

Product datasheet for **SC321448**

TEM8 (ANTXR1) (NM_018153) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TEM8 (ANTXR1) (NM_018153) Human Untagged Clone
Tag:	Tag Free
Symbol:	TEM8
Synonyms:	ATR; GAPO; TEM8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_018153.2
 GGGGAATAAAGGACCCGCGAGGAAGGGCCCGGATGGCGCTCCCTGAGGGTCGTGGCG
 AGTTTCGCGGAGCGTGGGAAGGAGCGGACCTGCTCTCCCCGGGCTGCGGGCCATGGCCAC
 GGCGGAGCGGAGAGCCCTCGGCATCGGCTTCCAGTGGCTCTCTTTGGCCACTCTGGTGCT
 CATCTGCGCCGGCAAGGGGGACGCAGGGAGGATGGGGTCCAGCCTGCTACGGCGGATT
 TGACCTGTACTTCATTTTGGACAAATCAGGAAGTGTGCTGCACCACTGGAATGAAATCTA
 TTACTTTGTGGAACAGTTGGCTCACAATTCATCAGCCACAGTTGAGAATGCCTTTAT
 TGTTTTCTCCACCCGAGGAACAACCTTAATGAACTGACAGAAGACAGAGAACAATCCG
 TCAAGGCCTAGAAGAACTCCAGAAAGTTCTGCCAGGAGGAGACACTTACATGCATGAAGG
 ATTTGAAAGGGCCAGTGAGCAGATTTATTATGAAAACAGACAAGGGTACAGGACAGCCAG
 CGTCATCATTGCTTTGACTGATGGAGAACTCCATGAAGATCTCTTTTTCTATTAGAGAG
 GGAGGCTAATAGGTCTCGAGATCTTGGTCAATTGTTTACTGTGTGGTGTGAAAGATT
 CAATGAGACACAGCTGGCCCGATTGCGGACAGTAAGGATCATGTGTTTCCCGTGAATGA
 CGGCTTTGAGGCTCTGCAAGGCATCATCCACTCAATTTTGAAGAAGTCTGCATCGAAAT
 TCTAGCAGCTGAACCATCCACCATATGTGCAGGAGAGTCAATTTCAAGTTGTCGTGAGAGG
 AAACGGCTCCGACATGCCCGCAACGTGGACAGGGTCTCTGCAGCTTCAAGATCAATGA
 CTCGGTACACTCAATGAGAAGCCCTTTTCTGTGGAAGATACTTATTTACTGTGTCCAGC
 GCCTATCTTAAAAGAAGTTGGCATGAAAGCTGCACTCCAGGTGAGCATGAACGATGGCCT
 CTCTTTTATCTCCAGTTCTGTATCATCACCACCACACTGTAGCCTCCACAAAATTGC
 ATCAGGCCCCACAACAGCTGCTTGCATGGAATAGCAGAGAATACCGCCTGCTCCCTCCG
 ACAGCACACTCCTGAAAACGGGGAGAGAGGAGCCAAACATGCTCGGTTTACACTTTCCCT
 ATTTACTGAATGAGTGGAGGGCAGAGACAGGCCCTGGAGTTACGCACACTGAGTCCCCAA
 CATGGAAAGAAACATCAGGAGGGACAGGAAACGTTCCCTCCTTAAACCAACAGTTTTCAAG
 ACCTTACTGGAGCACTTTATTGGCTACATAATCACTCCATGCGGTGGGCATCAGGCAGA
 ATCCTGGTGCAGACCAACTTTGAGGTGGAGGATTTACAGTTTTCTTTATTTTGAATTC
 CCCCAGGCTCCCCTAATTCCTCTCATTCTATCCTCCTCCCTTTCCACAAAAGAAAAC
 AGAAAGGAGCAGCAGTGTGATACCGTATCATCCAGAGGCTGGTTCTCTCCATTATA
 GGGCAACAAGCCCTGGCAAGATATTTCACTCCCGCCCATGCCATGCATTAATAATCCA
 AAATTGCCTATATTCCACCTGCCAAGCAAGAGATGCTTTCATTATTGAAGTTCCAAATGT
 ATACCTTTGAGAACAGTGCCTTCTCGTCTTAAAAGAGAGGTCCTCATTGTTGTGAGTTGGG
 AGCAGAGGGAATTAAGAAAGCCATGATGCAGGGATTTGGCCATTCAAGCCGGGCAGCCT
 TCAGAGAATGTATCCCTAATGACACATGCCCGAATGAAGGAGCGGGGCTGAGCTTGCC
 TGCCCTCGTATTGAATGTTGCCTGTCTGCCTCCTAATAGCGGGCCTCTGTGTGAGCATT
 TGACAAGACTTAAAATATTGATGAAAGAAAATGGATGATCCCCAACAGGAAGATGCAA
 CCCCATGGGCTGCCTGCTTGACCACAGAAGTGCTTCCAGCTCCAGTTGCTCATCTGAGAA
 CTCCCCCACCCTTGCTGTTAAAATTGTTAAAATTAAGGCCATGTTGATTGAAAAAAA
 AAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_018153

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_018153.2](#), [NP_060623.2](#)

RefSeq Size: 2143 bp

RefSeq ORF: 1002 bp

Locus ID: 84168

UniProt ID: [Q9H6X2](#)

Cytogenetics: 2p13.3

Domains: VWA

Protein Families: Druggable Genome, Transmembrane

Gene Summary:

This gene encodes a type I transmembrane protein and is a tumor-specific endothelial marker that has been implicated in colorectal cancer. The encoded protein has been shown to also be a docking protein or receptor for Bacillus anthracis toxin, the causative agent of the disease, anthrax. The binding of the protective antigen (PA) component, of the tripartite anthrax toxin, to this receptor protein mediates delivery of toxin components to the cytosol of cells. Once inside the cell, the other two components of anthrax toxin, edema factor (EF) and lethal factor (LF) disrupt normal cellular processes. Three alternatively spliced variants that encode different protein isoforms have been described. [provided by RefSeq, Oct 2008]

Transcript Variant: This variant (3) has an alternative 3' coding region and 3' UTR segment and lacks multiple segments, compared to variant 1. The resulting protein (isoform 3) has a shorter and distinct C-terminus when it is compared to isoform 1.