

Product datasheet for **RC209746**

TMEM214 (NM_017727) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM214 (NM_017727) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM214
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC209746 representing NM_017727
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCGACCAAGACGGCGGGCGTGGGGCGGTGGGAGGTAGTGAAGAAGGGTCGGCGGCCTGGGGTCGGCG
 CCGGCGCGCGCGGCCGAGGAGGCGGCAGGAACCGCAGGGCGCTCGGGGAAGCAAACGGAGTGTGGAATA
 CGACCTGACCCCTGCAATCCAGACCACAAGCACCTTTATGAGCGGGGCTTTGAGAATATCATGAAGCGG
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Protein Sequence: >RC209746 representing NM_017727
 Red=Cloning site Green=Tags(s)

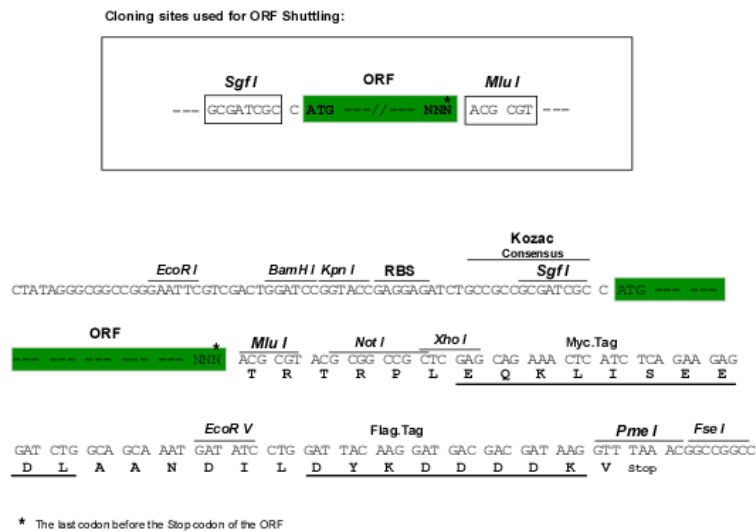
MATKTAGVGRWEVVKGRPGVGAGAGGRGGGRNRRALGEANGVWKYDLTPAIQTTSTLYERGFENIMKR
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 SLQLAWAHTNATVSFLSAHCASHLAWFGDSLTSLSQRLQIQLPDSVNQLRLRYLRELPLLFHQNVLLPLWH
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4977_g09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017727

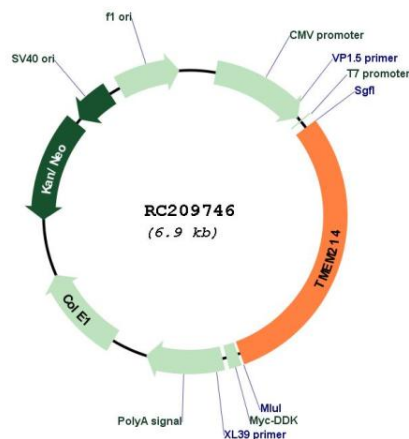
ORF Size: 2067 bp

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](#)

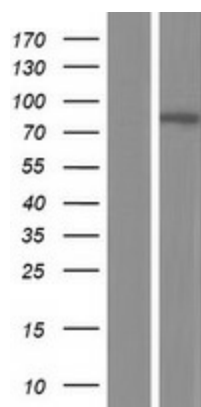
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_017727.3, NP_060197.3</u>
RefSeq Size:	2730 bp
RefSeq ORF:	2070 bp
Locus ID:	54867
UniProt ID:	<u>Q6NUQ4</u>
Cytogenetics:	2p23.3
MW:	77 kDa
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 RC209746



Western blot validation of overexpression lysate (Cat# [LY413595]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209746 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).