

Letter to the Editor

¹H, ¹³C, and ¹⁵N NMR assignment of the Rep protein nuclease domain from the *Porcine Circovirus* PCV2

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Circoviruses are the smallest known non-enveloped, single stranded circular DNA virus that replicate autonomously in mammalian cells (Mankertz et al., 2004). Essential to the putative Rolling Circle replication of these pathogens is the replication initiation or Rep protein. We report here the assignment of the nuclease domain, comprising residues 2–116, of the Rep protein from the *Porcine Circovirus* PCV2 (AAQ94098), which is the causative agent of postweaning multisystemic wasting syndrome in swine. As in our work with the Rep nuclease domain of a plant geminivirus (Campos-Olivas et al., 2002), the assignment was done utilizing 2-, 3-, and 4-D spectra of U-¹⁵N and U-(¹⁵N, ¹³C) labelled protein. The backbone and sidechain resonances of most residues are completely assigned, with the exception of some resonances from residues 2–9, and 113–114 that are part of flexible regions of the polypeptide chain N- and C-termini. BMRB access number is 6928.

References: Mankertz et al. (2004) *Vet. Microbiol.* **98**, 81–88; Campos-Olivas et al. (2002) *J. Biomol. NMR*, **99**, 10310–10315.

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