

Product datasheet for **RC208576**

TEM1 (CD248) (NM_020404) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TEM1 (CD248) (NM_020404) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TEM1
Synonyms:	CD164L1; TEM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208576 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCTGCGCCTGTTGCTGGCCTGGGCGGCCGAGGGCCACACTGGGCCAGGACCCCTGGGCTGCTG
 AGCCCCGTGCCGCTGCGGCCAGCAGCTGCTACGCTCTCTCCACGGCGCCGACCTTCCTGGAGGC
 CTGGCGGGCCTGCCGCGAGCTGGGGGGCAGCTGGCCACTCCTCGGACCCCGAGGAGGCCAGCGTGTG
 GACAGCCTGGTGGGTGCGGGCCAGCCAGCCGGCTGCTGTGGATCGGGCTGCAGCGGCAGGCCCGCAAT
 GCCAGCTGCAGCGCCACTGCGCGGCTTACGTGGACCACAGGGGACCAGGACACGGCTTTCACCAACTG
 GGCCAGCCAGCCTCTGGAGGCCCTGCCGGCCAGCGCTGTGTGGCCCTGGAGGCAAGTGGCGAGCAC
 CGTGGCTGGAGGGCTCGTGCACGCTGGCTGTGACGGCTACCTGTGCCAGTTTGGCTTCGAGGGCGCCT
 GCCCGGCCTGCAAGATGAGGCGGGCCAGGCCGGCCAGCCGTGTATACCAGCCCTTCCACCTGGTCTC
 CACAGAGTTTGTGGCTGCCCTTCGGCTCTGTGGCCGCTGTGACGTGCCAGGCTGGCAGGGGAGCCTCT
 CTGCTCTGCGTGAAGCAGCCTGAGGGAGGTGTGGGCTGGTACGGGCTGGGCCCTGTGCCTGGGACTG
 GCTGCAGCCCTGACAACGGGGGCTGCAACACGAATGTGTGGAGGAGGTGGATGGTACAGTGTCTGCCG
 CTGCACTGAGGGCTTCGGCTGGCAGCAGACGGGCGCAGTTGCGAGGACCCCTGTGCCAGGCTCCGTGC
 GAGCAGAGTGTGAGCCCGTGGGCCACAAGGCTACAGCTGCCACTGTGCGCTGGGTTTCCGGCCAGCGG
 AGGATGATCCGCACCGCTGTGTGGACACAGATGAGTGCAGATTGCCGGTGTGTGCCAGCAGATGTGTGT
 CAACTACGTTGGTGGCTTCGAGTGTTATTGTAGCGAGGGACATGAGCTGGAGGCTGATGGCATCAGCTGC
 AGCCCTGCAGGGCCATGGTGCCAGGCTTCCAGGACCTCGGAGATGAGTTGCTGGATGACGGGGAGG
 ATGAGGAAGATGAAGACGAGGCCCTGGAAGGCCTCAACGGTGGCTGGACGGAGATGCCTGGGATCCTGTG
 GATGGAGCCTACGCAGCCGCTGACTTTGCCCTGGCCTATAGACCGAGCTTCCAGAGGACAGAGAGCCA
 CAGATACCCTACCCGGAGCCACCTGGCCACCCCGCTCAGTGCCCCAGGGTCCCTACCACTCCTCAG
 TGCTCTCCGTACCCGGCCTGTGGTGGTCTCTGCCACGCATCCCACACTGCCTTCTGCCACCAGCCTCC
 TGTGATCCCTGCCACACACCCAGCTTTGTCCCGTACCACAGATCCCGTGATCGCAGCCAATATCCA
 GATCTGCCTTCTGCCTACCAACCCGGTATTCTCTCTGTCTCTCATTAGCACAGCCTCCTGCCACCAGC
 CCCCTATGATCTCAACCAAATATCCGGAGCTTCCCTGCCACCAGTCCCCATGTTTCCAGACACCCG
 GGTCGTGGCACCAGACCACACTCATTGCTGGAATCCACCTAACCATGCCCTCTGGTACCACC
 CTCGGTGGCCAGTACCCCTCAAGCCCAGATGCCCTTGTCTCAGAACCCAGGCCACCAGCTTCCCA
 TTATCCCAACTGCCAGCCCTCTCTGACCACCCTCCAGGTCCCTGTGTCTCCTGCCATCAAATCTC
 TGTGCCTGCTGCCACCCAGCCCGCAGCCCTCCCCACCCTCCTGCCCTCTCAGAGCCCACTAACCAGACC
 TCACCCATCAGCCCTACACATCCCATTCAAAGCCCCCAAATCCCAAGGGAAGATGGCCCCAGTCCCA
 AGTTGGCCCTGTGGTGGCCTACCAGCTCCACAGCAGCCCCAACAGCCCTGGGGGAGGCTGGTCTTGC
 CGAGCACAGCCAGAGGGATGACCGGTGGCTGCTGGTGGCACTCCTGGTGCCAACGTGTGTCTTTTGGTG
 GTCCTGCTTGCCTGGGATCGTGTACTGCACCCGCTGTGGCCCCATGCACCAACAAGCGCATCACTG
 ACTGCTATCGTGGGTATCCATGCTGGGAGCAAGAGCCCAACAGAACCATGCCCCAGGGGCAGCCT
 CACAGGGTGCAGACCTGCAGAACCAGCGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208576 protein sequence
 Red=Cloning site Green=Tags(s)

MLLRLLLAWAAAGPTLGQDPWAAEPRAACGPSSCYALFPRRRTFLEAWRACRELGGDLATPRTPEEAQRV
 DSLV GAGPASRLLWIGLQRQARQCQLQRPLRGFTWTTGDQDTAF TNWAQ PASGGPCPAQRVVALEASGEH
 RWLEGSCTLAVDGYLCQGFEGACPALQDEAGQAGPAVYTPFHLVSTEFWLPFGSVAAYQCQAGRGAS
 LLCVKQPEGGQGYSCHCRLGFRPAEDDPHRCVDTDECQIAGVCQQMCVNYVGGFECYCSEGHELEADGIS
 EQQCEPGGPQGYSCHCRLGFRPAEDDPHRCVDTDECQIAGVCQQMCVNYVGGFECYCSEGHELEADGIS
 SPAGAMGAQASQDLGDELLDDGEDEEDEAWKAFNGGWTEMPGILWMEPTQPPDFALAYRPSFPEDREP
 QIPYPEPTWPPPLSAPRVYHSSVLSVTRPVVVSATHPTLPSAHQPPVIPATHPALSRDHIQPIVIAANY
 DLP S A Y Q P G I L S V S H S A Q P P A H Q P P M I S T K Y P E L F P A H Q S P M F P D T R V A G T Q T T T H L P G I P P N H A P L V T T
 L G A Q L P P Q A P D A L V L R T Q A T Q L P I I P T A Q P S L T T T S R S P V S P A H Q I S V P A A T Q P A A L P T L L P S Q S P T N Q T
 S P I S P T H P H S K A P Q I P R E D G P S P K L A L W L P S A P T A A P T A L G E A G L A E H S Q R D D R W L L V A L L V P T C V F L V
 V L L A L G I V Y C T R C G P H A P N K R I T D C Y R W V I H A G S K S P T E P M P P R G S L T G V Q T C R T S V

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6834_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



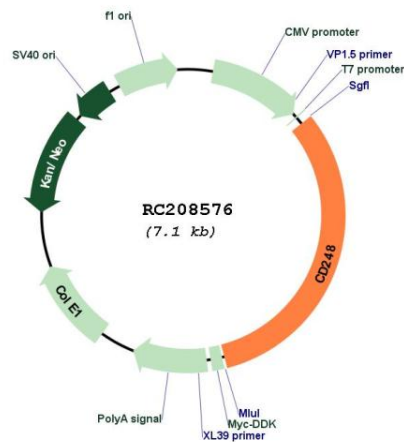
ACCN: NM_020404

ORF Size: 2271 bp

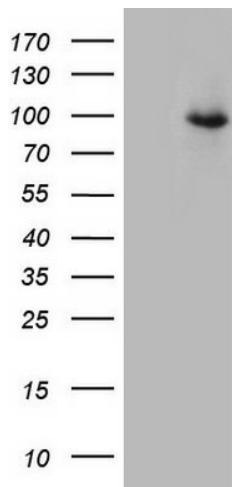
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

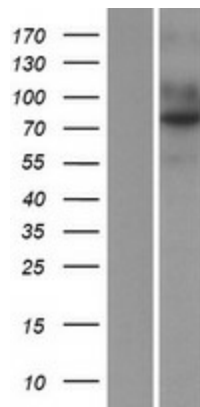
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open 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:	<u>NM_020404.3</u>
RefSeq Size:	2576 bp
RefSeq ORF:	2274 bp
Locus ID:	57124
UniProt ID:	<u>Q9HCU0</u>
Cytogenetics:	11q13.2
Domains:	CLECT, EGF_CA, EGF, EGF
Protein Families:	Druggable Genome, Transmembrane
MW:	80.9 kDa
Gene Summary:	May play a role in tumor angiogenesis.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for RC208576



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CD248 (Cat# RC208576, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CD248 (Cat# [TA807065])(1:500). Positive lysates [LY412436] (100ug) and [LC412436] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY412436]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208576 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).