

## Product datasheet for **RC403714**

### 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:	L444P
Affected Codon#:	444
Affected NT#:	1331
Nucleotide Mutation:	MEN1 Mutant (L444P), 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:	1830 bp
Restriction Sites:	Sgfi-MluI



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**ORF Nucleotide Sequence:**

>RC403714 representing NM\_130799  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGCGCCCTGTTTG  
 CTGCCGAGCTGGGCCGAGAGGAGCCGGACCTGGTGCTCCTTTCCCTGGTCTGGCTTCGTGGAGCATTT  
 TCTGGCTGTCAACCGCTCATCCCTACCAACGTTCCCGAGCTCACCTTCCAGCCAGCCCCGCCCCGAC  
 CCGCTGGCGGCTCACCTACTTTCCCGTGCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGTTCA  
 CCGCCAGATCCGAGGCGCGTGCACCTGTCCCTCTATCCTCGAGAAGGGGTGTCTCCAGCCGTGAGCT  
 GGTGAAGAAGTCTCCGATGTCATATGGAACAGCCTCAGCCGCTCCTACTTCAAGGATCGGGCCACATC  
 CAGTCCCTTTCAGTTCATCACAGGCACCAAATTGGACAGCTCCGGTGTGCCCTTGTGTGGTTGGG  
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 GCCAATGGGGAGCAGACAGCTGAGGTACCTGGCACGGCAAGGCAACGAGGACCGAGGGCCAGACA  
 GTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAAGGATCATACATGCCTGTGACCCGAAGA  
 TGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTCCATTGACCTGCACACCGACTCGCTGGAGCTTCT  
 GCAGCTGCAGCAGAAGCTGCTCTGGTCTCTATGACCTGGGACATCTGGAAAGGTACCCCATGGCCTTA  
 GGGAACTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGCCGGCCAGACCCACTCACCTCTACCACA  
 AGGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACATCTACCCCTACATGTACCTGGCTGGCTA  
 CCACTGTCGAACCGCAATGTGCGGGAAGCCCTGCAGGCTGGGCGGACACGGCCACTGTATCCAGGAC  
 TACAACCTACTGCCGGGAAGACGAGGAGATCTACAAGGAGTTCTTTGAAGTAGCCAATGATGTCATCCCA  
 ACCTGCTGAAGGAGGACGCCAGCTTGTGGAGCGGGGAGGAGCGGCCGGGGGAGCAAGCCAGGCGC  
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 TGCAAATGGGAGGAGGGCAGTCCACGCTGTGCTGCACGTGGGCTGGGCCACCTTTCTGTGCAGTCCC  
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 CGAGGAGCCGTGGGGCAGGAAGCCCGGAAGGCCGGCGGGGCCACGGCGGGAGTCCAAGCCAGAG  
 GAGCCCCGCCGCCAAGAAGCCAGCACTGGACAAGGGCTGGCACCGGCCAGGGTGCAGTGTGAGGAC  
 CCCCCGAAGCCTCTGGGACTGTGCTGGCACAGCCCGAGGCCCTGAAGGTGGCAGCACGGCTCAGGT  
 GCCAGCACCCGACATCACACCGCCGAGGGTCCAGTGCTCACTTTCCAGAGTGAGAAGTGAAGGGC  
 ATGAAGGAGCTGCTGGTGGCCACCAAGATCAACTCGAGGCCATCAAGCTGCAACTCACGGCACAGTCCG  
 AAGTGCAGATGAAGAAGCAGAAAGTGTCCACCCTAGTACTACTCTGTCTTCTCAAGCGGACGCG  
 CAAAGGCCTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
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**Protein Sequence:**

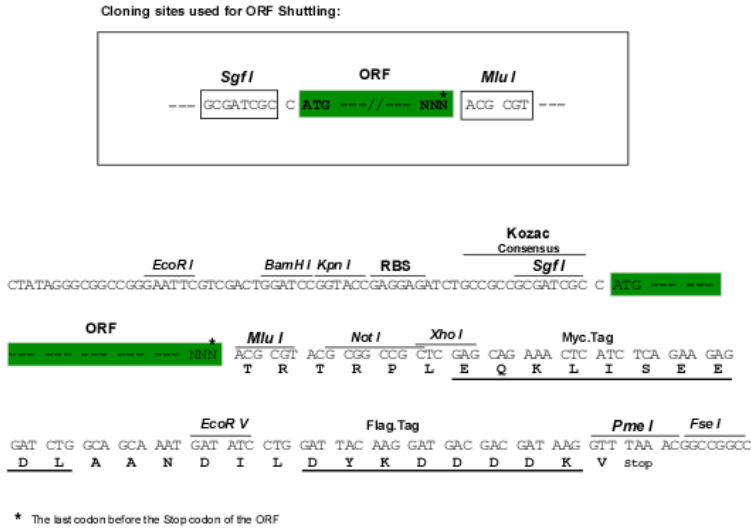
>RC403714 representing NM\_130799  
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDVVRLF AAELGREPDLVLLSLVLFVGFVEHFLAVNRVIPTNVPDLTFQSPAPD  
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGGVSSREL VKKVSDVIWNSLSRSYFKDRAHI  
 QSLFSFITGKLDSSGVAVVAVGACQALGLRDVHLAL SEDHAWVVFVGPNGEQTA EVTWHGKGNEDRRGQT  
 VNAGVAERSWL YLKGSYMRCDRKMVAFMVCAINPSIDLHTDSELLQLQQLLWLL YDLGHLERYPMAL  
 GNLADLEELPTPGRPDPL TL YHKGIASAKTYRDEHIYPYMYLAGYHCRNRNVREALQAWADTATVIQD  
 YNYCREDEEIIYKEFFEYANDVIPNLLKEAASLLEAGEERPGEQSQGTQSQGSALQDPECF AHLLRFYDGI  
 CKWEEGSPVVLHVGWATFLVQSPGRFEGQVRQKVRIVSREAEAEAEPEPWGEEAREGRRRPRRESKPE  
 EPPPPKPALDKLGTGQAVSGPPRPPGTVAGTARGPEGGSTAQVPAPAASPPPEGPVLTQSEKMKG  
 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).

Note:

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

RefSeq:

[NP\\_570711](#)

RefSeq Size:

1830 bp

<b>RefSeq ORF:</b>	1833 bp
<b>Locus ID:</b>	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]