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Product datasheet for RC230049

5T4 (TPBG) (NM_001166392) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	5T4 (TPBG) (NM_001166392) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	5T4
Synonyms:	5T4; 5T4AG; M6P1; WAIF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC230049 representing NM_001166392
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTGGGGGGTGCTCCCGGGGCCCCGCCGCCGGGGACGGGCGTCTGCGGCTGGCGCGACTAGCGCTGG
TACTCCTGGGCTGGGTCTCCTCGTCTTCTCCCACCTCCTCGGCATCCTCCTTCTCCTCCTCGGCGCCGTT
CCTGGCTTCCGCCGTGTCCGCCCAGCCCCCGCTGCCGGACCAGTGCCCCGCGCTGTGCGAGTGCTCCGAG
GCAGCGCGCACAGTCAAGTGCGTTAACCGCAATCTGACCGAGGTGCCCACGGACCTGCCCGCCTACGTGC
GCAACCTCTTCCTTACCGGCAACCAGCTGGCCGTGCTCCCTGCCGGCGCCTTCGCCCGCCGGCCGCCGCT
GGCGGAGCTGGCCGCGCTCAACCTCAGCGGCAGCCGCCTGGACGAGGTGCGCGCGGGCGCCTTCGAGCAT
CTGCCCAGCCTGCGCCAGCTCGACCTCAGCCACAACCCACTGGCCGACCTCAGTCCCTTCGCTTTCTCGG
GCAGCAATGCCAGCGTCTCGGCCCCCAGTCCCCTTGTGGAACTGATCCTGAACCACATCGTGCCCCCTGA
AGATGAGCGGCAGAACCGGAGCTTCGAGGGCATGGTGGTGGCGGCCCTGCTGGCGGGCCGTGCACTGCAG
GGGCTCCGCCGCTTGGAGCTGGCCAGCAACCACTTCCTTTACCTGCCGCGGGATGTGCTGGCCCAACTGC
CCAGCCTCAGGCACCTGGACTTAAGTAATAATTCGCTGGTGAGCCTGACCTACGTGTCCTTCCGCAACCT
GACACATCTAGAAAGCCTCCACCTGGAGGACAATGCCCTCAAGGTCCTTCACAATGGCACCCTGGCTGAG
TTGCAAGGTCTACCCCACATTAGGGTTTTCCTGGACAACAATCCCTGGGTCTGCGACTGCCACATGGCAG
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TCCCTGCAAACCTCTTATGTCTTCCTGGGTATTGTTTTAGCCCTGATAGGCGCTATTTTCCTCCTGGTTT
TGTATTTGAACCGCAAGGGGATAAAAAAGTGGATGCATAACATCAGAGATGCCTGCAGGGATCACATGGA
AGGGTATCATTACAGATATGAAATCAATGCGGACCCCAGATTAACAAACCTCAGTTCTAACTCGGATGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

>RC230049 representing NM_001166392
Red=Cloning site Green=Tags(s)

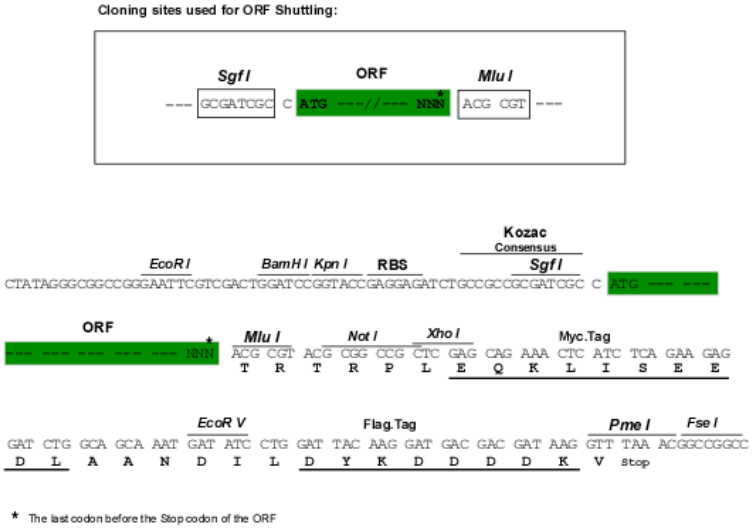
MPGGCSRGPAAGDGRLRLARLALVLLGWVSSSSPTSSASSFSSSAPFLASAVSAQPPLPDQCPALCECSE
AARTVKCVNRNLTEVPTDLPAYVRNLFLTGNQLAVLPAGAFARRPPLAELAALNLSGSRLDEVRAGAFEH
LPSLRQLDLSHNPLADLSPFAFSGSNASVSAPSPLVELILNHIVPPEDERQNRSFEGMVVAALLAGRALQ
GLRRLELASNHFLYLPRDVLAQLPSLRHLDLSNNSLVSLTYVSFRNLTHLESLHLEDNALKVLHNGTLAE
LQGLPHIRVFLDNNPWVCDCHMADMVTWLKETEVVQGKDRLTCAYPEKMRNRVLLELNSADLDCDPILPP
SLQTSYVFLGIVLALIGAIFLLVLYLNRKGIKKWMHNIRDACRDHMEGYHYRYEINADPRLTNLSSNSDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2637_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001166392

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).

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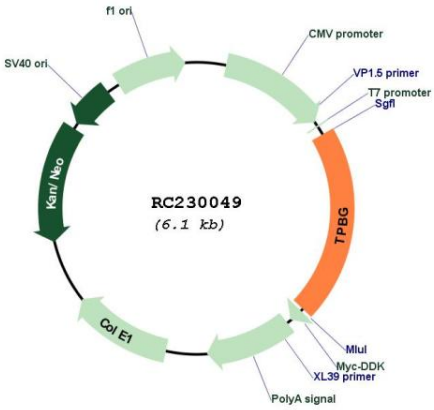
Reconstitution Method:

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_001166392.1, NP_001159864.1
RefSeq Size:	2881 bp
RefSeq ORF:	1263 bp
Locus ID:	7162
UniProt ID:	Q13641
Cytogenetics:	6q14.1
Protein Families:	Transmembrane
MW:	46 kDa
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 RC230049

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