

Product datasheet for **RC403591**

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:	W220L
Affected Codon#:	220
Affected NT#:	659
Nucleotide Mutation:	MEN1 Mutant (W220L), Myc-DDK-tagged ORF clone of Homo sapiens multiple endocrine neoplasia I (MEN1), transcript variant 2 as transfection-ready DNA
Effect:	Hyperparathyroidism
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:

>RC403591 representing NM_130799
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGCGCCCTGTTT
 CTGCCGAGCTGGGCCGAGAGGAGCCGGACCTGGTGCTCCTTTCCCTGGTCTGGCTTCGTGGAGCATTT
 TCTGGCTGTCAACCGCTCATCCCTACCAACGTTCCCGAGCTCACCTTCCAGCCAGCCCGCCCCGAC
 CCGCTGGCGCCTCACCTACTTTCCCGTGCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGTTCA
 CCGCCAGATCCGAGGCGCGTGCACCTGTCCCTCTATCCTCGAGAAGGGGTGTCTCCAGCCGTGAGCT
 GGTGAAGAAGTCTCCGATGTCATATGGAACAGCCTCAGCCGCTCCTACTTCAAGGATCGGGCCACATC
 CAGTCCCTTTCAGTTCATCACAGGCACCAATTGGACAGCTCCGGTGTGCCCTTTGCTGTGGTTGGG
 CCTGCCAGGCCCTGGGTCTCCGGATGTCCACCTCGCCCTGTCTGAGGATCATGCCTGGGTAGTGTGG
 GCCAATGGGGAGCAGACAGCTGAGGTACCTGGCACGGCAAGGCAACGAGGACCGCAGGGGCCAGACA
 GTCAATGCCGGTGTGGCTGAGCGGAGCTTGTGTACCTGAAAGGATCATACATGCCTGTGACCGCAAGA
 TGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTCCATTGACCTGCACACCGACTCGCTGGAGCTTCT
 GCAGCTGCAGCAGAAGCTGCTCTGGTCTCTATGACCTGGGACATCTGGAAAGGTACCCCATGGCCTTA
 GGGAACTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGCCGGCCAGACCCACTCACCTCTACCACA
 AGGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACATCTACCCCTACATGTACCTGGCTGGCTA
 CCACTGTCGAACCGCAATGTGCGGGAAGCCCTGCAGGCTGGGCGGACAGGCCACTGTATCCAGGAC
 TACAACCTACTGCCGGGAAGACGAGGAGATCTACAAGGAGTTCTTTGAAGTAGCCAATGATGTCATCCCA
 ACCTGCTGAAGGAGGACGCCAGCTTGTGGAGCGGGGAGGAGCGGCCGGGGGAGCAAGCCAGGAC
 CCAGAGCCAAGGTTCCGCCCTCCAGGACCTGAGTGCTTCGCCACCTGCTGCGATTCTACGACGGCATC
 TGCAAATGGGAGGAGGGCAGTCCACGCTGTGCTGCAGTGGGCTGGGCCACCTTTCTGTGCAGTCCC
 TAGGCCGTTTTGAGGGACAGGTGCGGCAGAAGGTGCGCATAGTGAAGGAGGCGGAGGCGGCCGAGGC
 CGAGGAGCCGTGGGGGAGGAAGCCCGGAAGGCCGGCGGGGCCACGGCGGGAGTCCAAGCCAGAG
 GAGCCCCCGCCCAAGAAGCCAGCACTGGACAAGGGCTGGCACCGGCCAGGGTGCAGTGTGAGGAC
 CCCCCGAAGCCTCTGGGACTGTGCTGGCACAGCCCGAGGCCCTGAAGGTGGCAGCACGGCTCAGGT
 GCCAGCACCCGACATCACACCGCCGAGGGTCCAGTGTCTACTTTCCAGAGTGAAGAATGAAGGGC
 ATGAAGGAGCTGCTGGTGGCCACCAAGATCAACTCGAGGCCATCAAGCTGCAACTCACGGCACAGTCCG
 AAGTGCAGATGAAGAAGCAGAAAGTGTCCACCCTAGTACTACTCTGTCTTCTCAAGCGGACGC
 CAAAGGCCTC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

>RC403591 representing NM_130799
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDVVRLF AAELGREPDLVLLSLVLFVGFVEHFLAVNRVIPTNVPETFQPSAPD
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGGVSSREL VKKVSDVIWNSLSRSYFKDRAHI
 QSLFSFITGKLDSSGVAVFVVGACQALGLRDVHLAL SEDHAWVVFVGPNGEQTA EVTWHGKGNEDRRGQT
 VNAGVAERSLLYLKGSYMRCDRKMVAFMVCAINPSIDLHTDSLELLQLQKLLWLLYDLGHLERYPMAL
 GNLADLEELPTPGRPDPLTYHKGIASAKTYRDEHIYPYMYLAGYHCRNRNVREALQAWADTATVIQD
 YNYCREDEEIIYKEFFEYANDVIPNLLKEAASLLEAGEERPGEQSQGTQSQGSALQDPECF AHLLRFYDGI
 CKWEEGSPVVLHVGWATFLVQSLGRFEGQVRQKVRIVSREAEAEAEPEWGEEAREGRRRPRPRESKPE
 EPPPKKPALDKLGTGGQAVSGPPRPPGTVAGTARGPEGGSTAQVPAPAASPPPEGPVLTQSEKMKG
 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

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]