

## Product datasheet for **RG206233**

### TEM7 (PLXDC1) (NM\_020405) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TEM7 (PLXDC1) (NM_020405) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TEM7
Synonyms:	TEM3; TEM7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG206233 representing NM\_020405  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCGAGGCGAGCTCTGGCTCCTGGTGCTGGTGCTCAGGGAGGCTGCCCGGGCGCTGAGCCCCAGCCCC  
 GAGCAGGTCACGATGAGGGCCCAGGCTCTGGATGGGCTGCCAAAGGGACCGTGCGGGGCTGGAACCGGAG  
 AGCCCCGAGAGCCCTGGGCATGTGTCAGAGCCGGACAGGACCCAGCTGAGCCAGGACCTGGGTGGGGC  
 ACCCTGGCCATGGACACGCTGCCAGATAACAGGACCAGGGTGGTGGAGGACAACCACAGCTATTATGTGT  
 CCCGTCTCTATGGCCCCAGCGAGCCCCACAGCCGGAACTGTGGGTAGATGTGGCCGAGGCCAACCGGAG  
 CCAAGTGAAGATCCACACAATACTCTCCAACACCCACCGCAGGCTTCGAGAGTGGTCTTGTCTTTGAT  
 TTCCTTTCTACGGGCATCCTCTCGGCAGATCACCATGGCAACTGGAGGCTTCATCTTCATGGGGGACG  
 TGATCCATCGGATGCTCACAGCTACTCAGTATGTGGCCCCCTGATGGCCAACTCAACCCTGGCTACTC  
 CGACAACCTCCACAGTTGTTTACTTTGACAATGGGACAGTCTTTGTGGTTCAGTGGGACCAGTTTTATCTC  
 CAAGGCTGGGAAGACAAGGGCAGTTTCACCTTCCAGGCAGCTCTGCACCATGACGGCCGATTGTCTTTG  
 CCTATAAAGAGATCCCTATGTCTGTCCCGAAATCAGCTCCTCCCAGCATCCTGTCAAACCGGCCTATC  
 GGATGCCTTATGATTCTCAATCCATCCCCGGATGTGCCAGAATCTCGGCGAAGGAGCATCTTTGAATAT  
 CACCGCATAGAGCTGGACCCAGCAAGGTACCAGCATGTCCGGCCGTGGAGTTCACCCCATTTGCCGACCT  
 GCCTGCAGCATAGGAGCTGTGACGCCTGCATGTCTCAGACCTGACCTTCAACTGCAGCTGGTGCCATGT  
 CCTCCAGAGATGCTCCAGTGGCTTTGACCGCTATCGCCAGGAGTGGATGGACTATGGCTGTGCACAGGAG  
 GCAGAGGGCAGGATGTGCGAGGACTTCCAGGATGAGGACCAGACTCAGCCTCCCTGACACTTCCCTTCA  
 GCCCTATGATGGAGACCTCACCCTACCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTC  
 CACCAAGTTGAATCCCTATGACAGGAGACGGCCTTCAGAACAACCTGTACCCCAAGACAAGGGCACT  
 CCTGTGCACCTGGGCACCATCGTGGGCATCGTGTGGCAGTCTCCTCCTGCGGGCCATCATCCTGGCTG  
 GAATTTACATCAATGGCCACCCACATCCAATGCTGCGCTCTTCTTCATCGAGCGTAGACCTCACCCTG  
 GCCAGCCATGAAGTTTCGAGCCACCCTGACCATTCCACCTATGCGGAGGTGGAGCCCTCGGGCCATGAG  
 AAGGAGGGCTTCATGGAGGCTGAGCAGTGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG206233 representing NM\_020405  
 Red=Cloning site Green=Tags(s)

MRGELWLLVLLVLRRAARALSPQPGAGHDEGPGSGWAAKGTVRGWNRRARESPGHVSEPDRTQLSQDLGGG  
 TLAMDTLPDNRTRVVEDNHSYYVSRLYGPSEPHSRELWVDVAEANRSQVKIHTILSNTHRQASRVVLSFD  
 FPFYGHPLRQITMATGGFIFMGDV IHRMLTATQYVAPLMANFNPGYSDNSTVVYFDNGTVFVVQWDHVYL  
 QGWEDKGSFTFQAALHHDGRIVFAYKEIPMSVPEISSSQHPVKTGLSDAFMILNPSDVPESRRRSIFEY  
 HRIELDPSKVTSMSAVEFTPLPTCLQHRSCDACMSSDLTFNCSWCHVLQRCSSGFDRYRQEWMDYGCAQE  
 AEGRMCEDFQDEHDHSASPDTSFSPYDGLTTTSSSLFIDSLTTEDDTKLNPNYAGGDGLQNNLSPKTKGT  
 PVHLGTIVGIVLAVLLVAAIILAGIYINGHPTSNAALFFIERPHHPAMKFRSHPDHSTYAEVEPSGHE  
 KEGFMEAEQC

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_020405

**ORF Size:** 1500 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\\_020405.3](#), [NP\\_065138.2](#)

**RefSeq Size:** 6140 bp

**RefSeq ORF:** 1503 bp

**Locus ID:** 57125

**UniProt ID:** [Q8IUUK5](#)

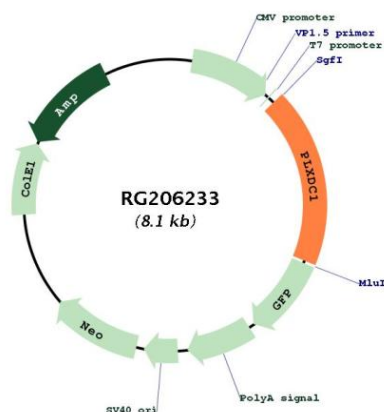
**Cytogenetics:** 17q12

**Domains:** PSI

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**Gene Summary:** Plays a critical role in endothelial cell capillary morphogenesis.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG206233