

Product datasheet for **MG216983**

Tmem8 (NM_021793) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Tmem8
Synonyms:	AW490096; GPI-PLA2; M83; Pgap6; Tmem8a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



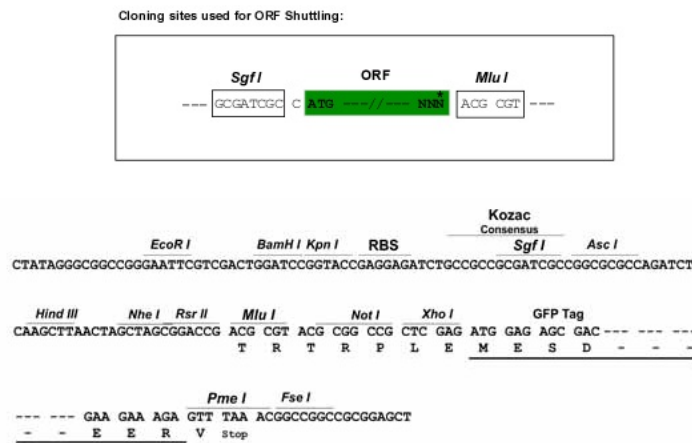
Protein Sequence: >MG216983 representing NM_021793
 Red=Cloning site Green=Tags(s)

MGRVGAGGTAREAATGSLLLLLLLLARPPPAASNSKESEAGLVSEHFSQAPQKLSFYSWYGSTRLFHFR
 VPPDVTLLRWLLHVSQGSPTSCTDEEITVHFRYGAPPVINPLGTSFPDNTLSHASFHIRALLSTLMDNTS
 VNI SHPAPGDWFLVAHLPSSQKIQVKGFVPTCAYIFQPDMLVMRVVEVSTLEPDVPLPQTLLSYPSYLK
 IFVPEYQTQLRLELQGCVSSVSPGCPVVRTVGATTLPRNFQRVLTCTGLAPSCHLLLSPPWGRWLQVTF
 ESLAEPHVTVGFTAKAVFTVCRPWSVTIHHLIQNNPNQTYDTSAIQLSQSAVHRDLGRSSRVDSGPFCLL
 NYPVLRDRTDVSVHFQPLNGAFVLVHSSMPSVMQLRLDTGMDSGGSFIIIVLRTNKTEVTNGTLVAACVN
 AASPFLSFNTSLNCTTAFQYQYPMFLRASSHMANLIMPFPETDNWYLSLQVCPESPEDCEQAVRVETI
 LYLVPCLNDGPGYQCLLLRRYGYVYAGCSCKAGWRGWSCTDNSTAQTVAQQRRAALLLTLNLMFLAPI
 AISLHRSFLVEASVYFYTMFFSTFYHACDQPGAEVLCILSYDTLQYCDFLGSASTWVTILCMARKTIL
 KQVLLVLGLTVIAMS LQMDRRGIWNLMGPCVFAFVIMASMWIYRCGHRGQCYPYTSWQRWVYLLPGISMA
 SVGIAMYSMTSDNYYYTHSIWHILLAGSAAFLLPPREKAGSWACLQKFPCHYQICRNRDRELYTVT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021793

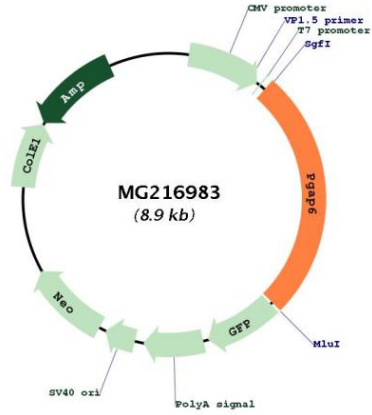
ORF Size: 2307 bp

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:	<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_021793.2 , NP_068565.1
RefSeq Size:	3480 bp
RefSeq ORF:	2310 bp
Locus ID:	60455
UniProt ID:	Q9ESN3
Cytogenetics:	17 A3.3
Gene Summary:	Involved in the lipid remodeling steps of GPI-anchor maturation. Lipid remodeling steps consist in the generation of 2 saturated fatty chains at the sn-2 position of GPI-anchor proteins (GPI-AP). Has phospholipase A2 activity that removes an acyl-chain at the sn-2 position of GPI-anchors during the remodeling of GPI. Required for the shedding of the GPI-AP TDGF1, but not CFC1, at the cell surface. Shedding of TDGF1 modulates Nodal signaling by allowing soluble TDGF1 to act as a Nodal coreceptor on other cells. Also indirectly involved in the translocation of RAC1 from the cytosol to the plasma membrane by maintaining the steady state amount of CAV1-enriched plasma membrane subdomains, stabilizing RAC1 at the plasma membrane. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216983