

Product datasheet for **RG222452**

TBLR1 (TBL1XR1) (NM_024665) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBLR1 (TBL1XR1) (NM_024665) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TBLR1
Synonyms:	C21; DC42; IRA1; MRD41; TBLR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG222452 representing NM_024665
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTATAAGCAGTGATGAGGCAACTCTTGGTATATAGATACTTGAAGAGTCAGGATTTTCTCATT
 CAGCATTTACCTTTGGTATAGAAAGCCATATCAGTCAGTCCAATATAAATGGTGCCTCGTCCCACCCGC
 TGCATTGATTTCTATCATCCAGAAAGGTCTACAGTATGTAGAAGCAGAAGTTAGTATTAATGAGGATGGT
 ACCTTGTTTGGTTCGACCAATAGAGTCTCTGTCCCTGATAGATGCCGTAATGCCTGATGTAGTACAAA
 CAAGACAACAAGCTTATAGAGATAAGCTTGACAGCAACAGGCAGCAGCTGCTGCAGCTGCCGAGCTGC
 AGCCAGCAACAAGGATCTGCAAAAAATGGAGAAAACACAGCAAAATGGGAGGAGAATGGAGCACATACT
 ATAGCAAATAATCATACTGATATGATGGAAGTGGATGGGATGTTGAAATCCCTCCTAATAAAGCTGTTG
 TGGTTCGGGGCCATGAATCTGAAGTTTTATCTGTGCCTGGAACCCTGTTAGTATCTCCTAGCATCAGG
 GTCTGGAGACTCAACAGCAAGAATATGGAATCTTAGTGAGAACAGCACCAGTGGCTCTACACAGTTAGTA
 CTTAGACATTGTATACGAGAAGGAGGGCAAGATGTTCCAAGCAACAAGGATGTCACATCTCTAGATTGGA
 ATAGTGAAGGTACACTTCTAGCAACTGGTTCCTATGATGGGTTTCCAGAAATATGGACTAAAAGTGGTAA
 CCTTGCTAGCACCTTAGGGCAGCATAAAGGCCCTATATTTGCATTAATAAAGAAAGGAAATTTTC
 ATCCTAAGTGTGGAGTAGACAAGACTACAATTTGGGACGCACATACTGGTGAAGCCAAGCAACAGT
 TTCCTTTTCATTACAGCACCAGCATTGGATGTTGATTGGCAGAGCAACAACACCTTTGCTTCTGTAGTAC
 AGATATGTGCATTATGTCTGTAATTAGGACAAGACAGACCTATTAACAATCCAAGGACATACGAAT
 GAAGTAAATGCTATCAAATGGGACCAACTGGCAATCTCTTGGCCTCCTGTTCTGACGACATGACTTTAA
 AGATATGGAGTATGAAACAAGACAATTGTGTCATGATTTGCAAGCACATAATAAAGAAATTTATACTAT
 CAAATGGAGTCCAACAGGACCAGGGACTAATAATCCAAATGCCAACCTTATGTTAGCAAGTGCATCCTTT
 GATTCTACTGTTAGGTTATGGGATGTAGACCGAGGGATATGCATCCATACTTTGACAAAAACCAAGAGC
 CTGTGTACAGTGTAGCTTTCAGTCTGATGGCAGGTATCTGGCAAGTGGTCTTTTGGACAAATGTGTACA
 CATCTGGAACACGCAGACAGGTGCTCTAGTTCACAGCTATAGGGGAACAGGTGGAATATTTGAAGTTTGC
 TGGAATGCAGCAGGAGACAAAGTTGGAGCCAGTGCATCAGATGGTTCAGTTTGTGTATTAGACCTTCGGA
 AA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG222452 representing NM_024665
 Red=Cloning site Green=Tags(s)

MSISSDEVNFLVYRYLQESGFSHSAFTFGIESHISQSNINGALVPPAALISIIQKGLQYVEAEVSINEDG
 TLFDRPIESLSLIDAVMPDVVQTRQQAAYRDKLAQQQAAAAAAAAAASQQGSAKNGENTANGEENGAHT
 IANNHTDMEVDGDVEIPPNKAVVLRGHESEVFIGAWNPVSDLLASGSGDSTARIWNLSENSTSGSTQLV
 LRHCIREGGQDVPSNKDVTSLDWNSEGTLATGSYDGFARIWTKDGNLSTLQGHKGPFIKALKWNKKGNF
 ILSAGVDKTTIIWDAHTGEAKQQFPFHSAPALDQVSNNTFASCSTDMCIHVCKLGQDRPIKTFQGHNTN
 EVNAIKWDPTGNLLASCSDDMTLKIWSMKQDNCVHDLQAHNKEIYTIKWSPTGPGTNNPNANMLASASF
 DSTVRLWDVDRGICHTLTKHQEPVYSVAFSPDGRYLASGSFDKCVHIWNTQTGALVHSYRGTGGIFEV
 WNAAGDKVGASASDGSVCVLDLRK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_024665

ORF Size: 1542 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

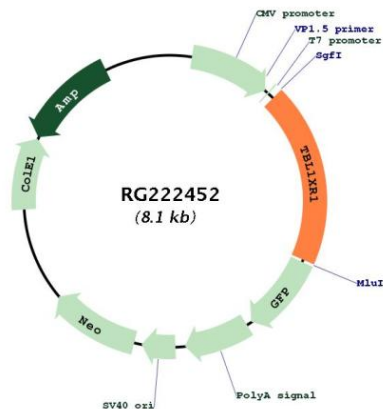
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_024665.3](#), [NP_078941.2](#)

RefSeq Size: 5911 bp
RefSeq ORF: 1545 bp
Locus ID: 79718
UniProt ID: [Q9BZK7](#)
Cytogenetics: 3q26.32
Domains: WD40, LisH
Protein Families: Druggable Genome, Transcription Factors
Protein Pathways: Wnt signaling pathway
Gene Summary:

This gene is a member of the WD40 repeat-containing gene family and shares sequence similarity with transducin (beta)-like 1X-linked (TBL1X). The protein encoded by this gene is thought to be a component of both nuclear receptor corepressor (N-CoR) and histone deacetylase 3 (HDAC 3) complexes, and is required for transcriptional activation by a variety of transcription factors. Mutations in these gene have been associated with some autism spectrum disorders, and one finding suggests that haploinsufficiency of this gene may be a cause of intellectual disability with dysmorphism. Mutations in this gene as well as recurrent translocations involving this gene have also been observed in some tumors. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG222452