

Product datasheet for **RC403724**

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:	E473X
Affected Codon#:	473
Affected NT#:	1417
Nucleotide Mutation:	MEN1 Mutant (E473X), 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:	1416 bp
Restriction Sites:	Sgfi-MluI



[View online »](#)

ORF Nucleotide Sequence:

>RC403724 representing NM_130799
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGCGCCCTGTTT
 CTGCCGAGCTGGGCCGAGAGGAGCCGGACCTGGTGTCTCCTTTCCCTGGTGTGGCTTCGTGGAGCATTT
 TCTGGCTGTCAACCGCTCATCCCTACCAACGTTCCCGAGCTCACCTTCCAGCCAGCCCGCCCCGAC
 CCGCTGGCGGCCTCACCTACTTTCCCGTGGCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGTTCA
 CCGCCAGATCCGAGGCGCCGTGACCTGTCCCTCTATCCTCGAGAAGGGGTGTCTCCAGCCGTGAGCT
 GGTGAAGAAGGTCTCCGATGTATGGAACAGCCTCAGCCGCTCTACTTCAAGGATCGGGCCACATC
 CAGTCCCTTTCAGTTCATCACAGGCACAAATTGGACAGCTCCGGTGTGCCCTTTGCTGTGGTTGGG
 CCTGCCAGGCCCTGGGTCTCCGGATGTCCACCTGCCCTGTCTGAGGATCATGCCTGGTAGTGTTTGG
 GCCAATGGGGAGCAGACAGCTGAGGTACCTGGCAGGCAAGGGCAACGAGGACCGCAGGGCCAGACA
 GTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAAGGATCATACATGCCTGTGACCGCAAGA
 TGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTCCATTGACCTGCACACCGACTCGCTGGAGCTTCT
 GCAGCTGCAGCAGAAGCTGCTCTGGTCTCTATGACCTGGGACATCTGGAAAGGTACCCCATGGCCTTA
 GGGAACTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGCCGGCCAGACCCACTCACCTCTACCACA
 AGGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACACATCTACCCCTACATGTACCTGGCTGGTA
 CCACTGTCGAACCGCAATGTGCGGGAAGCCCTGCAGGCTGGCGGACACGGCCACTGTATCCAGGAC
 TACAATACTGCCGGGAAGACGAGGAGATCTACAAGGAGTTCTTTGAAGTAGCCAATGATGTCATCCCA
 ACCTGCTGAAGGAGGACGCCAGCTTGTGGAGCGGGGAGGAGCGCCGGGGAGCAAGCCAGGGC
 CCAGAGCCAAGGTTCCGCCCTCCAGGACCTGAGTGTCTCGCCACCTGCTGCGATTCTACGACGGCATC
 TGCAAATGGGAGGAGGGCAGTCCACGCTGTGCTGCAGTGGGCTGGGCCACCTTTCTGTGCAGTCCC
 TAGGCCGTTTTGAGGGACAGGTGCGGCAGAAGGTGCGCATAGTGAGCCGAGAGGCCGAGCGGCCGAGGC
 CGAGGAGCCGTGGGGC

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

>RC403724 representing NM_130799
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDDVVRLF AAE L GREEDLVLLSLV L GFVEHFLAVNRVIPTNPVPELTFQSPAPD
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGGVSSREL VKKVSDVIWNSLSRSYFKDRAHI
 QSLFSFITGKLDSSGVAFVVGACQALGLRDVHLAL SEDHAWVVF GPNGEQTA E V T W H G K G N E D R R G Q T
 VNAGVAERSWL Y L K G S Y M R C D R K M E V A F M V C A I N P S I D L H T D S L E L L Q L Q Q K L L W L L Y D L G H L E R Y P M A L
 GNLADLEELEPTPRPDPLTYHKGIASAKTYRDEHIYPMYLAGYHCRNRNVREALQAWADTATVIQD
 YNYCREDEEIIYKEFFEYANDVIPNLLKEAASLLEAGEERPGEQSQGTQSQGSALQDPECFALLRFYDGI
 CKWEEGSPTPVLHVGWATFLVQSLGRFEGVQRQKVRIVSREAEAAEAEEPWG

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:

1416 bp

RefSeq ORF:

1833 bp

Locus ID:

4221

Cytogenetics:

11q13.1

Domains:

Menin

Protein Families:

Druggable Genome, Transcription Factors

MW:

51.9 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]