

## Product datasheet for **RG201043**

### TRBP (TARBP2) (NM\_004178) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TRBP (TARBP2) (NM_004178) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TARBP2
Synonyms:	LOQS; TRBP; TRBP1; TRBP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201043 representing NM_004178 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGAAGAGGAGCAAGGCTCCGGCACTACCACGGGCTGCGGGCTGCCTAGTATAGAGCAAATGCTGG  
CCGCCAACCCAGGCAAGACCCCGATCAGCCTTCTGCAGGAGTATGGGACCAGAATAGGGAAGACGCCTGT  
GTACGACCTTCTCAAAGCCGAGGGCCAAGCCCACCAGCCTAATTTACCTTCCGGGTACCGTTGGCGAC  
ACCAGTGCCTGGTCCAGGGCCCAAGCAAGGCAAGCACAAGGCAGCTGAGGTGGCCCTCAAAC  
ACCTCAAAGGGGGGAGCATGCTGGAGCCGCCCCTGGAGGACAGCAGTTCTTTTTCTCCCCTAGACTCTTC  
ACTGCCTGAGGACATTCGGTTTTACTGCTGCAGCAGCTGCTACCCAGTTCATCTGTAGTCCTAACCC  
AGGAGCCCCCATGGAAGTGCAGCCCCCTGTCTCCCCTCAGCAGTCTGAGTGAACCCCGTTGGTGCTC  
TGCAGGAGCTGGTGGTGCAGAAAGGCTGGCGGTTGCCGGAGTACACAGTGACCCAGGAGTCTGGGCCAGC  
CCACCCGAAAGAATTCACCATGACCTGTGAGTGGAGCGTTTCATTGAGATTGGGAGTGGCACTTCCAAA  
AAATTGGCAAAGCGGAATGCGGCGGCCAAAATGCTGCTTCGAGTGCACACGGTGCCTCTGGATGCCCGG  
ATGGCAATGAGGTGGAGCCTGATGATGACCACTTCTCCATTGGTGTGGGCTCCCCTGGATGGTCTTCG  
AAACCGGGGCCAGGTTGCACCTGGGATTTCTACGAAATTCAGTAGGAGAGAAGATCCTGTCCCTCCGC  
AGTTGCTCCCTGGGCTCCCTGGGTGCCCTGGGCCCTGCCTGCTGCCGTGTCTCAGTGGCTCTCTGAGG  
AGCAGGCCTTTCAGTACGCTACCTGGATATTGAGGAGCTGAGCCTGAGTGGACTCTGCCAGTGCCTGGT  
GGAAGTGTCCACCCAGCCGGCCACTGTGTGTCATGGCTCTGCAACCACCGAGGAGGCAGCCCGTGGTGAG  
GCTGCCCGCCGTGCCCTGCAGTACCTCAAGATCATGGCAGGCAGCAAG

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201043 representing NM\_004178  
Red=Cloning site Green=Tags(s)

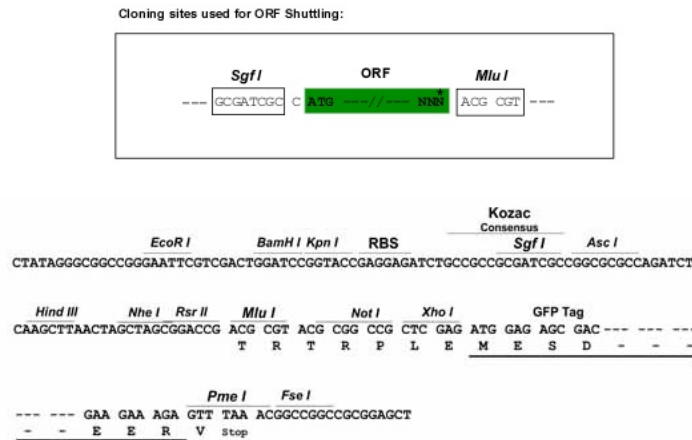
MSEEEQGS GTT TGCGLPSIEQMLAANPGKTPISLLQEYGTTRIGKTPVYDLLKAEGQAHQPNTFRVTVGD  
 TSCTGQGPSKKA AKHKA AEVALKHLKGGSMLEPALEDSSSF SPLDSSL PEDIPVF TAAAAATPVPSVVL T  
 RSPPMELQPPVSPQQSECNPVGALQELVVQKGWRLPEYVTVQESGPAHRKEFTMTCRVERFIEIGSGT SK  
 KLA KRNA AAKMLLRVHTVPLDARDGNEVEPDDDDHFSIGVGSRLDGLRNRGPGCTWDSL RNSVGEKILSLR  
 SCSL GSLGALGPACCRVLS ESEQAFHVS YLDIEELSL SGLCQCLVELSTQPATVCHGSATTREARGE  
 AARRALQYLKIMAGSK

TRTRPLE - GFP Tag - V

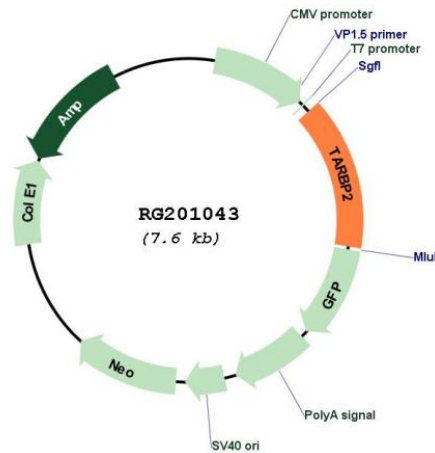
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_004178

<b>ORF Size:</b>	1035 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004178.4</a> , <a href="#">NP_004169.3</a>
<b>RefSeq Size:</b>	1448 bp
<b>RefSeq ORF:</b>	1038 bp
<b>Locus ID:</b>	6895
<b>UniProt ID:</b>	<a href="#">Q15633</a>
<b>Cytogenetics:</b>	12q13.13
<b>Domains:</b>	DSRM
<b>Protein Families:</b>	Stem cell - Pluripotency
<b>Gene Summary:</b>	HIV-1, the causative agent of acquired immunodeficiency syndrome (AIDS), contains an RNA genome that produces a chromosomally integrated DNA during the replicative cycle. Activation of HIV-1 gene expression by the transactivator Tat is dependent on an RNA regulatory element (TAR) located downstream of the transcription initiation site. The protein encoded by this gene binds between the bulge and the loop of the HIV-1 TAR RNA regulatory element and activates HIV-1 gene expression in synergy with the viral Tat protein. Alternative splicing results in multiple transcript variants encoding different isoforms. This gene also has a pseudogene. [provided by RefSeq, Jul 2008]