

## Product datasheet for **RC214797**

### Menin (MEN1) (NM\_130801) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Menin (MEN1) (NM_130801) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Menin
Synonyms:	MEAI; SCG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC214797 representing NM\_130801  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGGCCCTGTTT  
 CTGCCGAGCTGGGCCGAGAGGAGCCGACTGGTCTCCTTTCTTGGTCTGGGCTTCGTGGAGCATTT  
 TCTGGCTGTCAACCGCGTCATCCCTACCAACGTTCCCGAGCTCACCTTCCAGCCAGCCCGCCCCGAC  
 CCGCTGGCGGCCTCACCTACTTTCCCGTGGCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGTTCA  
 CCGCCAGATCCGAGGCGCGTGCACCTGTCCCTCTATCCTCGAGAAGGGGTGTCTCCAGCCGTGAGCT  
 GGTGAAGAAGGTCTCGATGTATATGGAACAGCCTCAGCCGCTCCTACTTCAAGGATCGGGCCACATC  
 CAGTCCCTCTCAGCTTATCACAGTTGGAGCCAGTAGGCACCAAATTGGACAGCTCCGGTGTGGCT  
 TTGCTGTGGTGGGGCTGCCAGGCCCTGGTCTCCGGGATGTCCACCTCGCCCTGTCTGAGGATCATGC  
 CTGGGTAGTGTGGGCCAATGGGGAGCAGACAGCTGAGGTACCTGGCACGGCAAGGGCAACGAGGAC  
 CGCAGGGGCCAGACAGTCAATGCCGGTGTGGCTGAGCGGAGCTGGCTGTACCTGAAAGGATCATACATGC  
 GCTGTGACCGCAAGATGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTTCCATTGACCTGCACACCGA  
 CTCGCTGGAGCTTCTGCAGCTGCAGCAGAAGCTGCTCTGGCTGCTCTATGACCTGGGACATCTGAAAGG  
 TACCCCATGGCCTTAGGGAACCTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGCCGGCCAGACCCAC  
 TCACCCTTACCACAAGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACACATCTACCCCTACAT  
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 ACTGTCTCCAGGACTACAACCTACTGCCGGAAGACGAGGAGATCTACAAGGAGTCTTTGAAGTAGCCA  
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 CGAGGCGGCCGAGGCCGAGGAGCCGTGGGGCAGGAAGCCGGGAAGGCCGGCGGGGCCACGGCGG  
 GAGTCCAAGCCAGAGGAGCCCCCGCCCAAGAAGCCAGCACTGGACAAGGGCTGGGCACCGCCAGG  
 GTGCAGTGTGAGGACCCCGGAAGCCTCCTGGGACTGTGCTGGCACAGCCCGAGGCCCTGAAGGTGG  
 CAGCACGGCTCAGGTGCCAGCACCCGACATCACCACCGCCGGAGGTCAGTGTCTCACTTCCAGAGT  
 GAGAAGATGAAGGCATGAAGGAGCTGCTGGTGGCCACCAAGATCAACTCGAGCGCCATCAAGCTGCAAC  
 TCACGGCACAGTCGCAAGTGCAGATGAAGAAGCAGAAAGTGTCCACCCTAGTGACTACACTCTGTCTTT  
 CCTCAAGCGGCAGCGCAAAGGCCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

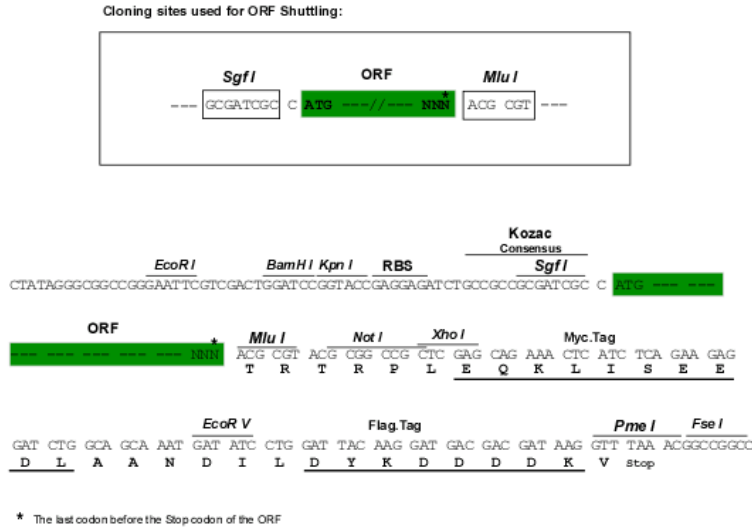
>RC214797 representing NM\_130801  
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDVVRFLFAAELGREPDLVLLSLVLGFVEHFLAVNRVIPTNVPETFQPSAPD  
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDSLYPEGGVSSRELVKKVSVDVIWNSLSRSYFKDRAHI  
 QSLFSFITGWSPVTKLDSSGVAFVVGACQALGLRDVHLALSEDHAWVVFPGNGEQTAEVTHWKGND  
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 YPMALGNLADLELEPTGRPDPLTYHKGIASAKTYRDEHIYPYMLAGYHCRNRNVREALQAWADTA  
 TVIQDYNCREDEEIIYKEFFEANDVIPNLLKEAASLLEAGEERPGEQSQTQSQGSALQDPECFALLR  
 FYDGICKWEEGSPVPLHVGWATFLVQSLGRFEGQVRQKVRIVSREAAEAEEPPWGEAREGRRRPPRR  
 ESKPEEPPPKPALDKLGTGGQAVSGPPRPPGTVAGTARGPEGGSTAQVPAPAASPPPEGPVLTFSQ  
 EKMKGMKELLVATKINSSAIKLQLTAQSQVQMKKQKVSTPSDYTL SFLKRQRKGL

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_130801

ORF Size: 1845 bp

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).

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\\_130801.2](#), [NP\\_570713.1](#)

RefSeq Size: 2736 bp

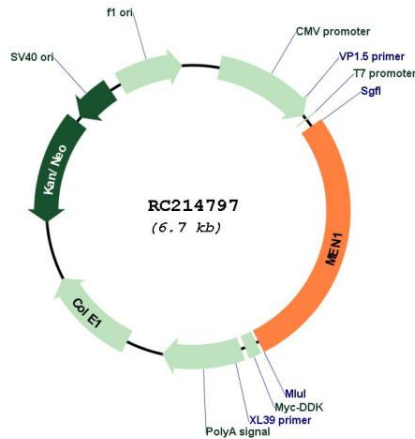
RefSeq ORF: 1848 bp

Locus ID: 4221

UniProt ID: [O00255](#)

<b>Cytogenetics:</b>	11q13.1
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>MW:</b>	68 kDa
<b>Gene Summary:</b>	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]

**Product images:**



Circular map for RC214797