

Product datasheet for **SC337305**

HSPC302 (TBCK) (NM_001290768) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSPC302 (TBCK) (NM_001290768) Human Untagged Clone
Tag:	Tag Free
Symbol:	TBCK
Synonyms:	HSPC302; IHPRF3; TBCKL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001290768, the custom clone sequence may differ by one or more nucleotides

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ATGCCAAGTAAAAACCATTGCCTTCTGGCCCCAAATCAGATGTATGGTCTCTTGAATCATTTTATTTG
AGCTTTGTGTGGGAAGAAAATTATTTAGAGCTTGGATATTTCTGAAAGACTAAAAATTTTGCTTACTTT
GGATTGTGTAGATGACACTTTAATAGTTCTGGCTGAAGAGCATGGTTGTTGGACATTATAAAGGAGCTT
CCTGAAACTGTGATAGATCTTTTGAATAAGTGCCTTACCTTCCATCCTTCTAAGAGGCCAACCCAGATG
AATTAATGAAGGACAAAGTATTCAGTGAGGTATCACCTTTATATACCCCTTTTACCAAACCTGCCAGTCT
GTTTTATCTTCTCTGAGATGTGCTGATTTAACTCGCTGAGGATATCAGTCAGTTGTGTAAGATATA
AATAATGATTACCTGGCAGAAAGATCTATTGAAGAAGTGTATTACCTTTGGTGTGGCTGGAGGTGACT
TGGAGAAAGAGCTTGTCAACAAGGAAATCATTGATCCAAACCACCTATCTGCACACTCCCCAATTTTCT
CTTTGAGGATGGTAAAGCTTTGGACAAGGTCGAGATAGAAGCTCGTTTTAGATGATACCACTGTGACA
TTGTCGTTATGCCAGCTAAGAAATAGATTGAAAGATGTTGGTGGAGAAGCATTTTACCCATTACTGAAG
ATGACCAGTCTAATTTACCTCATTCAAACAGCAATAATGAGTTGTCTGCAGCTGCCACGCTCCCTTTAAT
CATCAGAGAGAAGGATACAGAGTACCAACTAAATAGAATTATTCTCTTCGACAGGCTGCTAAAGGCTTAT
CCATATAAAAAAACCAATCTGGAAAAGCAAGAGTTGACATTCCCTCCTTATGAGAGGTTTAACT
GGGCTGCTCTTCTGGGAGTTGAGGGAGCTATTCATGCCAAGTACGATGCAATTGATAAAGACTCCAAT
TCCTACAGATAGACAAAATGAAGTGGATATTCCTCGCTGTATCAGTACGATGAACTGTTATCATACCA
GAAGGTCATGCAAAAATTAGGCGTGTATTAAGCCTGGGTAGTGTCTCATCCTGATCTTGTGATTGGC
AAGGCTTGACTCACTTTGTGCTCCATTCCTATATCTAACTCAATAATGAAGCCTTGGCTTATGCATG
TATGTCTGCTTTTATCCCAAATACCTGTATAACTTCTTCTTAAAAGACAACCTCACATGTAATAAAGAG
TATCTGACTGTCTTCTCAGATGATTGCATTTTCATGATCCAGAGCTGAGTAATCATCTCAATGAGATTG
GTTTCATTCCAGATCTCTATGCCATCCCTTGGTTTCTTACCATGTTTACTCATGTATTTCCACTACACAA
AATTTTCCACCTCTGGGATACCTTACTACTTGGGAATTCCTTTCCATTCTGTATTGGAGTAGCAATT
CTTCAGCAGCTGCGGGACCGGCTTTTGGCTAATGGCTTAAATGAGTGTATTCTTCTCTTCTCCGATTAC
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TTACAGACAGCATGCTCAACCTCCAAAGCCATCTTCTGACAGCAGTGGAGGCAGAAGTTCGGCACCTTAT
TTCTCTGCTGAGTGTCCAGATCTCCAAAGACAGATCTGTCAAGAGAATCCATCCCATTAATGACCTGA
AGTCAGAAATACACCACGGATTTACAGCAGAGGACCTGATTGACTTGTGTGAGCTCACAGTGACAGGCCA
CTTCAAAACACCCAGCAAGAAAACAAAGTCCAGTAAACCAAGCTCCTGGTGGTTGACATCCGGAATAGT
GAAGACTTTATTCGTGGTCACATTTAGGAAGCATCAACATTCATTGAGTGTGCTTCACTGCAGAAG
GGGAGCTTACCCAGGGCCCTTACTGCTATGCTCCAGAACTTCAAGGGGAAGGTCATTGTCATCGTGGG
GCATGTGGCAAAACACACAGCTGAGTTTGCAGCTCACCTTGTGAAGATGAAATATCCAAGAATCTGTATT
CTAGATGGTGGCATTAAATAAAATAAAGCCAACAGGCCTCCTCACCATCCCATCTCCTCAAATATGA
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001290768

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001290768.1](#), [NP_001277697.1](#)

RefSeq Size: 5410 bp

RefSeq ORF: 2166 bp

Locus ID: 93627

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]

Transcript Variant: This variant (5) contains an alternate exon compared to variant 1. This variant represents translation initiation at a downstream AUG compared to variant 1; the 5'-most initiation codon, as used in variant 1, is associated with a truncated ORF that would render the transcript a candidate for nonsense-mediated decay (NMD). Leaky scanning may allow translation initiation at the downstream AUG resulting in a protein with a shorter N-terminus (isoform d) compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.