTGTCTATGACCTGGGACATCTGGAAAGGTACCCCATGGCCTTA  
 GGGAACTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGCCGGCCAGCCCACTCACCTCTACCACA  
 AGGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACACATCTACCCCTACATGTACCTGGCTGGTA  
 CCACTGTGCAACCGCAATGTGCGGGAAGCCCTGCAGGCTGGCGGACACGGCCACTGTATCCAGGAC  
 TACAACACTGCCGGGAAGAC

AG**GCGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

**Protein Sequence:**

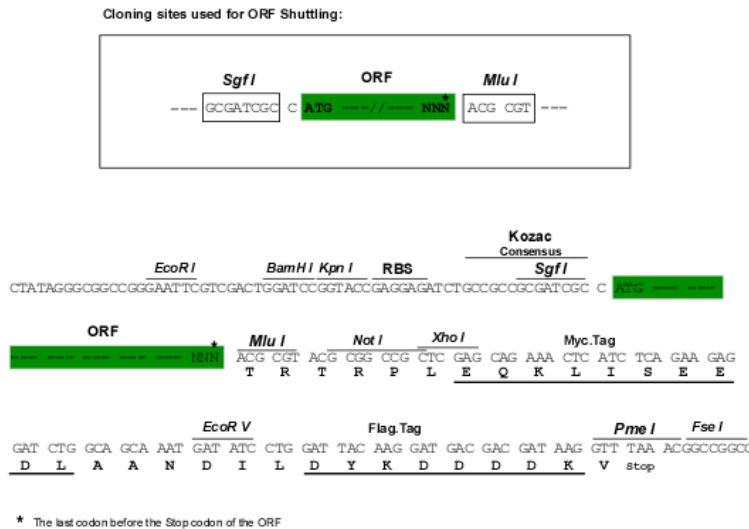
>RC403672 representing NM\_130799  
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDDVVRLFAAELGREPDLVLLSLVLFVEHFLAVNRVIPTNVPELTFQPSAPD  
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGVSSRELVKKVSVDVIWNSLSRSYFKDRAHI  
 QSLFSFITGKLDSSGVAFVVGACQALGLRDVHLALSEDHAWVVFPGNGEQTA EVTWHGKGNEDRRGQT  
 VNAGVAERSWL YLKGSYMRCDRMEVAFMVCAINPSIDLHTDSLELLQLQKLLWLLYDLGHLERYPMAL  
 GNLADLELEPTPGRPDPLTYHKGIASAKTYRDEHIYPYMYLAGYHCRNRNVREALQAWADTATVIQD  
 YNYCRED

SGP**TRRRLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**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).

**Note:**

Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:**

[NP\\_570711](#)

**RefSeq Size:**

1071 bp

**RefSeq ORF:**

1833 bp

**Locus ID:**

4221

**Cytogenetics:**

11q13.1

**Domains:**

Menin

**Protein Families:**

Druggable Genome, Transcription Factors

**MW:**

39.3 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]