

Product datasheet for **RG203484**

5T4 (TPBG) (NM_006670) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	5T4 (TPBG) (NM_006670) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	5T4
Synonyms:	5T4; 5T4AG; M6P1; WAIF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203484 representing NM_006670 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGGGGTGCTCCGGGGCCCCGCCGGGGACGGGCGTCTGCGGCTGGCGGACTAGCGCTGG
TACTCCTGGGCTGGGCTCCTCGTCTTCTCCACCTCCTCGGCATCCTCCTTCTCCTCCTCGCGCCGT
CCTGGCTCCGCCGTGTCCGCCAGCCCCGCTGCCGGACCAAGTCCCCGCGCTGTGCGAGTGTCCGAG
GCAGCGGCACAGTCAAGTGCCTAACCGCAATCTGACCGAGGTGCCACGGACCTGCCCGCTACGTGC
GCAACCTCTTCTTACCGCAACCAGCTGGCCGTGCTCCCTGCCGGCGCCTTCGCCCGCCGGCCCGCT
GGCGGAGCTGGCCGCGCTCAACCTCAGCGGCAGCCGCTGGACGAGGTGCGCGCGGGCGCCTTCGAGCAT
CTGCCAGCCTGCGCCAGCTCGACCTCAGCCACAACCCACTGGCCGACCTCAGTCCCTTCGCTTCTCGG
GCAGCAATGCCAGCGTCTCGGCCCCAGTCCCCTTGTTGAACTGATCCTGAACCACATCGTGCCCCCTGA
AGATGAGCGGCAGAACCGGAGCTTCGAGGGCATGGTGGTGGCGGCCCTGCTGGCGGGCCGTGCACTGCAG
GGGCTCCGCCGCTTGAGCTGGCCAGCAACCACTTCTTTACCTGCCCGGGATGTGCTGGCCCAACTGC
CCAGCCTCAGGCACCTGGACTTAAGTAATAATTCGCTGGTGGAGCCTGACCTACGTGCTTCCGCAACCT
GACACATCTAGAAAGCCTCCACCTGGAGGACAATGCCCTCAAGTCTTCACAATGGCACCTGGCTGAG
TTGCAAGTCTACCCACATTAGGTTTTCTGGACAACAATCCCTGGGCTGCGACTGCCACATGGCAG
ACATGGTGACCTGGCTCAAGGAAACAGAGGTAGTGCAGGGCAAAGACCGGCTCACCTGTGCATATCCGGA
AAAAATGAGGAATCGGGTCTTGGAACTCAACAGTGTGACCTGGACTGTGACCCGATTCTTCCCCCA
TCCCTGAAAACCTCTTATGTCTTCTGGTATTGTTTTAGCCCTGATAGCGCTATTTTCTCCTGGTTT
TGTATTTGAACCGCAAGGGGATAAAAAAGTGGATGCATAACATCAGAGATGCCTGCAGGGATCACATGGA
AGGGTATCATTACAGATATGAAATCAATGCGGACCCAGATTACGAACCTCAGTTCTAACTCGGATGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203484 representing NM_006670
 Red=Cloning site Green=Tags(s)

MPGGCSRGAAGDGRLLARLALVLLGWVSSSPTSSASSFSSSAPFLASAVSAQPPLPDQCPALCECE
 AARTVKCVNRNLTEVPTDLPAYVRNLF LTGNQLAVLPAGAFARRPPLAELALNL SGRSRLDEV RAGAFEH
 LPSLRQLDL SHNPLADLSPFAFSGSNASVSAPSPLVELILNHI VPPEDERQNR SFEGMVVAALLAGRALQ
 GLRRLELASNHFLYLPRDVLAQLPSLRHLDL SNNLSVSLTYVSFRNLTHLES LHLEDNALKVLHNGTLAE
 LQGLPHIRVFLDNNPWVCDCHMADMTWLKETEVVQGKDRLTCAYPEKMRNRV LLELNSADLDCDPILPP
 SLQTSYVFLGIVLALIGAIFLLVLYLNRKGIKWMHNIRDACRDHMEGYHYRYEINADPRLTNLSSNSDV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006670

ORF Size: 1260 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_006670.5](#)

RefSeq Size: 2379 bp

RefSeq ORF: 1263 bp

Locus ID: 7162

UniProt ID: [Q13641](#)

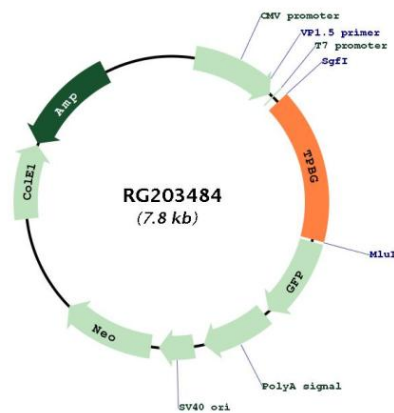
Cytogenetics: 6q14.1

Domains: LRRNT, LRRCT, LRR, LRR_TYP

Protein Families: Transmembrane

Gene Summary: This gene encodes a leucine-rich transmembrane glycoprotein that may be involved in cell adhesion. The encoded protein is an oncofetal antigen that is specific to trophoblast cells. In adults this protein is highly expressed in many tumor cells and is associated with poor clinical outcome in numerous cancers. Alternate splicing in the 5' UTR results in multiple transcript variants that encode the same protein. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RG203484