

Product datasheet for **RG205624**

TMEM59 (NM_004872) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM59 (NM_004872) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMEM59
Synonyms:	C1orf8; DCF1; HSPC001; PRO195; UNQ169
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205624 representing NM_004872 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCGGCGCCGAAGGGGAGCCTCTGGGTGAGGACCAACTGGGGCTCCCGCGCTGCTGCTGCTGACCA
 TGGCCTTGGCGGAGGTTTCGGGACCGCTTCGGCTGAAGCATTGACTCGGTCTTGGGTGATACGGCGTC
 TTGCCACCGGCCTGTCAGTTGACCTACCCCTTGACACCTACCCTAAGGAAGAGGAGTTGTACGCATGT
 CAGAGAGGTTGCAGGCTGTTTTCAATTTGTCAGTTTGTGGATGATGGAATTGACTTAAATCGAACTAAAT
 TGAATGTGAATCTGCATGTACAGAAGCATATTCCAATCTGATGAGCAATATGCTTGCCATCTTGTTG
 CCAGAATCAGCTGCCATTCGCTGAACTGAGACAAGAACAATTATGTCCCTGATGCCAAAATGCACCTA
 CTCTTCTCTAACTCTGGTGAGGTCTTCTGGAGTGACATGATGGACTCCGCACAGAGCTTCATAACCT
 CTTTATGGACTTTTTATCTTCAAGCCGATGACGAAAAATAGTTATATTCCAGTCTAAGCCAGAAATCCA
 GTACGCACCATTTGGAGCAGGAGCCTACAAATTTGAGAGAATCATCTCTAAGCAAAATGTCCTCAGAT
 CTGCAATGAGAAATTCACAAGCGCACAGGAATTTCTTGAAGATGGAGAAAGTGATGGCTTTTAAAGAT
 GCCTCTCTTAACTCTGGGTGGATTTTAACTACAACCTCTGCTCTCGGTGATGGTATTGCTTTGGAT
 TTGTTGTGCAACTGTTGCTACAGCTGTGGAGCAGTATGTTCCCTCTGAGAAGCTGAGTATCTATGGTGAC
 TTGGAGTTTATGAATGAACAAAAGCTAACAGATATCCAGCTTCTCTCTTGTGGTTGTTAGATCTAAAA
 CTGAAGATCATGAAGAAGCAGGGCCTCTACCTACAAAAGTGAATCTTGCTCATTCTGAAATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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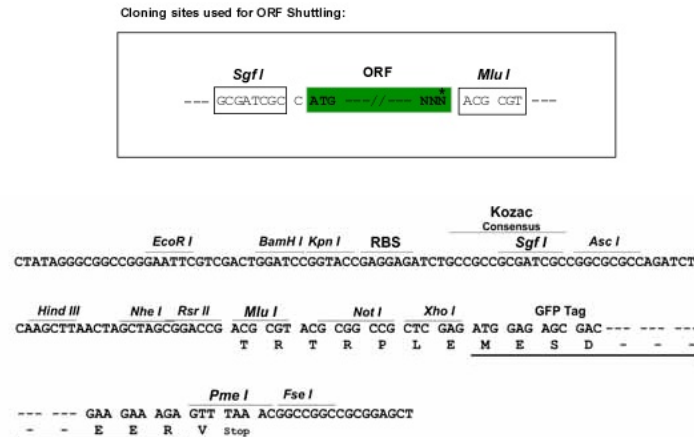
Protein Sequence: >RG205624 representing NM_004872
 Red=Cloning site Green=Tags(s)

MAAPKGS LWRTQLGLPPLLLL TMALAGSGTASAEAFDSVLGDTASCHRAQLTYPLHTYPKEEEL YAC
 QRGCR LFSICQFVDDGIDLNRKLECE SACTEAYSQSDEQYACHLGCQNQLPFAELRQEQLMSLMPKMH L
 LFPLTLVRSFWSMDMSAQSFITSSWTFYLQADDGKIVIFQSKPEIQYAPHLEQEPTNLRESSLSKMSSD
 LQMRNSQAHRNFLEDGESDGLRCLSLNSGWILTTTLVLSVMVLLWICCATVATAVEQYVPSEKLSIYGD
 LEFMNEQKLNRYPASSLVVVRSKTEDHEEAGPLPTKVNLAHSEI

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004872

ORF Size: 972 bp

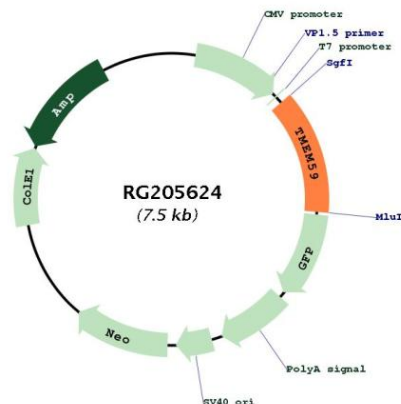
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_004872.3, NP_004863.2</u>
RefSeq Size:	1709 bp
RefSeq ORF:	972 bp
Locus ID:	9528
UniProt ID:	<u>Q9BXS4</u>
Cytogenetics:	1p32.3
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a protein shown to regulate autophagy in response to bacterial infection. This protein may also regulate the retention of amyloid precursor protein (APP) in the Golgi apparatus through its control of APP glycosylation. Overexpression of this protein has been found to promote apoptosis in a glioma cell line. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2015]

Product images:



Circular map for RG205624