

Product datasheet for **RC403726**

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:	Q508X
Affected Codon#:	508
Affected NT#:	1522
Nucleotide Mutation:	MEN1 Mutant (Q508X), 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:	1521 bp
Restriction Sites:	Sgfl-Mlul



[View online »](#)

ORF Nucleotide Sequence:

>RC403726 representing NM_130799
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGCGCCCTGTTTG
 CTGCCGAGCTGGGCCGAGAGGAGCCGGACCTGGTCTCCTTTCCCTGGTCTGGGCTTCGTGGAGCATTT
 TCTGGCTGTCAACCGCTCATCCCTACCAACGTTCCCGAGCTCACCTTCCAGCCCAGCCCCGCCCGCCGAC
 CCGCTGGCGGCCTCACCTACTTTCCCGTGGCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGCTTCA
 CCGCCAGATCCGAGGCGCCGTGACCTGTCCCTCTATCCTCGAGAAGGGGGTCTCCAGCCGTGAGCT
 GGTGAAGAAGTCTCCGATGTCATATGGAACAGCCTCAGCCGCTCTACTTCAAGGATCGGGCCACATC
 CAGTCCCTTTCAGTTCATCACAGGCACCAATTGGACAGCTCCGGTGTGCCCTTGTGTGGTTGGGG
 CCTGCCAGGCCCTGGGTCTCCGGATGTCCACCTGCCCTGTCTGAGGATCATGCCTGGGTAGTGTGGG
 GCCAATGGGGAGCAGACAGCTGAGGTACCTGGCACGGCAAGGGCAACGAGGACCGCAGGGGCCAGACA
 GTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAAGGATCATACATGCGCTGTGACCGCAAGA
 TGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTCCATTGACCTGCACACCGACTCGCTGGAGCTTCT
 GCAGCTGCAGCAGAAGCTGCTCTGGTCTCTATGACCTGGGACATCTGGAAAGGTACCCCATGGCCTTA
 GGGAACTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGCCGGCCAGACCCACTCACCTCTACCACA
 AGGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACACATCTACCCCTACATGTACCTGGCTGGTA
 CCACTGTCGAACCGCAATGTGCGGGAAGCCCTGCAGGCCTGGCGGACACGGCCACTGTATCCAGGAC
 TACAACCTGCCGGGAAGACGAGGAGATCTACAAGGAGTCTTTGAAGTAGCCAATGATGTCATCCCCA
 ACCTGCTGAAGGAGGCAGCCAGCTTGTGGAGGCGGGGAGGAGCGGCCGGGGGAGCAAGCCAGGCAC
 CCAGAGCCAAGGTTCCGCCCTCCAGGACCTGAGTGCTTCGCCACCTGCTGCGATTCTACGACGGCATC
 TGCAAATGGGAGGAGGGCAGTCCACGCCTGTGCTGCAGTGGGCTGGGCCACCTTTCTGTGCAGTCCC
 TAGGCCGTTTTGAGGGACAGGTGCGGCAGAAGGTGCGCATAGTGAAGGAGGCGGAGGCGGCCAGGC
 CGAGGAGCCGTGGGGCAGGAAGCCCGGAAGGCCGGCGGGGCCACGGCGGGAGTCCAAGCCAGAG
 GAGCCCCGCCGCCAAGAAGCCAGCACTGGACAAGGGCTGGGCACCGGC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

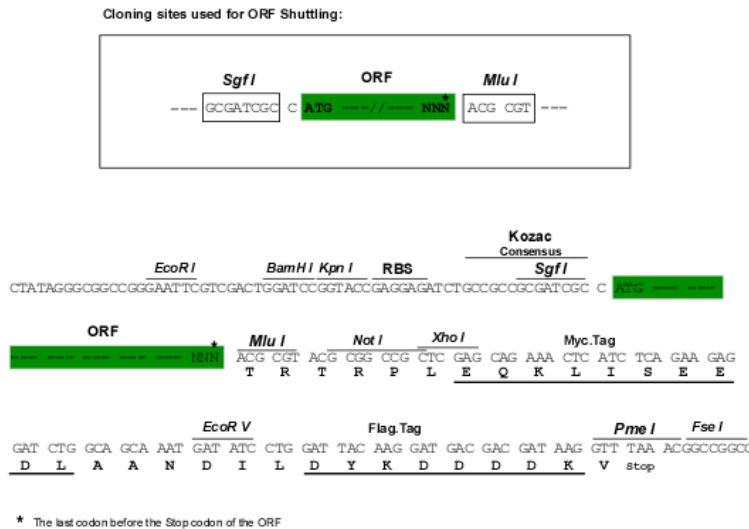
>RC403726 representing NM_130799
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDVVRLFAAELGREPDLVLLSLVLFVVEHFLAVNRVIPTNPVELTFQSPAPD
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGGVSSRELVKKVSDVIWNSLSRSYFKDRAHI
 QSLFSFITGTKLDSSGVAFVVGACQALGLRDVHLALSEDHAWVFGPNGEQTAEVTHWGKGNEDRRGQT
 VNAGVAERSWLYLKGSYMRCDRMEVAFMVCAINPSIDLHTDSLELLQLQKLLWLLYDLGHLERYPMAL
 GNLADLEELEPTPGRPDPLTYHKGIASAKTYRDEHIYPMYLAGYHCRNRNVREALQAWADTATVIQD
 YNYCREDEEIIYKEFFEVDVIPNLLKEAASLLEAGEERPGEQSQGTQSQGSALQDPECFHLLRFYDGI
 CKWEEGSPTPVLHVGWATFLVQSLGRFEGQVRQKVRIVSREAEAAEPEPWGEEAREGRRRGPRESKPE
 EPPPPKPPALDKGLGTG

SGP**TRRRLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-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:

1521 bp

RefSeq ORF:

1833 bp

Locus ID:

4221

Cytogenetics:

11q13.1

Domains:

Menin

Protein Families:

Druggable Genome, Transcription Factors

MW:

55.8 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]