

Product datasheet for MR222189

Pcbp2 (NM_011042) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pcbp2 (NM_011042) 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: >MR222189 representing NM_011042
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACACCGGTGTGATTGAAGGTGGATTAATGTCACTCTCACCATCAGGCTACTTATGCATGGAAGG
AAGTTGGCAGTATCATCGAAAGAAAGGAGAATCTGTTAAGAAGATGCGCGAGGAGAGTGGTGCACGTAT
CAACATCTCAGAAGGGAATTGCTCTGAGAGAATTACTTTGGCTGGACCGACTAATGCCATCTTCAA
GCCTTTGCTATGATCATTGACAACTGGAAGAGGACATAAGCAGCTCTATGACCAATAGTACAGCTGCCA
GTAGACCCCGGTTACCTTACGGCTGGTGGTTCCTGCTAGTCAGTGTGGCTCTCTTATTGAAAAGGTGG
TTGCAAGATCAAGGAAAT AAGAGAGAGTACAGGGGCTCAGGTCCAGGTGGCAGGGGATATGCTCCCAAC
TCAACTGAGCGGGCAATCACTATTGCTGGCATTCCGCAGTCCATCATTGAGTGTGTCAAAACAGATCTGCG
TGGTCATGTTGGAGTCCCCCGAAGGGCGTGACCATCCCGTACCGGCCAAGCCCTCCAGTTCTCCAGT
CATCTTTGCAGGTGGTCAGGACAGGTACAGCACAGGCAGCGACAGTGGCAGCTTTCCCAACACCACCCCG
TCCATGTGCCTCAACCCTGACCTGGAGGGACCCTCTAGAGGCCTATACCATTCAAGGACAGTATGCCA
TCCACAGCCAGATTTGACCAAGCTGCACCAGTTGGCAATGCAACAGTCTCATTTCCATGACCCATGG
CAACACCGGATTCAGTGCAGGTTTGGATGCATCTGCTCAAACACTTCTCATGAACCTCACCATTCCAAAT
GATTTGATTGGCTGCATAATCGGGCGTCAAGGCGCCAAAATCAATGAGATCCGTCAGATGTCTGGGGCGC
AGATCAAAATTGCAAACCCAGTGAAGGATCTACTGATCGCAGGTTACCATCACTGGATCTGTGCCAG
CATTAGCCTGGCTCAGTATCTAATCAATGTCAGGCTTTCCTCGGAGACAGGTGGCATGGGGAGCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222189 representing NM_011042
Red=Cloning site Green=Tags(s)

MDTGVIIEGGLNVTLTIRLLMHGKEVGSIIIGKKGESVKKMREESGARINISEGNCPERIITLAGPTNAIFK
 AFAMIIDKLEEDISSSMTNSTAASRPVTLRLVVPASQCGSLIGKGGCKIKEIRESTGAQVQVAGDMLPN
 STERAIT IAGIPQSIIECVKQICVVMLESPPKGV TIPYRKPSSSPVIFAGGQDRYSTGSDSASFPHHTP
 SMCLNPDLEGPPEAYTIQGQYAIQPDLTKLHQLAMQQSHFPMTHGNTGF SAGLDASAQTT SHEL TIPN
 DLIGCIIGRQGAKINEIRQMSGAIKIANPVEGSTDRQVTITGSAASISLAQYLINVRLSSETGGMGSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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

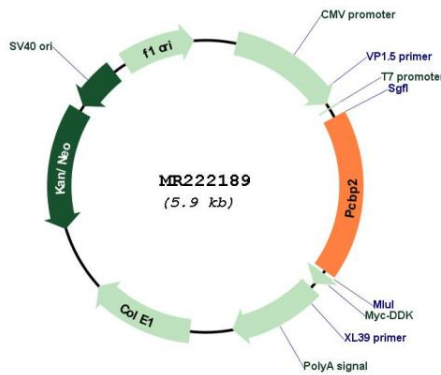
UniProt ID: [Q61990](#)

Cytogenetics: 15 57.61 cM

MW: 37.3 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 MR222189