

Product datasheet for **SC111762**

TRIOBP (NM_007032) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRIOBP (NM_007032) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRIOBP
Synonyms:	DFNB28; dJ37E16.4; HRIHFB2122; TAP68; TARA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_007032, the custom clone sequence may differ by one or more nucleotides

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ATGGGCGGATGGAAGGGGCCGGGCGAGCGTCGGGGAAGGAAGGGCCGGAGGCGGGCGGGCGGGCGGCCG
AGAGGGGCGGGCGGGCGGGCGGGGTTCCCGCGCCGCGGAGCCCGGCCGAGAGCCGCGTCCACG
TTCCTGCCTCCTGCTCCCGCCCTGGGGCGCCGATGACGCCGATCTGCTCAACTTCAAGAAGGGA
TGGATGTCGATCTTGGACGAGCCTGGAGAGCCTCCCTCCCTCGCTCACCACCACCTCTACTTCGAGT
GGAAGAAACATTGGTTTGTGCTGACAGATTCAAGTCTCAAATATTACAGAGACTCCACTGCTGAGGAGGC
AGATGAGCTGGATGGTGAGATCGACCTGCGTTCCTGCACGGATGTCACTGAGTACGCGGTGCAGCGCAAC
TATGGCTTCCAGATCCACACCAAGGATGCTGTCTATACCTTGTGCGCCATGACCTCAGGCATCCGGCGGA
ACTGGATCGAGGCTCTGAGAAAGACCGTACGTCCAACCTCAGCCCCAGATGTACCAAGCTCTCGGACTC
TAACAAGGAGAACGCGCTGCACAGCTACAGCACCAGAAGGGCCCCCTGAAGGCAGGGGAGCAGCGGGCG
GGCTCTGAGGTCATCAGCCGGGGTGGCCCTCGGAAGGCGGACGGGCAGCGTCAGGCCTTGAGTACGTGG
AGCTCTCGCCGCTGACCCAGGCTTCCCGCAGCGGGCCCGCACCAGCCGCACTCCTGACCGCTGGC
CAAGCAGGAGGAGCTGGAGCGGGACCTGGCCAGCGCTCCGAGGAGCGGCGCAAGTGGTTTGAGGCCACA
GACAGCAGGACCCAGAGGTGCCTGCTGGTGAGGGGCCGCGCGGGGCTGGGTGCCCCCTGACTGAGG
ACCAGCAAAACCGGCTTAGTGAGGAGATCGAGAAGAAGTGGCAGGAGCTGGAGAAGCTGCCCTGCGGGA
GAATAAGCGGGTGCCCTCACTGCCCTGCTCAACCAAGCCGCGGAGAGCGCCGAGGGCCCCCAAGTGAC
GGCCACGAGGCACTGGAGAAGGAGGTTCAAGGCTCTTGGGCGCCAGCTGGAGGCGTGGCGTCTCAAGGGG
AGGCTCCTCAGAGTGCAGTGCAGAGGATGGCCACATCCCCCGGGCTACATCTCACAGGAGGC
ATGTGAGCGCAGCCTGGCAGAGATGGAGTCTCGCACCAGCAGGTGATGGAGGAGCTGCAGCGGCACCAC
GAGCGGGAGCTGCAGCGCTGCAGCAGGAGAAGGAGTGGCTCCTGGCTGAGGAGACGGCACGCCAGCGCT
CAGCCATTGAAGCCATGAAGAAGGCTACCAGGAAGAGCTGAGCCGAGAGCTGAGCAAAACACGGAGTCT
CCAGCAGGGCCCGATGGCTCCGGAAGCAGCACCAGTCAAGTGTGGAGGCACTGAAGCGAGAGCTGCAG
GTGCTATCGGAGCAGTACTCGCAGAAGTGCCTGGAGATTGGGGCACTCATGCGGCAGGCTGAGGAGCGCG
AGCACACGCTGCGCCGCTGCCAGCAGGAGGGCCAGGAGCTGCTGCGCCACAACCAGGAGCTGCATGGCCG
CCTGTGAGGAGATAGACCAGCTGCGCGGCTTATTGCTCGCAGGCGATGGGCAATGGCTGCGGGCGC
AGCAACGAGCGGAGTTCTGCGAGCTAGAGGTGCTGCTTCGCGTAAAAGAAAACGAACTCCAGTACCTAA
AGAAGGAGGTGCAGTGCCTCCGGGACGAGCTCCAGATGATGCAGAAGGACAAGCGCTTCACTCGGGAAA
GTACCAGGACGTCTATGTGGAGCTGAGCCACATCAAGACACGGTCTGAGCGGGAGATCGAGCAGCTGAAG
GAGCACCTGCGTCTTGCCATGGCCGCCCTCCAGGAGAAGGAGTGCATGCGCAACAGCCTGGCTGAGTAG
```

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007032 unedited

```
TGTAATACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGGGGNGAAAGGAAGGGC
CGGAGGCGCGGGCGGGCGGGCGGAGAGGGGGCGGCGGGCGGGCGGGCGGGGTTCCCG
CGCCGCGGAGCCCCGCCCCGAGAGCCGCGTCCACGTTCTGCTCCTGCTCCCGCCGCCCT
GGGGCGCGCCATGACGCCGATCTGCTCAACTTCAAGAAGGGATGGATGTCGATCTTGG
ACGAGCCTGGAGAGCCTCCCTCCCTCGCTCACCACCACCTCTACTTCGAGTGGAAGA
AACATTGGTTTGTGCTGACAGATTCAAGTCTCAAATATTACAGAGACTCCACTGCTGAGG
AGGCAGATGAGCTGGATGGTGAGATCGACCTGCGTTCCTGCACGGATGTCACTGAGTACG
CGGTGCAGCGCAACTATGGCTTCCAGATCCACACCAAGGATGCTGTCTATACCTTGTGCG
CCATGACCTCAGGCATCCGGCGGAACTGGATCGAGGCTCTGAGAAAGACCGTACGTCCAA
CTTCAGCCCCAGATGTCACCAAGCTCTCGGACTCTAACAAGGAGAACGCGCTGCACAGCT
ACAGCACCCAGAAGGGCCCCCTGAAGGCAGGGGAGCAGCGGGCGGGCTCTGAGGTATCA
GCCGNGTGGCCCTCGGCAACCGGACGGGCAGCGTCAGGCCTTGACTACGTGCAGCTCT
CGCCGCTGACCCAGGCTTCCCGCAGCGGGCCGAACCCAGCCGCACTCCTGACCGCT
TGTCAAAACAGAGGAGCTGGAGCGCAACCTGGCCACCGCTCCGAGGAGCGCTCCAGTGG
TTTGAGGCCCAGACAGAAGACACAAAGGCCCTGTTGAGAAGGCCCCACCGATCCGGGT
CCCCCTGCTTGAAACACCAACACGTTTAACGGGGATACACTACATTGCACGCCCTGTC
ATACTTCCCGCT
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007032 unedited

```
TCTTGTACGCGGCCGCATCTAAAGTCGGTTTTTTTTTTTTTTTTTGTCTGGAACGTTTTT
TTAAGTTAAGAGGTTTCAGGGAGCAGAAGAGAACACCTTTGGGTGGCTCTGGCGGTCTCTG
CACCCAGCACAGCCTCGAAGGAGGCTGTGGGGCCATGGAGGCCAGCTGCTAGCTCCCTCT
GTCCTGAGCCCCATGGTACGGGTCCAAATGGGGCAGGAAGTGTAGTAGGAGGTAGGGCA
GGAAGAGGGTGGCAGGCTCCCGCCTCTCCCTGTAGAGACACCCCGCCATGGCTGCTGCC
TGGGCCTCCGCCAGACCTCTGGGCCAGGGCCACCAGCTCAGAAGCCCAAGCAGAGGGTGG
CTGGAGACAGAGGGGGACAGGGTTTGGAGGCACACAGCCACCAGGAATTGCTTTTTTTTT
TTTTTTTTTAAAGCATAAAGTGTTTTGGAATAAAGGAAAAAAATCTATATAAAAATCTC
TTCACATATAAAAATCCTGAAGAAGTGCAAGGTGAGACCCAGTGCGAGGGGCGTGCTCAC
ATATGCACAGTGTGTGTGTGTGTGTGTGAGTGTGTATCCCTGTGTACACTGTGTGCACGT
GTGCGCGTATGTGTCTGCGTGTCTGTGTGTGCGTGTGTGCGCGCGCGCTGTGGCAGG
CTCTCATCCCCATCCTCCCCCTTCTTCTCTCACTTCTCCATAAATTATCCCCATCC
CAGTGATCCCGCTTTTTCATCCTCTCTCCTCTACGTTCTTACGTACTCTTTTCACTC
CCTATGCCACCCCTCTCTCTCTCTCTCTCTCTTCCCTAANCTCCCCGCCCCATTTCCAC
TCTTATGTCTATTCTCCTCACTTCTCTACCAACTCTCTATTTTCATCCTTTTTGAATC
TCTAATTTCTCATGACCAACGCGCCCGCCGCCACACATCTATAATATTTTTTACTC
CTCCCTCACCTCTCTCTTCGTCATTTCATT
```

Restriction Sites:

NotI-NotI

ACCN:

NM 007032

Insert Size:

2980 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:

NM 007032.3, NP 008963.2

RefSeq Size:

4753 bp

RefSeq ORF:

1782 bp

Locus ID:

11078

UniProt ID:

Q9H2D6

Cytogenetics:

22q13.1

Domains:

PH

Gene Summary:

This gene encodes a protein with an N-terminal pleckstrin homology domain and a C-terminal coiled-coil region. The protein interacts with trio, which is involved with neural tissue development and controlling actin cytoskeleton organization, cell motility and cell growth. The protein also associates with F-actin and stabilizes F-actin structures. Mutations in this gene have been associated with a form of autosomal recessive nonsyndromic deafness. Multiple alternatively spliced transcript variants that would encode different isoforms have been found for this gene, however some transcripts may be subject to nonsense-mediated decay (NMD). [provided by RefSeq, Nov 2008]

Transcript Variant: This variant (1) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 6. The resulting isoform (1) has a shorter N-terminus when compared to isoform 6.