

Product datasheet for **SC105232**

TBC1D2 (AY026527) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBC1D2 (AY026527) Human Untagged Clone
Tag:	Tag Free
Symbol:	TBC1D2
Synonyms:	PARIS-1; PARIS1; TBC1D2A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC105232 sequence for AY026527 edited (data generated by NextGen Sequencing)

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ATGGAGGGCGCTGGGGAGAACGCCCCGGAGTCCAGCTCCTCTGCCCTGGGTCCGAAGAG
TCTGCCAGGGATCCACAGGTGCCGCTCCGGAGGAAGAATCGGGGACTGCGCCCGGTCC
CTGGAGGCGGTCCCCAAGAACTCTGTGGGTATTTAAGTAAGTTCGGCGGCAAAGGGCCC
ATCCGGGGCTGAAATCCCGCTGGTCTTCTACGACGAAAGGAAATGTCAGCTGTATTAC
TCGCGGACCGCTCAGGATGCCAATCCCTTGACAGCATCGACCTCTCCAGTGCAGTGTTT
GACTGTAAGGCGGACGCTGAGGAGGGGATCTTCGAAATCAAGACTCCCAGCCGGGTATT
ACCCTGAAGGCCCCACCAAGCAAGCGATGCTGTACTGGCTGCAGCAGCTGCAGATGAAG
CGCTGGGAATTCACAACAGCCCGCCGACCTCTGCCACCCTGATGCCGCCCTGGCT
GGGAATGGGCCCTCCTGCACCTCGAGCTAGGGCAAGAAGAGGCAGAGCTGGAGGAGTTC
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GTGAGAGAGCCAGAGGATTCTCCAAGCCTGCACCCAAGCCTTCTCTGACCATCAGTTTC
GCTCAGAAAGCCAAGCGCCAGAACAACACCTTCCATTCTTTTCTGAAGGAATCACACGG
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Clone variation with respect to AY026527.1
 721 c=>a;758 t=>c;782 g=>t;1418 t=>c;1752 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for AY026527 unedited
 GGTCCCTCCCGGTCCCTTGCCGCTTTAGGGCGGTAGGCGGTACGGTGGGAGGTCTATAT
 AAGCAGTAGCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGC
 CGGAATTCGGCACGAGGCCGCACCCGGTCCCAGCTCTGTGGCTTCTGGGGCGGGTTC
 GCCGTGGCCCCCGCCCCGCCAGGTGTCTCCCTTTTTATCTGCCCGCCGAGTCTCCGA
 GATTTGTCCCTGGTGGTCCCGCGAACCCCTCGTCCCTCCGAGTCTCCGGCTGGCAGCGA
 TGGAGGGCGTGGGAGAACGCCCGGAGTCCAGCTCCTGCCCCGGGTCCGAAGAGT
 CTGCCAGGGATCCACAGGTGCCGCTCCGGAGGAAGAATCGGGGACTGCGCCCGTCCC
 TGGAGGGGTCCCAAGAACTCTGTGGTATTTAAGTAAGTTCGGCGGCAAAGGCCCA
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 CGCGGACCGTCAAGATGCCAATCCCTTGGACAGCATCGACCTCTCCAGTGCAGTGTTC
 ACTGTAAGGCGGACGCTGAGGAGGGATCTTCGAAATCAGACTCCAGCCGGGTATTAC
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 CTGGGGATTCCACACAGCCCGGCGCACCTCCTGCCACCCCTTATCCCGCCTGCCTGG
 GAATGGCCCCCTCCTGCCCTCAAGCTAGGGCAGAATAAGCAAAACCTGGAGGAATCCTT
 TGCCCTGTGAAAACCCCCCGGGCTATGGGCGTTGCAACTGCCTTTAAACCCCTCCCTG
 CCCTT

3' Read Nucleotide Sequence:

>OriGene 3' read for AY026527 unedited
 CATGGTACGTGCCCAATCNANGATCGGTTTTTTTTTTTTTTTTNTCCATTTACATTG
 TTTTATATTGATATAACCTAGGGAATGTTCCAGGTTACCCTATAGAGGCAGTGCCTTGC
 TTGTTTACATGCCAAAGTCTCTGTGGAAGAGGTGACGAAAGGGTGGCATCCCTGGGTAA
 GTAAGTGCCTATGAAGAAGTAGCCAACCAATGGCTTTCAGCACACAATGTCCCAGTGG
 GAAACTGAGGGCCAGAGAGGGGAAGGGACATGTCCAAGGTCACATGGTATGGGACACC
 CAGGGCTGGGCCACTGGTCCGTGCCTGACCTCCAGTGGGTCTGCCAGCCAAGGGTGAAG
 AGGCTGTGGGGAGGGGAGGTGGCCAAGTCAGGCTTCCCTCCACCTCGTCTCGCTGGC
 ACAGCCCTCGGACACAGCTCTGCGCCGGATGCCCGCCTCTCCAGTACTCTGCCTTAAG
 CTGCTCCAGCTCCCGCAGCTCAGCTCCAGCCGCTCCCGGTGGACCATGCGCAGCTGCCG
 CAGCTGTTTCATGCGGAAGGGTTCATGTCATTGAAGGCGATGTTTCATCAGCTCCGGCT
 GTTGAGATGGTCTTGGGGAAGAAGCGCAGTACTGGTAGATTTTCAGGCCATTCTGGAG
 CCTCAAGATCTCCTTCTGTTGTACTTGAAAATGGCCAAGGCATACCGAAACAACCCCTT
 CTCCCTCGTACAGGAAGGCATCCCAAACCCGAAGGAGGATGTTGCTTATGAGACTGTC
 CCCAAAGACCCCGAGGAACCCCTTTGAAGTGACGAGGGAGAGATCCACCTGGTGTCTGCC
 CCAAATGGCCCTCAACCTGGGCGGGTTTTCCGAAGGCAGTTCTGTGACACCCCGTGGT
 CCACCTGGGGTCCCTCAGCGTGTGGCATATTAATAACAACGGATTGATGTGTTCCACCA
 TGGCCCCACGTCCCGCA

Restriction Sites:

NotI-NotI

ACCN:

AY026527

Insert Size:

3500 bp

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: [AY026527.1](#), [AAK07684.1](#)

RefSeq Size: 3257 bp

RefSeq ORF: 2754 bp

Locus ID: 55357

Cytogenetics: 9q22.33

Domains: TBC, PH

Gene Summary: Acts as GTPase-activating protein for RAB7A. Signal effector acting as a linker between RAC1 and RAB7A, leading to RAB7A inactivation and subsequent inhibition of cadherin degradation and reduced cell-cell adhesion.[UniProtKB/Swiss-Prot Function]