

Product datasheet for RC403516

OriGene Technologies, Inc.

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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: E30>
Affected Codon#: 30
Affected NT#: 88

Nucleotide Mutation: MEN1 Mutant (E30X), 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 Neomycin

Selection:

Vector: pCMV6-Entry (PS100001)

 Tag:
 Myc-DDK

 ACCN:
 NM_130799

ORF Size: 87 bp
Restriction Sites: Sgfl-Mlul

ORF Nucleotide >RC403516 representing NM_130799

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$

GCCGCGATCGCC

ATGGGGCTGAAGGCCGCCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGCGCCTGTTTG

CTGCCGAGCTGGGCCGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGATCTGGCAGCAAATGATATCC

TGGATTACAAGGATGACGACGA TAAGGTTTAA





Protein Sequence: >RC403516 representing NM_130799

Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDDVVRLFAAELGR

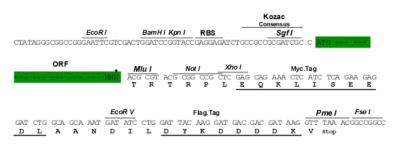
SGPTRTRRLEQKLISEEDLAANDILDYKDDDDK**V**

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} 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).

RefSeq: NP 570711

RefSeq Size: 87 bp RefSeq ORF: 1833 bp Locus ID: 4221 Cytogenetics: 11q13.1

Domains: Menin

Protein Families: Druggable Genome, Transcription Factors

MW: 3.2 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]