

Product datasheet for **RG209746**

TMEM214 (NM_017727) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM214 (NM_017727) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMEM214
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG209746 representing NM_017727
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCGACCAAGACGGCGGGCGTGGGGCGGTGGGAGGTAGTGAAGAAGGGTCGGCGGCCTGGGGTCGGCG
 CCGGCGCGGCGGCCGAGGAGGCGGCAGGAACCGCAGGGCGCTCGGGGAAGCAAACGGAGTGTGGAATA
 CGACCTGACCCCTGCAATCCAGACCACAAGCACCTTTATGAGCGGGGCTTTGAGAATATCATGAAGCGG
 CAGAATAAGGAGCAGGTCCCACCCCTGCTGTGGAACCTAAGAAACAGGGAACAAGAAGCAGCCAAAGA
 AGGTGGCAACTCCTCACAACCAAACAGAGCAGGGCGCTTCCGCAGCCTGGAGGAAGCACTGAAAGC
 TCTGGATGTGGCAGACCTGCAGAAGGAAGTGGACAAGAGCCAGAGTGTGTTCTCTGGAAACCAATCCATA
 TGGTTGAAGGACCTGGCCAGCTATCTCACTACAAGCTACAAGCTCCTCTAAGTGAACCCACGCTGAGCC
 AGCATACTCATGATTATCCCTACAGCCTGGTGAGCCGGGAGCTACGTGGGATCATACGAGGGCTGCTGGC
 GAAGGCAGCGGGTCTCTGGAGCTCTTTTGGACCACTGTCTGTTCAACATGTTGCAAGAGCTGGATAAG
 ACACGAGGGAGTCACTACATGGTTACCGCATCTGTATCCAGGCCATCCTGCAAGACAAGCCCAAGATTG
 CCACGGCAAACCTAGGCAAGTTCCTGGAAGTCTGAGGTCCCACAGAGCCGACCAAGTGTCTCAC
 CATCATGTGGGCCTGGGTCAAGCAGGTTTGGCAACCTACCGAGGGACTGAAAGTGTGGCTGGGGATC
 ATGCTGCCTGTCTGGGCATCAAGTCTCTGTCTCCCTTTGCCATCACATACCTGGATCGGCTGCTCCTGA
 TGCATCCCAACCTTACCAAGGGCTTCGGCATGATTGGCCCAAGGACTTCTTCCCACTTCTGGACTTTGC
 CTATATGCCAAACAACCTCCCTGACACCCAGCCTGCAGGAGCAGCTGTGTACAGCTTACCCCCGACTGAAA
 GTGCTGGCATTGGAGCAAAGCCGGATTCCACCCTGCATACCTACTTCCCTTCTTCTGCTCCAGAGCCA
 CCCCTAGCTGTCCCCCTGAGATGAAGAAAGAGCTCCTGAGCAGCCTGACTGAGTGCCTGACGGTGGACCC
 CCTCAGTGCCAGCGTCTGGAGGCAGCTGTACCCTAAGCACCTGTACAGTCCAGCCTTCTGCTGGAGCAC
 TTGCTCAGCTCCTGGGAGCAGATTCCCAAGAAGGTACAGAAGTCTTTGCAAGAAACCAATTCAAGTCCCTCA
 AGCTTACCAACCAGGAGCTGCTGAGGAAGGGTAGCAGTAACAACCAGGATGTCGTACCTGTGACATGGC
 CTGCAAGGGCCTGTTGCAGCAGGTTACGGGTCTCGGCTGCCCTGGACGCGGCTCCTCCTGTTGCTGCTG
 GTCTTCGCTGTAGGCTTCTGTGCCATGACCTCCGGTCACACAGCTCCTCCAGGCCTCCCTTACTGGCC
 GGTGCTTCGATCATCTGGCTTCTTACCTGCTAGCCAACAAGCGTGTGCCAAGCTCTACTCCTACAGTCT
 GCAAGGCTACAGCTGGCTGGGGGAGACTGCCGCTCTGGGGCTCCACCTGCTCACCCTGGTGCAGGCC
 AGCTTGCAGCTGGCTGGGCTCACCAATGCCACAGTACAGTTCCTTTCTGCCACTGTGCCTCTCACC
 TTGCGTGGTTTGGTGACAGTCTCACCAGTCTCTCTCAGAGGCTACAGATCCAGCTCCCCGATTCCGTGAA
 TCAGTACTCCGCTATCTGAGAGAGCTGCCCTGCTTTTCCACCAGAATGTGCTGCTGCCACTGTGGCAC
 CTCTTGCTTGAAGCCCTGGCCTGGGCCCAGGAGCACTGCCATGAGGCATGCAGAGGTGAGGTGACCTGGG
 ACTGCATGAAGACACAGCTCAGTGAGGCTGTCCACTGGACCTGGCTTTGCCTACAGGACATTACAGTGGC
 TTTCTTGGACTGGGCACTTGCCCTGATATCCAGCAG

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG209746 representing NM_017727
 Red=Cloning site Green=Tags(s)

MATKTAGVGRWEVVKGRRPGVGAGAGGRGGGRNRRALGEANGVWKYDLTPAIQTTSTLYERGFENIMKR
 QNKEQVPPPAVEPKKPGNKKQPKKVATPHNQKQGRFRSLEEALKALDVADLQKELDKSQSVFSGNQSI
 WLKDLASYLNYKLQAPLSEPTLSQHTHDYPYSLVSRELRGIIIRGLLAKAAGSLELFFDHCLFTMLQELDK
 TPGESLHGYRICIQAILQDKPKIATANLGKFLLELRSHQSRPAKCLTIMWALGQAGFANLTEGLKVLGI
 MLPVLGIKSLSPFAITYLDRLLLMHPNLTKGFGMIGPKDFFPLLDFAYPNNSLTPSLQEQLCQLYPRLK
 VLAFGAKPDSTLHTYFSPFLSRATPSCPPMKKELLSSLTECLTVDPLSASVWRQLYPKHLSSQSSLLLEH
 LLSSWEQIPKKVQKSLQETIQSLKLTNQELLRKSSNNQDVVTCDMACKGLLQQVQGPRLPWTRLLLLLL
 VFVAVGFLCHDLRSHSSFQASLTGRLLRSSGFLPASQQACAKLYSYSLQGYSWLGETLPLWGSLLLTVVRP
 SLQLAWAHTNATVSFLSAHCASHLAWFGDSLTSLSQRLQIQLPDSVNQLRLRYLRELPLLFHQNVLLPLWH
 LLLLEALAWAQEHCEACRGEVTWDCMKTQLSEAVHWTWLCQDITVAFLDWALALISQQ

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_017727

ORF Size: 2067 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_017727.3, NP_060197.3

RefSeq Size: 2730 bp

RefSeq ORF: 2070 bp

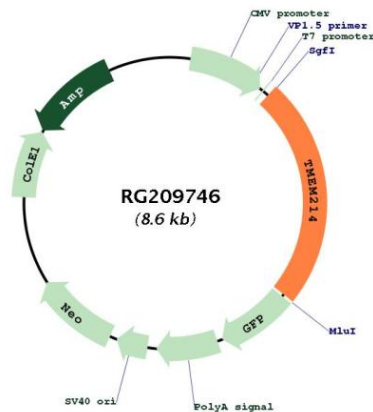
Locus ID: 54867

UniProt ID: Q6NUQ4

Cytogenetics: 2p23.3

Gene Summary: Critical mediator, in cooperation with CASP4, of endoplasmic reticulum-stress induced apoptosis. Required for the activation of CASP4 following endoplasmic reticulum stress. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG209746