

Product datasheet for **RG211684**

TNRC6B (NM_015088) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TNRC6B (NM_015088) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TNRC6B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211684 representing NM_015088 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAGAGAGAAGGAGCAAGAAAGGGAAGAACAGTTAATGGAAGACAAGAAAAGGAAGAAAGAGGATAAAA
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ATGGGACAATCAAAGGGCCACCCCTCCCTGAAAACCAAGGCAATGCCAGGCTCCCTGTTGGGAAGA
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 TGGGTCCACTGGGCTCGGCGAGTGGAGCAGCAGCGCTGGTGGCAGCAGCGGGGCCGATCTTGTGCGCT
 TCATTGTGGGGGCCCCAACTATTCTTCTAGCTTATGGGGAGTCCCAACGGTGGGAAGATCCCCATAGGA
 TGGGCAGCCCTGCTCTTTACTACCTGGTGACCTTCTGGGAGGAGGGTCGGATTCAATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG211684 representing NM_015088

Red=Cloning site Green=Tags(s)

MREKEQEREEQLMEDKKRKEDKKKKEATQKVTEQKTKVPEVTKPSLSQPTAASPIGSSPPVNGGNNNA
KRVAVPNGQPPSAARYMPREVPPRFRCQQDHKVLKRGQPPPPSCMLLGGGAGPPPTAPGANPNNAQVT
GALLQSESGTAPDSTLGAAASNYANSTWGSASSNNGTSPNPIHIWDKVIVDGSDMEEWPCIASKDTES
SSENTTDNNSASNPGSEKSTLPGSTTSNKGKGSQCQSASSGNECNLGVWKSDFPAKSVQSSNSTTENNG
LGNWRNVSGQDRIGPGSGFSNFPNPNPSAWPALVQEGTSRKGALETDNSSSAQVSTVGQTSREQQSKM
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TSPIVDTHDQLLRDNTTGSNSSLNTSLPSGAWPYSASDNSFTNVHSTSAKFPDYKSTWSPDPIGHNPTH
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VLHNLTPQIDGSTLRTICMQHGPLLTFFHLNLQTGTALIRYSTKQEAQAQTALHMCVLTNTILAEFATD
DEVSRLAQAQPPPTAATPSAPAAGWQSLETGQNQSDPVGPALNLFGGSTGLGQWSSSAGGSSGADLAGA
SLWGPPNYSSSLWGVPTVEDPHRMGSPAPLLPGDLLGGSDSI

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCGGCGGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTACTAGTACGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

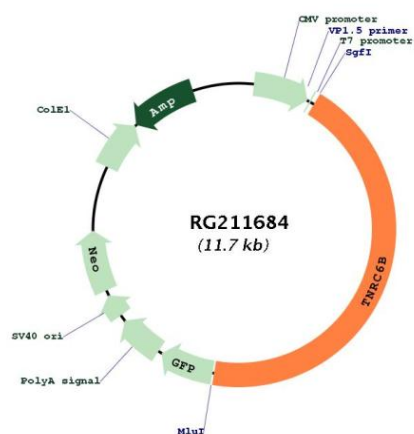
T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCGCGGAGCT

- - E E R V Stop

ACCN:	NM_015088
ORF Size:	5169 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_015088.3
RefSeq Size:	17967 bp
RefSeq ORF:	5172 bp
Locus ID:	23112
UniProt ID:	Q9UPQ9
Cytogenetics:	22q13.1
Gene Summary:	Plays a role in RNA-mediated gene silencing by both micro-RNAs (miRNAs) and short interfering RNAs (siRNAs). Required for miRNA-dependent translational repression and siRNA-dependent endonucleolytic cleavage of complementary mRNAs by argonaute family proteins. As scaffolding protein associates with argonaute proteins bound to partially complementary mRNAs and simultaneously can recruit CCR4-NOT and PAN deadenylase complexes. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG211684