

## Product datasheet for **RC403698**

### 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:	Y417X
Affected Codon#:	417
Affected NT#:	1251
Nucleotide Mutation:	MEN1 Mutant (Y417X), 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:	MEN1
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:	1248 bp
Restriction Sites:	Sgfi-MluI



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**ORF Nucleotide Sequence:**

>RC403698 representing NM\_130799  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGCGCCCTGTTG  
 CTGCCGAGCTGGGCCGAGAGGAGCCGGACCTGGTGCTCCTTTCCCTGGTGCTGGCTTCGTGGAGCATTT  
 TCTGGCTGTCAACCGCGTCATCCCTACCAACGTTCCCGAGCTCACCTTCCAGCCCAGCCCCGCCCCGAC  
 CCGCTGGCGGCCTCACCTACTTTCCCGTGCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGTTCA  
 CCGCCAGATCCGAGGCGCCGTGACCTGTCCCTCTATCCTCGAGAAGGGGGTGTCTCCAGCCGTGAGCT  
 GGTGAAGAAGGTCTCCGATGTATGGAACAGCCTCAGCCGCTCCTACTTCAAGGATCGGGCCACATC  
 CAGTCCCTTTCAGTTCATCACAGGCACCAAATTGGACAGCTCCGGTGTGCCCTTGTGTGGTGGGG  
 CCTGCCAGGCCCTGGGTCTCCGGATGTCCACCTGCCCTGTCTGAGGATCATGCCTGGGTAGTGTGGG  
 GCCCAATGGGGAGCAGACAGCTGAGGTACCTGGCACGGCAAGGCAACGAGGACCGCAGGGGCCAGACA  
 GTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAAGGATCATACATGCCTGTGACCCGAAGA  
 TGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTCCATTGACCTGCACACCGACTCGCTGGAGCTTCT  
 GCAGCTGCAGCAGAAGCTGCTCTGGCTGCTCTATGACCTGGGACATCTGGAAAGGTACCCCATGGCCTTA  
 GGGAACTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGCCGGCCAGACCCACTCACCTCTACCACA  
 AGGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACACATCTACCCCTACATGTACCTGGCTGGCTA  
 CCACTGTCGAACCGCAATGTGCGGGAAGCCCTGCAGGCTGGGCGGACACGGCCACTGTATCCAGGAC  
 TACAATACTGCCGGGAAGACGAGGAGATCTACAAGGAGTTCTTTGAAGTAGCCAATGATGTCATCCCA  
 ACCTGCTGAAGGAGGCAGCCAGCTTGTGGAGCGGGCGAGGAGCGGCCGGGGGAGCAAAGCCAGGGCAC  
 CCAGAGCCAAGGTTCCGCCCTCAGGACCCCTGAGTGCTTCGCCACCTGCTGCGATTTC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

**Protein Sequence:**

>RC403698 representing NM\_130799  
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDDVVRLFAAELGREEPDLVLLSLVLFVEHFLAVNRVIPTNPPELTFQSPAPD  
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGGVSSRELVKKVSVDIWNLSRSYFKDRAHI  
 QSLFSFITGTKLDSSGVAFVVGACQALGLRDVHLALSEDHAWVVFPGNGEQTAEVTWGKGNEDRRGQT  
 VNAGVAERSWL YLKGSYMRCDRMEVAFMVCAINPSIDLHTDSLELLQLQKLLWLLYDLGHLERYPMAL  
 GNLADLEELEPTPRPDPLTL YHKGIASAKTYRDEHIYPYMYLAGYHCRNRNVREALQAWADTATVIQD  
 YNYCREDEEIIYKEFFEVDVNDVIPNLLKEASLLEAGEERPGEQSQGTQSQGSALQDPECF AHL LRF

**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).

**RefSeq:**

[NP\\_570711](#)

**RefSeq Size:**

1248 bp

**RefSeq ORF:**

1833 bp

**Locus ID:**

4221

**Cytogenetics:**

11q13.1

**Domains:**

Menin

**Protein Families:**

Druggable Genome, Transcription Factors

**MW:**

45.8 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]