

## Product datasheet for **RC403678**

### 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:	I372M
Affected Codon#:	372
Affected NT#:	1116
Nucleotide Mutation:	MEN1 Mutant (I372M), 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:	1830 bp
Restriction Sites:	Sgfi-MluI



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**ORF Nucleotide Sequence:**

>RC403678 representing NM\_130799  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGCGCCCTGTTT  
 CTGCCGAGCTGGGCCGAGAGGAGCCGGACCTGGTGTCTCTTCCCTGGTGTGGCTTCGTGGAGCATTT  
 TCTGGCTGTCAACCGCTCATCCCTACCAACGTTCCCGAGCTCACCTTCCAGCCAGCCCCGCCCGAC  
 CCGCTGGCGGCTCACCTACTTCCCGTGCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGTTCA  
 CCGCCAGATCCGAGGCGCGTGCACCTGTCCCTCTATCTCGAGAAGGGGTGTCTCCAGCCGTGAGCT  
 GGTGAAGAAGTCTCCGATGTATGGAACAGCCTCAGCCGCTCTACTTCAAGGATCGGGCCACATC  
 CAGTCCCTTTCAGTTCATCACAGGCACAAATTGGACAGCTCCGGTGTGCCCTTGTGTGGTGGGG  
 CCTGCCAGGCCCTGGGTCTCCGGATGTCCACCTCGCCCTGTCTGAGGATCATGCCTGGGTAGTGTGG  
 GCCAATGGGGAGCAGACAGCTGAGGTACCTGGCACGGCAAGGCAACGAGGACCGAGGGCCAGACA  
 GTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAAGGATCATACATGCCTGTGACCGCAAGA  
 TGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTCCATTGACCTGCACACCGACTCGCTGGAGCTTCT  
 GCAGCTGCAGCAGAAGCTGCTCTGGTCTCTATGACCTGGGACATCTGGAAAGGTACCCCATGGCCTTA  
 GGGAACTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGCCGGCCAGACCCACTCACCTCTACCACA  
 AGGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACATCTACCCCTACATGTACCTGGCTGGCTA  
 CCACTGTGCAACCGCAATGTGCGGGAAGCCCTGCAGGCTGGCGGACACGGCCACTGTATCCAGGAC  
 TACAACCTACTGCCGGGAAGACGAGGAGATCTACAAGGAGTTCTTTGAAGTAGCCAATGATGTCATGCCA  
 ACCTGCTGAAGGAGGCAGCCAGCTTGTGGAGCGGGCAGGAGCGGCCGGGGGAGCAAGCCAGGCGC  
 CCAGAGCCAAGGTTCCGCCCTCCAGGACCTGAGTGTCTCGCCACCTGCTGCGATTCTACGACGGCATC  
 TGCAAATGGGAGGAGGGCAGTCCACGCTGTGCTGCACGTGGGCTGGGCCACCTTTCTGTGCAGTCCC  
 TAGGCCGTTTTGAGGGACAGGTGCGGCAGAAGGTGCGCATAGTGAAGGAGGCGGAGGCGGCCGAGGC  
 CGAGGAGCCGTGGGGCAGGAAGCCCGGAAGGCCGGCGGGGCCACGGCGGAGTCCAAGCCAGAG  
 GAGCCCCGCCGCCAAGAAGCCAGCACTGGACAAGGGCTGGCACCGCCAGGGTGCAGTGTGAGGAC  
 CCCCCGAAGCCTCTGGACTGTGCTGGCACAGCCCGAGGCCCTGAAGGTGGCAGCACGGCTCAGGT  
 GCCAGCACCCGACATCACACCGCCGAGGGTCCAGTGTCTACTTTCCAGAGTGAAGAATGAAGGGC  
 ATGAAGGAGCTGTGGTGGCCACCAAGATCAACTCGAGGCCATCAAGCTGCAACTCACGGCACAGTCCG  
 AAGTGCAGATGAAGAAGCAGAAAGTGTCCACCCTAGTACTACTCTGTCTTCTCAAGCGGACGC  
 CAAAGGCCTC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

**Protein Sequence:**

>RC403678 representing NM\_130799  
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDVVRLF AAELGREPDLVLLSLVLFVGFVEHFLAVNRVIPTNVPETFQPSAPD  
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGGVSSREL VKKVSDVIWNSLSRSYFKDRAHI  
 QSLFSFITGKLDSSGVAVFVVGACQALGLRDVHLAL SEDHAWVVFVGPNGEQTA EVTWHGKGNEDRRGQT  
 VNAGVAERSWL YLKGSYMRCDRKMVAFMVCAINPSIDLHTDSELLQLQKLLWLL YDLGHLERYPMAL  
 GNLADLEEL EPTPGRPDPL TL YHKGIASAKTYRDEHIYPYMYLAGYHCRNRNVREALQAWADTATVIQD  
 YNYCREDEE IYKEFFE VANDVMPNLLKEAASLLEAGEERPGEQSQGTQSQGSALQDPECF AHLLRFYDGI  
 CKWEEGSPTPVLHVGWATFLVQSLGRFEGQVRQKVRIVSREAEAEAEPEPWGEEAREGRRRPRRESKPE  
 EPPPPKPALDKLGTGQGAVSGPPRPPGTVAGTARGPEGGSTAQVPAPAASPPPEGPVLTQSEKMKG  
 MKELLVATKINSSAIKQLTAQSQVQMKKQKVSTPSDYTL SFLKRQRKGL

SGP**TRRRLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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:

1830 bp

RefSeq ORF:

1833 bp

Locus ID:

4221

**Cytogenetics:** 11q13.1

**Domains:** Menin

**Protein Families:** Druggable Genome, Transcription Factors

**MW:** 67.1 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]