

Product datasheet for **RG214410**

TRIOBP (NM_007032) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TRIOBP
Synonyms:	DFNB28; dJ37E16.4; HRIHFB2I22; TAP68; TARA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG214410 representing NM_007032
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGCGGATGGAAGGGCGGGGCGAGCTCGGGGAAAGGAAGGGCGGAGGCGGGCGGGCGGGCGCCG
 AGAGGGGCGGCGGCGGCGGCGGGGTTCCCGCGCGCGGAGCCCGCCGAGAGCCGCGTCCACG
 TTCTGCTCCTGCTCCGCGCCCTGGGGCGCGCCATGACGCGCCGATCTGCTCAACTTCAAGAAGGA
 TGGATGTCGATCTTGGACGAGCCTGGAGAGCCTCCCTCCCTCGCTCACCACCACCTCTACTTCGAGT
 GGAAGAAACATTGGTTTGTGCTGACAGATTCAAGTCTCAAAATTACAGAGACTCCACTGCTGAGGAGGC
 AGATGAGCTGGATGGTGAGATCGACCTGCGTTCTGACGAGATGTCACTGAGTACGCGGTGACGCCAAC
 TATGGCTTCAGATCCACACCAAGGATGCTGTCTATACCTTGTGCGCCATGACCTCAGGCATCCGCGGGA
 ACTGGATCGAGGCTCTGAGAAAGACGTACGTCCAATTTCAGCCCCAGATGTCACCAAGCTCTCGACTC
 TAACAAGGAGAACGCGTGCACAGTACAGACCCAGAAAGGGCCCCCTGAAGGAGGGGAGCAGCGGGCG
 GGCTCTGAGGTATCAGCCGGGGTGGCCCTCGGAAGGCGGACGGGAGCGTCAAGCCTTGGAAGTGTGG
 AGCTCTCGCCGCTGACCCAGGCTTCCCGCAGCGGGCCCGACCCAGCCGCACTCTGACCGCTGGC
 CAAGCAGGAGGAGCTGGAGCGGGACCTGGCCAGCGCTCCGAGGAGCGGCGAAGTGGTTTGAGGCCACA
 GACAGCAGGACCCAGAGGTGCTGCTGGTGAGGGGCGCGCGGGGCTGGGTGCCCTGACTGAGG
 ACCAGCAAAACCGCTTAGTGAGGAGATCGAGAAGAAGTGGCAGGAGCTGGAGAAGCTGCCCTGCGGGA
 GAATAAGCGGGTGGCCCTCACTGCCCTGCTCAACCAAGCCGCGGAGAGCGCCAGGGCCCCAAGTGAC
 GGCCACGAGGCACTGGAGAAGGAGTTTCAAGCTCTCGGGCCAGCTGGAGGCTGGCGTCTCAAGGGG
 AGGCTCTCAGAGTGCAGTATCCAGGAGGATGGCCACATCCCCCGGGCTACATCTCAGAGGAGC
 ATGTGAGCGCAGCTGGCAGAGATGGAGTCTCGCACCAGCAGGTGATGGAGGAGCTGCAGCGGACAC
 GAGCGGGAGCTGCAGCGCTGCAGCAGGAGAAGGAGTGGCTCTGGCTGAGGAGACGCGAGCCACGCGCT
 CAGCCATTGAAGCCATGAAGAAGGCTACAGGAAGAGCTGAGCCGAGAGCTGAGCAAAACAGGAGTCT
 CCAGCAGGGCCCGATGGCTCCGGAAGCAGCACCAGTCAAGTGTGGAGGCACTGAAGCGAGAGCTGCAG
 GTGCTATCGGAGCAGTACTCGCAGAAGTGCTGGAGATTGGGGCACTCATGCGGCAGGCTGAGGAGCGCG
 AGCACACGCTGCGCCGCTGCCAGCAGGAGGGCCAGGAGCTGCTGCGCCACAACCAGGAGCTGCATGGCCG
 CCTGTGAGAGGAGATAGACCAGCTGCGCGGCTTATTGCTCGCAGGGCATGGCAATGGCTGCGGGCGC
 AGCAACGAGCGGAGTTCTGCGAGCTAGAGGTGCTGCTTCGCGTAAAGAAAACGAACCTCAGTACCTAA
 AGAAGGAGGTGCAGTGCCTCCGGGACGAGCTCCAGATGATGCAGAAGGACAAGCGCTTACCTCGGAAA
 GTACCAGGAGCTCTATGTGGAGCTGAGCCACATCAAGACACGGTCTGAGCGGGAGATCGAGCAGCTGAAG
 GAGCAGCTGCGTCTTGCCATGGCCGCCCTCCAGGAGAAGGAGTCGATGCGCAACAGCCTGGCTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214410 representing NM_007032
 Red=Cloning site Green=Tags(s)

MGGWKGPQRRGKEGPEARRRAAERGGGGGGVPA PRSPAREPRPRSCLLPPPWGAAMTPDLLNFKKG
 WMSILDEPGPPSPSLTTTSTSQWKHWFVLTDSLKYRDSTAEAEDEL DGEIDLRSDTDVTEYAVQRN
 YGFQIHTKDAVYTL SAMTSGIRRNWIEALRKTVRPTSAPDVTKLSDSNKENALHSYSTQKGPLKAGEQRA
 GSEVISRGGPRKADGQRQALDYVELSPLTQASPRARTPARTPDRLAKQEELERDLAQRSEERRKWEAT
 DSRTPEVPAGEGPRRGLGAPLTEDQQNRLSEEIEKKWQELEKLPLRENKRVPALTALLNQSRGERRGPPSD
 GHEALEKEVQALRAQLEAWRLQGEAPQSALRSQEDGHIPPGYISQEACERSLAEMESSHQVMEELQRHH
 ERELRLQKEKWLAEETAATASAIEAMKAYQEEL SREL SKTRSLQQGPDGLRKQHQS DVEALKRELQ
 VLSEQYSQKCLEIGALMRQAEREHTLRRCQEQELLRHNQELHGRLSEEIDQLRGFIASQGMNGCGR
 SNERSSELEVLRLVKENELQYLKKEVQCLRDELQMMQKDKRFTSGKYQDVYVELSHIKTRSERIEQLK
 EHLRLAMAALQEKE SMRNSLAE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007032

ORF Size: 1956 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.

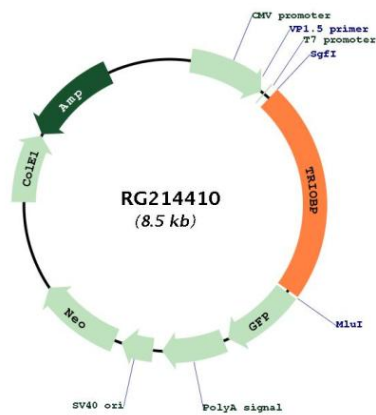
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_007032.5](#), [NP_008963.3](#)

RefSeq Size:	4753 bp
RefSeq ORF:	1959 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]

Product images:



Circular map for RG214410