

## Product datasheet for **RC403725**

### 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:     | E477X   |
| Affected Codon#:          | 477   |
| Affected NT#:             | 1429  |
| Nucleotide Mutation:      | MEN1 Mutant (E477X), 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:                 | 1428 bp   |
| Restriction Sites:        | Sgfl-Mlul   |



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**ORF Nucleotide Sequence:**

>RC403725 representing NM\_130799  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGCGCCCTGTTTG  
 CTGCCGAGCTGGGCCGAGAGGAGCCGGACCTGGTGCTCCTTTCCCTGGTCTGGCTTCGTGGAGCATTT  
 TCTGGCTGTCAACCGCTCATCCCTACCAACGTTCCCGAGCTCACCTTCCAGCCAGCCCGCCCCGAC  
 CCGCTGGCGGCCTCACCTACTTTCCCGTGCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGTTCA  
 CCGCCAGATCCGAGGCGCCGTGACCTGTCCCTCTATCCTCGAGAAGGGGTGTCTCCAGCCGTGAGCT  
 GGTGAAGAAGGTCTCCGATGTCATATGGAACAGCCTCAGCCGCTCCTACTTCAAGGATCGGGCCACATC  
 CAGTCCCTTTCAGTTCATCACAGGCACCAAATTGGACAGCTCCGGTGTGCCCTTTGCTGTGGTTGGG  
 CCTGCCAGGCCCTGGGTCTCCGGATGTCCACCTGCCCTGTCTGAGGATCATGCCTGGTAGTGTTTGG  
 GCCCAATGGGGAGCAGACAGCTGAGGTACCTGGCACGGCAAGGGCAACGAGGACCGCAGGGCCAGACA  
 GTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAAGGATCATACATGCCTGTGACCCGAAGA  
 TGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTCCATTGACCTGCACACCGACTCGCTGGAGCTTCT  
 GCAGCTGCAGCAGAAGCTGCTCTGGTCTCTATGACCTGGGACATCTGGAAAGGTACCCCATGGCCTTA  
 GGGAACTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGCCGGCCAGACCCACTCACCTCTACCACA  
 AGGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACACATCTACCCCTACATGTACCTGGCTGGTA  
 CCACTGTCGAACCGCAATGTGCGGGAAGCCCTGCAGGCTGGCGGACACGGCCACTGTATCCAGGAC  
 TACAACCTACTGCCGGGAAGACGAGGAGATCTACAAGGAGTTCTTTGAAGTAGCCAATGATGTCATCCCA  
 ACCTGCTGAAGGAGGCAGCCAGCTTGTGGAGGCGGGGAGGAGCGCCGGGGAGCAAGCCAGGGC  
 CCAGAGCCAAGGTTCCGCCCTCCAGGACCTGAGTGCTTCGCCACCTGCTGCGATTCTACGACGGCATC  
 TGCAAATGGGAGGAGGGCAGTCCACGCCTGTGCTGCAGTGGGCTGGGCCACCTTTCTGTGCAGTCCC  
 TAGGCCGTTTTGAGGGACAGGTGCGGCAGAAGGTGCGCATAGTGAGCCGAGAGGCCGAGCGGCCGAGGC  
 CGAGGAGCCGTGGGGCGAGGAAGCCCG

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

**Protein Sequence:**

>RC403725 representing NM\_130799  
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDDVVRLF AAE L GREEDLVLLSLV L GFVEHFLAVNRVIPTNPVPELTFQSPAPD  
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGGVSSREL VKKVSDVIWNSLSRSYFKDRAHI  
 QSLFSFITGTKLDSSGVAFVVGACQALGLRDVHLAL 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  
 GNLADLEELEPTPGRPDPLTYHKGIASAKTYRDEHIYPYMYLAGYHCRNRNVREALQAWADTATVIQD  
 YNYCREDEEIIYKEFFEYANDVIPNLLKEAASLLEAGEERPGEQSQGTQSQGSALQDPECF A H L L R F Y D G I  
 CKWEEGSPTPVLHVGWATFLVQSLGRFEGVQRQKVRIVSREAEAAEAEEPWGEEAR

**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).

**Note:**

Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:**

[NP\\_570711](#)

**RefSeq Size:**

1428 bp

**RefSeq ORF:**

1833 bp

**Locus ID:**

4221

**Cytogenetics:**

11q13.1

**Domains:**

Menin

**Protein Families:**

Druggable Genome, Transcription Factors

**MW:**

52.4 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]