

## Product datasheet for MR222190

### Pcbp2 (NM\_001103165) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pcbp2 (NM_001103165) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pcbp2
Synonyms:	alphaCP-2; AW412548; Hnrpx
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222190 representing NM_001103165 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGACACCGGTGTGATTGAAGGTGGATTAATGTCACTCTCACCATCAGGCTACTTATGCATGGAAGG  
AAGTTGGCAGTATCATCGAAAGAAAGGAGAATCTGTTAAGAAGATGCGCGAGGAGAGTGGTGCACGTAT  
CAACATCTCAGAAGGGAATTGTCCTGAGAGAATTACACTTTGGCTGGACCGACTAATGCCATCTTCAA  
GCCTTTGCTATGATCATTGACAACTGGAAGAGGACATAAGCAGCTCTATGACCAATAGTACAGCTGCCA  
GTAGACCCCGGTTACCTTACGGCTGGTGGTTCCTGCTAGTCAGTGTGGCTCTCTTATTGAAAAGGTGG  
TTGCAAGATCAAGGAAAT AAGAGAGAGTACAGGGGCTCAGGTCCAGGTGGCAGGGGATATGCTCCCAAC  
TCAACTGAGCGGGCAATCACTATTGCTGGCATTCCGCAGTCCATCATTGAGTGTGTCAAACAGATCTGCG  
TGGTCATGTTGGAGTCCCCCGAAGGGCGTGACCATCCCGTACCGGCCAAGCCCTCCAGTTCTCCAGT  
CATCTTTGCAGGTGGTCAGGACAGGTACAGCACAGGCAGCGACAGTGGCAGCTTTCCCAACACCACCCCG  
TCCATGTGCCTCAACCCTGACCTGGAGGGACCCTCTAGAGGCTATACCATTCAAGGACAGTATGCCA  
TTCCACAGCCAGATTTGACCAAGCTGCACCAGTTGGCAATGCAACAGTCTCATTTCCATGACCCATGG  
CAACACCGGATTCAGTGGCATTGAATCCAGCTCTCCAGAGGTGAAAGGCTATTGGCAGGTTTGGATGCA  
TCTGCTCAAACACTTCTCATGAACTCACCATTCCAAATGATTTGATTGGCTGCATAATCGGGCGTCAAG  
GCGCCAAAATCAATGAGATCCGTGAGATGTCTGGGGCGCAGATCAAATTGCAAACCCAGTGAAGGATC  
TACTGATCGGCAGGTTACCATCACTGGATCTGCTGCCAGCATTAGCCTGGCTCAGTATCTAATCAATGTC  
AGGCTTTCCTCGGAGACAGGTGGCATGGGGAGCAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR222190 representing NM\_001103165  
 Red=Cloning site Green=Tags(s)

MDTGVIEGGLNVTLTIRLLMHGKEVGSIIIGKKGESVKKMREESGARINISEGNCPERIITLAGPTNAIFK  
 AFAMIIDKLEEDISSSMTNSTAASRPPVTLRLVVPASQCGSLIGKGGCKIKEIRESTGAQVQVAGDMLPN  
 STERAITIAGIPQSIIECVKQICVVMLESPPKGVTIPIYRKPSSSPVIFAGGQDRYSTGSDSASFPHHTP  
 SMCLNPDLEGPPEAYTIQGQYAIQPDLTKLHQLAMQQSHFPMTHGNTGFSGISSSPEVKGYWAGLDA  
 SAQTTSHELTIPNDLIGCCIIGRQGAKINEIRQMSGAQIKIANPVEGSTDRQVTITGSAASISLAQYLINV  
 RLSSETGGMGSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001103165

**ORF Size:** 1086 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\\_001103165.1](#), [NP\\_001096635.1](#)

**RefSeq Size:** 2868 bp

**RefSeq ORF:** 1089 bp

**Locus ID:** 18521

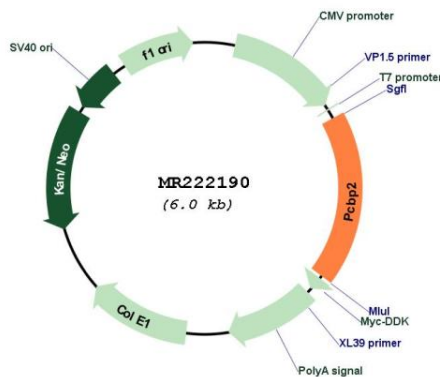
**UniProt ID:** [Q61990](#)

**Cytogenetics:** 15 57.61 cM

**MW:** 38.7 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for MR222190