

Product datasheet for **RC403578**

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:	W183R
Affected Codon#:	183
Affected NT#:	547
Nucleotide Mutation:	MEN1 Mutant (W183R), 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:**

>RC403578 representing NM_130799
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGCCTGTTTG
 CTGCCGAGCTGGGCCGAGAGGAGCCGGACCTGGTGCTCCTTTCCCTGGTGCTGGGCTTCGTGGAGCATTT
 TCTGGCTGTCAACCGCGTCATCCCTACCAACGTTCCCGAGCTCACCTTCAGCCAGCCCGCCCCGAC
 CCGCTGGCGGCTCACCTACTTTCCCGTGCCGACCTGTCTATCATCGCCGCCCTCTATGCCGCTTCA
 CCGCCAGATCCGAGGCGCGTCGACCTGTCCCTCTATCTCGAGAAGGGGTGTCTCCAGCCGTGAGCT
 GGTGAAGAAGGTCTCCGATGTCATATGGAACAGCCTCAGCCGCTCCTACTTCAAGGATCGGGCCACATC
 CAGTCCCTCTCAGTTCATCACAGGCACCAATTGGACAGCTCCGGTGTGGCCTTTGCTGTGGTTGGG
 CCTGCCAGGCCCTGGGTCTCCGGGATGTCCACCTCGCCCTGTCTGAGGATCATGCCCGGTAGTGTGG
 GCCAATGGGGAGCAGACAGCTGAGGTACCTGGCAGGCAAGGGCAACGAGGACCGCAGGGGCCAGACA
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 TGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTTCCATTGACCTGCACACCGACTCGCTGGAGCTTCT
 GCAGCTGCAGCAGAAGCTGCTCTGGTGCTCTATGACCTGGGACATCTGGAAAGGTACCCCATGGCCTTA
 GGGAACCTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGCCGCCAGACCCACTCACCTCTACCACA
 AGGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACACATCTACCCCTACATGTACCTGGCTGGCTA
 CCACTGTCGCAACCGCAATGTGCGGGAAGCCCTGCAGGCCTGGCGGACACGGCCACTGTATCCAGGAC
 TACAATACTGCCGGGAAGACGAGGAGATCTACAAGGAGTTCTTTGAAGTAGCCAATGATGTATCCCCA
 ACCTGCTGAAGGAGGAGCCAGCTTGTGGAGCGGGCGAGGAGCGGCCGGGGAGCAAGCCAGGGCAC
 CCAGAGCCAAGGTTCCGCCCTCAGGACCCCTGAGTGCTTCGCCACCTGCTGCGATTCTACGACGGCATC
 TGCAAATGGGAGGAGGCGAGTCCACGCCTGTGCTGCAGTGGGCTGGGCCACCTTTCTGTGCAGTCCC
 TAGGCCGTTTTGAGGGACAGGTGCGGCAGAAGGTGCGCATAGTGAGCCGAGAGGCCGAGGCGGCCAGGC
 CGAGGAGCGTGGGGCGAGGAAGCCCGGAAGGCCGCGGCCGGGGCCACGGCGGAGTCCAAGCCAGAG
 GAGCCCCCGCCCAAGAAGCCAGCACTGGACAAGGGCTGGGCACCGCCAGGGTGCAGTGTGAGGAC
 CCCCCCGAAGCCTCTGGGACTGTGCTGGCACAGCCGAGGCCCTGAAGGTGGCAGCAGCGCTCAGGT
 GCCAGCACCCGAGCATCACACCGCCGAGGGTCCAGTGCTCACTTTCCAGAGTGAGAAGTGAAGGGC
 ATGAAGGAGCTGCTGGTGCCACCAAGATCAACTCGAGCGCCATCAAGCTGCAACTCACGGCACAGTCGC
 AAGTGAGATGAAGAAGCAGAAAGTGTCCACCCTAGTGACTACACTCTGTCTTCTCAAGCGGCAGCG
 CAAAGGCCTC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

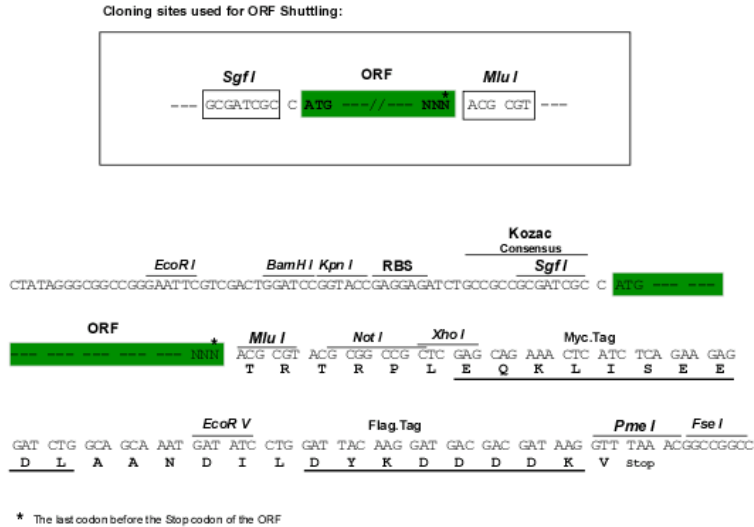
>RC403578 representing NM_130799
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDVVRFAAELGREPDVLLSLVLGFVEHFLAVNRVIPTNPVPELTFQSPAPD
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDSLYPEGGVSSRELVKKVSVDIWNLSRSYFKDRAHI
 QSLFSFITGKLDSSGVAFVVGACQALGLRDVHLALSEDHARVVFPGNGEQTAETVWHGKGNEDRRGQT
 VNAGVAERSWL YLKGSYMRCDRKMVAFMVCAINPSIDLHTDSLELLQLQKLLWLLYDLGHLERYPMAL
 GNLADLEELPTPGRPDPLTYHKGIASAKTYRDEHIYPYMLAGYHCRNRNVREALQAWADTATVIQD
 YNYCREDEEIIYKEFFEYANDVIPNLLKEAASLLEAGEERPGEQSQGTQSQGSALQDPECFALLRFYDGI
 CKWEEGSPTPVLHVGWATFLVQSLGRFEGQVRQKVRIVSREAEAEAEPEWGEEAREGRRRGPRESKPE
 EPPPPKPPALDKLGTGQGAVSGPPRPPGTVAGTARGPEGGSTAQVPAPAAAPPPEGPVLTQSEKMKG
 MKELLVATKINSSAIKLQLTAQSQVQMKQKVSTPSDYTL SFLKRQKGL

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

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]