

## Product datasheet for **SC121518**

### TRBP (TARBP2) (NM\_134324) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TRBP (TARBP2) (NM_134324) Human Untagged Clone
Tag:	Tag Free
Symbol:	TARBP2
Synonyms:	LOQS; TRBP; TRBP1; TRBP2
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_134324, the custom clone sequence may differ by one or more nucleotides

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ATGCTGGCCGCCAACCCAGGCAAGACCCCGATCAGCCTTCTGCAGGAGTATGGGACCAGAATAGGGAAGA  
CGCCTGTGTACGACCTTCTCAAAGCCGAGGGCCAAAGCCACCAGCCTAATTTACCTTCCGGGTACCCGT  
TGGCGACACCAGCTGCACTGGTCAGGGCCCCAGCAAGAAGGCAGCCAAGCACAAGGCAGCTGAGGTGGCC  
CTCAAACACCTCAAAGGGGGGAGCATGCTGGAGCCGGCCCTGGAGGACAGCAGTTCTTTTCTCCCCTAG  
ACTCTTCACTGCCTGAGGACATTCGGTTTTTACTGCTGCAGCAGCTGCTACCCAGTTCATCTGTAGT  
CCTAACCCAGGAGCCCCCATGGAAGTGCAGCCCTGTCTCCCCTCAGCAGTCTGAGTGAACCCCGTT  
GGTGTCTGCAGGAGCTGGTGGTGCAGAAAGGCTGGCGGTTGCCGGAGTACACAGTGACCCAGGAGTCTG  
GGCCAGCCACCGCCAAAGAATTCACCATGACCTGTGAGTGGAGCGTTTCATTGAGATTGGGAGTGGCAC  
TTCCAAAAAATTGGCAAAGCGGAATGCGGCGGCCAAAAATGCTGCTTCGAGTGCACACGGTGCCTCTGGAT  
GCCCGGATGGCAATGAGGTGGAGCCTGATGATGACCACTTCTCCATTGGTGTGGGCTCCCGCCTGGATG  
GTCTTCGAAACCGGGGCCAGGTTGCACCTGGGATTCTCTACGAAATTCAGTAGGAGAGAAGATCCTGTC  
CCTCCGCAGTTGCTCCCTGGGCTCCCTGGTGGCCTGGGCCCTGCCTGCTGCCGTGCTCCTCAGTGAGCTC  
TCTGAGGAGCAGGCCTTTCACGTCAGTACCTGGATATTGAGGAGCTGAGCCTGAGTGGACTCTGCCAGT  
GCCTGGTGGAACTGTCCACCAGCCGGCCACTGTGTGTCATGGCTCTGCAACCAGGGAGGCAGCCCCG  
TGGTGGGCTGCCCGCCGTGCCCTGCAGTACCTCAAGATCATGGCAGGCAGCAAGTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_134324 unedited GGGGGCCAAAGCAGTTATTTTCNNNNNGGGGTTGGGATTTGTATCCGACTTATATAGGCGG CCGCGCAATGCTGGCCGCAACCCAGGCAAAACCCCGATCAGCCTTCTGCAGGAGTATGG GACCAGAATAGGGAAGACGCCTGTGTACGACCTTCTCAAAGCCGAGGGCCAAGCCCACCA GCCTAATTTACCTTCCGGGTACCGTTGGCGACACCAGCTGACTGGTCAGGGCCCCAG CAAGAAGGCAGCCAAGCACAAGGCAGCTGAGGTGGCCCTCAAACACCTCAAAGGGGGGAG CATGCTGGAGCCGGCCCTGGAGGACAGCAGGTGAGGGAGGAACCGAGGCATCCCAGAAGC CCTTCAAGGAACCCAGGCCCTGCACCACCACTCTGCCCGAGGCCTGGCCAGGTGACAC TTAGCCACCCTGACCTGGCCTTCTCCTGAGAGTCCCTCTGGACCTGAACAGGGTTTTCCA GGGCTTCTGCTGCTATGAAGAATTCTTGGGGTGGAGGGTTGGTTAGCCCATAGAGGGG TTGTGGCAGTAGGTTGGGGCCTGGGTTAGGGAGGGAGAGGGGTAGAGGCTTGAGGCTAA GGGAGTTACTCCCAACATACCTCCTTGTCTAGCAAGATGTCCTTCTTACGCGCAGG TTGGAGTTTGTCTCCTCTGGTCTTGGGTACAAAGATACCCTTCTCTGAGACTCTC TTTTCTCAGTCTTTTCGCCGGTGTGGCAGCANAGGGATCCGAGAGGAAGCTGNTGGTT GACCCTCCTGTATCTTTGGCTCAATTTGGAAGTCTCTTAGGGGATTGGGAGGGCAGGA GGACCTGGGTTCCCCACCCTTTTTCCCCCTTAACATGGTTGGGAATAAAAGCCCCCTT CCCTCGGGAAGGTCTTTTTCTCCCTAAAATTTTCATGGCTGAGAAAATTCGGGTTTTATG TTGAACAGCTCTCCCCAGTTCCTTTGTAGCCTACCGGTTTTG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_134324
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">NM_134324.1</a></u> , <u><a href="#">NP_599151.1</a></u>
<b>RefSeq Size:</b>	1488 bp
<b>RefSeq ORF:</b>	1488 bp
<b>Locus ID:</b>	6895
<b>UniProt ID:</b>	<u><a href="#">Q15633</a></u>
<b>Cytogenetics:</b>	12q13.13
<b>Protein Families:</b>	Stem cell - Pluripotency

**Gene Summary:**

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]

Transcript Variant: This variant (2) has an alternate 5' exon and uses a downstream AUG codon for translation, as compared to variant 1. The encoded isoform (b) thus has a shorter N-terminus, as compared to isoform a.