

Product datasheet for **RC403532**

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:	G110E
Affected Codon#:	110
Affected NT#:	329
Nucleotide Mutation:	MEN1 Mutant (G110E), 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:

>RC403532 representing NM_130799
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGCGCCCTGTTT
 CTGCCGAGCTGGGCCGAGAGGAGCCGGACCTGGTGCTCCTTTCCCTGGTCTGGCTTCGTGGAGCATTT
 TCTGGCTGTCAACCGCTCATCCCTACCAACGTTCCCGAGCTCACCTTCCAGCCAGCCCCGCCCGAC
 CCGCTGGCGGCCTCACCTACTTTCCCGTGCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGTTCA
 CCGCCAGATCCGAGGCGCCGTGACCTGTCCCTCTATCCTCGAGAAGAGGGTGTCTCCAGCCGTGAGCT
 GGTGAAGAAGTCTCCGATGTCATATGGAACAGCCTCAGCCGCTCCTACTTCAAGGATCGGGCCACATC
 CAGTCCCTTTCAGTTCATCACAGGCACCAAATTGGACAGCTCCGGTGTGCCCTTTGCTGTGGTTGGG
 CCTGCCAGGCCCTGGGTCTCCGGATGTCCACCTCGCCCTGTCTGAGGATCATGCCTGGGTAGTGTGG
 GCCAATGGGGAGCAGACAGCTGAGGTACCTGGCACGGCAAGGCAACGAGGACCGCAGGGGCCAGACA
 GTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAAGGATCATACATGCCTGTGACCCGAAGA
 TGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTCCATTGACCTGCACACCGACTCGCTGGAGCTTCT
 GCAGCTGCAGCAGAAGCTGCTCTGGTCTCTATGACCTGGGACATCTGGAAAGGTACCCCATGGCCTTA
 GGGAACTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGCCGGCCAGACCCACTCACCTCTACCACA
 AGGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACATCTACCCCTACATGTACCTGGCTGGCTA
 CCACTGTCGAACCGCAATGTGCGGGAAGCCCTGCAGGCTGGGCGGACAGGCCACTGTATCCAGGAC
 TACAACCTACTGCCGGGAAGACGAGGAGATCTACAAGGAGTTCTTTGAAGTAGCCAATGATGTCATCCCA
 ACCTGCTGAAGGAGGCAGCCAGCTTGTGGAGCGGGCAGGAGCGGCCGGGGGAGCAAAGCCAGGCAC
 CCAGAGCCAAGGTTCCGCCCTCCAGGACCTGAGTGCTTCGCCACCTGCTGCGATTCTACGACGGCATC
 TGCAAATGGGAGGAGGGCAGTCCACGCCTGTGCTGCACGTGGGCTGGGCCACCTTTCTGTGCAGTCCC
 TAGGCCGTTTTGAGGGACAGGTGCGGCAGAAGGTGCGCATAGTGAGCCGAGAGGCCGAGGCGGCCGAGGC
 CGAGGAGCCGTGGGGCAGGAAGCCCGGAAGGCCGGCGGGGCCACGGCGGGAGTCCAAGCCAGAG
 GAGCCCCCGCCCAAGAAGCCAGCACTGGACAAGGGCTGGGCACCGCCAGGGTGCAGTGTGAGGAC
 CCCCCGAAGCCTCTGGGACTGTGCTGGCACAGCCCGAGGCCCTGAAGGTGGCAGCACGGCTCAGGT
 GCCAGCACCCGACATACCACCGCCGAGGGTCCAGTGCTCACTTTCCAGAGTGAGAAGTGAAGGGC
 ATGAAGGAGCTGCTGGTGGCCACCAAGATCAACTCGAGGCCATCAAGCTGCAACTCACGGCACAGTCCG
 AAGTGCAGATGAAGAAGCAGAAAGTGTCCACCCTAGTACTACTCTGTCTTCTCAAGCGGCAGCC
 CAAAGGCCTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

>RC403532 representing NM_130799
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDVVRLF AAELGREPDLVLLSLVLFVGFVEHFLAVNRVIPTNVPETFQSPAPD
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREEGVSSREL VKKVSDVIWNSLSRSYFKDRAHI
 QSLFSFITGTKLDSSGVAVFVVGACQALGLRDVHLAL SEDHAWVVFVGPNGEQTA EVTWHGKGNEDRRGQT
 VNAGVAERSWL YLKGSYMRCDRKMVAFMVCAINPSIDLHTDSELELLQLQKLLWLL YDLGHLERYPMAL
 GNLADLEEL EPTPGRPDPL TL YHKGIASAKTYRDEHIYPYMYLAGYHCRNRNVREALQAWADTATVIQD
 YNYCREDEE IYKEFFE VANDVIPNLLKEAASLLEAGEERPGEQSQGTQSQGSALQDPECF 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).

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

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]