

Product datasheet for **MG222189**

Pcbp2 (NM_011042) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pcbp2 (NM_011042) 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: >MG222189 representing NM_011042
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACACCGGTGTGATTGAAGGTGGATTAATGTCACTCTCACCATCAGGCTACTTATGCATGGAAGG
 AAGTTGGCAGTATCATCGGAAAGAAAGGAGAATCTGTTAAGAAGATGCGCGAGGAGAGTGGTGCACGTAT
 CAACATCTCAGAAGGGAATTGTCCTGAGAGAATTACTTTGGCTGGACCGACTAATGCCATCTTCAA
 GCCTTTGCTATGATCATTGACAACTGGAAGAGGACATAAGCAGCTCTATGACCAATAGTACAGCTGCCA
 GTAGACCCCGGTTACCTTACGGCTGGTGGTTCCTGCTAGTCAGTGTGGCTCTCTTATTGAAAAGGTGG
 TTGCAAGATCAAGGAAAT AAGAGAGAGTACAGGGGCTCAGGTCCAGGTGGCAGGGGATATGCTCCCAAC
 TCAACTGAGCGGGCAATCACTATTGCTGGCATTCCGCAGTCCATCATTGAGTGTGTCAAACAGATCTGCG
 TGGTCATGTTGGAGTCCCCCGAAGGGCGTGACCATCCCGTACCGGCCAAGCCCTCCAGTTCTCCAGT
 CATCTTTGCAGGTGGTCAGGACAGGTACAGCACAGGCAGCGACAGTGGCAGCTTTCCCAACACACCCCG
 TCCATGTGCCTCAACCCTGACCTGGAGGGACCCTCTAGAGGCCTATACCATTCAAGGACAGTATGCCA
 TTCCACAGCCAGATTTGACCAAGCTGCACCAGTTGGCAATGCAACAGTCTCATTTCCATGACCCATGG
 CAACACCGGATTCAGTGCAGGTTTGGATGCATCTGCTCAAACACTTCTCATGAACCTCACCATTCCAAAT
 GATTTGATTGGCTGCATAATCGGGCGTCAAGGCCAAAATCAATGAGATCCGTCAGATGTCTGGGGCGC
 AGATCAAAATTGCAAAACCCAGTGAAGGATCTACTGATCGCAGGTTACCATCACTGGATCTGTGCCAG
 CATTAGCCTGGCTCAGTATCTAATCAATGTCAGGCTTTCCTCGGAGACAGGTGGCATGGGGAGCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222189 representing NM_011042
 Red=Cloning site Green=Tags(s)

MDTGVIEGGLNVTLTIRLLMHGKEVGSIIIGKKGESVKKMREESGARINISEGNCPERIITLAGPTNAIFK
 AFAMIIDKLEEDISSSMTNSTAASRPPVTLRLVVPASQCGSLIGKGGCKIKEIRESTGAQVQVAGDMLPN
 STERAIT IAGIPQSIIECVKQICVVMLESPPKGVITIPYRPKPSSSPVIFAGGQDRYSTGSDSASFPHHTP
 SMCLNPDLEGPPEAYTIQGQYAIQPDLTKLHQLAMQQSHFPMTHGNTGF SAGLDASAQTT SHEL TIPN
 DLIGCIIGRQGAKINEIRQMSGAIKIANPVEGSTDRQVTITGSAASISLAQYLINVRLSSETGGMGSS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011042

ORF Size: 1047 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_011042.2](#), [NP_035172.2](#)

RefSeq Size: 2829 bp

RefSeq ORF: 1050 bp

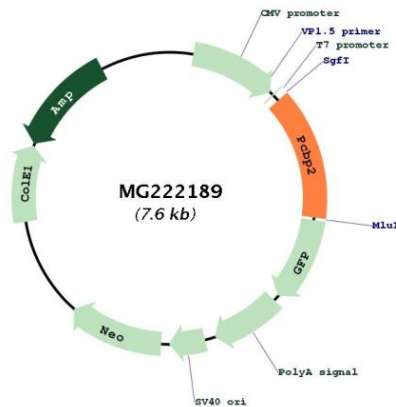
Locus ID: 18521

UniProt ID: [Q61990](#)

Cytogenetics: 15 57.61 cM

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 MG222189