

## Product datasheet for **MG222191**

### **Pcbp2 (NM\_001103166) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pcbp2 (NM_001103166) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pcbp2
Synonyms:	alphaCP-2; AW412548; Hnrpx
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222191 representing NM_001103166 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACACCGGTGTGATTGAAGGTGGATTAATGTCACTCTCACCATCAGGCTACTTATGCATGGAAGG  
AAGTTGGCAGTATCATCGAAAGAAAGGAGAATCTGTTAAGAAGATGCGCGAGGAGAGTGGTGCACGTAT  
CAACATCTCAGAAGGGAATTGCTCTGAGAGAATTACACTTTGGCTGGACCGACTAATGCCATCTTCAA  
GCCTTTGCTATGATCATTGACAACTGGAAGAGGACATAAGCAGCTCTATGACCAATAGTACAGCTGCCA  
GTAGACCCCGGTTACCTTACGGCTGGTGGTTCCTGCTAGTCAGTGTGGCTCTCTTATTGAAAAGGTGG  
TTGCAAGATCAAGGAAAT AAGAGAGAGTACAGGGGCTCAGGTCCAGGTGGCAGGGGATATGCTCCCAAC  
TCAACTGAGCGGGCAATCACTATTGCTGGCATTCCGCAGTCCATCATTGAGTGTGTCAAACAGATCTGCG  
TGGTCATGTTGGAGTCCCCCGAAGGGCGTGACCATCCCGTACCGGCCAAGCCCTCCAGTTCTCCAGT  
CATCTTTGAGGTGGTCAGGCCTATACCATCAAGGACAGTATGCCATCCACAGCCAGATTTGACCAAG  
CTGCACCAGTTGGCAATGCAACAGTCTCATTTCCCATGACCCATGGCAACACCGGATTCAGTGGCATTG  
AATCCAGCTCTCCAGAGGTGAAAGGCTATTGGGCGAGTTGGATGCATCTGCTCAAACACTTCTCATGA  
ACTCACCATTCAAATGATTTGATTGGCTGCATAATCGGGCGTCAAGGCGCCAAAATCAATGAGATCCGT  
CAGATGTCTGGGCGCAGATCAAATGCAAACCCAGTGAAGGATCTACTGATCGGCAGGTTACCATCA  
CTGGATCTGCTGCCAGCATTAGCCTGGCTCAGTATCTAATCAATGTCAGGCTTTCCTCGGAGACAGGTGG  
CATGGGAGCAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG222191 representing NM\_001103166  
 Red=Cloning site Green=Tags(s)

MDTGVIEGGLNVLTIRLLMHGKEVGSIIIGKKGESVKKMREESGARINISEGNCPERIITLAGPTNAIFK  
 AFAMIIDKLEEDISSSMTNSTAASRPPVTLRLVVPASQCGSLIGKGGCKIKEIRESTGAQVQVAGDMLPN  
 STERAIT IAGIPQSIIECVKQICVVMLESPPKGV TIPYRPK PSSSPVIFAGGQAYTIQGQYAIQPDLTK  
 LHQLAMQQSHFPMTHGNTGFSGIESSSPEVKGYWAGLDASAQTTSHELTIPNDLIGCIIGRQGAKINEIR  
 QMSGAQIKIANPVEGSTDRQVTITGSAASISLAQYLINVRLSSETGGMGSS

TRTRPLE - GFP Tag - V

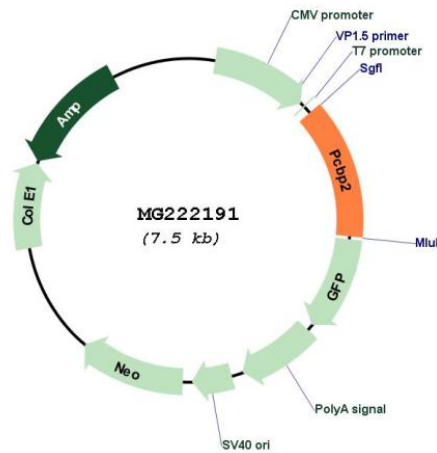
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001103166

**ORF Size:** 993 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_001103166.1</a> , <a href="#">NP_001096636.1</a>
<b>RefSeq Size:</b>	2775 bp
<b>RefSeq ORF:</b>	996 bp
<b>Locus ID:</b>	18521
<b>UniProt ID:</b>	<a href="#">Q61990</a>
<b>Cytogenetics:</b>	15 57.61 cM
<b>Gene Summary:</b>	Single-stranded nucleic acid binding protein that binds preferentially to oligo dC. Major cellular poly(rC)-binding protein. Binds also poly(rU). Negatively regulates cellular antiviral responses mediated by MAVS signaling. It acts as an adapter between MAVS and the E3 ubiquitin ligase ITCH, therefore triggering MAVS ubiquitination and degradation (By similarity).[UniProtKB/Swiss-Prot Function]