

## Product datasheet for **RG214975**

### Menin (MEN1) (NM\_130804) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Menin (MEN1) (NM_130804) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MEN1
Synonyms:	MEAI; SCG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214975 representing NM\_130804  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGGCCCTGTTT  
 CTGCCGAGCTGGGCCGAGAGGAGCCGACTGGTGTCTTCTTGGTGTGGCTTCGTGGAGCATT  
 TCTGGCTGTCAACCGCGTCATCCCTACCAACGTTCCCGAGCTCACCTTCCAGCCAGCCCGCCCCGAC  
 CCGCTGGCGGCCTCACCTACTTCCCGTGGCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGTTCA  
 CCGCCAGATCCGAGGCGCGTGCACCTGTCCCTCTATCCTCGAGAAGGGGTGTCTCCAGCCGTGAGCT  
 GGTGAAGAAGGTCTCCGATGTATATGGAACAGCCTCAGCCGCTCTACTTCAAGGATCGGGCCACATC  
 CAGTCCCTCTCAGCTTATCACAGTTGGAGCCAGTAGGCACCAAATTGGACAGCTCCGGTGTGGCT  
 TTGCTGTGGTGGGGCTGCCAGGCCCTGGTCTCCGGGATGTCCACCTCGCCCTGTCTGAGGATCATGC  
 CTGGGTAGTGTGGGCCAATGGGGAGCAGACAGCTGAGGTACCTGGCACGGCAAGGGCAACGAGGAC  
 CGCAGGGGCCAGACAGTCAATGCCGGTGTGGTGTAGCGGAGCTGGCTGTACCTGAAAGGATCATACATGC  
 GCTGTGACCGCAAGATGGAGGTGGCGTTCATGGTGTGTGCCATCAACCCTTCCATTGACCTGCACACCGA  
 CTCGCTGGAGCTTCTGCAGCTGCAGCAGAAGCTGCTCTGGCTGCTCTATGACCTGGGACATCTGAAAGG  
 TACCCCATGGCCTTAGGGAACCTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGCCGGCCAGACCCAC  
 TCACCCCTACCAACAAGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACACATCTACCCCTACAT  
 GTACCTGGCTGGTACCCTGTCCGAACCGCAATGTGCGGGAAGCCCTGCAGGCCGCGGCGGACACGGCC  
 ACTGTCTCCAGGACTACAACCTACTGCCGGAAGACGAGGAGATCTACAAGGAGTCTTTGAAGTAGCCA  
 ATGATGTATCCCAACCTGCTGAAGGAGGCAGCCAGCTTGTGAGGCGGGCGAGGACCGCCGGGGGA  
 GCAAAGCCAGGGCACCCAGAGCCAAGGTTCCGCCCTCCAGGACCTGAGTGCTTCGCCACCTGCTGCGA  
 TTCTACGACGGCATCTGCAAATGGGAGGAGGCGAGTCCCACGCCCTGTGCTGCACGTGGGCTGGGCCACCT  
 TTCTTGTGACGTCCCTAGGCCGTTTTGAGGGACAGGTGCGGCAGAAAGTGCGCATAGTGAGCCGAGAGGC  
 CGAGGCGGCCGAGGCCGAGGAGCCGTGGGGCGAGGAAGCCCGGGAAGGCCGGCGGGGCCACGGCGG  
 GAGTCCAAGCCAGAGGAGCCCCCGCCCAAGAAGCCAGCACTGGACAAGGGCTGGGCACCGGCCAGG  
 GTGCAGTGTGAGGACCCCGGAAGCCTCCTGGGACTGTGCTGGCACAGCCCGAGGCCCTGAAGGTGG  
 CAGCACGGCTCAGGTGCCAGCACCCGACATCACCACCGCGGAGGTCAGTGTCTCACTTCCAGAGT  
 GAGAAGATGAAGGCATGAAGGAGCTGCTGGTGGCCACCAAGATCAACTCGAGCGCCATCAAGCTGCAAC  
 TCACGGCACAGTCGCAAGTGCAGATGAAGAAGCAGAAAGTGTCCACCCCTAGTGACTACACTCTGTCTTT  
 CCTCAAGCGGCAGCGCAAAGGCCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG214975 representing NM\_130804  
 Red=Cloning site Green=Tags(s)

MGLKAAQKTLFPLRSIDDVVRLFAAELGREEDLVLLSLVLFVVEHFLAVNRVIPTNPELTFQSPAPD  
 PPGGLTYFPVADLSIIAALYARFTAQIRGAVDLSLYPREGGVSSRELVKKVSVDIWNLSRSYFKDRAHI  
 QSLFSFITGWSPVGTCLDSSGVAFVVGACQALGLRDVHLALSEDHAWVVFPGNGEQTAEVTHWKGNE  
 RRGQTVNAGVAERSWL YLKGSYMRCRMEVAFMVCAINPSIDLHTDSLELLQLQKLLWLLYDLGHLER  
 YPMALGNLADLEELEPTPGRPDPLTYHKGIAAKTYRDEHIYPYMYLAGYHCRNRNVREALQAWADTA  
 TVIQDYNCREDEEIIYKEFFEYVANDVIPNLLKEAASLLEAGEERPGEQSQTQSQGSALQDPECF AHL  
 LRFYDGIKWEEGSPTPVLHVGWATFLVQSLGRFEGQVRQKVRIVSREAEAEAEPEPWGEEAREGRRR  
 PRRESKPEEPPPKPALDKGLGTGQGAVSGPPRPPGTVAGTARGPEGGSTAQVPAPAAASPPPEGPV  
 LTFQSEKMKMKELLVATKINSSAIKLQLTAQSQVQMKKQKVSTPSDYLSFLKRQRKGL

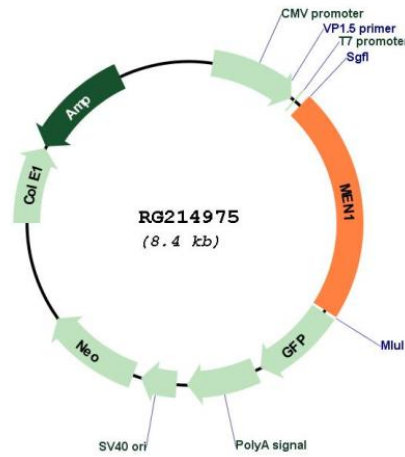
**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:


**Plasmid Map:**


ACCN: NM\_130804  
 ORF Size: 1845 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_130804.2</a> , <a href="#">NP_570716.1</a>
<b>RefSeq Size:</b>	3051 bp
<b>RefSeq ORF:</b>	1848 bp
<b>Locus ID:</b>	4221
<b>UniProt ID:</b>	<a href="#">O00255</a>
<b>Cytogenetics:</b>	11q13.1
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<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]