

Resonance assignment of the first and second KH (hnRNP-K homology) domains of human poly(C)-binding protein-2 (PCBP2)

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Received: 9 December 2006 / Accepted: 26 December 2006 / Published online: 4 May 2007
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PCBP2 is a ~40 kDa protein containing three copies of the KH nucleic acid binding domain. It is a member of the PCBP family that recognizes poly(C) DNA and RNA sequences in mammalian cells. Binding poly(C) sequences via the KH domains is critical for various PCBP functions, such as mRNA stability, translational activation/suppression, etc. To better understand how PCBP functions are

regulated by RNA/DNA binding, we carried out NMR studies of the N-terminal KH domains of PCBP2 (residues 11-169, the NMR construct contains MKH₆K prior to the native sequence). The extent of backbone and overall ¹⁵N, ¹³C, and ¹H chemical shift assignments is 98 and 90% respectively. BMRB deposit with accession number 15049.

Electronic Supplementary Material The online version of this article (doi:[10.1007/s10858-007-9160-z](https://doi.org/10.1007/s10858-007-9160-z)) contains supplementary material, which is available to authorized users.

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