

## Product datasheet for **RC403689**

### 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:     | C409X                                                                                                                                               |
| Affected Codon#:          | 409                                                                                                                                                 |
| Affected NT#:             | 1227                                                                                                                                                |
| Nucleotide Mutation:      | MEN1 Mutant (C409X), 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:                 | 1224 bp                                                                                                                                             |
| Restriction Sites:        | Sgfl-MluI                                                                                                                                           |



[View online »](#)

**ORF Nucleotide Sequence:**

>RC403689 representing NM\_130799  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGCCTGTTTG  
 CTGCCGAGCTGGGCCGAGAGGAGCCGGACCTGGTGCTCCTTTCCCTGGTGCTGGGCTTCGTGGAGCATTT  
 TCTGGCTGTCAACCGCTCATCCCTACCAACGTTCCCGAGCTCACCTTCAGCCAGCCCGCCCCGAC  
 CCGCTGGCGGCTCACCTACTTTCCCGTGCCGACCTGTCTATCATCGCCGCCCTCTATGCCGCTTCA  
 CCGCCAGATCCGAGGCGCCGTGACCTGTCCCTCTATCTCGAGAAGGGGTGTCTCCAGCCGTGAGCT  
 GGTGAAGAAGGTCTCCGATGTCTATGGAACAGCCTCAGCCGCTCCTACTTCAAGGATCGGGCCACATC  
 CAGTCCCTCTCAGTTCATCACAGGCACAAATTGGACAGCTCCGGTGTGGCCTTTGCTGTGGTTGGG  
 CCTGCCAGGCCCTGGGTCTCCGGGATGTCCACCTCGCCCTGTCTGAGGATCATGCCTGGGTAGTGTGG  
 GCCAATGGGGAGCAGACAGCTGAGGTACCTGGCACGCAAGGCAACGAGGACCGCAGGGGCCAGACA  
 GTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAAGGATCATACATGCCTGTGACCGCAAGA  
 TGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTTCCATTGACCTGCACACCGACTCGCTGGAGCTTCT  
 GCAGCTGCAGCAGAAGCTGCTCTGGTGCTCTATGACCTGGGACATCTGGAAAGGTACCCCATGGCCTTA  
 GGGAACCTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGCCGCCAGACCCACTCACCTCTACCACA  
 AGGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACACATCTACCCCTACATGTACCTGGCTGGCTA  
 CCACTGTCGCAACCGCAATGTGCGGGAAGCCCTGCAGGCCTGGCGGACACGGCCACTGTATCCAGGAC  
 TACAATACTGCCGGGAAGACGAGGAGATCTACAAGGAGTTCTTTGAAGTAGCCAATGATGTCATCCCCA  
 ACCTGCTGAAGGAGGCAGCCAGCTTGTGGAGCGGGCGAGGAGCGGCCGGGGAGCAAGCCAGGGCAC  
 CCAGAGCCAAGGTTCCGCCCTCCAGGACCTGAG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGA **TAAGTTTAA**

**Protein Sequence:**

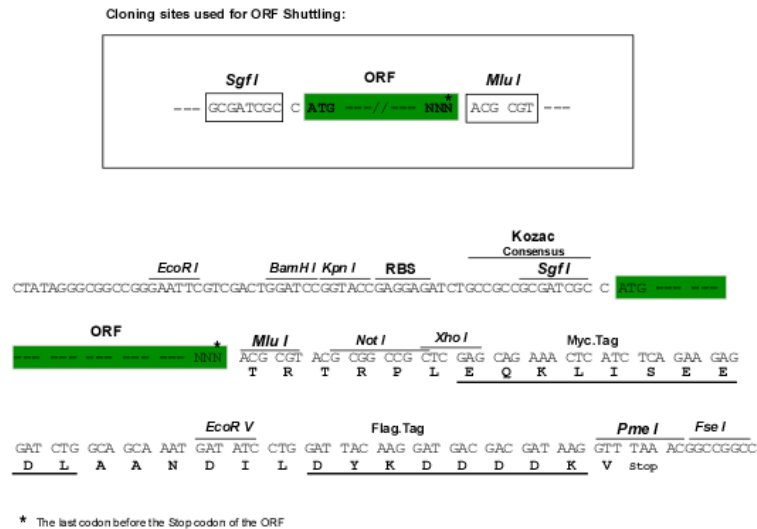
>RC403689 representing NM\_130799  
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDDVRLFAAELGREPDVLVLSVLGFVEHFLAVNRVIPTNPVPELTFQSPAPD  
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDSLYPEGGVSSRELVKVSDVIWNSLSRSYFKDRAHI  
 QSLFSFITGKLDSSGVAFAVVGACQALGLRDVHLALSEDHAWVFGPNGEQTAEVTHWGKGNEDRRGQT  
 VNAGVAERSWL YLKGSYMRCDRKMEVAFMVCAINPSIDLHTDSLELLQLQKLLWLLYDLGHLERYPMAL  
 GNLADLEELEPTPRPDPLTL YHKGIASAKTYRDEHIYPYMLAGYHCRNRNVREALQAWADTATVIQD  
 YNYCREDEEIIYKEFFEYANDVIPNLLKEAASLLEAGEERPGEQSQGTQSQGSALQDPE

**SGP**TRTRRLE**QKLI**SEED**LA**AND**ILDYKDDDDKV**

**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:**

1224 bp

**RefSeq ORF:**

1833 bp

**Locus ID:**

4221

**Cytogenetics:**

11q13.1

**Domains:**

Menin

**Protein Families:**

Druggable Genome, Transcription Factors

**MW:**

44.9 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]