

# Product datasheet for RG230049

### 5T4 (TPBG) (NM\_001166392) Human Tagged ORF Clone

#### **Product data:**

ACCN:

ORF Size:

Product Type:	Expression Plasmids
Product Name:	5T4 (TPBG) (NM_001166392) 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)
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling:
	Sgf1         ORF         Miu I            GCGATCGC         C         ATG          NAT         ACG         CGT

EcoR I

Nhe I Rsr II

Hind III

NM\_001166392

1260 bp

BamH I Kpn I

Fse I

Mlu I 
 Hind III
 Nhe I
 Rsr II
 Miu I
 Not I
 Xho I
 GFP Tag

 CAAGCTTAACTAGCGACGGACGGACG
 ACG CGT ACG CGG CGC CGC GAG ATG GAG AGG GAC
 T
 R
 T
 R
 P
 L
 E
 M
 E
 S
 D

Pme I --- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT - E E R V stop

RBS

Kozac Sgf I

Asc I

GFP Tag

#### OriGene Technologies, Inc.

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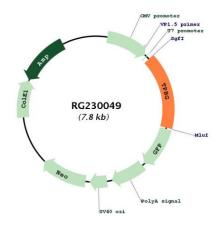


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<b>ORIGENE</b> 5T4 (1	PBG) (NM_001166392) Human Tagged ORF Clone – RG230049
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same 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. <u>More info</u>
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	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	<u>NM 001166392.2</u>
RefSeq Size:	2881 bp
RefSeq ORF:	1263 bp
Locus ID:	7162
UniProt ID:	<u>Q13641</u>
Cytogenetics:	6q14.1
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]

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## **Product images:**



Circular map for RG230049

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