

Product datasheet for **RG202175**

Membrin (GOSR2) (NM_004287) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Membrin (GOSR2) (NM_004287) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Membrin
Synonyms:	Bos1; EPM6; GS27
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202175 representing NM_004287 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCCCCTGTTCCAGCAAACGCACAAGCAGGTCCACGAGATCCAGTCTTGTCATGGGACGCCTGGAGA
CGGCAGACAAGCAGTCTGTGCACATAGTAGAAACGAAATCCAAGCAAGCATAGACCAGATATTCAGCCG
TCTAGAACGTCTGGAGATTTTGTCCAGCAAGGAGCCCCCTAACAAAGGCAAAATGCCAGACTTCGGGT
GACCAGTTAAAGTATGATGTCCAGCACCTGCAGACTGCGCTCAGAACTTCCAGCATCGGCGCCATGCAA
GGGAGCAGCAGGAGAGACAGCGAGAAGAGCTTCTGTCTCGAACCTTCACCACTAACGACTCTGACACCAC
CATACCAATGGACGAATCACTGCAGTTTAACTCCTCCCTCCAGAAAGTTACAACGGCATGGATGACCTC
ATTTTAGATGGGCACAATATTTTAGATGGACTGAGGACCCAGAGACTGACCTTGAAGGGGACTCAGAAGA
AGATCCTTGACATTGCCAACATGCTGGGCTTGTCCAACACAGTGATGCGGCTCATCGAGAAGCGGGCTTT
CCAGGACAAGTACTTTATGATAGGTGGGATGCTGCTGACCTGTGTGGTCATGTTCTCTGTTGGTGCAGTAC
CTGACA

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG202175 representing NM_004287
Red=Cloning site Green=Tags(s)

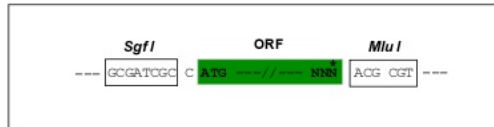
MDPLFQQTHKQVHEIQSCMGRLETADKQSVHIVENEIQASIDQIFSRLEILSSKEPPNKRQNRRLRV
DQLKYDVQHLQTALRNFQHRHAREQQRQRELLSRTFTTNDSDTTIPMDESLQFNSSLQKVHNGMDDL
ILDGHNILDGLRTQRLTLKGTQKKILDIANMLGLSNTVMRLIEKRAFQDKYFMIGGMLLTCVVMFLVVQY
LT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGCCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

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

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCCGAGCT

- - E E R V Stop

PmeI FseI

ACCN: NM_004287

ORF Size: 636 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_004287.5](#)

RefSeq Size: 639 bp

RefSeq ORF: 639 bp

Locus ID: 9570

UniProt ID: [O14653](#)

Cytogenetics: 17q21.32

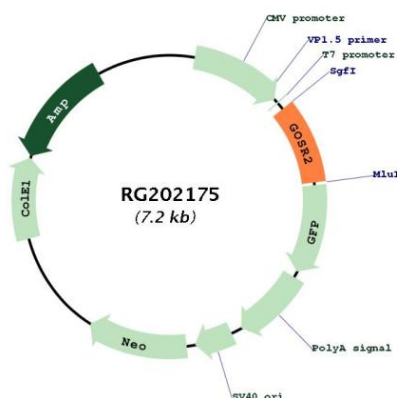
Domains: V-SNARE

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: SNARE interactions in vesicular transport

Gene Summary: This gene encodes a trafficking membrane protein which transports proteins among the medial- and trans-Golgi compartments. Due to its chromosomal location and trafficking function, this gene may be involved in familial essential hypertension. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG202175