

Letter to the Editor

NMR assignment of domain 3 of the receptor-associated protein (RAP)

DOI 10.1007/s10858-006-9036-7

RAP is responsible for the maturation of the low density lipoprotein receptor related protein, which is involved in a wide variety of cellular activities in regulation of cellular physiology and cellular signaling events (Strickland et al., 2002). Despite wide interest in RAP, the three-dimensional structure of RAP has been elusive, due to extensive overlaps in ^{15}N -HSQC spectrum of RAP. Because RAP is reported to be a modular protein (Medved et al., 1999), we have adopted a divide-and-conquer strategy to solve the structure of RAP domain 3 (D3; residues 206–323). 2D and 3D heteronuclear NMR experiments with ^{13}C , ^{15}N -labeled D3 were used. The ^1H , ^{13}C , and ^{15}N assignments of D3 are essentially complete (94% non-labile ^1H ; 93% heavy atoms). The BMRB accession number is 6950.

References: Strickland et al. (2002) *Trends Endocrinol. Metab.*, **13**, 66–74; Medved et al. (1999) *J. Biol. Chem.*, **274**, 717–727.

Donghan Lee^{a,b}, Joseph D. Walsh^a, Ping Yu^{a,b}, Molly Migliorini^c, Yibing Wu^a, Dudley K. Strickland^{c,*} & Yun-Xing Wang^{a,*}

^aProtein-Nucleic Acid Interactions Section, Structural Biophysics Laboratory, Center for Cancer Research, NCI Frederick, NIH, Frederick, MD 21702, USA; ^bBasic Research Program, SAIC-Frederick Inc., NCI Frederick, Frederick, MD 21702, USA; ^cCenter for Vascular and Inflammatory Disease and the Departments of Surgery and Physiology, University of Maryland, School of Medicine, Baltimore, MD 21201, USA

*To whom correspondence should be addressed. E-mail: dstrickland@som.umaryland.edu; wangyu@ncifcrf.gov

Supplementary material to this paper is available in electronic format at <http://dx.doi.org/10.1007/s10858-006-9036-7>.