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Product datasheet for SC115948

5T4 (TPBG) (NM_006670) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	5T4 (TPBG) (NM_006670) Human Untagged Clone
Tag:	Tag Free
Symbol:	5T4
Synonyms:	5T4; 5T4AG; M6P1; WAIF1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene sequence for NM_006670 edited
GAATTCGGCACGAGGGGGGAATCGGCCCCTGAGGGAAGCGCCCGGTGGCGAGGGGGTTAG
CCAAGTTCCGGCTGCGGCGCCACTCCCTCGGTTCCACGAGAGGAAAGTTTTTTTTTTCCA
GACGCTTCCGCCGGCTCGCGCCCTCCGGGCCCAGCCTCCCGAGCCTTCGGAGCGGGCGCC
GTCCCAGCCCAGCTCCGGGGAAACGCGAGCCGCGATGCCTGGGGGGTGCTCCCGGGGCCC
CGCCGCCGGGGACGGGCGTCTGCGGCTGGCGCGACTAGCGCTGGTACTCCTGGGCTGGGT
CTCCTCGTCTTCTCCCACCTCCTCGGCATCCTCCTTCTCCTCCTCGGCGCCGTTCCTGGC
TTCCGCCGTGTCCGCCCAGCCCCCGCTGCCGGACCAGTGCCCCGCGCTGTGCGAGTGCTC
CGAGGCAGCGCGCACAGTCAAGTGCGTTAACCGCAATCTGACCGAGGTGCCCACGGACCT
GCCCGCCTACGTGCGCAACCTCTTCCTTACCGGCAACCAGCTGGCCGTGCTCCCTGCCGG
CGCCTTCGCCCGCCGGCCGCCGCTGGCGGAGCTGGCCGCGCTCAACCTCAGCGGCAGCCG
CCTGGACGAGGTGCGCGCGGGCGCCTTCGAGCATCTGCCCAGCCTGCGCCAGCTCGACCT
CAGCCACAACCCACTGGCCGACCTCAGTCCCTTCGCTTTCTCGGGCAGCAATGCCAGCGT
CTCGGCCCCCAGTCCCCTTGTGGAACTGATCCTGAACCACATCGTGCCCCCTGAAGATGA
GCGGCAGAACCGGAGCTTCGAGGGCATGGTGGTGGCGGCCCTGCTGGCGGGCCGTGCACT
GCAGGGGCTCCGCCGCTTGGAGCTGGCCAGCAACCACTTCCTTTACCTGCCGCGGGATGT
GCTGGCCCAACTGCCCAGCCTCAGGCACCTGGACTTAAGTAATAATTCGCTGGTGAGCCT
GACCTACGTGTCCTTCCGCAACCTGACACATCTAGAAAGCCTCCACCTGGAGGACAATGC
CCTCAAGGTCCTTCACAATGGCACCCTGGCTGAGTTGCAAGGTCTACCCCACATTAGGGT
TTTCCTGGACAACAATCCCTGGGTCTGCGACTGCCACATGGCAGACATGGTGACCTGGCT
CAAGGAAACAGAGGTAGTGCAGGGCAAAGACCGGCTCACCTGTGCATATCCGGAAAAAAT
GAGGAATCGGGTCCTCTTGGAACTCAACAGTGCTGACCTGGACTGTGACCCGATTCTTCC
CCCATCCCTGCAAACCTCTTATGTCTTCCTGGGTATTGTTTTAGCCCTGATAGGCGCTAT
TTTCCTCCTGGTTTTGTATTTGAACCGCAAGGGGATAAAAAAGTGGATGCATAACATCAG
AGATGCCTGCAGGGATCACATGGAAGGGTATCATTACAGATATGAAATCAATGCGGACCC
CAGATTAACAAACCTCAGTTCTAACTCGGATGTCTGAGAAATATTAGAGGACAGACCAAG
GACAACTCTGCATGAGATGTAGACTTAAGCTTTATCCCTACTAGGCTTGCTCCACTTTCA
TCCTCCACTATAGATACAACGGACTTTGACTAAAAGCAGTGAAGGGGATTTGCTTCCTTG
TTATGTAAAGTTTCTCGGTGTGTTCTGTTAATGTAAGACGATGAACAGTTGTGTATAGTG
TTTTACCCTCTTCTTTTTCTTGGAACTCCTCAACACGTATGGAGGGATTTTTCAGGTTTC
AGCATGAACATGGGCTTCTTGCTGTCTGTCTCTCTCTCAGTACAGTTCAAGGTGTAGCAA
GTGTACCCACACAGATAGCATTCAACAAAAGCTGCCTCAACTTTTTCGAGAAAAATACTT
TATTCATAAATATCAGTTTTATTCTCATGTACCTAAGTTGTGGAGAAAATAATTGCATCC
TATAAACTGCCTGCAGACGTTAGCAGGCTCTTCAAAATAACTCCATGGTGCACAGGAGCA
CCTGCATCCAAGAGCATGCTTACATTTTACTGTTCTGCATATTACAAAAAATAACTTGCA
ACTTCATAACTTCTTTGACAAAGTAAATTACTTTTTTGATTGCAGTTTATATGAAAATGT
ACTGATTTTTTTTTAATAAACTGCATCGAGATCCAACCGACTGAATTGTTAAAAAAAAAA
AAAATAAAGATTCTTAAAAGAAAAAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006670 unedited
CCGCATTTGTATACGACTCCTATAGGCGGCCGCGNAATTCGCACCGGGGGGAATCGGCCC
CTGAGGGAAGCGCCCGGTGGCGAGGGGGTTAGCCAAGTTCCGGCTGCGGCGCCACTCCCT
CGGTTCCACGAGAGGAAAGTTTTTTTTTTCCAGACGCTTCCGCCGGCTCGCGCCCTCCGG
GCCCAGCCTCCCGAGCCTTCGGAGCGGGCGCCGTCCCAGCCCAGCTCCGGGGAAACGCGA
GCCGCGATGCCTGGGGGGTGCTCCCGGGGCCCCGCCGCCGGGGACGGGCGTCTGCGGCTG
GCGCGACTAGCGCTGGTACTCCTGGGCTGGGTCTCCTCGTCTTCTCCCACCTCCTCGGCA
TCCTCCTTCTCCTCCTCGGCGCCGTTCCTGGCTTCCGCCGTGTCCGCCCAGCCCCCGCTG
CCGGACCAGTGCCCCGCGCTGTGCGAGTGCTCCGAGGCAGCGCGCACAGTCAAGTGCGTT
AACCGCAATCTGACCGAGGTGCCCACGGACCTGCCCGCCTACGTGCGCAACCTCTTCCTT
ACCGGCAACCAGCTGGCCGTGCTCCCTGCCGGCGCCTTCGCCCGCCGGCCGCCGCTGGCG
GAGCTGGCCGCGCTCAACCTCAGCGGCAGCCGCCTGGACGAGGTGCGCGCGGGCGCCTTC
GAGCATCTGCCCAGCCTGCGCCAGCTCGACCTCAGCCACAACCCACTGGCCGACCTCAGT
CCCTTCGCTTTCTCGGGCAGCAATGCCAGCGTCTCGGCCCCCAGTCCCCTTGTGGAACTG
ATCCTNGACCACATCGTGCCCCCCTGNAAGAGANCGGCAGAACCGGAGCTTCNAGGGCAT
GGTGGTGGGCGCCCTGCTGGCGGGCCGTGCACTGCAGGGGCTCCGNCGCTTGGAGCTGGN
CAGCACCACTTNCTTTACTGNCGGGGAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006670 unedited
ACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTCTTTTAAAAATC
TTTATTTTTTTTTTTTTTTAACAATTCAGTCGGTTGGATCTCGATGCAGTTTATTAAAAAA
AAATCAGTACATTTTCATATAAACTGCAATCAAAAAAGTAATTTACTTTGTCAAAGAAGT
TATGAAGTTGCAAGTTATTTTTTGTAATATGCAGAACAGTAAAATGTAAGCATGCTCTTG
GATGCAGGTGCTCCTGTGCACCATGGAGTTATTTTGAAAAGCCTGCTAACGTCTGCAGGC
AGTTTATAGGATGCAATTATTTTCTCCACAACTTAGGTACATGAGAATAAAACTGATATT
TATGAATAAAGTATTTTTCTCGAAAAAGTTGAGGCAGCTTTTGTTGAATGCTATCTGTGT
GGGTACACTTGCTACACCTTGAACTGTACTGAGAGAGAGACAGACAGCAAGAAGCCCATG
TTCATGCTGAAACCTGAAAAATCCCTCCATACGTGTTGAGGAGTTCCAAGAAAAAGAAGA
GGGTAAAACACTATACACAACTGTTCATCGTCTTACATTAACAGAACACACCGAGAAACT
TTACATAACAAGGAAGCAAAACCCCTTCACTGTTTTTAGACAAAGCCCGTTGTATTCTAT
AGTGGAGGATGAAAGTGGAGCAAGCCTACTATGGATAAAAGCTAAGCCTACATCTCATGC
CAAGGTGACCTTGGTCCTGCCCTCCAATAATTCCTCACACATCCGGAGTAGCACCTGAAG
TTTGTTAATTCTGGGGGCCCCATTGATTTCATATCTGGAATGGAACCCTCTCCTGGGAAC
CCCTGCAGGCATTCTCTGAAGTTAGGCCTCACCTTTTTTATCCCCTTGGGGCGTAAAAAC
CAACCCGGGGGGAAATACCGCCTATCGGGCCTACACAACTCCCGGAAGACTCTAGAG

Restriction Sites: NotI-NotI

ACCN: NM_006670

Insert Size: 2150 bp

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
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_006670.3, NP_006661.1
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] Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.