

Product datasheet for **MR222550**

Tpbg (NM_001164792) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tpbg (NM_001164792) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tpbg
Synonyms:	5T4; AW495680; WAIF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222550 representing NM_001164792
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTGGGGCGGGCTCCCGGGGCCCTCCGCCGGGACGGACGGCTGAGGTTGGCAAGGCTGGCGCTAG
 TGCTGCTGGGTTGGGTCTCCGCGTCGGCCCCAGCTCTTCGGTACCCTCGTCTTCCACCTCCCCGGCAGC
 TTCCTGGCCTCGGGTCTGCGCAGCCTCCGCCAGCCGAGAGATGCCCGCGGCGTGCGAGTGCTCCGAG
 GCGGCGGCACGGTTAAGTGCCTGAACCGAACCTGCTGGAGGTGCCGGCGGATCTACCGCTTACGTGC
 GCAACCTTTTCTTACCGCAACCAGATGACCGTCTCCCGCGGGCGCCTTCGCCCGCCAGCCGCCGT
 CGCCGACCTGGAGGCGCTCAACCTCAGCGGCAACCACCTGAAGGAGGTGTGTGCAGGTGCCTTCGAGCAT
 CTGCCGGTCTGCGCCGGCTTACCTCAGCCACAACCCTCTACCAACCTCAGCGCCTTCGCTTTGCGG
 GCAGCAACGCCAGCGTCTCGGCCCCAGCCCCGGAGGAGCTGATCCTGAATCACATCGTGCCCTGTA
 GGATCAGAGGCAGAACGGGAGCTTCGAGGGTATGGTGGCCTTCGAAGGCATGGTGGCAGCAGCTCTGCC
 TCAGGCCTTGACTCCGAGGTCTTACATGCCTGGAGCTAGCCAGCAATCACTTTCTTTTCTGCCTCGGG
 ACTTACTAGCCAACTGCCGAGTCTCAGATACCTGGACCTCAGGAACAATTCCTGGTGAGCCTGACCTA
 CGCATCTTCCGCAACCTGACACACCTCGAAAGCCTCCACTTGGAGGACAATGCCCTCAAGGTCTTAC
 AACTCCACCTTGCTGAGTGGCAAGGCCTGGCTCATGTCAAGGTGTTCTGGACAACAATCCCTGGGTTT
 GCGACTGTACATGGCTGACATGGTGGCTTGGCTTAAAGAGACAGAGGTGGTGCCAGATAAAGCCAGGCT
 TACCTGCGCATCCCGGAGAAGATGAGGAATCGTGGCCTTTAGACCTCAACAGCTCTGACCTGGACTGT
 GACGCTGCTCTCCCAATCCCTGCAGACTTCTATGTCTTCTAGGTATTGTTTTAGCTCTGATAGGCG
 CTATTTTCTCTCGTTTTGTATTTGAACCGTAAAGGCATAAAAAAGTGGATGCATAACATCAGAGATGC
 CTGCAGGGATCACATGGAAGGGTATCATTACAGATACGAAATCAATGCGGACCCAGATTAACAAATCTT
 AGTTCCAACCTCGGATGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222550 representing NM_001164792
 Red=Cloning site Green=Tags(s)

MPGAGSRGPSAGDGRLLRLALVLLGWVSASAPSSSVPSSTSPAFLASGSAQPPAERCPAAACESE
 AARTVKCVNRNLLLEVPADLPPYVRNLF LTGNQMTVLPAGAFARQPPLADLEALNLSGNHLKEVCAGAFEH
 LPGLRRLDL SHNPLTNLSAFAGSNASVSAPSLEELILNHIVPPEDQRQNGSFEGMVAFEGMVAALR
 SGLALRGLTCL ELASNHF LFLPRDLAQLPSLR YLDLRNNSLVSLTYASFRNLTHLESLHLEDNALKVLH
 NSTLAEWQGLAHVKVFLDNNPWVDCYMDMVAWLKETEVVDPKARLTCAFPEKMRNRGLLDLNSSDLDC
 DAVLPQSLQTSYVFLGIVLALIGAI FLLVLYLNRKGIKKWMHNIIRDACRDHMEGYHYRYEINADPRLTNL
 SSNSDV

TRTRPLEQK**LISEEDLAANDILDYKDDDDK**V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



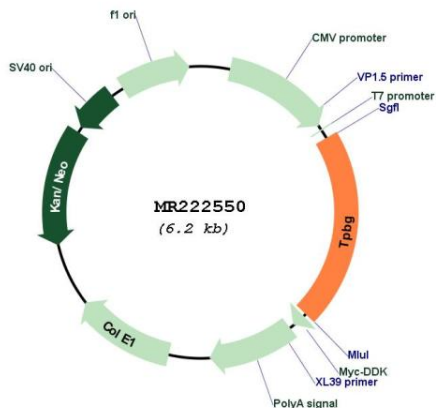
* The last codon before the Stop codon of the ORF

ACCN:	NM_001164792
ORF Size:	1278 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:	<u>NM_001164792.1</u> , <u>NP_001158264.1</u>
RefSeq Size:	3509 bp
RefSeq ORF:	1281 bp
Locus ID:	21983
UniProt ID:	<u>Q9Z0L0</u>
Cytogenetics:	9 E3.1

MW: 46.4 kDa

Gene Summary: May function as an inhibitor of Wnt/beta-catenin signaling by indirectly interacting with LRP6 and blocking Wnt3a-dependent LRP6 internalization.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222550