

Product datasheet for **RG218473**

TEM8 (ANTXR1) (NM_053034) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TEM8 (ANTXR1) (NM_053034) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TEM8
Synonyms: ATR; GAPO; TEM8
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG218473 representing NM_053034
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCACGGCGGAGCGGAGAGCCCTCGGCATCGGCTTCCAGTGGCTCTCTTTGGCCACTCTGGTGTCTCA
 TCTGCGCCGGCAAGGGGACGCAGGGAGGATGGGGTCCAGCCTGTACGGCGGATTTGACCTGTACTT
 CATTGGACAAATCAGGAAGTGTGCTGCACCACTGGAATGAAATCTATTACTTTGTGGAACAGTTGGCT
 CACAAATTCATCAGCCACAGTTGAGAATGTCCTTTATTGTTTTCTCCACCCGAGGAACAACCTTAATGA
 AACTGACAGAAGACAGAGAACAATCCGTCAAGGCCTAGAAGAACTCCAGAAAGTTCTGCCAGGAGGAGA
 CACTTACATGCATGAAGATTTGAAAGGCCAGTGAGCAGATTTATTATGAAAACAGACAAGGGTACAGG
 ACAGCCAGCGTCATCATTGCTTTGACTGATGGAGAACTCCATGAAGATCTCTTTTCTATTTCAGAGAGGG
 AGGCTAATAGGTCTCGAGATCTTGGTGCAATTGTTACTGTGTTGGTGTGAAAGATTTCAATGAGACACA
 GCTGGCCCGGATTGCGGACAGTAAGGATCATGTGTTCCCGTGAATGACGGCTTTCAGGCTCTGCAAGGC
 ATCATCCACTCAATTTGAAGAAGTCTGCATCGAAATTTAGCAGCTGAACCATCCACCATATGTGCAG
 GAGAGTCAATTTCAAGTTGTCGTGAGAGGAAACGGCTTCCGACATGCCCGCAACGTGGACAGGGTCCCTCTG
 CAGCTTCAAGATCAATGACTCGGTCACACTCAATGAGAAGCCCTTTTCTGTGGAAGACACTTATTTACTG
 TGCCAGCGCCTATCTTAAAAGAAGTTGGCATGAAAGCTGCATCCAGGTCAGCATGAACGATGGCCTCT
 CTTTTATCTCCAGTTCTGTCATCATCACCACCACACTGTTCTGACGGTCCATCCTGGCCATCGCCCT
 GCTGATCTGTTCTGCTCCTAGCCCTGGCTCTCTCTGGTGGTTCTGGCCCTCTGCTGCACTGTGATT
 ATCAAGGAGGTCCTCCACCCCTGCCAGGAGAGTGAGGAAAATAAAATAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_053034

ORF Size: 1104 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_053034.1](#), [NP_444262.1](#)

RefSeq Size: 1454 bp

RefSeq ORF: 1107 bp

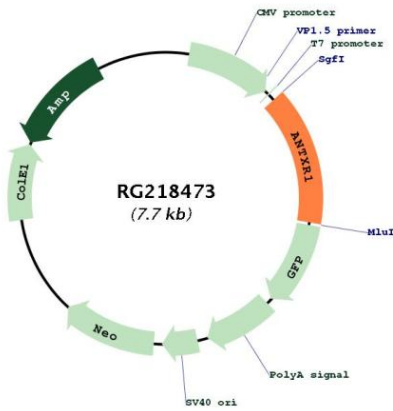
Locus ID: 84168

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]

Product images:



Circular map for RG218473