

## Product datasheet for **SC110684**

### TEM8 (ANTXR1) (NM\_053034) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TEM8 (ANTXR1) (NM_053034) Human Untagged Clone
Tag:	Tag Free
Symbol:	TEM8
Synonyms:	ATR; GAPO; TEM8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_053034, the custom clone sequence may differ by one or more nucleotides

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ATGGCCACGGCGGAGCGGAGAGCCCTCGGCATCGGCTTCCAGTGGCTCTCTTTGGCCACTCTGGTGTCTCA
TCTGCGCCGGGCAAGGGGGACGCAGGGAGGATGGGGGTCCAGCCTGCTACGGCGGATTTGACCTGTACTT
CATTTTGGACAAATCAGGAAGTGTGCTGCACCACTGGAATGAAATCTATTACTTTGTGGAACAGTTGGCT
CACAAATTCATCAGCCACAGTTGAGAAATGTCCTTTATTGTTTTCTCCACCCGAGGAACAACCTTAATGA
AACTGACAGAAGACAGAGAACAATCCGTCAAGGCCTAGAAGAACTCCAGAAAGTTCTGCCAGGAGGAGA
CACTTACATGCATGAAGGATTTGAAAGGGCCAGTGAGCAGATTTATTATGAAAACAGACAAGGGTACAGG
ACAGCCAGCGTCATCATTGCTTTGACTGATGGAGAACTCCATGAAGATCTCTTTTCTATTCAGAGAGGG
AGGCTAATAGGTCTCGAGATCTTGGTGCAATTGTTTACTGTGTTGGTGTGAAAGATTTCAATGAGACACA
GCTGGCCCGGATTGCGGACAGTAAGGATCATGTGTTTTCCCGTGAATGACGGCTTTCAGGCTCTGCAAGGC
ATCATCCACTCAATTTTGAAGAAGTCTGCATCGAAATCTAGCAGCTGAACCATCCACCATATGTGCAG
GAGAGTCAATTCAGTTGTCGTGAGAGGAAACGGCTTCCGACATGCCCGCAACGTGGACAGGGTCCCTCTG
CAGCTTCAAGATCAATGACTCGGTCACACTCAATGAGAAGCCCTTTTCTGTGGAAGATACTTATTTACTG
TGTCACGCGCCTATCTTAAAAGAAGTTGGCATGAAAGCTGCACCTCCAGGTGAGCATGAACGATGGCCTCT
CTTTTATCTCCAGTTCTGTATCATCACCACCACACACTGTTCTGACGGTCCATCCTGGCCATCGCCCT
GCTGATCCTGTTCTGCTCCTAGCCCTGGCTCTCCTCTGGTGGTTCTGGCCCTCTGCTGCACTGTGATT
ATCAAGGAGTCCCTCCACCCCTGCCGAGGAGAGTGAGGAAAATAAAATAAAATAA

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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_053034 unedited GCACGAGGCCCGACCGAGGCAGCCCTCCCTTTAAAAGAAGCGGAGGACAGGATTGGGA TCCTTGAAACCCGAAACCCAGAAACAGCATCGGAGCGGAAACAGAGGGGAAACCTTGAA CTCCTCCAGACAATTGCTTCCGGGGAGTTGCGAGGGAGCGAGGGGGAATAAAGGACCCGC GAGGAAGGGCCCGCGGATGGCGCGTCCCTGAGGGTCGTGGCGAGTTCGCGGAGCGTGGGA AGGAGCCGACCCCTGCTCTCCCCGGGTGCGGGCCATGGCCACGGCGGAGCGGAGAGCCCT CGGCATCGGCTTCCAGTGGCTCTCTTTGGCCACTCTGGTGCTCATCTGCGCCGGGCAAGG GGGACGCAGGGAGGATGGGGTCCAGCCTGCTACGGCGGATTTGACCTGTACTTCATTTT GGACAAATCAGGAAGTGTGCTGCACCACTGGAATGAAATCTATTACTTTGTGGAACAGTT GGCTCACAAATTCATCAGCCACAGTTGAGAATGTC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_053034
<b>Insert Size:</b>	5000 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<a href="#">NM_053034.1</a> , <a href="#">NP_444262.1</a>
<b>RefSeq Size:</b>	1454 bp
<b>RefSeq ORF:</b>	1107 bp
<b>Locus ID:</b>	84168
<b>UniProt ID:</b>	<a href="#">Q9H6X2</a>
<b>Cytogenetics:</b>	2p13.3
<b>Domains:</b>	VWA
<b>Protein Families:</b>	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 (2) has an alternative 3' coding region and 3' UTR segment and lacks multiple segments, compared to variant 1. The resulting protein (isoform 2) has a shorter and distinct C-terminus when it is compared to isoform 1.