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Table 1. Stereospecific ^1H resonance assignments and χ torsion angle restraints for the N-terminal domain of β -Pol.

Residue	(ppm)	χ_1
Leu 19	$\delta^1\text{CH}_3$ 0.81 $\delta^2\text{CH}_3$ 0.70	
Val 20	$\gamma^1\text{CH}_3$ 0.94 $\gamma^2\text{CH}_3$ 1.01	$+180 \pm 50^\circ$
Leu 22	$\delta^1\text{CH}_3$ 0.74 $\delta^2\text{CH}_3$ 0.58	
Phe 25	$\text{H}\beta^3$ 3.46 $\text{H}\beta^2$ 3.29	$-60 \pm 50^\circ$
Tyr 36	$\text{H}\beta^3$ 3.09 $\text{H}\beta^2$ 3.32	$+180 \pm 50^\circ$
Tyr 39	$\text{H}\beta^3$ 3.27 $\text{H}\beta^2$ 2.90	$-60 \pm 60^\circ$
Val 45	$\delta^1\text{CH}_3$ 1.01 $\delta^2\text{CH}_3$ 1.13	$+60 \pm 60^\circ$
Tyr 49	$\text{H}\beta^3$ 3.27 $\text{H}\beta^2$ 3.18	$+180 \pm 60^\circ$
Leu 62	$\delta^1\text{CH}_3$ 0.38 $\delta^2\text{CH}_3$ 0.48	$+180 \pm 60^\circ$ ^a
Phe 76	$\text{H}\beta^3$ 3.35 $\text{H}\beta^2$ 3.18	$-60 \pm 50^\circ$

^a χ_2 angle

Table 2. Chemical Shifts Measured from the HMQC-J Spectra for the N-terminal Domain and for the N-terminal Domain-p(dT)₈ Complex.

Residue	Protein		Protein + DNA	
	NH	¹⁵ N	NH	¹⁵ N
5	8.44 ^a	127.3 ^a	8.43 ^a	127.2 ^a
6	8.40 ^a	130.4 ^a	8.40 ^a	130.4 ^a
7				
8	8.47	123.1	8.46 ^a	123.3 ^a
9	8.49	125.6	8.54	125.6
10	8.23	118.0	8.27	118.2
11	8.60 ^a	128.7 ^a	8.60 ^a	128.6 ^a
12	8.03	127.9	8.01	127.9
13	8.15 ^a	112.5 ^a	8.13 ^a	112.3 ^a
14	8.54	111.2	8.52 ^a	111.0 ^a
15	7.73	123.4	7.67	123.5
16	8.32	117.9	8.28	117.7
17	8.56	124.2	8.52	124.3
18	7.29	124.2	7.32	124.4
19	8.06	124.4	8.03	124.4
20	8.32	123.8	8.29	124.0
21	7.93	124.2	7.95	124.1
22	8.15	124.6	8.14	124.8
23	8.55	124.8	8.54	124.8
24	8.50	120.3	8.47	120.3
25	8.20	125.7	8.19	125.7
26	8.47	122.3	8.43	122.1
27	8.31	121.6	8.30	121.7
28	8.35	116.9	8.32	116.8
29	8.36	122.9	8.34	122.8
30 ^b	7.31	116.7	-	-
31	7.49	118.3	7.63	117.5
32	8.20	127.2	8.18	127.1
33	8.34	127.4	8.31	127.4
34	-	-	-	-
35 ^b	6.96	124.3	-	-
36	7.87	123.5	7.83	123.3
37	8.60	120.2	8.51	119.8
38	7.86	126.5	7.80	126.6
39	8.45	122.0	8.48	122.0
40	8.24	121.7	8.14	121.6
41	8.22	124.4	8.29	125.0
42	7.79	123.7	7.76	123.8
43	8.31	122.0	8.26	122.1
44	7.81	115.9	7.76	115.7
45	7.80	124.0	7.83	123.9
46	8.21	124.7	8.21	125.0
47	8.36	124.8	8.26	124.8
48	7.03	116.6	7.04	116.6
49	7.66	128.9	7.66	128.9

K-6200-MZ

50				
51	6.25	118.9	6.19	118.9
52	8.98	126.1	8.97	126.0
53	9.37	133.8	9.37	133.8
54	9.16	128.7	9.14	128.7
55	7.52	114.0	7.47	113.9
56	10.04	115.1	10.11	115.4
57	8.49	126.3	8.59	126.4
58	7.60	119.6	7.66	120.2
59	7.39	123.1	7.38	123.2
60	7.90	117.4	7.98	118.5
61	7.06	118.3	7.01	118.3
62	7.74	125.8	8.01	125.6
63				
64 ^b	8.51	112.6	-	-
65	7.55	124.1	7.48	124.1
66	7.45	112.6	7.50 ^c	114.0 ^c
67	-	-	9.51 ^a	115.3 ^a
68	8.18	121.2	8.24	121.6
69	7.78	122.8	7.89	123.3
70	8.15	125.7	8.05	125.5
71	7.92	120.1	7.72	120.3
72	7.51	122.3	7.78	122.4
73	8.20	123.7	8.42	123.9
74	8.31	123.0	8.35	123.3
75	8.01	123.5	8.11	124.1
76	8.28	124.7	8.35	125.2
77	8.78	123.1	8.89	123.2
78	7.93	123.5	7.90 ^d	124.1 ^d
79	7.87	111.6	7.88	111.3
80	8.20	114.4	8.24	114.5
81	7.89	122.4	7.89	122.3
82	8.08	123.6	8.05	123.0
83	8.35	125.7	8.36	124.5
84	8.30	125.6	8.32 ^e	125.4 ^e
85	8.16	126.2	8.23	125.8
86	8.25	124.4	8.19	124.4

^aFrom HMQC spectra.^bNo cross peaks were observed in the presence of p(dT)₈ for S30, K35, and G64.^cOverlaps with S55 in the complex.^dOverlaps with E21 in the complex.^eOverlaps with R83 in the complex.