

Product datasheet for **RC403514**

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:	G28A
Affected Codon#:	28
Affected NT#:	83
Nucleotide Mutation:	MEN1 Mutant (G28A), 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:

>RC403514 representing NM_130799
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGCGCCCTGTTT
 CTGCCGAGCTGGCCCGAGAGGAGCCGGACCTGGTGCTCCTTTCCCTGGTCTGGCTTCGTGGAGCATTT
 TCTGGCTGTCAACCGCTCATCCCTACCAACGTTCCCGAGCTCACCTTCCAGCCAGCCCCGCCCGAC
 CCGCTGGCGGCCTCACCTACTTTCCCGTGCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGTTCA
 CCGCCAGATCCGAGGCGCCGTGACCTGTCCCTCTATCCTCGAGAAGGGGTGTCTCCAGCCGTGAGCT
 GGTGAAGAAGTCTCCGATGTCATATGGAACAGCCTCAGCCGCTCCTACTTCAAGGATCGGGCCACATC
 CAGTCCCTTTCAGTTCATCACAGGCACCAAATTGGACAGCTCCGGTGTGCCCTTTGCTGTGGTTGGG
 CCTGCCAGGCCCTGGGTCTCCGGGATGTCCACCTCGCCCTGTCTGAGGATCATGCCTGGGTAGTGTGG
 GCCAATGGGGAGCAGACAGCTGAGGTACCTGGCACGGCAAGGCAACGAGGACCGCAGGGGCCAGACA
 GTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAAGGATCATACATGCCTGTGACCGCAAGA
 TGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTCCATTGACCTGCACACCGACTCGCTGGAGCTTCT
 GCAGCTGCAGCAGAAGCTGCTCTGGTCTCTATGACCTGGGACATCTGGAAAGGTACCCCATGGCCTTA
 GGGAACTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGCCGGCCAGACCCACTCACCTCTACCACA
 AGGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACATCTACCCCTACATGTACCTGGCTGGCTA
 CCACTGTCGAACCGCAATGTGCGGGAAGCCCTGCAGGCTGGGCGGACACGGCCACTGTATCCAGGAC
 TACAACCTACTGCCGGGAAGACGAGGAGATCTACAAGGAGTTCTTTGAAGTAGCCAATGATGTCATCCCA
 ACCTGCTGAAGGAGGCAGCCAGCTTGTGGAGCGGGGAGGAGCGGCCGGGGGAGCAAGCCAGGCGC
 CCAGAGCCAAGGTTCCGCCCTCCAGGACCTGAGTGTTCGCCACCTGCTGCGATTCTACGACGGCATC
 TGCAAATGGGAGGAGGGCAGTCCACGCTGTGCTGCAGTGGGCTGGGCCACCTTTCTGTGCAGTCCC
 TAGGCCGTTTTGAGGGACAGGTGCGGCAGAAGGTGCGCATAGTGAAGGAGGCGGAGGCGGCCGAGGC
 CGAGGAGCCGTGGGGGAGGAAGCCCGGAAGGCCGGCGGGGCCACGGCGGGAGTCCAAGCCAGAG
 GAGCCCCCGCCCAAGAAGCCAGCACTGGACAAGGGCTGGGCACCGCCAGGGTGCAGTGTGAGGAC
 CCCCCCGAAGCCTCTGGGACTGTGCTGGCACAGCCCGAGGCCCTGAAGGTGGCAGCAGCGCTCAGGT
 GCCAGCACCCGACATCACACCGCCGAGGGTCCAGTGTCTACTTTCCAGAGTGAAGAATGAAGGGC
 ATGAAGGAGCTGCTGGTGGCCACCAAGATCAACTCGAGGCCATCAAGCTGCAACTCACGGCACAGTCCG
 AAGTGCAGATGAAGAAGCAGAAAGTGTCCACCCTAGTACTACTCTGTCTTCTCAAGCGGCAGCG
 CAAAGGCCTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

>RC403514 representing NM_130799
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDVVRLF AAEAREEPDLVLLSLVLFVGFVEHFLAVNRVIPTNPVELTFQSPAPD
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGGVSSREL VKKVSDVIWNSLSRSYFKDRAHI
 QSLFSFITGKLDSSGVAVFVVGACQALGLRDVHLAL SEDHAWVVFVGPNGEQTA EVTWHGKGNEDRRGQT
 VNAGVAERSWL YLKGSYMRCDRKMVAFMVCAINPSIDLHTDSELELLQLQKLLWLL YDLGHLERYPMAL
 GNLADLEEL EPTPGRPDPL TL YHKGIASAKTYRDEHI YPYMYLAGYHCRNRNVREALQAWADTATVIQD
 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).

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]