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Product datasheet for RC222452

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:	Myc-DDK
Symbol:	TBL1XR1
Synonyms:	C21; DC42; IRA1; MRD41; TBLR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC222452 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTATAAGCAGTGATGAGGTCAACTTCTTGGTATATAGATACTTGCAAGAGTCAGGATTTTCTCATT
CAGCATTTACCTTTGGTATAGAAAGCCATATCAGTCAGTCCAATATAAATGGTGCCCTCGTCCCACCCGC
TGCATTGATTTCTATCATCCAGAAAGGTCTACAGTATGTAGAAGCAGAAGTTAGTATTAATGAGGATGGT
ACCTTGTTTGATGGTCGACCAATAGAGTCTCTGTCCCTGATAGATGCCGTAATGCCTGATGTAGTACAAA
CAAGACAACAAGCTTATAGAGATAAGCTTGCACAGCAACAGGCAGCAGCTGCTGCAGCTGCCGCAGCTGC
AGCCAGCCAACAAGGATCTGCAAAAAATGGAGAAAACACAGCAAATGGGGAGGAGAATGGAGCACATACT
ATAGCAAATAATCATACTGATATGATGGAAGTGGATGGGGATGTTGAAATCCCTCCTAATAAAGCTGTTG
TGTTGCGGGGCCATGAATCTGAAGTTTTTATCTGTGCCTGGAACCCTGTTAGTGATCTCCTAGCATCAGG
GTCTGGAGACTCAACAGCAAGAATATGGAATCTTAGTGAGAACAGCACCAGTGGCTCTACACAGTTAGTA
CTTAGACATTGTATACGAGAAGGAGGGCAAGATGTTCCAAGCAACAAGGATGTCACATCTCTAGATTGGA
ATAGTGAAGGTACACTTCTAGCAACTGGTTCCTATGATGGGTTTGCCAGAATATGGACTAAAGATGGTAA
CCTTGCTAGCACCTTAGGGCAGCATAAAGGCCCTATATTTGCATTAAAATGGAATAAGAAAGGAAATTTC
ATCCTAAGTGCTGGAGTAGACAAGACTACAATTATTTGGGACGCACATACTGGTGAAGCCAAGCAACAGT
TTCCTTTTCATTCAGCACCAGCATTGGATGTTGATTGGCAGAGCAACAACACCTTTGCTTCTTGTAGTAC
AGATATGTGCATTCATGTCTGTAAATTAGGACAAGACAGACCTATTAAAACATTCCAAGGACATACGAAT
GAAGTAAATGCTATCAAATGGGACCCAACTGGCAATCTCTTGGCCTCCTGTTCTGACGACATGACTTTAA
AGATATGGAGTATGAAACAAGACAATTGTGTCCATGATTTGCAAGCACATAATAAAGAAATTTATACTAT
CAAATGGAGTCCAACAGGACCAGGGACTAATAATCCAAATGCCAACCTTATGTTAGCAAGTGCATCCTTT
GATTCTACTGTTAGGTTATGGGATGTAGACCGAGGGATATGCATCCATACTTTGACAAAACACCAAGAGC
CTGTGTACAGTGTAGCTTTCAGTCCTGATGGCAGGTATCTGGCAAGTGGTTCTTTTGACAAATGTGTACA
CATCTGGAACACGCAGACAGGTGCTCTAGTTCACAGCTATAGGGGAACAGGTGGAATATTTGAAGTTTGC
TGGAATGCAGCAGGAGACAAAGTTGGAGCCAGTGCATCAGATGGTTCAGTTTGTGTATTAGACCTTCGGA
AA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222452 protein sequence
Red=Cloning site Green=Tags(s)

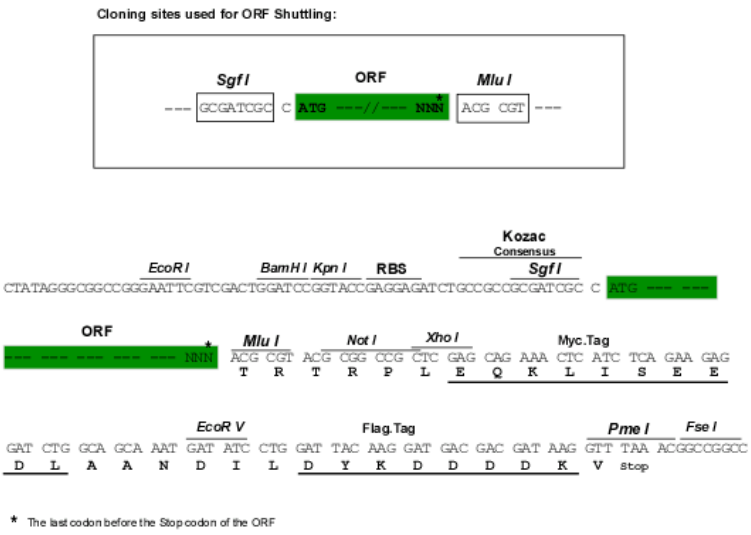
MSISSDEVNFLVYRYLQESGFSHSAFTFGIESHISQSNINGALVPPAALISIIQKGLQYVEAEVSINEDG
TLFDGRPIESLSLIDAVMPDVVQTRQQAYRDKLAQQQAAAAAAAAAAASQQGSAKNGENTANGEENGAHT
IANNHTDMMEVDGDVEIPPNKAVVLRGHESEVFICAWNPVSDLLASGSGDSTARIWNLSENSTSGSTQLV
LRHCIREGGQDVPSNKDVTSLDWNSEGTLLATGSYDGFARIWTKDGNLASTLGQHKGPIFALKWNKKGNF
ILSAGVDKTTIIWDAHTGEAKQQFPFHSAPALDVDWQSNNTFASCSTDMCIHVCKLGQDRPIKTFQGHTN
EVNAIKWDPTGNLLASCSDDMTLKIWSMKQDNCVHDLQAHNKEIYTIKWSPTGPGTNNPNANLMLASASF
DSTVRLWDVDRGICIHTLTKHQEPVYSVAFSPDGRYLASGSFDKCVHIWNTQTGALVHSYRGTGGIFEVC
WNAAGDKVGASASDGSVCVLDLRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

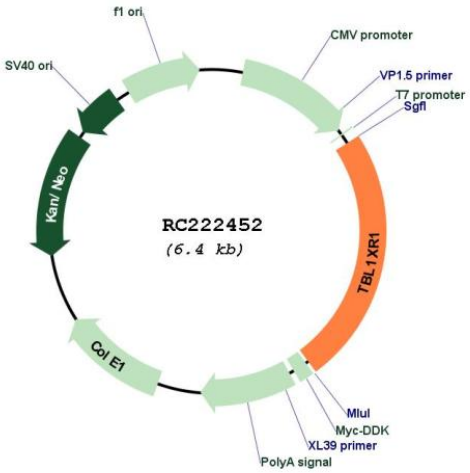
Chromatograms: https://cdn.origene.com/chromatograms/mk6461_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:

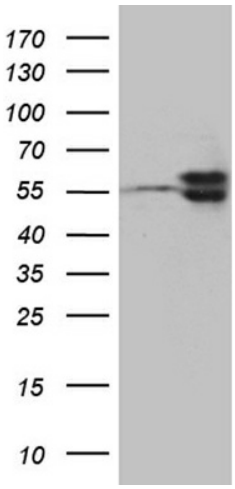


ACCN: NM_024665

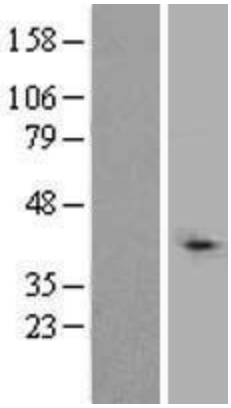
ORF Size:	1542 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional 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_024665.7
RefSeq Size:	6550 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
MW:	55.6 kDa

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:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TBL1XR1 (Cat# RC222452, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TBL1XR1 (Cat# [TA811698])(1:2000). Positive lysates [LY411181] (100ug) and [LC411181] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY411181]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222452 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).