

Product datasheet for **RG224094**

TRIOBP (NM_138632) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRIOBP (NM_138632) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRIOBP
Synonyms:	DFNB28; dj37E16.4; HRIHFB2122; TAP68; TARA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224094 representing NM_138632 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGGCGGATGGAAGGGGCGGGGCGAGCGTCGGGGAAAGGAAGGGCGGAGGCGCGGGCGGGCGGCCG
 AGAGGGGCGGGCGGGCGGGCGGGGTTCCCGCGCCGCGGAGCCCGGCCGAGAGCCGCTCCACG
 TTCCTGCCTCTGCTCCCGCCCTGGGGCGGCCATGACGCCGATCTGCTCAACTTCAAGAAGGGA
 TGGATGTCGATCTTGGACGAGCCTGGAGAGCCTCCCTCCCTCGCTCACCACCACCTCTACTTCGCACT
 GGAAGAAACATTGTTTGTGCTGACAGATTCAAGTCTCAAATATTACAGAGACTCCACTGCTGAGGAGGC
 AGATGAGCTGGATGGTGAGATCGACCTGCGTTCTGTCACGGATGTCACTGAGTACGCGGTGCAGCGCAAC
 TATGGCTTCCAGATCCACACCAAGGATGCTGTCTATACCTTGTGCGCCATGACCTCAGGCATCCGGCGGA
 ACTGGATCGAGGCTCTGAGAAAGACCGTACGTCCAACCTCAGCCCCAGATGTACCAAGCTCTCGGACTC
 TAACAAGGAGAACGCGCTGCACAGCTACAGCACCAGAAGGGCCCCCTGAAGGCAGGGGAGCAGCGGGCG
 GGCTCTGAGGTCATCAGCCGGGTGGCCCTCGGAAGGCGGACGGGCGAGGTGAGGCTTGGACTACGTGG
 AGCTCTCGCCGCTGACCCAGGCTTCCCGCAGCGGGCCGACCCAGCCCGCACTCTGACCGCTGGC
 CAAGCAGGAGGAGCTGGAGCGGACCTGGCCAGCGCTCCGAGGAGCGGCGCAAGTGGTTTGAGGCCACA
 GACAGCAGGACCCAGAGGTGCTGCTGGTGAGGGGCGCGCGGGGCTGGGTGCCCCCTGACTGAGG
 ACCAGCAAAACCGCTTAGTGAGGAGATCGAGAAGAAAGTGCGAGGAGCTGGAGAAGCTGCCCTGCGGGA
 GAATAAGCGGGTGCCCTCACTGCCCTGCTCAACCAAGCCGCGGAGAGCGCCGAGGGCCCCCAAGTGAC
 GGCCACGAGGCACTGGAGAAGGAGGTTCAAGCTCTTGGGCCCAGCTGGAGGCGTGGCGTCTCAAGGGG
 AGGCTCTCAGAGTCACTGAGATCCCAGGAGGATGGCCACATCCCCCGGGCTACATCTCACAGCTGGT
 GGGCGTGATCACTGTGCCGTTTTACAGACAAGGCCACTGAGCTCTGAGAGGTTATGTGACTTGCCCAAG
 GTCACCCCGCTGCAGGTCTCAAAGGTGGGATT

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG224094 representing NM_138632
 Red=Cloning site Green=Tags(s)

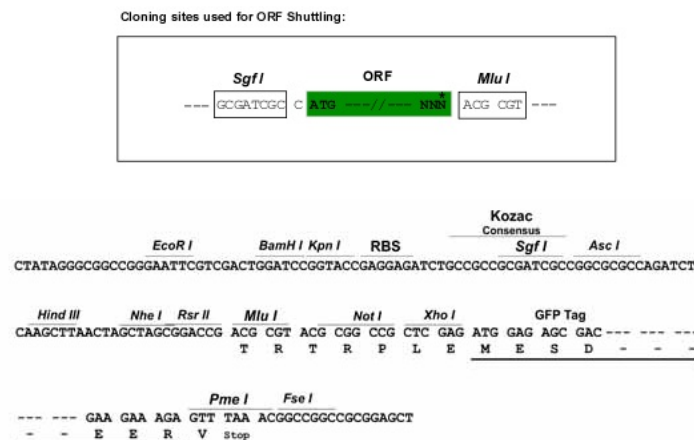
MGGWKGPQRRGKEGPEARRRAAERGGGGGGGVPAPRSPAREPRPRSCLLLPPPWGAAMTPDLLNFKKG
 WMSILDEPGEPPSPSLTTTSTSQWKHWFVLTDSLKYRDSTAEAEDELGEIDLRSDTVTEYAVQRN
 YGFQIHTKDAVYTLSAMTSGIRRNWIEALRKTVRPTAPDVTKLSDSNKENALHSYSTQKGPLKAGEQRA
 GSEVISRGGPRKADGQRQALDYVELSPLTQASQARARTPARTPDLAKQEELERDLAQRSEERRKWFEAT
 DSRTPEVPAGEGPRRGLGAPLTEDQQNRLSEEIEKKWQELEKPLRENKRVPLTALLNQSRGERRGPPSD
 GHEALEKEVQALRAQLEAWRLQGEAPQSALRSQEDGHIIPGYISQLVGVITVPVLQTRPLSSERLCDLPK
 VTPPAGLKGGI

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_138632

ORF Size: 1293 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.

RefSeq: [NM_138632.2](#), [NP_619538.2](#)

RefSeq Size: 1743 bp

RefSeq ORF: 1296 bp

Locus ID: 11078

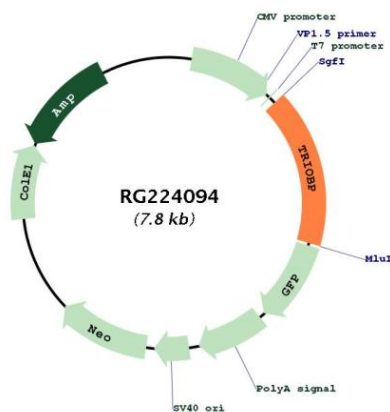
UniProt ID: [Q9H2D6](#)

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 RG224094