

Product datasheet for **MG205621**

Tarbp2 (BC002028) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tarbp2 (BC002028) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tarbp2
Synonyms:	Prbp; TRBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205621 representing BC002028 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGAAGAGGATCAGGGCTCCGGCACTACTACAGGCTGCGGGCTGCCAGCATAGAGCAAATGCTGG
CCGCCAACCCGGCAAGACCCCGATCAGCCTTCTTCAGGAGTATGGGACCAGAATAGGAAAGACGCCCGT
GTACGACCTTCTCAAAGCCGAGGGCCAAGCCCATCAACCTAATTTACCTTTTCGGGTACCGTTGGCGAC
ACCAGCTGCACTGGTCAGGGCCCCAGCAAGAAGGCAGCCAAGCACAAGGCAGCTGAGGTGGCCCTCAAAC
ACCTCAAAGGGGGGAGCATGCTGGAACCCAGCCCTGGAGGACAGCAGTTCTTTTTCTCTCTAGACTCTTC
ACCGCCTGAGGACTCCTGTCTGTGTCAGAAGCTGCTGCCCTGTTCCATCTGCTGTAACCAAGG
AGCCCTCCCATGGAGATGCAGCCCTGTCTCTCCTCAGCAGTCTGAGTGAACCCCGTCCGGTCTGCTGC
AGGAGCTGGTGGTGCAAAAAGGCTGGCGTTTGCCAGAGTACATGGTGACCCAAGAGTCTGGGCTGCTCA
CCGCAAAGAGTTCACCATGACTTGCCGGTGGAGCGTTTCATTGAGATTGGCAGTGGCACTTCCAAAAAG
CTGGCAAAGCGTAACGCAGCAGCTAAGATGCTCCTTCGAGTGCACACTGTACCTTGGATGCCCGGGATG
GCAATGAGGCAGAGCCTGATGACGATCATTTTTCCATTGGCGTGAGCTCCCGCCTGGATGGACTGAGGAA
TCGTGGCCAGGCTGCACCTGGGATTCCTTGCAGAAATTCGTGGGAGAAAAGATCCTATCCCTTCGCAGT
TGCTCCGTGGCTCTCTAGGGCTCTGGGCTCTGCCTGCTCAGTGTCTCAGTGTCTCTGAGGAGC
AGGCTTTCCATGTCAGCTATCTGGATATTGAGGAAGTGCAGCTGAGTGGGCTCTGCCAGTGCCTAGTGGA
ACTGTCCACCCAGCCAGCCACTGTGTATTGTTTCTGCAACCACCAGGGAGGCAGCCCGAGGTGATGCT
GCTCACCGCGCCCTACAGTACCTCAGGATCATGGCGGTAGCAAG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205621 representing BC002028
Red=Cloning site Green=Tags(s)

MSEEDQGS GTT TGCGLPSIEQMLAANPGKTPISLLQEYGT RIGKTPVYDLLKAEGQAHQPNFTFRVTVD
 TSCTGQGPSKKA AKHKA AEVALKHLKGGSMLEPALEDSSSFLLDSSPPEDTPVVAEAAAAPVPSAVLTR
 SPPMEMQPPVSPQQSECNPVGALQELVVQKGWRLPEYMTQESGPAHRKEFTMTCRVERFIEIGSGTSKK
 LAKRNAAAKMLLRVHTVPLDARDGNEAEPDDHFSIGVSSRLDGLRNRGPGCTWDSL RNSVGEKILSLRS
 CSVGSLGALGSACCSVLSELSEEQAFHVSYL DIEELSL SGLCQCLVELSTQPATVVCYGSATTREARGDA
 AHRALQYLRIMAGSK

TRTRPLE - GFP Tag - V

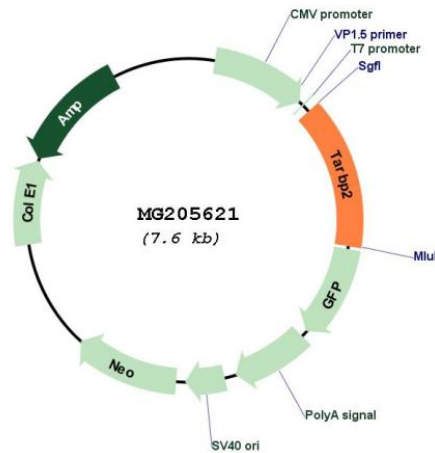
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

BC002028

ORF Size:	1097 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:	<ol style="list-style-type: none">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:	BC002028 , AAH02028
RefSeq Size:	1514 bp
RefSeq ORF:	1097 bp
Locus ID:	21357
Cytogenetics:	15 57.65 cM
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]