

Product datasheet for RR210875

Tmem100 (NM_001017479) Rat Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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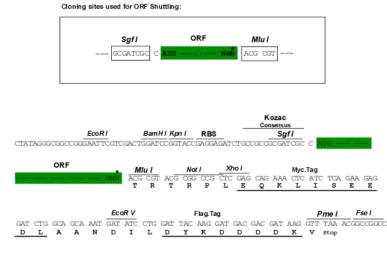
Product Type:	Expression Plasmids
Product Name:	Tmem100 (NM_001017479) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem100
Synonyms:	MGC108778
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	<pre>>RR210875 representing NM_001017479 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGACTGAAGAACCCACAAAAGAGAACCTGGGAGGCCCGAAGTCTCCCACACCTGTGACAATGGAGAAAA GCCCCAAGAGTGAAGTTGTGGTCACCACGGTCCCCTTGGTCAGTGAGGGTTCAGCTGACGGCCGCCACCGG GGGTGCCGAACTCTCTTGCTACCGCTGCATCATCCCCCTTTGCCGTGGTGGTCTTCATCACCGGGATCGTG GTCACCGCTGTAGCTTACAGCTTCAATTCCCATGGTTCCGTCATCTCCATCTTAGGCCTGGTCCTTCTGT CCTCTGGACTGTTTTTACTAGCCTCCAGCGCGTTGTGCTGGAAGGTGAGACAAAGGAACAAAAAGTCAA GAGACGCGAGAGTCAGACGGCTCTGGTGGTAAATCAGAGAAGTTTGTTT
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>RR210875 representing NM_001017479 <mark>Red</mark> =Cloning site Green=Tags(s)
	MTEEPTKENLGGPKSPTPVTMEKSPKSEVVVTTVPLVSEVQLTAATGGAELSCYRCIIPFAVVVFITGIV VTAVAYSFNSHGSVISILGLVLLSSGLFLLASSALCWKVRQRNKKVKRRESQTALVVNQRSLFA
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	Sgfl-Mlul



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Cloning Scheme:

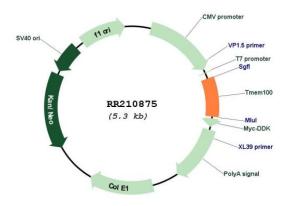


* The last codon before the Stop codon of the ORF

Plasmid Map:

ORF Size:

OTI Disclaimer:



ACCN: NM_001017479

402 bp

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. <u>More info</u>

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	100 (NM_001017479) Rat Tagged ORF Clone – RR210875
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 001017479.1, NP 001017479.1</u>
RefSeq Size:	1424 bp
RefSeq ORF:	405 bp
Locus ID:	497979
UniProt ID:	<u>Q569C0</u>
Cytogenetics:	10q26
MW:	14.4 kDa
Gene Summary:	Plays a role during embryonic arterial endothelium differentiation and vascular morphogenesis through the ACVRL1 receptor-dependent signaling pathway upon stimulation by bone morphogenetic proteins, such as GDF2/BMP9 and BMP10. Involved in the regulation of nociception, acting as a modulator of the interaction between TRPA1 and TRPV1, two molecular sensors and mediators of pain signals in dorsal root ganglia (DRG) neurons. Mechanistically, it weakens their interaction, thereby releasing the inhibition of TRPA1 by TRPV1 and increasing the single-channel open probability of the TRPA1-TRPV1 complex.

[UniProtKB/Swiss-Prot Function]

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