

Product datasheet for **SC310852**

TRIOBP (NM_001039141) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRIOBP (NM_001039141) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRIOBP
Synonyms:	DFNB28; dj37E16.4; HRIHFB2122; TAP68; TARA
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001039141, the custom clone sequence may differ by one or more nucleotides

```

ATGGAGGAGGTGCCTGGGGATGCCCTGTGTGAACACTTTGAGGCCAACATACTTACCCAG
AACCGCTGTCAAACTGCTTCCACCCTGAGGAGGCCCATGGAGCAAGATACCAGGAGCTC
AGGAGCCCTTCAGGTGCTGAGGTGCCCTACTGCGACCTGCCTCGATGTCCACCTGCCCC
GAGGACCCACTCAGCGCCTCAACCTCCGGCTGCCAGTCTGTGGTGGACCCAGGCCTCAGG
CCAGGGCCCAAGAGGGGCCCATCCCCCTCAGCAGGGCTCCCAGAAGAGGGTCCCACAGCT
GCCCCCAGGAGCAGGAGCCGGGAGCTTGAGGCAGTACCCTATCTGGAGGGCTGACCACT
TCCTTGTGTGGCAGCTGCAACGAGGACCCCGGCTCTGACCCACCTCCAGCCCTGACTCC
GCCACCCCTGATGATACCAGCAACTCGTCTCTGTGGACTGGGACACTGTTGAGAGGCAG
GAGGAGGAGGCCCCAGCTGGGACGAGCTCGCAGTGATGATCCCGAGGAGGCCTCGGGAG
GGGCCGAGAGCTGACAGCTCCCAAAGGGCTCCGTCTCTCCTCACCAGGTCCCCTGTGGGA
GGAGATGCTGCAGGCCAGAAAAAGGAGGACACCGGCGGTGGGGGCCGGAGCGCAGGACAG
CACTGGGCAAGGCTCCGGGGAGAAAGCGGGTGTCCCTGGAGCGGCACCGGTCAACACTG
ACCCAGGCTTCTCCATGACACCACACAGTGGACCTCGAAGCACCACGTCTCAGGCTTCT
CCTGCCCAAAGGACACTGCTCAGGCTGCCTCTACACGTGAAATCCCCAGAGCCTCCTCT
CCCCATCGAATCACCCAAAGGACACCTCCAGGGCCTCATCCACCCAAGAGGACACCCCT
AGGGCCTCATCCACCCAAGAGGACACCCCAAGGCCTCATCTACACAGTGAACACCCCC
AGAGCTTCTCTCCCTCACGAAGCACCCAAGTGGATAACCCAGAACCTTTCTACCCAG
CAGGACAACCCCAAACTTCTTTTCTACTTGTACTCCCCAGCGGGAACCCAGGACA
CCCTGTGTCCAGCAGGACGATCCCAGAGCCTCCTCTCCCAACAGAACCACTCAACGAGAG
AATTCCAGAACATCCTGTGCCAGCGGGACAATCCCAAAGCCTCCAGAACCTCCTCTCCC
AATAGAGCCACACGAGACAACCCAGAACATCCTGCGCCAGCGGACAATCCCAGAGCC
TCCTCTCCAGTAGAGCTACACGAGACAACCCACAACATCCTGTGCCAGCGGGACAAT
CCCAGAGCCTCCAGAACCTCCTCTCCCAATAGAGCCACACGAGACAACCCAGAACATCC
TGTGCCAGCGGGACAATCCCAGAGCCTCCTCTCCAGTAGAGCTACACGAGACAACCCC
ACAACATCCTGTGCCAGCGGGACAATCCCAGAGCCTCCAGAACCTCCTCTCCCAATAGA
GCCACACGAGACAACCCAGAACATCCTGCGCCAGCGGGACAATCCCAGAGCCTCCTCT
CCCAATAGAGCTGCACGAGACAACCCACAACATCCTGTGCCAGCGGGACAATCCCAGA
GCCTCCAGAACCTCCTCTCCCAATAGAGCCACACGAGACAACCCAGAACATCCTGTGCC

```



[View online »](#)

CAGCGGGACAATCCCAGAGCCTCCTCTCCCAATAGAGCTACACGAGACAACCCCAACA
 TCCTGTGCCCAGCGGGACAATCCCAGAGCCTCCAGAACCTCCTCTCCCAATAGAGCCACA
 CGAGATAACCCCAAGAACATCCTGTGCCCAGCGGGACAATCCCAGAGCCTCCTCTCCCAAC
 AGAACCAACCAAGACAGCCCCAGAATCCTGTGCCCAGCGGGACGATCCCAGAGCC
 TCCTCTCCTAACAGAACCATCCAACAAGAGAACCCAGAATCCTGTGCCCTACGGGAC
 AATCCCAGAGCCTCCTCTCCCAGCAGAACATCCAACAAGAGAACCCAGAATCCTGTG
 GCCAACGGGACGATCCCAGAGCCTCCTCTCCTAACAGAACCACCAACAAGAGAACCC
 AGAACATCCTGTGCCCGACGGGACAATCCCAGAGCCTCCTCTCGCAACAGAACCATCCAG
 CGAGACAACCCCAAGAACATCCTGTGCCCAGCGGGACAATCCCAGAGCCTCCTCTCCTAAC
 AGAACCATCCAACAAGAGAACCTCAGAACATCCTGTACCCGACAGGACAATCCCAGGACC
 TCCTCTCCCAATAGAGCCACACGAGACAACCCCAAGAACATCCTGTGCCCAGCGGGACAAT
 CTCAGAGCCTCCTCTCCCATCAGAGCCACCAACAGGACAACCCCAAGAACCTTGATTCAA
 CAGAATCCTCCAGATCATCTTCTACCAACAAGACAACCCTAAACCTCTTGACCAAA
 CGAGATAACCTCAGACCACTTGACACAGCGGGACCGACACAGTCCTTTTCTTTCAA
 CGAGACAACCTGGAACCTCCTCATCTCAATGCTGCACCAAAAGGAGAATCTGAGACCA
 TCATCTCCCCACCGCTCCACTCAATGGAACAATCCCAGGAATTCTCTCCCCATCGTACT
 AACAAAGACATCCCTGGGCCTCGTTTCCCTCCGGCCAACCTCAGAGTGATGGTCCCCGA
 ACCTCTTCCCCATCTCGCTCCAAGCAAAGCGAGGTTCCCTGGGCATCCATCGCCCTCCGG
 CCAACCAAGGTGACAGGCCTCAGACATCCTCTCCCAGAGGCCAGCCAGCATGACCCA
 CCCAGTCCTCCTTTGGCCCCACCCAGTACAACCTTGCCATCCCGGGCCACCTCTTCTCC
 CATAACCCAGGCCACAGAGCCTCCTGCACTTCCCTACCTGTGTACCCCGTGCCTAT
 GGGGCTCCCTGACCTCTCCTGAGCCCTCCCAGCCTCCATGTGCTGTGTGATTGGGCAC
 CGGGATGCCCCCTGAGCCTCTTCCGCCCCCTCGCTATTTGCAGCAGGACCCCTTCCCTTC
 TTCCCAGAGCCCCGCGCCCTGAGAGTGAAACGCCCCACACGAGCCTCCCTATATACCA
 CCTGCTGTGTGATTGGACACCGAGATGCCCCCGGGCGTCTCGCCCCCGCCACACC
 CAATTTGACCCCTTCCCTTCTCTCCAGACACATCAGATGCCGAGCATCAGTGTCAGTCC
 CCCCACACGAGCCCTTCCAGTCCCTGCACCTGTGTGATTGGGTACCGAGATGCACCC
 CGGGCCTCCTCCCCACACGCCAGGCCCCAGAGCCTTCCCTTTATTCCAGGACCTCCCC
 AGGGCCAGCACAGAGAGCCTTGCTCCTTCCATGGACTCTCTGCACGAGTGCCCCACATC
 CCCACCCCTGTGTGATTGGGCACCGGGATGCACCTCCTTCTCATCCCCACACGCCAG
 GCTCCTGAGCCATCCCTCTTCTCCAGGATCCCCCTGGAAGTATGAGAGCCTGGCC
 CCTCCACTGACTCTCTGCATGGCTCCCCAGTGCTGATCCCCAAGTGTCATCGGGCAC
 CGGGATGCACCCCGAGCCTCCTCCCCACCCGCCACCCACCCAGTGACCTAGCGTTCTG
 GCACCTCACCTTACCGGGCAGCTCTGGGGGCTCCCGGGGCTCAGCGCCTCCCGGGGAG
 ACCAGGCACAACCTGGAGCGGGAGGAGTACACTGTGCTGGCCGACCTGCCCCACCCAGG
 AGGCTGGCCAGAGACAGCCAGGGCCCCAGGCGCAGTGACGACGCGGGGGCCGACCCAC
 AGCCCTGGCCGTGCAGAGGTGGAGCGCCTTTCGGGAAGAGCGCAGGAAGTCCGAGGCA
 GCGGGGGCCTTCCAGGCCAGGACGAGGACGGTCACAGCAGCCAGCCAAGGCCAGAGC
 CAATTTCTCCGAAGACAGTCCAGCCCTGCCCCAGCAGGCAGGTGACCATGCTCCCTGCC
 AAACAGGCAGAACTGACCCGGCGGAGCCAAGCAGAGCCCCCTCATCCTTGGAGTCTGAG
 AAGAGACCTGAGGGAGATCGGCAGCTCCAGGGTCCCCGCTGCCCCCAGGACATCAGCC
 AGGACCCCTGAGAGGGAGCTGCGGACACAGAGACCTCTGGAGAGTGGCAAGCAGGCCCA
 AGACAGCCTCTGGGGGTGTGGCAGAGTCAGGAGGAACCGCAGGGTCCCAGGGCCTCAT
 AGACACCTAGAAAGGAGCTGGAGCAGCCAGGAGGAGGCTGGGCCCTGGGGGCTGGTGG
 GGATGTGGAGAGCCAGCCTGGGGGCAGCCAAGCCCCGAGGGAGCATGGGGGGGCACT
 TCCAGGGAGTACAAGGAGAGCTGGGGGCAGCCAGAGGCCTGGGAGGAGAAGCCCACTCAT
 GAGCTCCCCAGAGAACTAGGAAAGAGAAGCCCACTCACGAGCCCCCTGAGAACTGGGGA
 GGCCCCGAGAGTCTTCAATCCTGGCACTCTGGGACACCACTGCTGTGGGCTGGGGG
 GCAGAGGGAGCGTGTCATACCCGCGTGCTCTGAGAGGCGACCCGAGCTTGACTGGAGG
 GATCTGCTTGGCCTTCTCCGGGCACAGGAGAGGGGTCTGGGCCGTGTCCTCAGCCTG
 GACTGGGAGGGCCTTGGAGCTCTGCAGGCCAGGCTGCCCCGAAGGACCCAGCTGGA
 CACAGGGATGACCTGGCCAGGGCTTAGGGCCAGAGCTGGGTCCCCAGGCACAAACGAT

```

GTCCCTGAGCAGGAGTCACACAGCCAGCCAGAAGGCTGGGCCGAGGCCACCCAGTCAAT
GGACACAGCCCCGCACTGCAGTCCCAGAGCCCGGTCCAGCTGCCAGCCCTGCCTGCACC
TCCACCCAGTGGCCAAAGATCAAAGTGACAAGAGGACCAGCGACCGCAACTCTGGCAGGC
CTGGAGCAGACGGGCCCCCTGGGGAGCAGGAGCACTGCGAAGGGCCCCAGCTTGCCAGAG
CTGCAGTTCCAACCAGAGGAGCCTGAGGAGTCAGAACCAAGCAGAGGCCAAGACCCCTG
ACTGACCAGAAGCAGGCAGACTCGGCAGACAAGAGGCCAGCAGAGGGCAAGGCTGGGAGC
CCGCTCAAGGGCCGACTGGTGACCTCATGGCGGATGCCCGGGGACCGGCCACGCTGTTT
AATCCGTTCTGTCTGTCTGTTGGGGTCCCTCAGGTGGCGAAGGCCCGATCTGCTCAACTTC
AAGAAGGGATGGATGTCGATCTTGACGAGCCTGGAGAGCCTCCCTCCCCCTCGCTCACC
ACCACCTCTACTTCGAGTGGAAAGAAACATTGGTTTGTGCTGACAGATTCAAGTCTCAA
TATTACAGAGACTCCACTGCTGAGGAGGCAGATGAGCTGGATGGTGAGATCGACCTGCGT
TCCTGCACGGATGTCAGTACGCGGTGCAGCGCAACTATGGCTTCAGATCCACACC
AAGGATGCTGTCTATACCTTGTGCGCCATGACCTCAGGCATCCGGCGGAAGTGGATCGAG
GCTCTGAGAAAGACCGTACGTCCAACCTCAGCCCCAGATGTACCAAGCTCTCGGACTCT
AACAAAGGAGAACCGCTGCACAGCTACAGCACCAGAAGGGCCCCCTGAAGGCAGGGGAG
CAGCGGGCGGGCTCTGAGGTCATCAGCCGGGTGGCCCTCGGAAGGCGGACGGGACGCT
CAGGCCTTGGAATACGTGGAGCTCTCGCCGCTGACCCAGGCTTCCCCGCAGCGGGCCGC
ACCCAGCCCCGCACTCTGACCGCTGGCCAAGCAGGAGGAGTGGAGCGGGACCTGGCC
CAGCGCTCCGAGGAGCGGCGCAAGTGGTTTGGGCCACAGACAGCAGGACCCAGAGGTG
CCTGCTGGTGAGGGGCCGCGCGGGGCTGGGTGCCCCCTGACTGAGGACCAGCAAAAC
CGGCTTAGTGAGGAGATCGAAGAAGTGGCAGGAGCTGGAGAAGTGGCCCTGCGGGAG
AATAAGCGGGTGCCCTCACTGCCCTGCTCAACCAAGCCGCGGAGAGCGCCGAGGGCCC
CCAAGTGACGGCCACGAGGCACTGGAGAAGGAGTTTCAAGCTCTTCGGGCCAGCTGGAG
CGGTGGCGTCTCAAGGGGAGGCTCCTCAGAGTGCACTGAGATCCAGGAGGATGGCCAC
ATCCCCCGGGGTACATCTCACAGGAGGCATGTGAGCGCAGCCTGGCAGAGATGGAGTCC
TCGACACAGCAGGTGATGGAGGAGTGCAGCGCACACAGCGGGAGTGCAGCGCCTG
CAGCAGGAGAAGGAGTGGCTCCTGGCTGAGGAGACGGCAGCCACGGCCTCAGCCATTGAA
GCCATGAAGAAGGCCTACCAGGAAGAGTGAGCCGAGAGTGCAGAAAACAGGAGTCTC
CAGCAGGGCCCGGATGGCTCCGGAAGCAGCACCAGTCAATGTGGAGGCACTGAAGCGA
GAGCTGCAGGTGCTATCGGAGCAGTACTCGCAGAAGTGCCTGGAGATTGGGGCACTCATG
CGGCAGGCTGAGGAGCGGAGCAGCAGCTGCGCCGCTGCCAGCAGGAGGGCCAGGAGCTG
CTGCGCCACAACAGGAGCTGCATGGCCGCTGTGAGAGGAGATAGACCAGCTGCGCGGC
TTCAATTGCTCGCAGGGCATGGCAATGGCTGCGGGCGCAGCAACGAGCGGAGTTCTGTC
GAGCTAGAGGTGCTGCTTCGCGTAAAAGAAAACGAACTCCAGTACCTAAAGAAGGAGGTG
CAGTGCTCCGGGACGAGCTCCAGATGATGCAGAAGGACAAGCGCTTACCTCGGGAAAG
TACCAGGACGTCTATGTGGAGCTGAGCCACATCAAGACACGGTCTGAGCGGGAGATCGAG
CAGCTGAAGGAGCACCTGCGTCTTGCCATGGCCGCCCTCCAGGAGAAGGAGTCGATGCGC
AACAGCTGGCTGAGTAG

```

Restriction Sites:

Please inquire

ACCN:

NM_001039141

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).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_001039141.1</u> , <u>NP_001034230.1</u>
RefSeq Size:	10024 bp
RefSeq ORF:	7098 bp
Locus ID:	11078
UniProt ID:	<u>Q9H2D6</u>
Cytogenetics:	22q13.1
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 (6) represents the longest transcript and encodes the longest protein (isoform 6).