

Product datasheet for **SC300034**

Menin (MEN1) (NM_000244) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Menin (MEN1) (NM_000244) Human Untagged Clone
Tag:	Tag Free
Symbol:	Menin
Synonyms:	MEAI; SCG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC300034 representing NM_000244.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGGGCTGAAGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGGCCCTGTTT
GCTGCCGAGCTGGGCCGAGAGGAGCCGGACCTGGTGTCTCCTTTCCCTGGTGTGGGCTTCGTGGAGCAT
TTTCTGGCTGTCAACCGGTATCCCTACCAACGTTCCCGAGCTACCTTCCAGCCAGCCCGCCGCC
GACCCGCCTGGCGGCTCACCTACTTTCCCGTGGCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGC
TTCACCGCCAGATCCGAGGCGCCGTCGACCTGTCCCTCTATCCTCGAGAAGGGGTGTCTCCAGCCGT
GAGCTGGTGAAGAAGGTCTCCGATGTATGGAACAGCCTCAGCCGCTCCTACTTCAAGGATCGGGCC
CACATCCAGTCCCTTTAGCTTTCATCACAGTTGGAGCCAGTAGGCACCAAATGGACAGCTCCGGT
GTGGCCTTTGCTGTGGTGGGGCCTGCCAGGCCCTGGGTCTCCGGGATGTCCACCTCGCCCTGTCTGAG
GATCATGCCTGGTAGTGTGGGCCCAATGGGGAGCAGACAGCTGAGGTACCTGGCACGGCAAGGGC
AACGAGGACCGCAGGGGCCAGACAGTCAATGCCGGTGTGGCTGAGCGGAGCTGGTGTACCTGAAAGGA
TCATACATGCGCTGTGACCGCAAGATGGAGGTGGCGTTTATGGTGTGTGCCATCAACCTTCCATTGAC
CTGCACACCGACTCGCTGGAGCTTCTGCAGCTGCAGCAGAAGCTGCTCTGGCTGTCTATGACCTGGGA
CATCTGAAAAGGTACCCCATGGCCTTAGGGAACCTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGC
CGGCCAGACCCACTCACCTCTACCACAAGGGCATTGCCCTCAGCCAAGACCTACTATCGGGATGAACAC
ATCTACCCTACATGTACCTGGCTGGCTACCACTGTGCAACCGCAATGTGCGGGAAGCCCTGCAGGCC
TGGGGGACACGGCCACTGTATCCAGGACTACAACTACTGCCGGAAGACGAGGAGATCTACAAGGAG
TTCTTTGAAGTAGCCAAATGATGTATCCCAACCTGCTGAAGGAGGACGCCAGCTTGTGGAGGCGGGC
GAGGAGCGGGCGGGGAGCAAAGCCAGGGCACCCAGAGCCAAGGTTCCGCCCTCCAGGACCTGAGTGC
TTGCCCACTGTGCGATTCTACGACGCATCTGCAAATGGGAGGAGGGCAGTCCACCGCTGTGCTG
CACGTGGGCTGGGCCACCTTTCTGTGAGTCCCTAGGCCGTTTTGAGGGACAGGTGCGGCAGAAGGTG
CGCATAGTGAGCCGAGAGGCCGAGGCGCCGAGGCCGAGGAGCCGTGGGGCAGGAAGCCCGGGAAGGC
CGGCGGGGGGCCACGGCGGGAGTCCAAGCCAGAGGAGCCCCCGCCCAAGAAGCCAGCACTGGAC
AAGGGCTGGGCACCGGCCAGGGTGCAGTGTGAGGACCCCGGAAGCCTCTGGGACTGTGCTGGC
ACAGCCCAGGGCCCTGAAGGTGGCAGCACGGCTCAGGTGCCAGCACCCGACGATCACACCAGCCGGAG
GGTCCAGTGTCACTTTCCAGAGTGAGAAGATGAAGGGCATGAAGGAGCTGCTGGTGCCACCAAGATC
AACTCGAGCGCCATCAAGCTGCAACTCACGGCACAGTGCAGTGCAGATGAAGAAGCAGAAAGTGTCC
ACCCCTAGTGACTACACTCTGTCTTTCCCTCAAGCGGCAGCGCAAAGGCCCTTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
```

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_000244
- Insert Size:** 1848 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_000244.3](#)

RefSeq Size: 2785 bp

RefSeq ORF: 1848 bp

Locus ID: 4221

UniProt ID: [O00255](#)

Cytogenetics: 11q13.1

Protein Families: Druggable Genome, Transcription Factors

MW: 68 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]

Transcript Variant: This variant (1) represents the first transcript identified for this gene and has a unique 5' UTR. Variants 1, e1B, e1C, e1D, e1E, and e1F1 all encode the same isoform (1).