

Product datasheet for **RC403658**

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:	W341R
Affected Codon#:	341
Affected NT#:	1021
Nucleotide Mutation:	MEN1 Mutant (W341R), 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:	Sgfl-MluI

[View online »](#)

**ORF Nucleotide
Sequence:**

>RC403658 representing NM_130799
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGCCTGTTTG
 CTGCCGAGCTGGGCCGAGAGGAGCCGGACCTGGTGCTCCTTTCCCTGGTGCTGGGCTTCGTGGAGCATTT
 TCTGGCTGTCAACCGCGTCATCCCTACCAACGTTCCCGAGCTCACCTTCAGCCAGCCCCGCCCGAC
 CCGCTGGCGGCTCACCTACTTTCCCGTGCCGACCTGTCTATCATCGCCGCCCTCTATGCCGCTTCA
 CCGCCAGATCCGAGGCGCGTCGACCTGTCCCTCTATCTCGAGAAGGGGTGTCTCCAGCCGTGAGCT
 GGTGAAGAAGGTCTCCGATGTCATATGGAACAGCCTCAGCCGCTCCTACTTCAAGGATCGGGCCACATC
 CAGTCCCTCTCAGTTCATCACAGGCACCAATTGGACAGCTCCGGTGTGGCCTTTGCTGTGGTTGGG
 CCTGCCAGGCCCTGGGTCTCCGGGATGTCCACCTCGCCTGTCTGAGGATCATGCCTGGGTAGTGTGG
 GCCAATGGGGAGCAGACAGCTGAGGTACCTGGCAGGCAAGGGCAACGAGGACCGCAGGGGCCAGACA
 GTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAAGGATCATACATGCCTGTGACCGCAAGA
 TGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTTCCATTGACCTGCACACCGACTCGTGAGGCTTCT
 GCAGCTGCAGCAGAAGCTGCTCTGGTGCTCTATGACCTGGGACATCTGGAAAGGTACCCCATGGCCTTA
 GGGAACCTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGCCGCCAGACCCACTCACCTCTACCACA
 AGGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACATCTACCCCTACATGTACCTGGCTGGCTA
 CCACTGTCGCAACCGCAATGTGCGGGAAGCCCTGCAGGCCAGGGCGGACACGGCCACTGTATCCAGGAC
 TACAATACTGCCGGAAGACGAGGAGATCTACAAGGAGTTCTTTGAAGTAGCCAATGATGTATCCCCA
 ACCTGCTGAAGGAGGCAGCCAGCTTGTGGAGCGGGCGAGGAGCGGCCGGGGAGCAAGCCAGGGCAC
 CCAGAGCCAAGGTTCCGCCCTCAGGACCCCTGAGTGCTTCGCCACCTGCTGCGATTCTACGACGGCATC
 TGCAAATGGGAGGAGGGCAGTCCACGCCTGTGCTGCAGTGGGCTGGGCCACCTTTCTGTGCAGTCCC
 TAGGCCGTTTTGAGGGACAGGTGCGGCAGAAGGTGCGCATAGTGAGCCGAGAGGCCGAGGCGGCCAGGC
 CGAGGAGCGTGGGGCGAGGAAGCCCGGAAGGCCGCGGCCGGGGCCACGGCGGAGTCCAAGCCAGAG
 GAGCCCCCGCCGCCAAGAAGCCAGCACTGGACAAGGGCTGGGCACCGCCAGGGTGCAGTGTGAGGAC
 CCCCCCGAAGCCTCTGGGACTGTGCTGGCACAGCCGAGGCCCTGAAGGTGGCAGCAGCGCTCAGGT
 GCCAGCACCCGAGCATCACACCGCCGAGGGTCCAGTGCTCACTTTCCAGAGTGAGAAGTGAAGGGC
 ATGAAGGAGCTGCTGGTGCCACCAAGATCAACTCGAGCGCCATCAAGCTGCAACTCACGGCACAGTCGC
 AAGTGAGATGAAGAAGCAGAAAGTGTCCACCCTAGTGACTACACTCTGTCTTCTCAAGCGGCAGCG
 CAAAGGCCTC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

>RC403658 representing NM_130799
 Red=Cloning site Green=Tags(s)

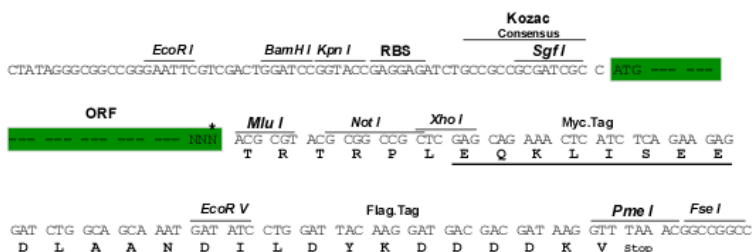
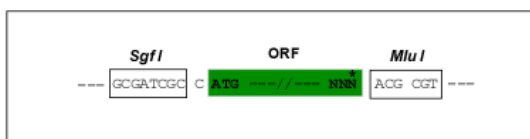
MGLKAAQKTLFPLRSIDVVRFAAELGREPDVLVLSVLGFVEHFLAVNRVIPTNPVPELTFQSPAPD
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGGVSSRELVKKVSVDIWNLSRSYFKDRAHI
 QSLFSFITGKLDSSGVAFVVGACQALGLRDVHLALSEDHAWVVFPGNGEQTAETVWHGKGNEDRRGQT
 VNAGVAERSWL YLKGSYMRCDRKMVAFMVCAINPSIDLHTDSLELLQLQKLLWLLYDLGHLERYPMAL
 GNLADLEELPTPGRPDPLTYHKGIASAKTYRDEHIYPYMLAGYHCRNRNVREALQARADTATVIQD
 YNYCREDEEIIYKEFFEYANDVIPNLLKEAASLLEAGEERPGEQSQGTQSQGSALQDPECFHLLRFYDGI
 CKWEEGSPTPVLHVWATFLVQSLGRFEGQVRQKVRIVSREAEAAEAEPPWGEAREGRRRGPRESKPE
 EPPPPKPPALDKLGTGQGAVSGPPRPPGTVAGTARGPEGGSTAQVPAPAAAPPPEGPVLTQSEKMKG
 MKELLVATKINSSAIKLQTAQSQVQMKQKVSTPSDYTL SFLKRQKGL

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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]