

Product datasheet for RG212429

Menin (MEN1) (NM_130802) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Menin (MEN1) (NM_130802) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Menin
Synonyms:	MEAI; SCG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:



Cloning sites used for ORF Shuttling:

Diagram illustrating the cloning sites used for ORF Shuttling. The ORF (Menin) is flanked by SgfI and MluI restriction sites. The ORF is highlighted in green.

Sequence of the ORF (Menin) and surrounding regions:

CTATAGGGCGCGCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGCGCGCCAGATCT

Restriction sites: EcoRI, BamHI, KpnI, RBS, Kozac Consensus, SgfI, AscI

Sequence of the ORF (Menin) and surrounding regions:

CAAGCTTAAGTACTAGTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

Protein sequence: T R T R P L E M E S D - - -

Sequence of the ORF (Menin) and surrounding regions:

--- --- GAA GAA AGA GTT TAA ACGGCCGCGCGGAGCT

Protein sequence: - - E E R V stop

ACCN: NM_130802

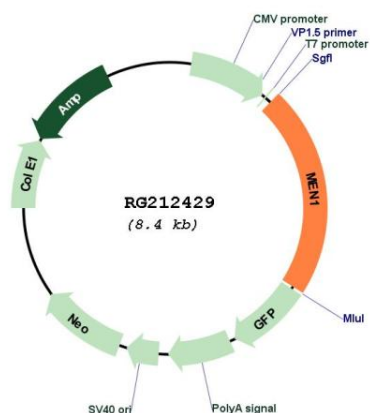
ORF Size: 1845 bp



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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:	<ol style="list-style-type: none"> 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_130802.1 , NP_570714.1
RefSeq Size:	3174 bp
RefSeq ORF:	1848 bp
Locus ID:	4221
UniProt ID:	O00255
Cytogenetics:	11q13.1
Protein Families:	Druggable Genome, Transcription Factors
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]

Product images:



Circular map for RG212429