

Product datasheet for RR211863

Tmem38a (NM_001100175) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem38a (NM_001100175) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem38a
Synonyms:	RGD1307901; Srp-27
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR211863 representing NM_001100175 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACCTGATATCATCGCTGAGCCTGGGCGAGCTAGCGCTCAGCTTCTCGGGGTGCCGCTTCCCTG
TCTTCGACCTCAGCTACTTCATCGTCTCCATCATCTACCTGAAGTATGAGCCAGGGTCTGTGGAGCTGTC
CCGGCGTCACCCGGTGGCATCCTGGCTGTGCGCCATGCTGCACTGTTTTGGGAGTTACATCCTGGCCGAC
CTGCTTCTGGGAGCCCATCATTGACTACTTCAGCAACAGCTCCAGTATCCTGCTGGCCTCCGGAGTGT
GGTACTTGATTTCTTCTGTCCCTTGGACCTCTTCTACAAGTGCCTGTGCTTTCTGCCTGTAAAACAT
CTTTGTGGCTATGAAGGAGGTGGTGAAGGTCGAAAGATTGCTGTGGGTATCCATCACGCACACCACTAC
CACCATGGGTGGTTTCATCATGATCGCCACCGGATGGGTCAAAGGCTCTGGCGTTGCCCTTCTGTCCAAC
TGGAACAGCTGCTTCGAGGCGTCTGGAAGCCAGAGACCAATGAGATCCTACACATGTCTTCCCACTAA
GGCCAGTCTGTATGGAGCCATCCTGTTCACCTTGAACAGACCCGCTGGCTCCAGTGTCCAAGGCCAGC
CTCATCTTCGTCTTACCATGTTTATGGTGTGTAAGGTGTTCTGACAGCCACTCACTCCCATAGTT
CTCCATTTGATGCTCTGGAGGGTTACATCTGCCAGTGTGTTTTGGGGCAACTTGGGGAGGCCACATCA
CCATGACAACCATGGAGCACCATGGCATGGGCTAGGCACCCAGCACTCTGGCTTGCTGCTAAGGCC
AAGGAAGAGCTGAGCGAAGGCTTCAGGAAGAAAAGACCAAGAAAAGCGGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR211863 representing NM_001100175
 Red=Cloning site Green=Tags(s)

MDLISSLSLGELALFSRVPLFPVFDLSYFIVSIIYLYEPGSVELSRRHPVASWLCAMLHCFGSYILAD
 LLLGEPIDYFNSSSILLASGVWYLIFCPLDLFYKCVCFLPVKLIFVAMKEVVRVKIIVGIIHAAHY
 HHGWFIMIATGWVKGSGVALLSNLEQLLRGVWKPETNEILHMSFPTKASLYGAILFTLQQTRWLPVSKAS
 LIFVFTFMVSVCKVFLTATHSHSSPFVLEGIYICPVLFGATWGGDHHHDNHGAPHGMGLGTQHSGLPAKA
 KEELSEGFRKKKTKKAD

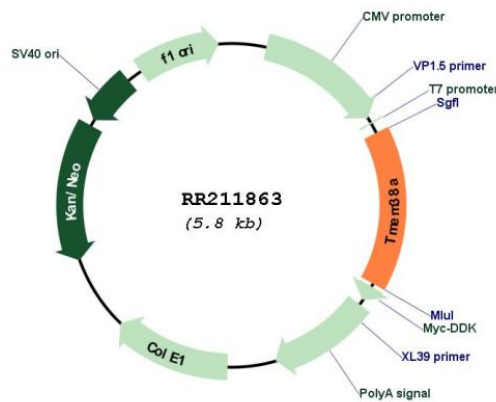
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001100175

ORF Size: 891 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.
RefSeq:	NM_001100175.1 , NP_001093645.1
RefSeq Size:	1516 bp
RefSeq ORF:	894 bp
Locus ID:	306327
UniProt ID:	A6ZIQ8
Cytogenetics:	16p14
MW:	33.3 kDa
Gene Summary:	Monovalent cation channel required for maintenance of rapid intracellular calcium release. May act as a potassium counter-ion channel that functions in synchronization with calcium release from intracellular stores.[UniProtKB/Swiss-Prot Function]