

## Product datasheet for **RC403511**

### 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:	L22R
Affected Codon#:	22
Affected NT#:	65
Nucleotide Mutation:	MEN1 Mutant (L22R), 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:	Sgfl-MluI



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**ORF Nucleotide Sequence:**

>RC403511 representing NM\_130799  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGCGCCGTTTGC  
 CTGCCGAGCTGGGCCGAGAGGAGCCGGACCTGGTGTCTCTTCCCTGGTGTGGCTTCGTGGAGCATTT  
 TCTGGCTGTCAACCGCTCATCCCTACCAACGTTCCCGAGCTCACCTTCCAGCCAGCCCCGCCCCGAC  
 CCGCTGGCGGCCTCACCTACTTCCCGTGGCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGTTCA  
 CCGCCAGATCCGAGGCGCGTGCACCTGTCCCTCTATCTCGAGAAGGGGGTCTCCAGCCGTGAGCT  
 GGTGAAGAAGTCTCCGATGTCATATGGAACAGCCTCAGCCGCTCTACTTCAAGGATCGGGCCACATC  
 CAGTCCCTTTCAGTTCATCACAGGCACCAAATTGGACAGCTCCGGTGTGGCCTTTGCTGTGGTTGGG  
 CCTGCCAGGCCCTGGGTCTCCGGATGTCCACCTCGCCCTGTCTGAGGATCATGCCTGGGTAGTGTGG  
 GCCAATGGGGAGCAGACAGCTGAGGTACCTGGCACGGCAAGGCAACGAGGACCGAGGGCCAGACA  
 GTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAAGGATCATACATGCCTGTGACCCGAAGA  
 TGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTCCATTGACCTGCACACCGACTCGCTGGAGCTTCT  
 GCAGCTGCAGCAGAAGCTGCTCTGGTGTCTATGACCTGGGACATCTGGAAAGGTACCCCATGGCCTTA  
 GGGAACTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGCCGGCCAGACCCACTCACCTCTACCACA  
 AGGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACACATCTACCCCTACATGTACCTGGCTGGTA  
 CCACTGTGCAACCGCAATGTGCGGGAAGCCCTGCAGGCCTGGGCGGACACGGCCACTGTATCCAGGAC  
 TACAACCTACTGCCGGGAAGACGAGGAGATCTACAAGGAGTTCTTTGAAGTAGCCAATGATGTCATCCCA  
 ACCTGCTGAAGGAGGCAGCCAGCTTGTGGAGCGGGCGAGGAGCGGCCGGGGGAGCAAGCCAGGCAC  
 CCAGAGCCAAGGTTCCGCCCTCCAGGACCTGAGTGTCTCGCCACCTGCTGCGATTCTACGACGGCATC  
 TGCAAATGGGAGGAGGGCAGTCCACGCCTGTGCTGCACGTGGGCTGGGCCACCTTTCTGTGCAGTCCC  
 TAGGCCGTTTTGAGGGACAGGTGCGGCAGAAGGTGCGCATAGTGAAGGAGGCGGAGGCGGCCGAGGC  
 CGAGGAGCCGTGGGGCGAGGAAGCCCGGAAGGCCGGCGGGGCCACGGCGGGAGTCCAAGCCAGAG  
 GAGCCCCCGCCCAAGAAGCCAGCACTGGACAAGGGCTGGGCACCGCCAGGGTGCAGTGTGAGGAC  
 CCCCCCGAAGCCTCTGGGACTGTGCTGGCACAGCCCGAGGCCCTGAAGGTGGCAGCACGGCTCAGGT  
 GCCAGCACCCGACATCACACCGCCGAGGGTCCAGTGTCTACTTTCCAGAGTGAGAAGTGAAGGGC  
 ATGAAGGAGCTGCTGGTGGCCACCAAGATCAACTCGAGGCCATCAAGCTGCAACTCACGGCACAGTCCG  
 AAGTGCAGATGAAGAAGCAGAAAGTGTCCACCCTAGTACTACTCTGTCTTCTCAAGCGGCAGCG  
 CAAAGGCCTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

**Protein Sequence:**

>RC403511 representing NM\_130799  
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDVVRRFAAELGREPDLVLLSLVLFVGFVEHFLAVNRVIPTNVPETFQPSAPD  
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGGVSSRELVKKVSVDVIWNSLSRSYFKDRAHI  
 QSLFSFITGKLDSSGVAVFVVGACQALGLRDVHLALSEDHAWVVFVGPNGEQTAEVTWHGKGNEDRRGQT  
 VNAGVAERSWL YLKGSYMRCDRKMEVAFMVCAINPSIDLHTDSELELLQLQKLLWLLYDLGHLERYPMAL  
 GNLADLEELPTPGRPDPLTYHKGIAAKTYRDEHIYPYMYLAGYHCRNRNVREALQAWADTATVIQD  
 YNYCREDEEIIYKEFFEYANDVIPNLLKEAASLLEAGEERPGEQSQGTQSQGSALQDPECF AHLLRFYDGI  
 CKWEEGSPVPLHVGWATFLVQSLGRFEGQVRQKVRIVSREAEAAEAEPEWGEAREGRRRPRRESKPE  
 EPPPPKPALDKLGTGQAVSGPPRPPGTVAGTARGPEGGSAQVPAPAAAPPPEGPVLTQSEKMKG  
 MKELLVATKINSSAIKLQLTAQSQVQMKKQKVSTPSDYTL 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

<b>Cytogenetics:</b>	11q13.1
<b>Domains:</b>	Menin
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>MW:</b>	67.1 kDa
<b>Gene Summary:</b>	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]