

Product datasheet for **RG213653**

Membralin (TMEM259) (NM_001033026) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Membralin (TMEM259) (NM_001033026) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Membralin
Synonyms:	ASBABP1; C19orf6; MBRL; MEMBRALIN; R32184_3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213653 representing NM_001033026
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCGGAGCACGTGGAGCCCGCAGCTCCGGGGCCGGGCCAACGGCGCGCGCGCGGCCCGCCCGC
 CGCGCGGGCTCGCACCCCAATCTCAACCCCAACCCCTCATCAACGTGCGCGACCGGCTTCCACGC
 GCTGTTCTTCAAGATGGCTGTACCTATTCGCGGCTCTCCCGCCGCCTTCCGCGCTCTCTTCGAGTTC
 TTCGTGCTGCTCAAGGCCTGTTTGTGCTCTTCGTCTGGCTACATCCACATCGTCTTCTCCGCTCGC
 CCATCAACTGCCTGGAGCATGTGCGTGACAAGTGCCGCGTGAGGGCATCCTGCGTGTGGAAGTGCGGCA
 CAACTCGAGCCGCGCCCGTCTTCTACAGTTCTGTGACAGCGCGCGCCGCGGGAGCTTCCCGGCCTG
 GCCGTGGAACAGGCAGCAACCTGGACATGGAAGATGAGGAGGAGGAAGAGCTGACCATGGAGATGTTTG
 GGAACAGCTCCATCAAGTTTGGCTGGACATCGAGCCAAAGTGTCAAGCCGCCGAGTAGCACAGAGGC
 CCTGAATGACAGCCAGGAGTTCCCTTCCCGAGACGCCACAAAGTGTGGCCGAGGACGAGTACATC
 GTGGAGTACTCACTAGAGTATGGCTTCTTCGCTGTGCGAGGCCACCCGCCAGCGCCTGAGCATCCCCG
 TCATGGTGGTCAACCTGGACCCACGCGGGACAGTGCTTCGGGGACCGCTTCAGCCGCCTGCTGCTGGA
 TGAGTTCTGGGCTACGATGACATCCTCATGTCCAGCGTGAAGGGCTGGCCGAGAACGAGGAGAACAAG
 GGCTTCTGCGGAATGTGGTGTGCGGGCAGCACTACCGCTTTGTGAGCATGTGGATGGCGCGGACGTCT
 ACCTGGCCGCCTTCGCCATCATGGTTCATTTACGCTGAGCGTGTCCATGCTGCTGCGGACTCACACCA
 CCAGATCTTCGTCTTCATCGTGGACCTGCTGCAGATGCTGGAGATGAACATGGCCATCGCCTTCCCGCA
 GCGCCCTGCTGACCGTTCATCTGGCCCTCGTGGGATGGAGGCCATCATGTCGGAGTTCTTCAACGACA
 CCACCACCGCTTCTACATCATCTCATGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGT
 CAGCACCAAGCGGCATTGGCTGCGGTTCTTCTATCTTACCACTTCGCTTCTATGCCATCACTAC
 CGTTCATGGGAGTATAGCAGCTGGCCCTGGTCCACTCTGGCTTCTCATCCAGCATTCCATGATCT
 ACTTCTTCCACACTACGAGCTGCCTGCCATCCTGCAGCAGTCCGCATCCAGGAGATGCTGCTTACGGC
 GCCGCACTGGGCCCCGGGACCCACGCGCTGCCCGATGACATGAACAACAACCGGGCGCCCGGCT
 ACAGCCCTGACTCTGCCGGCAGCCCCCGCCCTGGGCCCGTCTCGCTGGGGCAGCGGGAGTCCCG
 GGCTGTGGCAGCGCGCCAGCTCCCTGGTGGCCGCGGAGCCTCAGTGGCAGCAGTCCCGTGGTGA
 CCTGGGTTGGATGGCAGAGACCCTGCCATCATCACAGACGCTCCTTCTGTCCGGCTGAGCGCTCC
 CTCTGGAGCGGCTCCAGCCAGCCGCTGGGCCCTGCTGGGGCTCCCCACGCCCCAGGACAGTG
 TCCCCCGAGTACTCCGAGCTTCTGACACAACCTCCCTGGGGCTGCGGTAGGCGGGCTAGCCCGG
 CTCATGGCCCCAACGGAGGCGCCCTCGGAGGTGGGGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG213653 representing NM_001033026
 Red=Cloning site Green=Tags(s)

MSEHVPAAPGPGPNGGGGPPAPARGPRTPLNPNPLINVRDLFHALFFKMAVYSRPFPPAFRRLFEF
 FVLLKALFVLFVLAYIHIVFSRSPINCLEHVRDKWPREGILRVEVRHNSSRAPVFLQFCDSSGGRSFPGL
 AVEPGSNLDMEDDEEEELTMEMFGNSSIKFELDIEPKVFKPPSSTEALNDSQEFPPETPTKVWPQDEYI
 VEYSLEYGFLRLSQATRQLSIPVMVVTLDPTRDQCFGDRFSRLLDEFLLGYDDILMSSVKGLAENEENK
 GFLRNVSSEHYRFVSMWMARTSYLAFAIMVIFTLVSMMLLRYSHHQIFVFIVDLLQMLEMMAIAFPA
 APLLTVILALVGMEAIMSEFFNDTTAFYIILIVWLADQYDAICHTSTSKRHWLRFYLYHFAFYAYHY
 RFNGQYSSLALVTSWLFIQHSMIYFFHHYELPAILQQVRIQEMLLQAPPLGPGTPTALPDDMNNNSGAPA
 TAPDSAGQPPALGPVSPGASGSPGVAAAAPSSLVAAAASVAAAAGDGLGMAETAIIITDASFLSGLSAS
 LLERRPASPLGPAGLPHAPQDSVPPSDSAASDTTPLGAAVGGPSPASMAPTEAPSEVGS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001033026

ORF Size: 1860 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_001033026.2](#)

RefSeq Size: 2754 bp

RefSeq ORF: 1863 bp

Locus ID: 91304

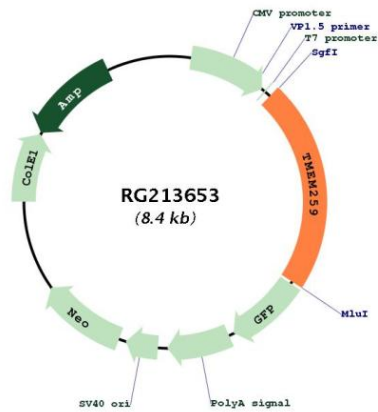
UniProt ID: [Q4ZIN3](#)

Cytogenetics: 19p13.3

Protein Families: Transmembrane

Gene Summary: May have a role in the ERAD pathway required for clearance of misfolded proteins in the endoplasmic reticulum (ER). Promotes survival of motor neurons, probably by protecting against ER stress.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG213653