

## Product datasheet for MR205621

### Tarbp2 (NM\_009319) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tarbp2 (NM_009319) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tarbp2
Synonyms:	Prbp; TRBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205621 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGAAGAGGATCAGGGCTCCGGCACTACTACAGGCTGCGGGCTGCCAGCATAGAGCAAATGCTGG  
CCGCCAACCCGGCAAGACCCCGATCAGCCTTCTTCAGGAGTATGGGACCAGAATAGGAAAGACGCCCGT  
GTACGACCTTCTCAAAGCCGAGGGCCAAGCCCATCAACCTAATTTACCTTTTCGGGTACCGTTGGCGAC  
ACCAGCTGCACTGGTCAGGGCCCAGCAAGAAGGCAGCCAAGCACAAGGCAGCTGAGGTGGCCCTCAAAC  
ACCTCAAAGGGGGGAGCATGCTGGAACCCAGCCCTGGAGGACAGCAGTTCTTTTTCTCTCCTAGACTCTT  
ACCGCCTGAGGACTCCTGTCTGTTGCTGCAGAAGCTGCTGCCCTGTTCCATCTGCTGTAACCAAGG  
AGCCCTCCCATGGAGATGCAGCCCTGTCTCTCCTCAGCAGTCTGAGTGAACCCCGTCCGGTCTGCTGC  
AGGAGCTGGTGGTGCAAAAAGGCTGGCGTTTGCCAGAGTACATGGTGACCCAAGAGTCTGGGCTGCTCA  
CCGCAAAGAGTTCACCATGACTTGCCGGTGGAGCGTTTCATTGAGATTGGCAGTGGCACTTCCAAAAAG  
CTGGCAAAGCGTAACGCAGCAGCTAAGATGCTCCTTCGAGTGCACACTGTACCTTGGATGCCCGGGATG  
GCAATGAGGCAGAGCCTGATGACGATCATTTTTCCATTGGCGTGAGCTCCCGCCTGGATGGACTGAGGAA  
TCGTGGCCAGGCTGCACCTGGGATTCCTTGCAGAAATTCGTGGGAGAAAAGATCCTATCCCTTCGCAGT  
TGCTCCGTGGCTCTCTAGGGCTCTGGCTCTGCCTGCTGAGTGTCTCAGTGTCTCTGAGGAGC  
AGGCTTTCCATGTCAGCTATCTGGATATTGAGGAAGTGCAGCTGAGTGGGCTCTGCCAGTGCCTAGTGGA  
ACTGTCCACCCAGCCAGCCACTGTGTATTGTTTCTGCAACCACCAGGGAGGCAGCCCGAGGTGATGCT  
GCTCACCGCGCCCTACAGTACCTCAGGATCATGGCGGTAGCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205621 protein sequence  
Red=Cloning site Green=Tags(s)

MSEEDQGS GTT TGCGLPSIEQMLAANPGKTPISLLQEYGTTRIGKTPVYDLLKAEGQAHQPNFTFRVTVD  
 TSCTGQGPSKKA AKHKA AEVALKHLKGGSMLEPALEDSSFSLLDSSPPEDTPVVAEAAAPVPSAVLTR  
 SPPMEMQPPVSPQQSECNPVGALQELVVQKGWRLPEYMTQESGPAHRKEFTMTCRVERFIEIGSGTSKK  
 LAKRNAAKMLLRVHTVPLDARDGNEAEPDDHFSIGVSSRLDGLRNRGPGCTWDSL RNSVGEKILSLRS  
 CSVGSLGALGSACCSVLSELSEEQAFHVSYL DIEELSL SGLCQCLVELSTQPATVCYGSATTREAAARGDA  
 AHRALQYLRIMAGSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009319

**ORF Size:** 1098 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\\_009319.3](#)

**RefSeq Size:** 1806 bp

**RefSeq ORF:** 1098 bp

**Locus ID:** 21357

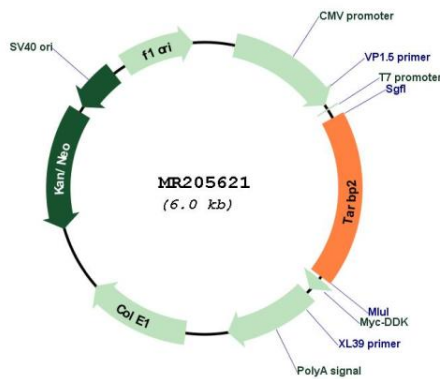
**UniProt ID:** [P97473](#)

**Cytogenetics:** 15 57.65 cM

**MW:** 38.8 kDa

**Gene Summary:** Required for formation of the RNA induced silencing complex (RISC). Component of the RISC loading complex (RLC), also known as the micro-RNA (miRNA) loading complex (miRLC), which is composed of DICER1, AGO2 and TARBP2. Within the RLC/miRLC, DICER1 and TARBP2 are required to process precursor miRNAs (pre-miRNAs) to mature miRNAs and then load them onto AGO2. AGO2 bound to the mature miRNA constitutes the minimal RISC and may subsequently dissociate from DICER1 and TARBP2. May also play a role in the production of short interfering RNAs (siRNAs) from double-stranded RNA (dsRNA) by DICER1 (By similarity). Binds in vitro to the PRM1 3' UTR. Seems to act as a repressor of translation (PubMed:8649414).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR205621