

## Product datasheet for **RR203019**

### Tmem17 (NM\_001010961) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tmem17 (NM\_001010961) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tmem17  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR203019 representing NM\_001010961  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGAGCTGCCGGACCCTGTTTCGTAGCGCTTGTAGCAACCTCAGCCTCACCATGTTGGCGACTCCAGCC  
GTACCGGGCCAGAGTCCAGTGAGGCGCGGATAACGAAATGGTCTCCAGCCTGCCCTGCAGATGCACT  
TTACTTTAACTTACTTTTTCCACTCTGGTGGGTGAGCTGCATCGTGATGCTGCACCTGAAGTATTCCG  
GTTTTGCCTGACTACTATAAATTCATTGTGATTACTGTGGTCATCCTCATAACCTTGATTGAGGCCATCC  
GGCTGTACCTGGGCTGCATGGGTAACCTGCAGGAGAAGGTTCCCGAGCTGGCCGGCTTTGGCTTCTGAG  
CCTTCTACTGCAGTTGCCTTTACTCCTTTCTGCTCCTTAATGAAGGCCTGAAGAATCTGCCCTGGAG  
AAAGCGATTACAGCATCTTACCCTCTCCTTACTTTCCAAGTCATCTCGGCGTTTCTGACCCTGAAGA  
AAATGGTCAACCAGCTGGCAGCCGTTTCCACCTCCAGGACTTCGATCAGCTGTCTGCGAGCAGCGCGAC  
TGGGAGGCGGGCTAGGCAAAGCTCGGAAGAGCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR203019 representing NM\_001010961  
Red=Cloning site Green=Tags(s)

MELPDPVQRQLSNLSLTMFGDSSRTGPESSEAADNEMVSSLPLQMSLYFNYSYFFPLVWVSCIVMLHLKYS  
VLPDYKFKIVITVVILITLIEAIRLYLGCNGNLQEKVPELAGFWLLSLLLQLPLLLFLLNEGLKNLPLE  
KAIHSIFTVFLTFQVISAFLLTKKMNQLAARFHLQDFDQLSASSATGRRARQSSEEL

**TRTRPLEQKLISEEDLAANDILDYKDDDDK**V

**Restriction Sites:** Sgfl-MluI

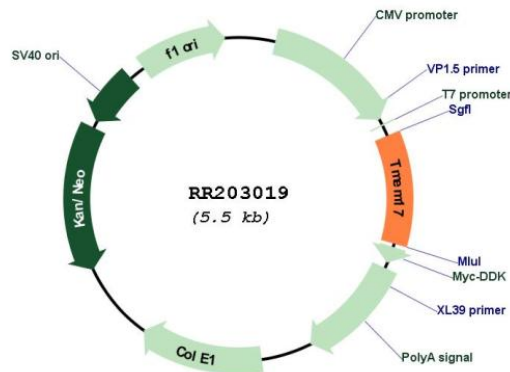


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001010961

ORF Size: 594 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001010961.1, NP_001010961.1</u>
<b>RefSeq Size:</b>	1532 bp
<b>RefSeq ORF:</b>	597 bp
<b>Locus ID:</b>	360985
<b>UniProt ID:</b>	<u>Q5HZE5</u>
<b>Cytogenetics:</b>	14q22
<b>MW:</b>	22.6 kDa
<b>Gene Summary:</b>	Transmembrane component of the tectonic-like complex, a complex localized at the transition zone of primary cilia and acting as a barrier that prevents diffusion of transmembrane proteins between the cilia and plasma membranes. Required for ciliogenesis and sonic hedgehog/SHH signaling (By similarity).[UniProtKB/Swiss-Prot Function]