

Product datasheet for **RG228611**

HSPC302 (TBCK) (NM_001163436) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSPC302 (TBCK) (NM_001163436) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TBCK
Synonyms:	HSPC302; IHPRF3; TBCKL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228611 representing NM_001163436
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTTCCCTGAAGGACGCTGAAATGGGAGCCTTACCTTCTTTGCCTCGGCTCTGCCACATGATGTTT
 GTGGAAGCAATGGACTTCTCTCACACCAAATTCATCAAAATTTAGGGCGCTTCAAATCCTTAAAC
 CATCACCCATCCCAGACTCTGCCAGTATGTGGATATTTCTAGGGGAAAGCATGAACGACTAGTGGTCGTG
 GCTGAACATTGTGAACGTAGTCTGGAAGACTTGCTTCGAGAAAGGAAACCTGTGAGCTGTTCAACGGTTT
 TGTGTATAGCATTGAGGTTCTTCAGGGCTTGCAGTATATGAACAAACATGGTATAGTACACAGGCATT
 GTCTCCTCATAATATCCTGTTGGACCGAAAGGGACATATTAATTTGGCTAAATTTGGACTTTATCACATG
 ACAGCTCATGGTATGATGTTGATTTCCCAATAGGGTATCCCTCGTACTTGGCCCTGAGGTAATTGCAC
 AGGGAATTTCAAACCCTGATCACATGCCAAGTAAAAACCATTCCTTCTGGCCCAAATCAGATGT
 ATGGTCTCTTGAATCATTTTATTTGAGCTTTGTGTGGGAAGAAAATTTTCAGAGCTTGATATTTCT
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 GTTGTGGACATTATAAAGGAGCTTCTGAAACTGTGATAGATCTTTGAATAAGTGCCTTACCTTCCA
 TCCTTCTAAGAGGCCAACCCAGATGAATTAATGAAGGACAAAGTATTCAGTGAGGTATCACCTTATAT
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 CCTATCGCACACTCCCAATTTCTCTTTGAGGATGGTAAAGCTTTGGACAAGGTCGAGATGAAAGCT
 CGCTTTTAGATGATACCCTGTGACATTTGCTGTTATGCCAGCTAAGAAAATAGATTGAAGATGTTGGTGG
 AGAAGCATTTTACCCATTACTTGAAGATGACCAGTCTAATTTACCTCATTCAAACAGCAATATGAGTTG
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 TCTTCGACAGGCTGCTAAAGGCTTATCCATATAAAAAAACCAATCTGGAAAGAAGCAAGATTGACAT
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 AGTACGATGAAGTGTATCATCACCAGAAGGTCATGCAAAATTTAGGCGTGTATTAAGCCTGGGTAGT
 GTCTCATCCTGATCTTGTGATTGGCAAGGCTTGACTCACTTTGTGCTCCATTCCTATATCTAACTTC
 AATAATGAAGCCTTGGCTTATGCATGTATGCTGCTTTTATCCCAAATACCTGTATAACTTCTTCTTAA
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 TTTACTCATGATTTCCACTACACAAAATTTCCACCTCTGGGATACCTTACTACTTGGGAATTCCTCTT
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 AGATGAAATATCCAAGAATCTGTATTCTAGATGGTGGCATTAAATAAAATAAAGCCAACAGGCCTCCTCAC
 CATCCCATCTCTCAAATA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG228611 representing NM_001163436
 Red=Cloning site Green=Tags(s)

MFPLKDAEMGAFTFFASALPHDVCGSNGLPLTPNSIKILGRFQILKTITHPRLCQYVDISRKGHERLVVV
 AEHCERSLEDLLRERKPVSCSTVLCIAFEVLQGLQYMNKHGIVHRALSPHNILLDRKGHIKLAKFGLYHM
 TAHGDDVDVDFPIGYPSYLAPEVIAQGIKTTDHMPSSKKPLPSGPKSDVWSLGIILFELCVGRKLFQSLDIS
 ERLKFLLLTDCVDDTLIVLAEHGLDIIKELPETVIDLLNKCLTFHPSKRPTPDELMKDKVFEVSPPLY
 TPFTKPASLFSSSLRCADLTLPEDISQLCKDINNNDYLAERSIEEVYYLWCLAGGDLEKELVNKEIIRSKP
 PICTLPNPLFEDGESFQGQRDRSSLLDDTTVTLSLQLRNRLKDVGGAEFYPLEDDQSNLPHSNSNNE
 SAAATLPLIIREKDTEYQLNRIILFDRLKAYPYKKNQIWKEARVDIPPLMRGLTWAALLGVEGAIHAKY
 DAIDKDTPIPTDRQIEVDIPRCHQYDELLSSPEGHAKFRRVLKAWVVSHPDLVYWQGLDSLCAFLYLN
 NNEALAYACMSAFIPKYLNFLLKDNSHVIQEYLVFVSQMIAFHDPPELNLHNEIGFIPDLYAIWFLTM
 FTHVFPLHKIFHLWDTLLGNSSFPFCIGVAILQQLRDRLLANGFNECILLFSDLPEIDIERCVRESINL
 FCWTPKSATYRQHAQPPKSSDSSGGRSSAPYFSAECPDPPKTDLSRESIPLNDLKSEVSPRISAEDLID
 LCELTVTGHFKTPSKKTKSSKPKLLVVDIRNSEDFIGRHISGSINIPFSAFTAEGELTQGPYTAMLQNF
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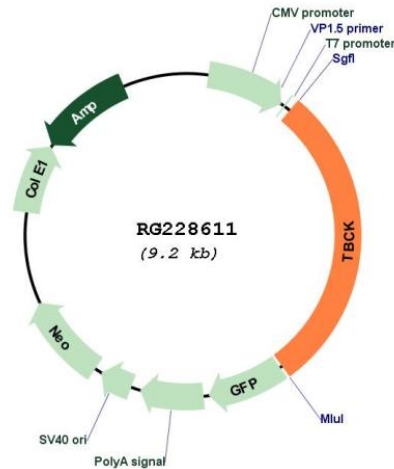
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001163436

ORF Size: 2679 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_001163436.2](#), [NP_001156908.1](#)

RefSeq Size: 3362 bp

RefSeq ORF: 2682 bp

Locus ID: 93627

UniProt ID: [Q8TEA7](#)

Cytogenetics: 4q24

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene encodes a protein that contains a protein kinase domain, a Rhodanase-like domain and the Tre-2/Bub2/Cdc16 (TBC) domain. The encoded protein is thought to play a role in actin organization, cell growth and cell proliferation by regulating the mammalian target of the rapamycin (mTOR) signaling pathway. This protein may also be involved in the transcriptional regulation of the components of the mTOR complex. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]