

## Product datasheet for **RR212507**

### Tmem165 (NM\_001024802) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem165 (NM_001024802) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem165
Synonyms:	Tparl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR212507 representing NM_001024802 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCGGCTCGGCCCGGGGAGCGGCCGGCGCCGACGCGACGGCTGCTCGTGTCTTGTCTGCTCCGT  
TGCTCTGGGCCCGGCTGGGGTCCGCGCTGGCCCCGAGGAAGACCTGAGCCACCGGAACCAGGAGCCGCC  
GGCGCCCCCAGCAGCTGCAGCCGAGCCCGCGCAGTACAGGGCCTCGAGCCGGCCCGGGCCGAGAAA  
GGATTTACACCGCCGCCCCAGTTCATACCAACAGAGAAGATGCAGCTACCCAGGCAAATCTGGGATTTA  
TCCATGCGTTTGTGCTGCCATATCAGTCATCATAGTGTCCGAACCTCGGCGACAAGACATTTTTCATAGC  
TGCCATCATGGCGATGCGCTATAACCGGCTGACTGTGCTGGCTGGCGCCATGCTTGTGCTTGGCCTTGATG  
ACGTGCTTGTGCGTTTTGTTGGCTATGCCACCACAGTCATCCCCAGGGTGTACACATACTATGTCTCAA  
CTGCACCTTTGCCATTTTGGCATTAGAATGCTTCGGGAAGGTTTGAAGATGAGCCCAGACGAGGGTCA  
GGAGGAGCTCGAAGAAGTGAAGCAGAGTTGAAGAAGAAAGATGAAGAATTCCAACGAACCAAACTCTTA  
AACGGCCAGATGTTGAAACTGGTACAAGCACAGCAATACCTCAGAAAAAGTGGTTACACTTTATTTTAC  
CCATTTTGTCCAAGCACTCACGTTAACATTCTTGGCGGAATGGGGTGTGCTCTCAACTCACTACCAT  
TGTTCTGGCAGCCAGAGAGGATCCCTATGGTGTGGCAGTGGGTGGCACAGTGGGACACTGCCTGTGCACA  
GGATTGGCAGTAATTGGAGGAAGGATGATAGCACAAAAGATCTCTGTGCAACTGTGACGATCATCGGAG  
GCATCGTGTCTTGGCATTGTCATTTTCTGCTCTGTTTATAAGTCCAGAGTCTGGTTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR212507 representing NM\_001024802  
 Red=Cloning site Green=Tags(s)

MAASARGSGRAPTRRLVLLLLPLWAPAGVRAGPEEDLSHRNQEPAPAAQQLQPQPAAVQGLEPARAEK  
 GFTPAAPVHTNREDAATQANLGFIAHFVAASVIVSELGDKTFFIAAIMAMRYNRLTVLAGAMLALM  
 TCLSVLFGYATTVIPRVYTYVSTALFAIFGIRMLREGLKMSPDGEQEELVQAELEKDEEFQRTKLL  
 NGPDVETGTSTAI PQKWLHFISPIFVQALTLTFLAEWGDRSQLTTIVLAAREDPYGVAVGGTVGHCLCT  
 GLAVIGGRMIAQKISVRTVTIIGGIVFLAFASFALFISPESGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001024802

**ORF Size:** 969 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\\_001024802.1](#), [NP\\_001019973.1](#)

**RefSeq Size:** 1897 bp

**RefSeq ORF:** 972 bp

**Locus ID:** 364137

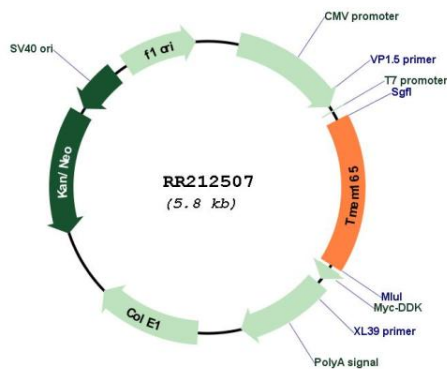
**UniProt ID:** [Q4V899](#)

**Cytogenetics:** 14p11

**MW:** 34.8 kDa

**Gene Summary:** May function as a calcium/proton transporter involved in calcium and in lysosomal pH homeostasis. Therefore, it may play an indirect role in protein glycosylation (By similarity). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RR212507