SUPPORTING INFORMATION

Role of backbone dynamics in modulating interactions of disordered ligands with the TAZ1 domain of the CREB-binding protein

*Rebecca B. Berlow, Maria A. Martinez-Yamout, H. Jane Dyson and Peter E. Wright**

Department of Integrative Structural and Computational Biology and Skaggs Institute of Chemical Biology, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037, USA

*Corresponding author.
Phone: (858) 784-9721
E-mail address: wright@scripps.edu

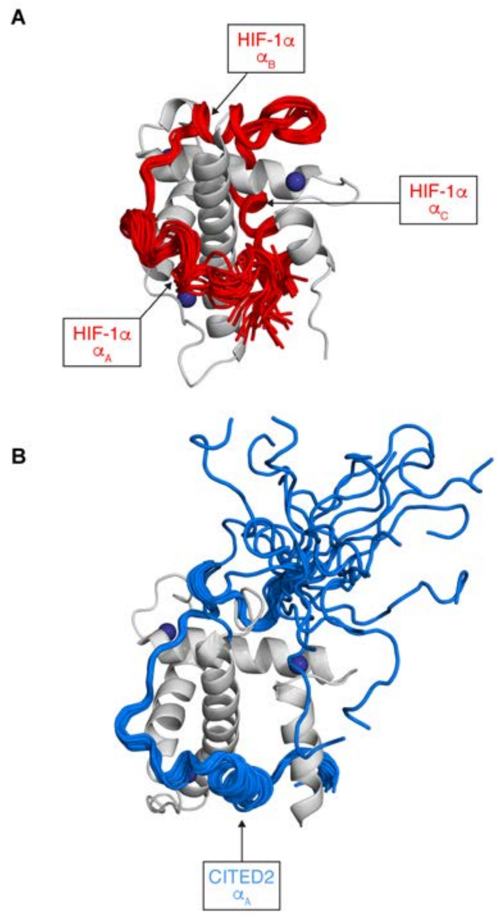

Figure S1. Structures of the HIF-1α:TAZ1 and CITED2:TAZ1 complexes. The 20 lowest energy solution structures of HIF-1α (A) and CITED2 (B) are shown in complex with TAZ1. Only the lowest energy structure of TAZ1 is shown in both A and B. The secondary structural elements of HIF-1α and CITED2 are labeled for reference. Zinc atoms are shown as dark blue spheres.

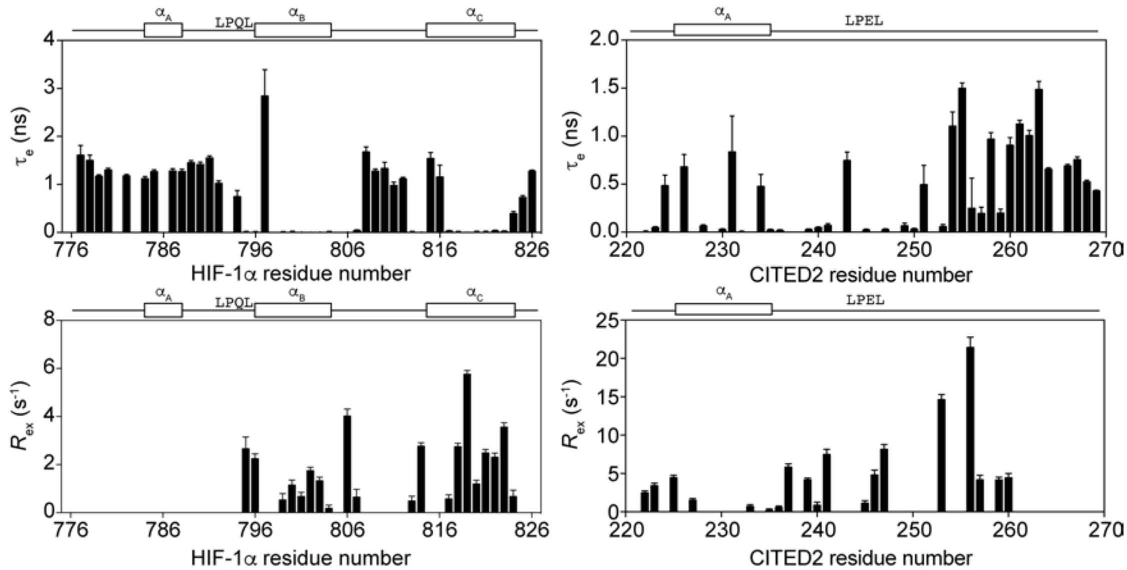

Figure S2. τ_e and R_{ex} values from Model-Free analysis of the ^{15}N HIF-1α:TAZ1 and ^{15}N CITED2:TAZ1 complexes. τ_e values (top) and R_{ex} values (bottom) are plotted as a function of HIF-1α (left) and CITED2 (right) residue number. The secondary structures formed by HIF-1α (left) and CITED2 (right) in complex with TAZ1 and the conserved LP(Q/E)L motif are shown above the graphs for reference.

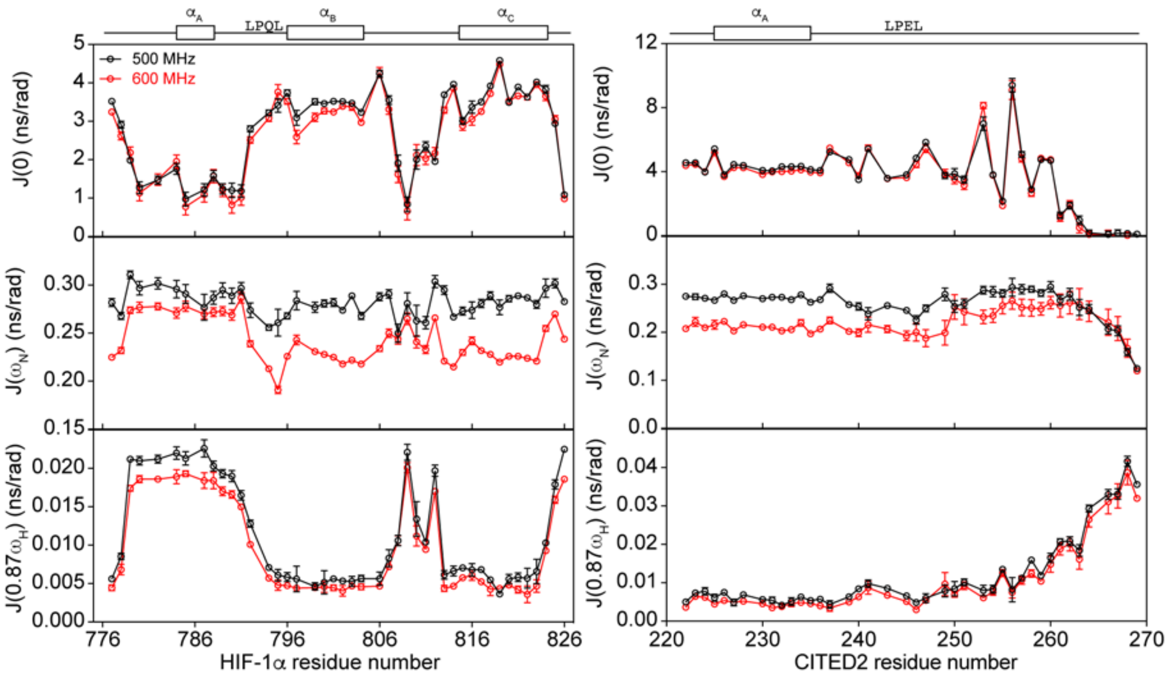

Figure S3. Reduced spectral density mapping for the [15]N HIF-1α:TAZ1 and [15]N CITED2:TAZ1 complexes. The spectral densities J(0), J(ω_N), and J($0.87\omega_H$) are mapped as a function of HIF-1α (left) and CITED2 (right) residue number for NMR spin relaxation data collected at 500 MHz (black) and 600 MHz (red). The secondary structures formed by HIF-1α (left) and CITED2 (right) in complex with TAZ1 and the conserved LP(Q/E)L motif are shown above the graphs for reference.

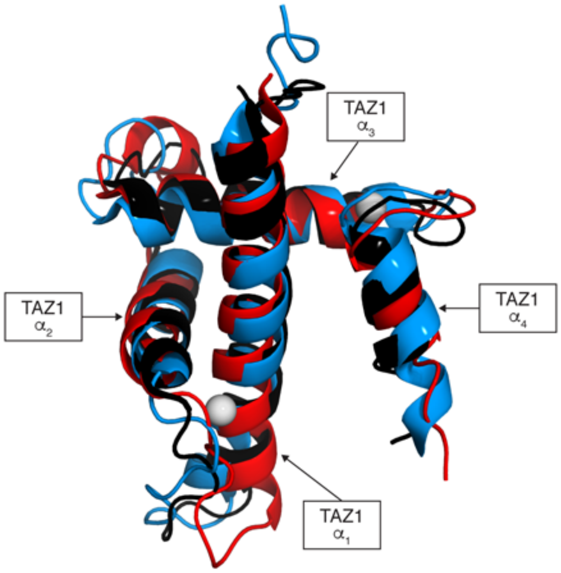

Figure S4. Comparison of the TAZ1 structure in its free and bound states. The lowest energy structures of free TAZ1 (black), TAZ1 bound to HIF-1α (red), and TAZ1 bound to CITED2 (blue) are superimposed. The TAZ1 helices are labeled for reference. The structures of bound HIF-1α and CITED2 peptides are omitted for clarity. Zinc atoms are shown as white spheres at their positions in the free TAZ1 structure.

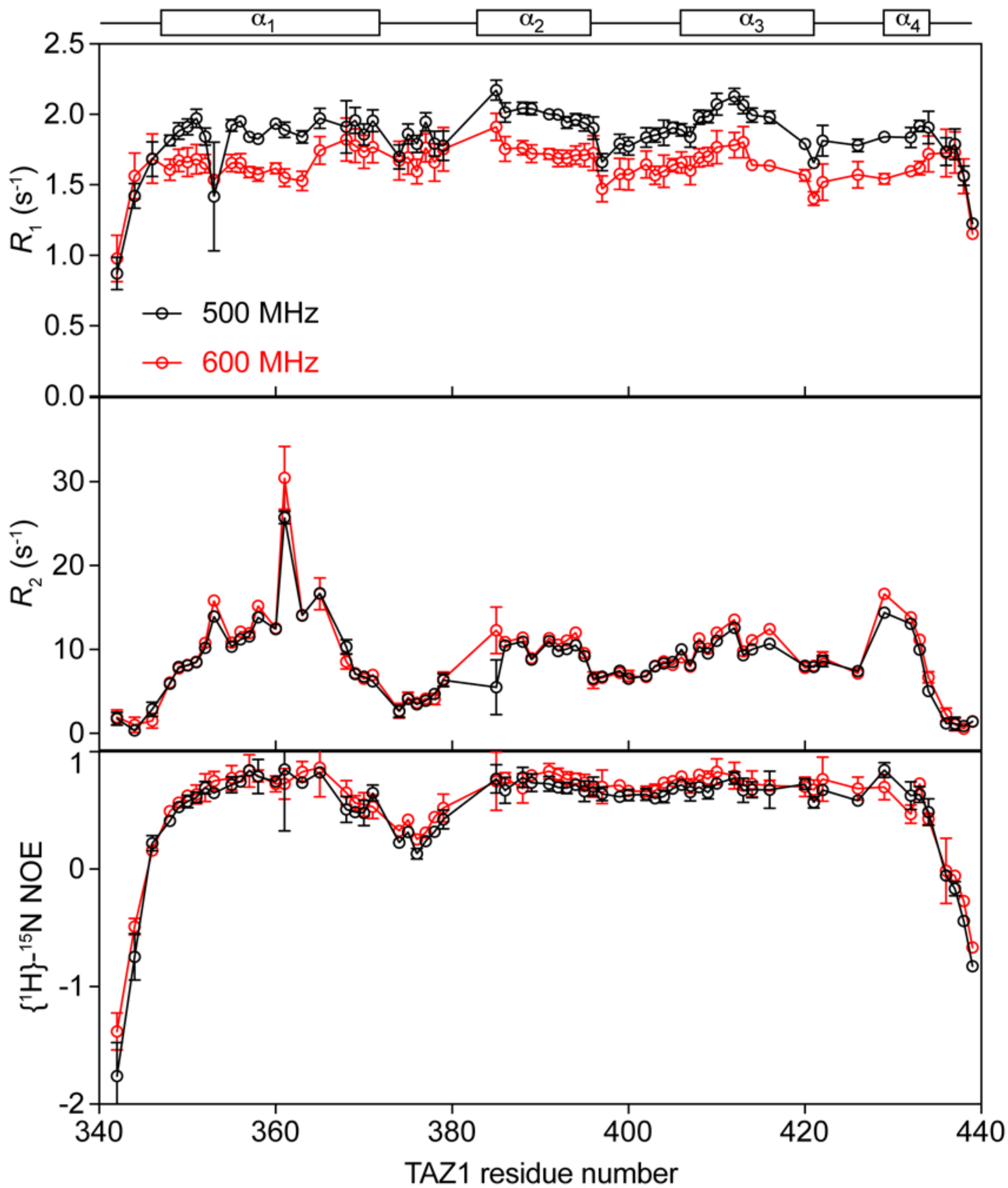

Figure S5A. NMR spin relaxation data for ^{15}N TAZ1. ^{15}N R_1, ^{15}N R_2, and {^{1}H}-^{15}N NOE data collected at 500 MHz (black) and 600 MHz (red) are shown for ^{15}N TAZ1. The helical regions of TAZ1 are shown above the graphs for reference.

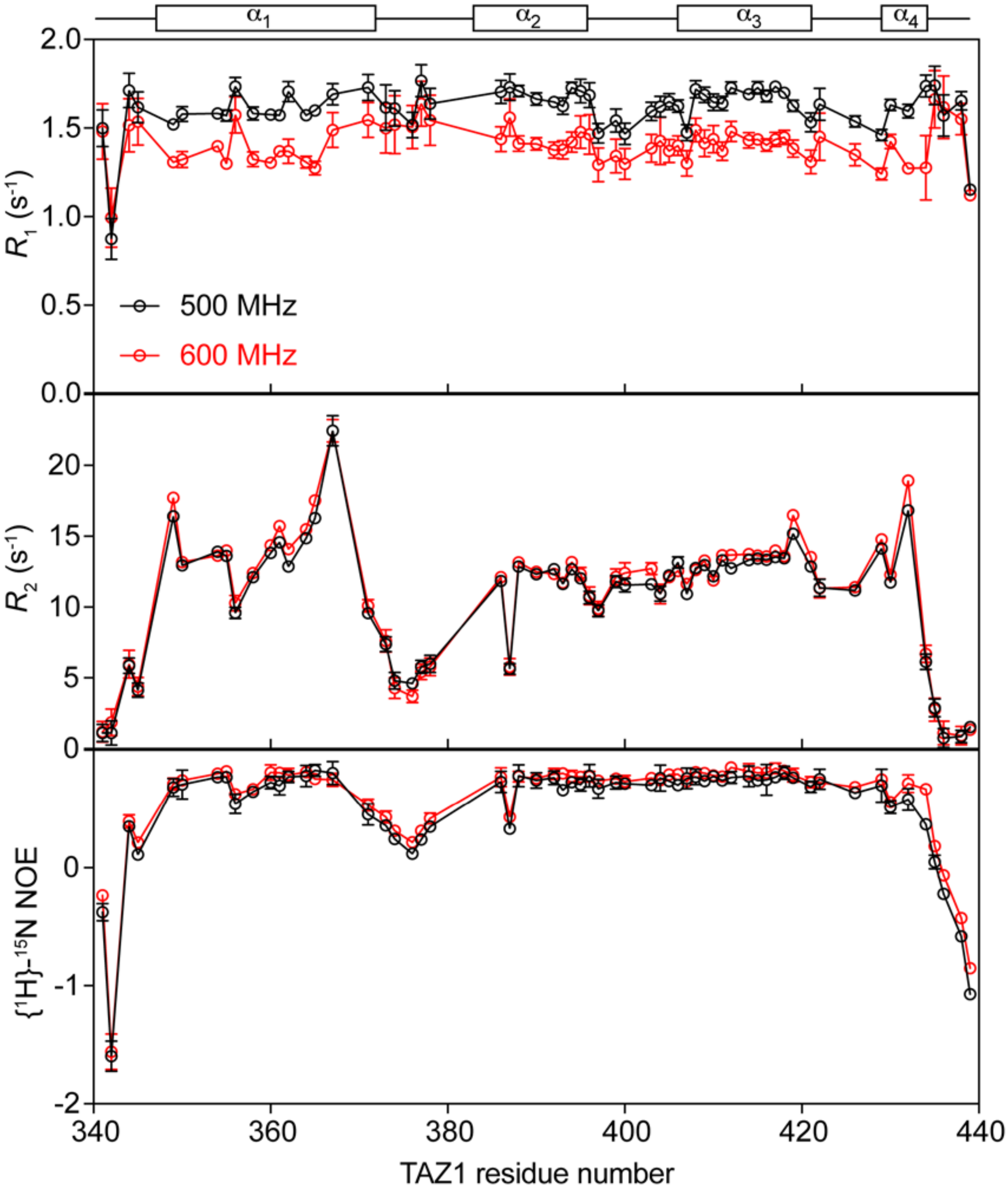

Figure S5B. NMR spin relaxation data for ^{15}N TAZ1:HIF-1α. ^{15}N R_1, ^{15}N R_2, and {^{1}H}-^{15}N NOE data collected at 500 MHz (black) and 600 MHz (red) are shown for ^{15}N TAZ1:HIF-1α. The helical regions of TAZ1 are shown above the graphs for reference.

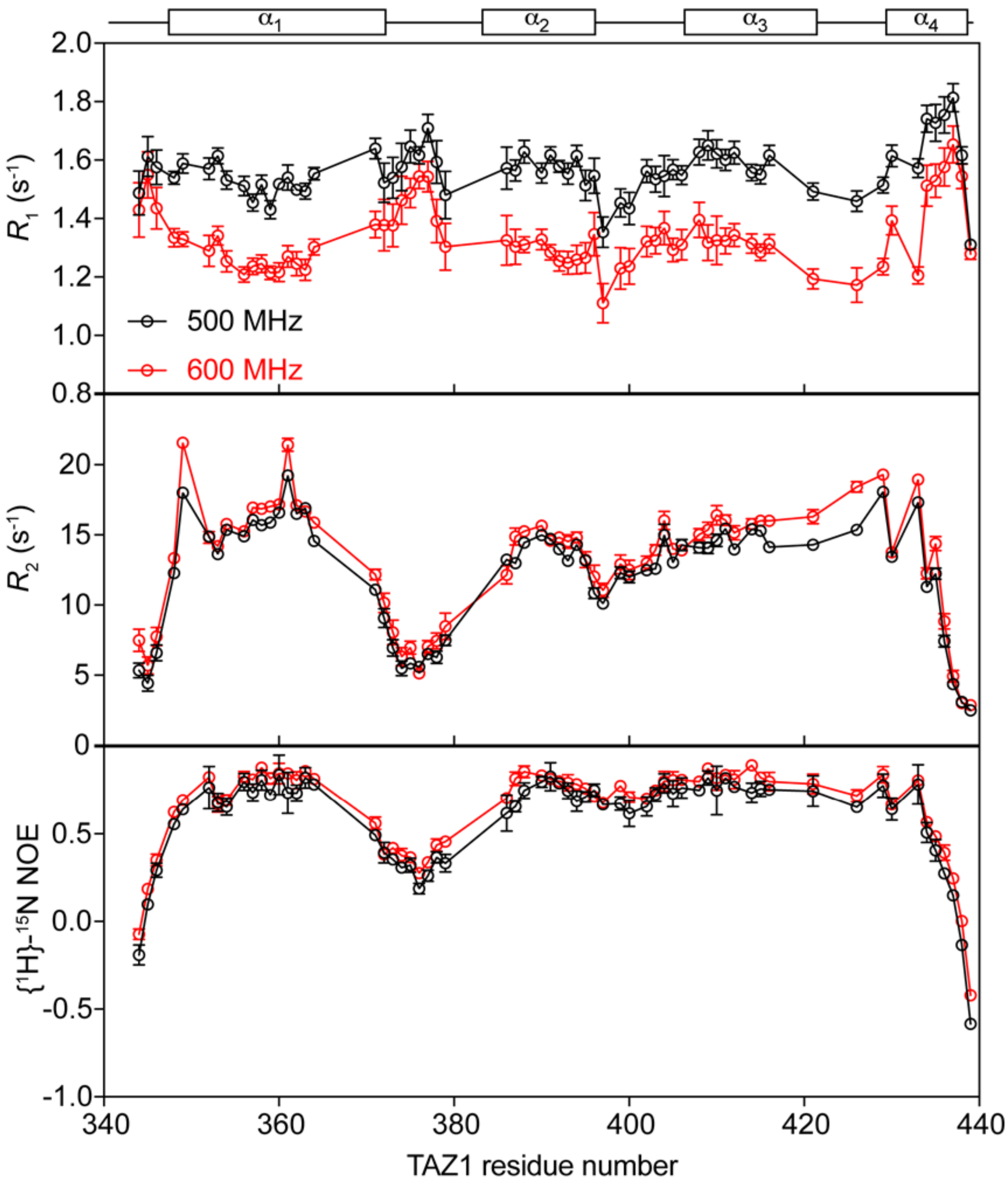

Figure S5C. NMR spin relaxation data for ^{15}N TAZ1:CITED2. ^{15}N R_1, ^{15}N R_2, and $\{^1H\}$-^{15}N NOE data collected at 500 MHz (black) and 600 MHz (red) are shown for ^{15}N TAZ1:CITED2. The helical regions of TAZ1 are shown above the graphs for reference.

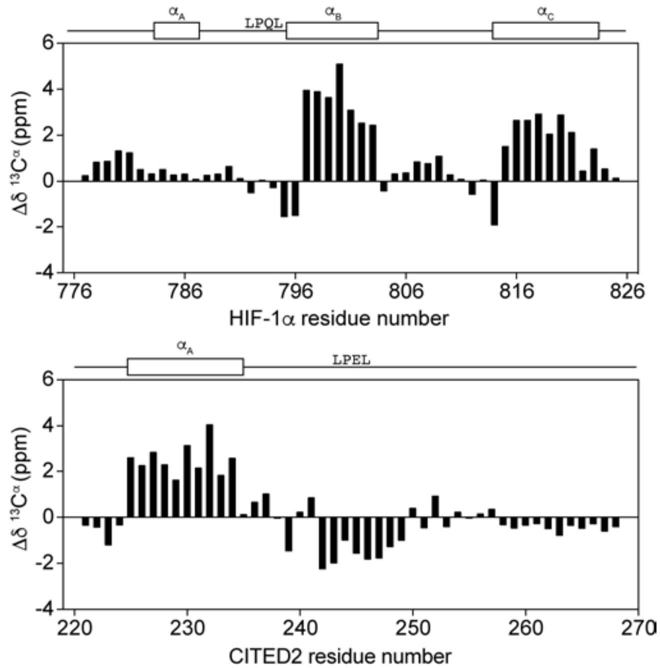

Figure S6. Differences between measured $^{13}C\alpha$ chemical shift values and predicted random coil chemical shifts for HIF-1α and CITED2 in complex with TAZ1. The sequence corrected random coil chemical shifts were determined using the program ncIDP[1]. The HIF-1α chemical shifts are from BMRB entry 5327 and the CITED2 chemical shifts are from BMRB entry 5987. The secondary structures formed by HIF-1α (top) and CITED2 (bottom) in complex with TAZ1 and the conserved LP(Q/E)L motif are shown above the graphs for reference.

Table S1. Relaxation parameters for ^{15}N HIF-1α:TAZ1

Residue	500 MHz			600 MHz		
	R_1 (s^{-1})	R_2 (s^{-1})	NOE	R_1 (s^{-1})	R_2 (s^{-1})	NOE
777	1.42 ± 0.02	12.16 ± 0.16	0.75 ± 0.01	1.23 ± 0.01	12.09 ± 0.20	0.77 ± 0.02
778	1.37 ± 0.02	10.15 ± 0.30	0.60 ± 0.02	1.29 ± 0.02	9.94 ± 0.37	0.66 ± 0.03
779	1.68 ± 0.02	7.33 ± 0.24	0.20 ± 0.00	1.60 ± 0.02	8.58 ± 0.54	0.31 ± 0.01
780	1.61 ± 0.03	5.00 ± 0.50	0.17 ± 0.01	1.62 ± 0.03	4.85 ± 0.72	0.27 ± 0.01
782	1.64 ± 0.03	5.64 ± 0.34	0.18 ± 0.01	1.62 ± 0.02	6.10 ± 0.54	0.14 ± 0.02
784	1.62 ± 0.04	6.58 ± 0.47	0.13 ± 0.02	1.59 ± 0.03	7.74 ± 0.62	0.27 ± 0.01
785	1.59 ± 0.05	4.02 ± 0.59	0.15 ± 0.02	1.63 ± 0.03	3.60 ± 0.75	0.25 ± 0.04
787	1.53 ± 0.07	4.76 ± 0.52	0.06 ± 0.03	1.58 ± 0.02	4.70 ± 0.70	0.26 ± 0.04
788	1.56 ± 0.03	5.98 ± 0.45	0.17 ± 0.02	1.59 ± 0.02	6.41 ± 0.62	0.27 ± 0.04
789	1.59 ± 0.04	4.88 ± 0.43	0.23 ± 0.01	1.59 ± 0.02	5.10 ± 0.59	0.32 ± 0.02
790	1.56 ± 0.04	4.75 ± 0.61	0.22 ± 0.02	1.56 ± 0.03	3.74 ± 0.76	0.32 ± 0.02
791	1.58 ± 0.03	4.67 ± 0.53	0.34 ± 0.02	1.64 ± 0.03	4.44 ± 0.71	0.42 ± 0.01
792	1.44 ± 0.04	9.84 ± 0.26	0.43 ± 0.01	1.35 ± 0.02	9.58 ± 0.30	0.52 ± 0.01
794	1.30 ± 0.01	11.11 ± 0.25	0.65 ± 0.01	1.18 ± 0.01	11.49 ± 0.32	0.69 ± 0.02
795	1.32 ± 0.07	11.74 ± 0.57	0.71 ± 0.03	1.05 ± 0.02	13.85 ± 0.70	0.71 ± 0.04
796	1.35 ± 0.01	12.82 ± 0.26	0.73 ± 0.03	1.24 ± 0.01	13.08 ± 0.27	0.76 ± 0.02
797	1.43 ± 0.05	10.75 ± 0.63	0.75 ± 0.07	1.33 ± 0.03	9.83 ± 0.62	0.79 ± 0.01
799	1.38 ± 0.03	12.10 ± 0.26	0.79 ± 0.02	1.26 ± 0.02	11.60 ± 0.39	0.77 ± 0.01
800	1.41 ± 0.01	11.95 ± 0.19	0.77 ± 0.07	1.25 ± 0.01	12.23 ± 0.27	0.77 ± 0.04
801	1.42 ± 0.02	12.16 ± 0.17	0.75 ± 0.01	1.23 ± 0.01	12.09 ± 0.20	0.77 ± 0.02
802	1.38 ± 0.01	12.09 ± 0.13	0.75 ± 0.01	1.19 ± 0.01	12.62 ± 0.17	0.78 ± 0.04
803	1.45 ± 0.01	12.00 ± 0.11	0.77 ± 0.03	1.22 ± 0.01	12.58 ± 0.34	0.75 ± 0.02
804	1.35 ± 0.02	11.17 ± 0.11	0.73 ± 0.02	1.20 ± 0.01	11.14 ± 0.19	0.76 ± 0.02
806	1.45 ± 0.02	14.49 ± 0.30	0.75 ± 0.04	1.28 ± 0.02	15.76 ± 0.47	0.77 ± 0.02
807	1.49 ± 0.02	12.28 ± 0.37	0.64 ± 0.05	1.39 ± 0.02	12.43 ± 0.46	0.67 ± 0.01
808	1.30 ± 0.05	6.89 ± 0.67	0.48 ± 0.03	1.38 ± 0.03	6.47 ± 0.77	0.51 ± 0.03
809	1.55 ± 0.05	3.55 ± 0.63	0.09 ± 0.03	1.57 ± 0.03	3.18 ± 0.81	0.18 ± 0.02
810	1.39 ± 0.08	7.23 ± 0.82	0.38 ± 0.10	1.37 ± 0.03	8.23 ± 0.98	0.48 ± 0.06
811	1.35 ± 0.03	8.33 ± 0.38	0.51 ± 0.01	1.31 ± 0.02	7.86 ± 0.56	0.54 ± 0.01
812	1.64 ± 0.03	7.20 ± 0.18	0.24 ± 0.02	1.55 ± 0.01	8.51 ± 0.53	0.30 ± 0.01
813	1.49 ± 0.02	12.73 ± 0.19	0.74 ± 0.02	1.21 ± 0.01	12.27 ± 0.28	0.77 ± 0.02
814	1.35 ± 0.01	13.56 ± 0.14	0.69 ± 0.03	1.18 ± 0.01	14.22 ± 0.18	0.75 ± 0.01
815	1.39 ± 0.02	10.49 ± 0.29	0.68 ± 0.01	1.27 ± 0.02	10.86 ± 0.41	0.71 ± 0.01
816	1.39 ± 0.04	11.65 ± 0.51	0.69 ± 0.04	1.33 ± 0.02	11.48 ± 0.55	0.71 ± 0.03
817	1.42 ± 0.02	12.09 ± 0.15	0.70 ± 0.01	1.27 ± 0.01	12.17 ± 0.24	0.74 ± 0.01
818	1.45 ± 0.02	13.46 ± 0.08	0.76 ± 0.01	1.24 ± 0.01	13.81 ± 0.22	0.78 ± 0.04

819	1.38	±	0.03	15.55	±	0.13	0.83	±	0.02	1.20	±	0.01	16.49	±	0.25	0.77	±	0.01
820	1.44	±	0.02	12.06	±	0.19	0.75	±	0.03	1.24	±	0.01	13.14	±	0.18	0.75	±	0.02
821	1.45	±	0.01	13.35	±	0.11	0.74	±	0.03	1.23	±	0.01	13.59	±	0.22	0.78	±	0.02
822	1.44	±	0.01	12.53	±	0.13	0.75	±	0.06	1.22	±	0.01	13.47	±	0.27	0.81	±	0.06
823	1.41	±	0.02	13.79	±	0.16	0.70	±	0.07	1.21	±	0.01	14.59	±	0.21	0.75	±	0.04
824	1.53	±	0.05	13.21	±	0.34	0.57	±	0.01	1.43	±	0.02	13.67	±	0.41	0.59	±	0.00
825	1.61	±	0.02	10.40	±	0.20	0.29	±	0.02	1.56	±	0.01	11.64	±	0.35	0.35	±	0.02
826	1.56	±	0.01	4.35	±	0.13	0.08	±	0.01	1.44	±	0.01	4.25	±	0.17	0.18	±	0.01

Table S2. Model-Free parameters for ^{15}N HIF-1α:TAZ1

Residue	S^2			τ_e (ns)			R_{ex} (s^{-1})			Model
777	0.80	±	0.01	1.62	±	0.19	0.00	±	0.00	5
778	0.62	±	0.01	1.51	±	0.10	0.00	±	0.00	5
779	0.44	±	0.01	1.18	±	0.02	0.00	±	0.00	5
780	0.27	±	0.02	1.31	±	0.03	0.00	±	0.00	5
782	0.34	±	0.02	1.19	±	0.02	0.00	±	0.00	5
784	0.40	±	0.02	1.13	±	0.03	0.00	±	0.00	5
785	0.20	±	0.03	1.28	±	0.03	0.00	±	0.00	5
787	0.22	±	0.02	1.29	±	0.04	0.00	±	0.00	5
788	0.32	±	0.02	1.28	±	0.04	0.00	±	0.00	5
789	0.24	±	0.02	1.47	±	0.04	0.00	±	0.00	5
790	0.21	±	0.03	1.43	±	0.04	0.00	±	0.00	5
791	0.22	±	0.02	1.56	±	0.03	0.00	±	0.00	5
792	0.64	±	0.01	1.03	±	0.04	0.00	±	0.00	5
794	0.73	±	0.01	0.76	±	0.12	0.00	±	0.00	5
795	0.73	±	0.01	0.02	±	0.01	2.68	±	0.47	4
796	0.78	±	0.01	0.02	±	0.01	2.27	±	0.18	4
797	0.68	±	0.03	2.86	±	0.54	0.00	±	0.00	5
799	0.83	±	0.01	0.02	±	0.01	0.55	±	0.24	4
800	0.80	±	0.01	0.02	±	0.01	1.17	±	0.19	4
801	0.83	±	0.01	0.02	±	0.01	0.70	±	0.15	4
802	0.78	±	0.01	0.02	±	0.01	1.77	±	0.12	4
803	0.81	±	0.01	0.02	±	0.01	1.35	±	0.13	4
804	0.80	±	0.01	0.02	±	0.01	0.20	±	0.11	4
806	0.83	±	0.01	0.02	±	0.01	4.04	±	0.27	4
807	0.84	±	0.01	0.05	±	0.01	0.67	±	0.30	4
808	0.37	±	0.03	1.69	±	0.10	0.00	±	0.00	5
809	0.15	±	0.03	1.29	±	0.04	0.00	±	0.00	5
810	0.45	±	0.03	1.35	±	0.12	0.00	±	0.00	5
811	0.62	±	0.01	0.99	±	0.06	0.00	±	0.00	5
812	0.44	±	0.01	1.13	±	0.02	0.00	±	0.00	5
813	0.85	±	0.01	0.02	±	0.01	0.51	±	0.17	4
814	0.80	±	0.01	0.02	±	0.01	2.79	±	0.12	4
815	0.69	±	0.01	1.55	±	0.12	0.00	±	0.00	5
816	0.77	±	0.02	1.17	±	0.24	0.00	±	0.00	5
817	0.84	±	0.01	0.04	±	0.01	0.60	±	0.15	4
818	0.84	±	0.01	0.02	±	0.01	2.77	±	0.12	4
819	0.82	±	0.01	0.02	±	0.01	5.78	±	0.14	4

820	0.83	±	0.01	0.02	±	0.01	1.22	±	0.14	4
821	0.83	±	0.01	0.03	±	0.01	2.51	±	0.12	4
822	0.80	±	0.01	0.04	±	0.01	2.33	±	0.15	4
823	0.80	±	0.01	0.03	±	0.01	3.58	±	0.16	4
824	0.90	±	0.01	0.40	±	0.03	0.70	±	0.24	4
825	0.72	±	0.01	0.74	±	0.03	0.00	±	0.00	5
826	0.22	±	0.01	1.29	±	0.01	0.00	±	0.00	5

Table S3. Relaxation parameters for ^{15}N CITED2:TAZ1

Residue	500 MHz			600 MHz		
	R_1 (s^{-1})	R_2 (s^{-1})	NOE	R_1 (s^{-1})	R_2 (s^{-1})	NOE
222	1.38 ± 0.02	15.49 ± 0.12	0.77 ± 0.01	1.13 ± 0.02	16.08 ± 0.22	0.80 ± 0.01
223	1.39 ± 0.03	15.49 ± 0.23	0.67 ± 0.01	1.23 ± 0.05	16.40 ± 0.33	0.67 ± 0.01
224	1.38 ± 0.01	13.61 ± 0.21	0.64 ± 0.04	1.16 ± 0.03	14.76 ± 0.25	0.66 ± 0.01
225	1.35 ± 0.02	18.29 ± 0.21	0.71 ± 0.04	1.18 ± 0.05	18.95 ± 0.29	0.76 ± 0.04
226	1.42 ± 0.01	13.08 ± 0.15	0.66 ± 0.03	1.23 ± 0.03	13.68 ± 0.22	0.72 ± 0.02
227	1.34 ± 0.02	15.11 ± 0.13	0.77 ± 0.04	1.12 ± 0.02	15.65 ± 0.13	0.72 ± 0.03
228	1.40 ± 0.02	14.97 ± 0.14	0.69 ± 0.02	1.19 ± 0.03	15.63 ± 0.18	0.72 ± 0.03
230	1.36 ± 0.02	13.91 ± 0.14	0.74 ± 0.01	1.16 ± 0.01	14.13 ± 0.16	0.75 ± 0.03
231	1.37 ± 0.01	13.81 ± 0.29	0.75 ± 0.04	1.15 ± 0.02	14.67 ± 0.15	0.81 ± 0.01
232	1.36 ± 0.01	14.67 ± 0.13	0.81 ± 0.01	1.11 ± 0.02	14.72 ± 0.14	0.78 ± 0.01
233	1.34 ± 0.02	14.68 ± 0.13	0.76 ± 0.05	1.13 ± 0.01	14.83 ± 0.15	0.74 ± 0.05
234	1.41 ± 0.02	14.77 ± 0.29	0.72 ± 0.01	1.21 ± 0.04	15.17 ± 0.33	0.74 ± 0.00
235	1.32 ± 0.01	14.04 ± 0.10	0.74 ± 0.02	1.08 ± 0.01	14.60 ± 0.13	0.73 ± 0.03
236	1.35 ± 0.01	13.91 ± 0.11	0.73 ± 0.01	1.13 ± 0.02	14.44 ± 0.13	0.78 ± 0.01
237	1.46 ± 0.04	17.73 ± 0.25	0.81 ± 0.04	1.22 ± 0.04	20.00 ± 0.36	0.82 ± 0.04
239	1.31 ± 0.01	16.11 ± 0.15	0.69 ± 0.01	1.11 ± 0.02	16.69 ± 0.21	0.72 ± 0.02
240	1.31 ± 0.04	12.05 ± 0.25	0.59 ± 0.01	1.11 ± 0.04	13.83 ± 0.44	0.64 ± 0.03
241	1.24 ± 0.06	18.24 ± 0.47	0.50 ± 0.04	1.22 ± 0.08	20.01 ± 0.64	0.54 ± 0.08
243	1.31 ± 0.02	12.30 ± 0.20	0.59 ± 0.01	1.15 ± 0.04	13.18 ± 0.29	0.63 ± 0.03
245	1.25 ± 0.02	12.99 ± 0.25	0.67 ± 0.01	1.06 ± 0.05	13.35 ± 0.30	0.69 ± 0.03
246	1.14 ± 0.04	16.31 ± 0.43	0.73 ± 0.03	1.08 ± 0.10	16.32 ± 0.73	0.83 ± 0.02
247	1.27 ± 0.03	19.58 ± 0.51	0.70 ± 0.06	1.04 ± 0.09	19.79 ± 0.92	0.67 ± 0.01
249	1.42 ± 0.06	12.95 ± 0.64	0.65 ± 0.07	1.14 ± 0.13	14.22 ± 1.05	0.46 ± 0.16
250	1.30 ± 0.06	13.21 ± 1.10	0.59 ± 0.09	1.40 ± 0.14	13.22 ± 1.04	0.68 ± 0.02
251	1.35 ± 0.05	12.10 ± 0.74	0.52 ± 0.04	1.37 ± 0.14	11.81 ± 0.95	0.57 ± 0.02
253	1.46 ± 0.04	23.45 ± 1.39	0.65 ± 0.06	1.28 ± 0.07	29.45 ± 0.69	0.70 ± 0.03
254	1.45 ± 0.05	13.07 ± 0.26	0.64 ± 0.04	1.31 ± 0.08	14.01 ± 0.57	0.63 ± 0.04
255	1.48 ± 0.04	7.75 ± 0.50	0.42 ± 0.02	1.46 ± 0.09	7.41 ± 0.59	0.45 ± 0.02
256	1.50 ± 0.09	31.29 ± 1.36	0.65 ± 0.13	1.47 ± 0.09	32.97 ± 2.11	0.68 ± 0.06
257	1.50 ± 0.05	17.23 ± 0.60	0.53 ± 0.01	1.42 ± 0.09	17.79 ± 0.79	0.52 ± 0.04
258	1.54 ± 0.03	10.16 ± 0.47	0.34 ± 0.01	1.43 ± 0.09	10.15 ± 0.71	0.45 ± 0.02
259	1.47 ± 0.04	16.22 ± 0.28	0.48 ± 0.01	1.41 ± 0.07	17.83 ± 0.43	0.53 ± 0.02
260	1.57 ± 0.05	16.05 ± 0.33	0.33 ± 0.04	1.51 ± 0.07	17.63 ± 0.53	0.38 ± 0.08
261	1.47 ± 0.05	4.92 ± 0.67	0.10 ± 0.02	1.51 ± 0.13	4.81 ± 0.83	0.21 ± 0.01
262	1.52 ± 0.06	6.93 ± 0.69	0.13 ± 0.03	1.55 ± 0.13	7.77 ± 0.84	0.18 ± 0.03
263	1.38 ± 0.08	3.88 ± 0.88	0.15 ± 0.05	1.51 ± 0.17	2.56 ± 1.14	0.32 ± 0.08

264	1.45	±	0.05	1.39	±	0.62	-0.29	±	0.01	1.51	±	0.11	1.09	±	0.89	-0.12	±	0.00
266	1.28	±	0.05	0.48	±	0.71	-0.65	±	0.02	1.42	±	0.14	1.16	±	0.95	-0.39	±	0.01
267	1.26	±	0.05	0.26	±	0.73	-0.68	±	0.02	1.37	±	0.13	0.60	±	0.94	-0.52	±	0.03
268	1.11	±	0.03	0.25	±	0.54	-1.39	±	0.02	1.20	±	0.10	0.76	±	0.74	-1.05	±	0.01
269	0.90	±	0.01	0.87	±	0.16	-1.53	±	0.01	0.89	±	0.02	0.40	±	0.18	-1.28	±	0.01

Table S4. Model-Free parameters for ^{15}N CITED2:TAZ1

Residue	S^2			τ_e (ns)			R_{ex} (s^{-1})			Model
222	0.86	±	0.01	0.01	±	0.01	2.55	±	0.19	4
223	0.84	±	0.01	0.05	±	0.01	3.49	±	0.28	4
224	0.84	±	0.01	0.49	±	0.10	0.00	±	0.00	5
225	0.89	±	0.01	0.00	±	0.00	4.54	±	0.25	3
226	0.83	±	0.01	0.69	±	0.12	0.00	±	0.00	5
227	0.87	±	0.01	0.00	±	0.00	1.59	±	0.16	3
228	0.91	±	0.01	0.07	±	0.01	0.00	±	0.00	2
230	0.88	±	0.01	0.03	±	0.01	0.00	±	0.00	2
231	0.87	±	0.01	0.84	±	0.37	0.00	±	0.00	5
232	0.88	±	0.01	0.01	±	0.00	0.00	±	0.00	2
233	0.88	±	0.01	0.00	±	0.00	0.76	±	0.16	3
234	0.87	±	0.01	0.48	±	0.12	0.00	±	0.00	5
235	0.85	±	0.01	0.03	±	0.01	0.26	±	0.12	4
236	0.84	±	0.01	0.02	±	0.01	0.63	±	0.13	4
237	0.90	±	0.02	0.00	±	0.00	5.90	±	0.36	3
239	0.80	±	0.01	0.03	±	0.01	4.23	±	0.17	4
240	0.76	±	0.01	0.05	±	0.01	0.92	±	0.35	4
241	0.78	±	0.03	0.08	±	0.01	7.56	±	0.61	4
243	0.75	±	0.01	0.75	±	0.08	0.00	±	0.00	5
245	0.76	±	0.01	0.03	±	0.01	1.19	±	0.27	4
246	0.76	±	0.02	0.00	±	0.00	4.89	±	0.57	3
247	0.80	±	0.02	0.03	±	0.01	8.21	±	0.57	4
249	0.84	±	0.02	0.07	±	0.02	0.00	±	0.00	2
250	0.80	±	0.02	0.04	±	0.01	0.00	±	0.00	2
251	0.75	±	0.03	0.50	±	0.20	0.00	±	0.00	5
253	0.89	±	0.02	0.06	±	0.02	14.70	±	0.60	4
254	0.79	±	0.02	1.11	±	0.14	0.00	±	0.00	5
255	0.41	±	0.02	1.50	±	0.05	0.00	±	0.00	5
256	0.94	±	0.02	0.25	±	0.31	21.51	±	1.27	4
257	0.88	±	0.01	0.20	±	0.06	4.27	±	0.53	4
258	0.62	±	0.02	0.98	±	0.06	0.00	±	0.00	5
259	0.87	±	0.01	0.21	±	0.04	4.23	±	0.30	4
260	0.73	±	0.02	0.91	±	0.08	4.52	±	0.50	4
261	0.31	±	0.02	1.13	±	0.03	0.00	±	0.00	5
262	0.42	±	0.03	1.01	±	0.05	0.00	±	0.00	5
263	0.12	±	0.04	1.49	±	0.08	0.00	±	0.00	5
264	0.39	±	0.01	0.66	±	0.01	0.00	±	0.00	5

266	0.21	±	0.01	0.70	±	0.01	0.00	±	0.00	5
267	0.14	±	0.02	0.76	±	0.02	0.00	±	0.00	5
268	0.12	±	0.01	0.53	±	0.01	0.00	±	0.00	5
269	0.13	±	0.01	0.44	±	0.01	0.00	±	0.00	5

Table S5. Relaxation parameters for ^{15}N TAZ1

Residue	500 MHz			600 MHz		
	R_1 (s^{-1})	R_2 (s^{-1})	NOE	R_1 (s^{-1})	R_2 (s^{-1})	NOE
342	0.87 ± 0.12	1.77 ± 0.78	-1.76 ± 0.29	0.98 ± 0.16	1.94 ± 0.89	-1.38 ± 0.16
344	1.42 ± 0.09	0.38 ± 0.52	-0.75 ± 0.20	1.56 ± 0.16	1.03 ± 0.93	-0.49 ± 0.07
346	1.68 ± 0.12	2.89 ± 0.85	0.22 ± 0.06	1.69 ± 0.17	1.53 ± 0.88	0.16 ± 0.03
348	1.81 ± 0.04	5.93 ± 0.25	0.41 ± 0.04	1.61 ± 0.08	6.07 ± 0.38	0.49 ± 0.03
349	1.88 ± 0.06	7.92 ± 0.35	0.53 ± 0.02	1.67 ± 0.08	7.74 ± 0.44	0.57 ± 0.04
350	1.91 ± 0.06	8.08 ± 0.38	0.58 ± 0.05	1.66 ± 0.10	8.18 ± 0.46	0.63 ± 0.02
351	1.97 ± 0.06	8.47 ± 0.36	0.61 ± 0.05	1.68 ± 0.10	8.54 ± 0.50	0.64 ± 0.08
352	1.84 ± 0.06	10.19 ± 0.28	0.69 ± 0.05	1.65 ± 0.06	10.79 ± 0.37	0.69 ± 0.12
353	1.42 ± 0.39	13.95 ± 0.23	0.65 ± 0.01	1.54 ± 0.03	15.85 ± 0.30	0.75 ± 0.08
355	1.92 ± 0.04	10.33 ± 0.17	0.72 ± 0.07	1.66 ± 0.06	10.82 ± 0.34	0.78 ± 0.11
356	1.95 ± 0.04	11.21 ± 0.25	0.75 ± 0.01	1.65 ± 0.07	12.13 ± 0.37	0.79 ± 0.03
357	1.84 ± 0.03	11.57 ± 0.15	0.84 ± 0.02	1.59 ± 0.04	11.95 ± 0.23	0.84 ± 0.14
358	1.83 ± 0.04	13.83 ± 0.26	0.79 ± 0.15	1.57 ± 0.05	15.19 ± 0.21	0.79 ± 0.05
360	1.93 ± 0.03	12.43 ± 0.22	0.75 ± 0.04	1.62 ± 0.04	12.55 ± 0.16	0.73 ± 0.07
361	1.89 ± 0.06	25.74 ± 0.75	0.85 ± 0.52	1.55 ± 0.06	30.48 ± 3.76	0.73 ± 0.13
363	1.84 ± 0.04	14.04 ± 0.23	0.74 ± 0.04	1.53 ± 0.07	14.13 ± 0.31	0.83 ± 0.09
365	1.97 ± 0.07	16.70 ± 0.49	0.82 ± 0.02	1.75 ± 0.10	16.64 ± 1.89	0.86 ± 0.25
368	1.91 ± 0.19	10.34 ± 0.83	0.51 ± 0.11	1.82 ± 0.15	8.54 ± 0.88	0.65 ± 0.10
369	1.96 ± 0.09	7.10 ± 0.50	0.49 ± 0.04	1.78 ± 0.12	7.18 ± 0.57	0.56 ± 0.06
370	1.86 ± 0.08	6.75 ± 0.55	0.48 ± 0.11	1.73 ± 0.12	6.52 ± 0.60	0.55 ± 0.10
371	1.96 ± 0.08	6.21 ± 0.50	0.65 ± 0.07	1.77 ± 0.11	6.99 ± 0.59	0.53 ± 0.10
374	1.70 ± 0.09	2.63 ± 0.72	0.23 ± 0.03	1.67 ± 0.14	2.70 ± 0.90	0.33 ± 0.03
375	1.86 ± 0.07	4.11 ± 0.44	0.32 ± 0.01	1.69 ± 0.12	4.29 ± 0.64	0.42 ± 0.03
376	1.79 ± 0.06	3.47 ± 0.27	0.13 ± 0.05	1.59 ± 0.09	3.64 ± 0.39	0.25 ± 0.04
377	1.95 ± 0.07	3.89 ± 0.47	0.24 ± 0.02	1.76 ± 0.10	4.14 ± 0.52	0.31 ± 0.04
378	1.79 ± 0.09	4.71 ± 0.51	0.32 ± 0.03	1.66 ± 0.13	4.10 ± 0.68	0.44 ± 0.03
379	1.78 ± 0.10	6.36 ± 0.78	0.42 ± 0.08	1.75 ± 0.15	6.49 ± 0.84	0.52 ± 0.12
385	2.17 ± 0.07	5.49 ± 3.29	0.77 ± 0.12	1.91 ± 0.09	12.28 ± 2.78	0.75 ± 0.25
386	2.01 ± 0.07	10.47 ± 0.42	0.67 ± 0.11	1.75 ± 0.09	10.89 ± 0.55	0.78 ± 0.04
388	2.04 ± 0.04	10.92 ± 0.17	0.78 ± 0.09	1.76 ± 0.05	11.41 ± 0.34	0.69 ± 0.13
391	2.00 ± 0.03	11.00 ± 0.13	0.73 ± 0.06	1.72 ± 0.04	11.36 ± 0.22	0.83 ± 0.06
392	2.00 ± 0.03	9.81 ± 0.14	0.70 ± 0.03	1.69 ± 0.06	10.59 ± 0.27	0.81 ± 0.05
393	1.94 ± 0.04	10.05 ± 0.27	0.69 ± 0.05	1.69 ± 0.06	11.07 ± 0.32	0.76 ± 0.06
394	1.96 ± 0.04	10.51 ± 0.15	0.72 ± 0.03	1.71 ± 0.07	12.02 ± 0.29	0.77 ± 0.05
395	1.94 ± 0.06	9.23 ± 0.31	0.66 ± 0.09	1.71 ± 0.08	9.57 ± 0.56	0.74 ± 0.07
396	1.90 ± 0.08	6.57 ± 0.41	0.70 ± 0.08	1.73 ± 0.12	6.35 ± 1.00	0.68 ± 0.06

397	1.66	±	0.06	6.76	±	0.35	0.64	±	0.06	1.47	±	0.09	6.64	±	0.48	0.70	±	0.14
399	1.79	±	0.07	7.46	±	0.39	0.62	±	0.04	1.58	±	0.11	7.21	±	0.53	0.71	±	0.03
400	1.77	±	0.06	6.52	±	0.46	0.63	±	0.05	1.57	±	0.11	6.84	±	0.66	0.67	±	0.04
402	1.84	±	0.07	6.87	±	0.37	0.64	±	0.05	1.64	±	0.10	6.72	±	0.51	0.66	±	0.05
403	1.85	±	0.05	8.01	±	0.24	0.60	±	0.01	1.57	±	0.06	8.05	±	0.35	0.67	±	0.06
404	1.87	±	0.09	8.33	±	0.42	0.62	±	0.05	1.60	±	0.12	8.58	±	0.57	0.74	±	0.02
405	1.91	±	0.04	8.52	±	0.19	0.69	±	0.04	1.64	±	0.05	8.16	±	0.24	0.75	±	0.02
406	1.89	±	0.04	10.03	±	0.53	0.72	±	0.03	1.66	±	0.08	9.09	±	0.29	0.79	±	0.01
407	1.84	±	0.07	8.13	±	0.43	0.66	±	0.08	1.60	±	0.10	7.97	±	0.50	0.71	±	0.06
408	1.98	±	0.05	10.38	±	0.20	0.70	±	0.03	1.69	±	0.06	11.33	±	0.30	0.80	±	0.03
409	1.99	±	0.04	9.52	±	0.24	0.65	±	0.06	1.70	±	0.06	10.10	±	0.30	0.77	±	0.07
410	2.07	±	0.08	11.03	±	0.58	0.73	±	0.03	1.77	±	0.12	12.00	±	0.56	0.83	±	0.11
412	2.13	±	0.06	12.59	±	0.29	0.78	±	0.05	1.78	±	0.09	13.54	±	0.43	0.80	±	0.11
414	2.00	±	0.05	10.04	±	0.23	0.68	±	0.07	1.64	±	0.04	11.12	±	0.22	0.73	±	0.11
416	1.98	±	0.04	10.69	±	0.20	0.68	±	0.16	1.64	±	0.03	12.43	±	0.17	0.71	±	0.05
420	1.79	±	0.03	8.05	±	0.18	0.72	±	0.05	1.57	±	0.04	7.82	±	0.31	0.70	±	0.08
421	1.66	±	0.03	7.91	±	0.22	0.57	±	0.05	1.40	±	0.05	8.08	±	0.26	0.68	±	0.08
422	1.81	±	0.11	8.61	±	0.67	0.67	±	0.02	1.52	±	0.13	8.99	±	0.76	0.77	±	0.19
426	1.78	±	0.04	7.45	±	0.30	0.58	±	0.01	1.57	±	0.09	7.16	±	0.45	0.69	±	0.10
429	1.84	±	0.02	14.41	±	0.16	0.84	±	0.06	1.54	±	0.04	16.64	±	0.23	0.70	±	0.11
432	1.84	±	0.07	13.07	±	0.49	0.63	±	0.12	1.60	±	0.03	13.84	±	0.60	0.47	±	0.08
433	1.92	±	0.04	10.00	±	0.34	0.64	±	0.07	1.62	±	0.05	11.18	±	0.32	0.73	±	0.03
434	1.91	±	0.12	5.05	±	0.55	0.49	±	0.11	1.72	±	0.13	6.69	±	0.67	0.43	±	0.05
436	1.74	±	0.10	1.19	±	0.59	-0.06	±	0.04	1.73	±	0.17	2.25	±	0.79	-0.01	±	0.28
437	1.79	±	0.11	1.18	±	0.77	-0.17	±	0.06	1.73	±	0.15	1.05	±	0.74	-0.06	±	0.01
438	1.57	±	0.07	0.90	±	0.56	-0.44	±	0.02	1.56	±	0.12	0.57	±	0.58	-0.27	±	0.01
439	1.23	±	0.02	1.42	±	0.07	-0.83	±	0.01	1.15	±	0.03	1.44	±	0.14	-0.67	±	0.01

Table S6. Model-Free parameters for ^{15}N TAZ1

Residue	S^2			τ_e (ns)			R_{ex} (s^{-1})			Model
342	0.09	±	0.04	0.42	±	0.08	0.00	±	0.00	5
344	0.39	±	0.02	0.00	±	0.00	0.00	±	0.00	1
346	0.10	±	0.05	1.37	±	0.07	0.00	±	0.00	5
348	0.41	±	0.02	1.54	±	0.07	0.00	±	0.00	5
349	0.59	±	0.02	1.51	±	0.11	0.00	±	0.00	5
350	0.64	±	0.03	1.48	±	0.14	0.00	±	0.00	5
351	0.69	±	0.03	1.55	±	0.25	0.00	±	0.00	5
352	0.88	±	0.01	0.08	±	0.03	0.00	±	0.00	2
353	0.88	±	0.02	0.11	±	0.02	5.27	±	0.27	4
355	0.91	±	0.01	0.00	±	0.00	0.00	±	0.00	1
356	0.93	±	0.01	0.06	±	0.01	0.62	±	0.27	4
357	0.89	±	0.01	0.00	±	0.00	1.53	±	0.19	3
358	0.87	±	0.01	0.00	±	0.00	4.86	±	0.21	3
360	0.94	±	0.01	0.00	±	0.00	1.29	±	0.17	3
361	0.89	±	0.02	0.00	±	0.00	22.17	±	0.83	3
363	0.90	±	0.02	0.00	±	0.00	3.92	±	0.29	3
365	0.96	±	0.02	0.00	±	0.00	7.55	±	0.62	3
368	0.75	±	0.05	1.21	±	0.34	0.00	±	0.00	2
369	0.50	±	0.03	1.71	±	0.15	0.00	±	0.00	5
370	0.45	±	0.04	1.70	±	0.29	0.00	±	0.00	5
371	0.41	±	0.04	2.58	±	0.48	0.00	±	0.00	5
374	0.09	±	0.04	1.69	±	0.07	0.00	±	0.00	5
375	0.23	±	0.04	1.74	±	0.08	0.00	±	0.00	5
376	0.17	±	0.02	1.41	±	0.06	0.00	±	0.00	5
377	0.20	±	0.03	1.61	±	0.06	0.00	±	0.00	5
378	0.26	±	0.04	1.64	±	0.09	0.00	±	0.00	5
379	0.47	±	0.05	1.47	±	0.25	0.00	±	0.00	5
385	1.00	±	0.01	0.00	±	0.00	0.00	±	0.00	1
386	0.94	±	0.02	0.00	±	0.00	0.00	±	0.00	1
388	0.95	±	0.01	0.00	±	0.00	0.58	±	0.22	3
391	0.93	±	0.01	0.00	±	0.00	0.69	±	0.17	3
392	0.89	±	0.01	0.06	±	0.01	0.00	±	0.00	2
393	0.87	±	0.01	0.06	±	0.02	0.87	±	0.27	4
394	0.88	±	0.01	0.05	±	0.01	1.44	±	0.24	4
395	0.80	±	0.03	1.33	±	0.56	0.00	±	0.00	5
396	0.48	±	0.04	2.81	±	0.89	0.00	±	0.00	5
397	0.54	±	0.03	1.97	±	0.56	0.00	±	0.00	5

399	0.58	±	0.03	2.02	±	0.29	0.00	±	0.00	5
400	0.49	±	0.03	2.26	±	0.32	0.00	±	0.00	5
402	0.52	±	0.03	2.15	±	0.33	0.00	±	0.00	5
403	0.68	±	0.02	1.26	±	0.15	0.00	±	0.00	5
404	0.70	±	0.04	1.75	±	0.37	0.00	±	0.00	5
405	0.69	±	0.02	2.26	±	0.28	0.00	±	0.00	5
406	0.79	±	0.02	2.12	±	0.55	0.00	±	0.00	5
407	0.67	±	0.03	1.69	±	0.51	0.00	±	0.00	5
408	0.90	±	0.02	0.03	±	0.01	0.91	±	0.26	4
409	0.88	±	0.01	0.07	±	0.02	0.00	±	0.00	2
410	0.93	±	0.02	0.09	±	0.18	1.09	±	0.46	4
412	0.97	±	0.02	0.00	±	0.00	2.69	±	0.33	3
414	0.89	±	0.02	0.10	±	0.03	0.54	±	0.23	4
416	0.88	±	0.01	0.07	±	0.02	2.03	±	0.20	4
420	0.68	±	0.02	1.94	±	0.70	0.00	±	0.00	5
421	0.68	±	0.02	0.80	±	0.19	0.00	±	0.00	5
422	0.79	±	0.02	0.05	±	0.01	0.00	±	0.00	2
426	0.55	±	0.02	1.85	±	0.12	0.00	±	0.00	5
429	0.89	±	0.01	0.00	±	0.00	5.72	±	0.16	3
432	0.86	±	0.02	0.21	±	0.05	3.73	±	0.44	4
433	0.86	±	0.02	0.93	±	0.27	0.00	±	0.00	5
434	0.38	±	0.04	1.49	±	0.13	0.00	±	0.00	5
436	0.08	±	0.04	1.26	±	0.05	0.00	±	0.00	2
437	0.02	±	0.03	1.11	±	0.03	0.00	±	0.00	5
438	0.27	±	0.02	0.66	±	0.02	0.00	±	0.00	5
439	0.12	±	0.01	0.68	±	0.01	0.00	±	0.00	5

Table S7. Relaxation parameters for ^{15}N TAZ1:HIF-1α

Residue	500 MHz			600 MHz		
	R_1 (s^{-1})	R_2 (s^{-1})	NOE	R_1 (s^{-1})	R_2 (s^{-1})	NOE
349	1.52 ± 0.03	16.40 ± 0.18	0.68 ± 0.07	1.31 ± 0.03	17.72 ± 0.12	0.71 ± 0.05
350	1.58 ± 0.04	12.95 ± 0.14	0.71 ± 0.12	1.32 ± 0.04	13.18 ± 0.19	0.74 ± 0.01
354	1.58 ± 0.03	13.90 ± 0.22	0.77 ± 0.01	1.40 ± 0.03	13.64 ± 0.20	0.80 ± 0.02
355	1.57 ± 0.03	13.62 ± 0.16	0.77 ± 0.02	1.30 ± 0.02	13.99 ± 0.17	0.82 ± 0.03
358	1.58 ± 0.04	12.11 ± 0.22	0.65 ± 0.04	1.33 ± 0.04	12.41 ± 0.22	0.67 ± 0.01
360	1.58 ± 0.02	13.83 ± 0.19	0.73 ± 0.05	1.30 ± 0.03	14.36 ± 0.14	0.81 ± 0.07
361	1.57 ± 0.03	14.57 ± 0.25	0.70 ± 0.08	1.37 ± 0.03	15.71 ± 0.25	0.81 ± 0.02
362	1.71 ± 0.06	12.87 ± 0.15	0.77 ± 0.05	1.37 ± 0.07	14.08 ± 0.20	0.79 ± 0.06
364	1.57 ± 0.02	14.86 ± 0.14	0.78 ± 0.09	1.31 ± 0.03	15.50 ± 0.22	0.81 ± 0.03
365	1.60 ± 0.03	16.28 ± 0.19	0.83 ± 0.05	1.27 ± 0.04	17.54 ± 0.30	0.76 ± 0.03
367	1.69 ± 0.06	22.44 ± 1.07	0.81 ± 0.10	1.49 ± 0.10	22.44 ± 0.79	0.75 ± 0.06
371	1.73 ± 0.07	9.57 ± 0.28	0.45 ± 0.09	1.55 ± 0.10	10.10 ± 0.44	0.53 ± 0.05
373	1.62 ± 0.13	7.38 ± 0.53	0.36 ± 0.04	1.50 ± 0.14	7.61 ± 0.79	0.43 ± 0.05
374	1.61 ± 0.10	4.80 ± 0.59	0.24 ± 0.03	1.52 ± 0.16	4.29 ± 0.74	0.31 ± 0.02
376	1.52 ± 0.07	4.61 ± 0.30	0.12 ± 0.03	1.51 ± 0.12	3.69 ± 0.45	0.22 ± 0.01
377	1.77 ± 0.09	5.78 ± 0.47	0.24 ± 0.04	1.64 ± 0.13	5.43 ± 0.53	0.31 ± 0.02
378	1.64 ± 0.09	5.98 ± 0.62	0.35 ± 0.03	1.54 ± 0.14	5.78 ± 0.63	0.42 ± 0.05
386	1.70 ± 0.07	11.83 ± 0.29	0.73 ± 0.09	1.44 ± 0.07	12.12 ± 0.37	0.77 ± 0.08
388	1.71 ± 0.03	12.87 ± 0.17	0.78 ± 0.09	1.41 ± 0.04	13.15 ± 0.25	0.78 ± 0.05
390	1.66 ± 0.03	12.33 ± 0.23	0.74 ± 0.07	1.41 ± 0.03	12.50 ± 0.20	0.76 ± 0.02
392	1.65 ± 0.03	12.68 ± 0.15	0.77 ± 0.06	1.38 ± 0.05	12.34 ± 0.19	0.80 ± 0.05
393	1.62 ± 0.05	11.63 ± 0.28	0.66 ± 0.02	1.38 ± 0.05	11.72 ± 0.22	0.80 ± 0.04
394	1.73 ± 0.03	12.68 ± 0.24	0.73 ± 0.04	1.42 ± 0.06	13.18 ± 0.31	0.78 ± 0.05
395	1.71 ± 0.07	12.03 ± 0.25	0.71 ± 0.05	1.48 ± 0.09	12.34 ± 0.47	0.77 ± 0.01
396	1.69 ± 0.07	10.68 ± 0.43	0.78 ± 0.10	1.46 ± 0.11	10.81 ± 0.63	0.78 ± 0.05
397	1.47 ± 0.06	9.74 ± 0.42	0.67 ± 0.08	1.29 ± 0.10	9.88 ± 0.53	0.74 ± 0.04
399	1.54 ± 0.07	11.81 ± 0.43	0.73 ± 0.06	1.34 ± 0.09	12.13 ± 0.56	0.76 ± 0.03
400	1.47 ± 0.06	11.55 ± 0.48	0.72 ± 0.04	1.30 ± 0.09	12.40 ± 0.75	0.73 ± 0.05
403	1.59 ± 0.05	11.61 ± 0.30	0.70 ± 0.01	1.39 ± 0.08	12.72 ± 0.43	0.76 ± 0.02
404	1.62 ± 0.06	10.94 ± 0.52	0.76 ± 0.11	1.43 ± 0.13	10.93 ± 0.69	0.75 ± 0.02
405	1.65 ± 0.05	12.24 ± 0.32	0.74 ± 0.01	1.37 ± 0.06	12.12 ± 0.35	0.79 ± 0.02
406	1.62 ± 0.04	13.16 ± 0.40	0.70 ± 0.02	1.40 ± 0.06	12.55 ± 0.28	0.80 ± 0.04
407	1.47 ± 0.05	10.93 ± 0.22	0.76 ± 0.09	1.30 ± 0.07	11.64 ± 0.35	0.74 ± 0.03
408	1.72 ± 0.05	12.76 ± 0.36	0.77 ± 0.07	1.49 ± 0.07	12.62 ± 0.36	0.81 ± 0.03
409	1.69 ± 0.04	12.96 ± 0.32	0.74 ± 0.01	1.41 ± 0.08	13.27 ± 0.35	0.81 ± 0.04
410	1.65 ± 0.05	12.17 ± 0.23	0.78 ± 0.03	1.44 ± 0.08	11.88 ± 0.32	0.79 ± 0.02

411	1.64 ± 0.04	13.30 ± 0.21	0.74 ± 0.04	1.37 ± 0.05	13.65 ± 0.32	0.78 ± 0.01
412	1.73 ± 0.03	12.74 ± 0.25	0.77 ± 0.05	1.48 ± 0.06	13.69 ± 0.35	0.85 ± 0.01
414	1.69 ± 0.02	13.32 ± 0.18	0.78 ± 0.09	1.43 ± 0.04	13.75 ± 0.28	0.82 ± 0.07
415	1.73 ± 0.04	13.44 ± 0.22	0.74 ± 0.04	1.44 ± 0.03	13.63 ± 0.19	0.81 ± 0.02
416	1.68 ± 0.03	13.35 ± 0.18	0.75 ± 0.13	1.40 ± 0.04	13.58 ± 0.30	0.81 ± 0.03
417	1.73 ± 0.03	13.53 ± 0.16	0.77 ± 0.04	1.44 ± 0.04	13.99 ± 0.28	0.85 ± 0.05
418	1.70 ± 0.02	13.44 ± 0.17	0.81 ± 0.05	1.45 ± 0.04	13.60 ± 0.19	0.83 ± 0.04
419	1.63 ± 0.03	15.17 ± 0.28	0.77 ± 0.02	1.38 ± 0.05	16.49 ± 0.24	0.79 ± 0.06
421	1.53 ± 0.05	12.86 ± 0.27	0.69 ± 0.05	1.31 ± 0.07	13.52 ± 0.35	0.73 ± 0.05
422	1.63 ± 0.09	11.37 ± 0.62	0.75 ± 0.08	1.45 ± 0.13	11.33 ± 0.67	0.73 ± 0.02
426	1.54 ± 0.03	11.17 ± 0.23	0.64 ± 0.03	1.35 ± 0.06	11.40 ± 0.31	0.69 ± 0.02
429	1.46 ± 0.03	14.14 ± 0.21	0.70 ± 0.14	1.24 ± 0.03	14.77 ± 0.14	0.75 ± 0.03
430	1.63 ± 0.03	11.73 ± 0.14	0.52 ± 0.06	1.42 ± 0.04	12.27 ± 0.16	0.56 ± 0.01
432	1.60 ± 0.04	16.83 ± 0.18	0.58 ± 0.09	1.27 ± 0.02	18.94 ± 0.22	0.72 ± 0.08
434	1.74 ± 0.06	6.14 ± 0.55	0.37 ± 0.01	1.28 ± 0.18	6.70 ± 0.61	0.67 ± 0.01
435	1.74 ± 0.11	2.89 ± 0.64	0.05 ± 0.06	1.66 ± 0.16	2.76 ± 0.83	0.18 ± 0.04
436	1.57 ± 0.12	0.77 ± 0.67	-0.22 ± 0.01	1.62 ± 0.18	1.11 ± 0.84	-0.06 ± 0.01
438	1.65 ± 0.05	0.87 ± 0.44	-0.58 ± 0.02	1.55 ± 0.09	0.92 ± 0.65	-0.43 ± 0.01
439	1.15 ± 0.02	1.53 ± 0.12	-1.07 ± 0.02	1.12 ± 0.02	1.34 ± 0.12	-0.85 ± 0.01

Table S8. Model-Free parameters for ^{15}N TAZ1:HIF-1α

Residue	S^2			τ_e (ns)			R_{ex} (s^{-1})			Model
349	0.90	±	0.01	0.00	±	0.00	4.57	±	0.18	3
350	0.90	±	0.01	0.04	±	0.01	0.00	±	0.00	2
354	0.91	±	0.01	1.48	±	0.30	0.00	±	0.00	5
355	0.92	±	0.01	1.15	±	0.57	0.00	±	0.00	5
358	0.81	±	0.01	0.94	±	0.10	0.00	±	0.00	5
360	0.91	±	0.01	0.00	±	0.00	0.84	±	0.18	3
361	0.93	±	0.01	0.02	±	0.01	1.78	±	0.23	4
362	0.89	±	0.02	2.22	±	1.32	0.00	±	0.00	5
364	0.90	±	0.01	0.00	±	0.00	2.73	±	0.21	3
365	0.93	±	0.01	0.00	±	0.00	3.85	±	0.25	3
367	0.99	±	0.02	0.00	±	0.00	8.49	±	0.66	3
371	0.63	±	0.02	1.27	±	0.12	0.00	±	0.00	5
373	0.44	±	0.03	1.38	±	0.09	0.00	±	0.00	5
374	0.24	±	0.03	1.41	±	0.05	0.00	±	0.00	5
376	0.24	±	0.02	1.18	±	0.03	0.00	±	0.00	5
377	0.31	±	0.03	1.29	±	0.04	0.00	±	0.00	5
378	0.32	±	0.03	1.56	±	0.08	0.00	±	0.00	5
386	0.83	±	0.02	1.76	±	0.97	0.00	±	0.00	5
388	0.93	±	0.01	0.05	±	0.03	0.00	±	0.00	2
390	0.86	±	0.01	1.26	±	0.23	0.00	±	0.00	5
392	0.90	±	0.01	0.03	±	0.01	0.00	±	0.00	2
393	0.79	±	0.02	1.33	±	0.18	0.00	±	0.00	5
394	0.93	±	0.01	0.07	±	0.03	0.00	±	0.00	2
395	0.87	±	0.02	1.50	±	0.37	0.00	±	0.00	5
396	0.72	±	0.03	3.00	±	1.42	0.00	±	0.00	5
397	0.68	±	0.03	1.63	±	0.42	0.00	±	0.00	5
399	0.85	±	0.02	0.03	±	0.01	0.00	±	0.00	2
400	0.83	±	0.02	0.03	±	0.01	0.00	±	0.00	2
403	0.83	±	0.02	1.15	±	0.30	0.00	±	0.00	5
404	0.76	±	0.03	1.75	±	0.35	0.00	±	0.00	5
405	0.81	±	0.02	2.00	±	0.27	0.00	±	0.00	5
406	0.87	±	0.01	0.88	±	0.26	0.00	±	0.00	5
407	0.80	±	0.01	0.02	±	0.01	0.00	±	0.00	2
408	0.88	±	0.02	2.65	±	1.87	0.00	±	0.00	5
409	0.91	±	0.02	0.83	±	0.36	0.00	±	0.00	5
410	0.86	±	0.02	1.69	±	0.55	0.00	±	0.00	5
411	0.91	±	0.01	0.03	±	0.01	0.85	±	0.29	4

412	0.94 ± 0.01	0.00 ± 0.00	0.00 ± 0.00	1
414	0.95 ± 0.01	0.00 ± 0.00	0.00 ± 0.00	1
415	0.96 ± 0.01	0.05 ± 0.03	0.00 ± 0.00	2
416	0.95 ± 0.01	0.00 ± 0.00	0.00 ± 0.00	1
417	0.97 ± 0.01	0.00 ± 0.00	0.00 ± 0.00	1
418	0.95 ± 0.01	0.00 ± 0.00	0.00 ± 0.00	1
419	0.91 ± 0.01	0.03 ± 0.01	3.27 ± 0.26	4
421	0.85 ± 0.02	0.04 ± 0.01	1.50 ± 0.38	4
422	0.75 ± 0.03	1.78 ± 0.36	0.00 ± 0.00	5
426	0.75 ± 0.01	1.16 ± 0.13	0.00 ± 0.00	5
429	0.85 ± 0.01	0.03 ± 0.01	2.26 ± 0.20	4
430	0.78 ± 0.01	0.86 ± 0.05	0.00 ± 0.00	5
432	0.89 ± 0.01	0.08 ± 0.02	5.69 ± 0.27	4
434	0.23 ± 0.02	1.86 ± 0.04	0.00 ± 0.00	5
435	0.07 ± 0.03	1.36 ± 0.05	0.00 ± 0.00	5
436	0.28 ± 0.02	0.72 ± 0.02	0.00 ± 0.00	5
438	0.21 ± 0.02	0.72 ± 0.02	0.00 ± 0.00	5
439	0.05 ± 0.01	0.64 ± 0.01	0.00 ± 0.00	5

Table S9. Relaxation parameters for ^{15}N TAZ1:CITED2

Residue	500 MHz			600 MHz		
	R_1 (s^{-1})	R_2 (s^{-1})	NOE	R_1 (s^{-1})	R_2 (s^{-1})	NOE
344	1.49 ± 0.08	5.35 ± 0.54	-0.19 ± 0.06	1.43 ± 0.09	7.49 ± 0.80	-0.07 ± 0.03
345	1.61 ± 0.07	4.42 ± 0.56	0.10 ± 0.01	1.55 ± 0.08	5.70 ± 0.61	0.19 ± 0.01
346	1.58 ± 0.06	6.60 ± 0.56	0.29 ± 0.04	1.44 ± 0.07	7.75 ± 0.65	0.35 ± 0.03
348	1.54 ± 0.02	12.28 ± 0.21	0.56 ± 0.02	1.33 ± 0.03	13.34 ± 0.33	0.63 ± 0.01
349	1.59 ± 0.03	18.01 ± 0.20	0.64 ± 0.02	1.33 ± 0.03	21.57 ± 0.24	0.69 ± 0.02
352	1.57 ± 0.04	14.88 ± 0.26	0.77 ± 0.12	1.29 ± 0.05	14.83 ± 0.43	0.83 ± 0.01
353	1.61 ± 0.03	13.64 ± 0.23	0.68 ± 0.05	1.34 ± 0.03	14.20 ± 0.35	0.67 ± 0.05
354	1.53 ± 0.03	15.36 ± 0.33	0.66 ± 0.05	1.25 ± 0.04	15.79 ± 0.30	0.69 ± 0.03
356	1.51 ± 0.03	14.91 ± 0.26	0.80 ± 0.05	1.21 ± 0.03	15.27 ± 0.32	0.83 ± 0.03
357	1.45 ± 0.03	16.07 ± 0.24	0.74 ± 0.05	1.24 ± 0.03	16.95 ± 0.24	0.81 ± 0.01
358	1.52 ± 0.03	15.70 ± 0.16	0.81 ± 0.06	1.25 ± 0.03	16.86 ± 0.20	0.88 ± 0.02
359	1.43 ± 0.03	15.88 ± 0.21	0.72 ± 0.03	1.21 ± 0.02	17.04 ± 0.24	0.82 ± 0.03
360	1.52 ± 0.01	16.58 ± 0.21	0.84 ± 0.11	1.22 ± 0.03	17.17 ± 0.28	0.85 ± 0.06
362	1.50 ± 0.01	16.52 ± 0.17	0.73 ± 0.05	1.25 ± 0.04	17.11 ± 0.17	0.81 ± 0.05
363	1.49 ± 0.03	16.91 ± 0.23	0.82 ± 0.06	1.22 ± 0.04	16.68 ± 0.29	0.86 ± 0.03
364	1.55 ± 0.02	14.58 ± 0.17	0.78 ± 0.01	1.30 ± 0.03	15.89 ± 0.33	0.82 ± 0.01
371	1.64 ± 0.04	11.10 ± 0.25	0.49 ± 0.02	1.38 ± 0.05	12.19 ± 0.38	0.56 ± 0.03
372	1.52 ± 0.07	9.07 ± 0.66	0.39 ± 0.06	1.38 ± 0.09	10.15 ± 0.70	0.38 ± 0.01
373	1.54 ± 0.07	6.95 ± 0.57	0.35 ± 0.01	1.38 ± 0.07	8.05 ± 0.87	0.42 ± 0.02
374	1.58 ± 0.08	5.49 ± 0.52	0.31 ± 0.01	1.46 ± 0.08	6.31 ± 0.65	0.38 ± 0.04
375	1.65 ± 0.06	5.85 ± 0.37	0.32 ± 0.04	1.49 ± 0.05	6.98 ± 0.46	0.37 ± 0.01
376	1.62 ± 0.03	5.60 ± 0.25	0.19 ± 0.03	1.54 ± 0.04	5.14 ± 0.34	0.28 ± 0.01
377	1.71 ± 0.05	6.51 ± 0.29	0.26 ± 0.03	1.54 ± 0.05	7.04 ± 0.44	0.34 ± 0.01
378	1.59 ± 0.07	6.27 ± 0.45	0.37 ± 0.03	1.39 ± 0.07	7.45 ± 0.57	0.44 ± 0.04
379	1.48 ± 0.08	7.49 ± 0.37	0.33 ± 0.05	1.30 ± 0.08	8.50 ± 0.95	0.46 ± 0.02
386	1.57 ± 0.07	13.23 ± 0.35	0.62 ± 0.10	1.33 ± 0.08	12.16 ± 0.65	0.71 ± 0.01
387	1.56 ± 0.04	12.99 ± 0.32	0.66 ± 0.03	1.30 ± 0.06	14.88 ± 0.62	0.82 ± 0.04
388	1.63 ± 0.04	14.46 ± 0.23	0.75 ± 0.05	1.31 ± 0.03	15.26 ± 0.35	0.86 ± 0.03
390	1.56 ± 0.03	14.98 ± 0.25	0.80 ± 0.03	1.33 ± 0.04	15.66 ± 0.36	0.84 ± 0.02
391	1.62 ± 0.03	14.72 ± 0.15	0.83 ± 0.08	1.28 ± 0.03	14.60 ± 0.27	0.82 ± 0.01
392	1.58 ± 0.02	13.98 ± 0.15	0.79 ± 0.03	1.25 ± 0.03	14.82 ± 0.25	0.80 ± 0.01
393	1.55 ± 0.04	13.15 ± 0.20	0.75 ± 0.04	1.25 ± 0.04	14.54 ± 0.48	0.79 ± 0.05
394	1.62 ± 0.04	14.31 ± 0.26	0.69 ± 0.06	1.26 ± 0.05	14.82 ± 0.37	0.79 ± 0.01
395	1.51 ± 0.05	13.17 ± 0.30	0.71 ± 0.03	1.27 ± 0.05	13.25 ± 0.56	0.76 ± 0.02
396	1.55 ± 0.06	10.83 ± 0.39	0.75 ± 0.04	1.35 ± 0.07	12.03 ± 0.81	0.71 ± 0.02
397	1.35 ± 0.05	10.11 ± 0.36	0.67 ± 0.03	1.11 ± 0.07	11.06 ± 0.50	0.68 ± 0.01

399	1.45	±	0.05	12.31	±	0.43	0.67	±	0.04	1.23	±	0.07	12.90	±	0.68	0.78	±	0.02
400	1.43	±	0.06	12.02	±	0.42	0.62	±	0.08	1.24	±	0.06	12.52	±	0.70	0.71	±	0.03
402	1.56	±	0.04	12.49	±	0.30	0.66	±	0.06	1.32	±	0.05	12.99	±	0.49	0.70	±	0.01
403	1.53	±	0.04	12.58	±	0.25	0.73	±	0.04	1.32	±	0.05	13.93	±	0.38	0.75	±	0.02
404	1.55	±	0.07	14.99	±	0.77	0.79	±	0.06	1.37	±	0.06	16.04	±	0.66	0.80	±	0.06
405	1.57	±	0.03	13.03	±	0.29	0.73	±	0.07	1.29	±	0.04	14.01	±	0.32	0.81	±	0.05
406	1.55	±	0.03	14.29	±	0.41	0.76	±	0.06	1.31	±	0.05	13.90	±	0.27	0.81	±	0.03
408	1.63	±	0.04	14.09	±	0.37	0.75	±	0.02	1.40	±	0.06	15.03	±	0.43	0.80	±	0.01
409	1.65	±	0.05	14.06	±	0.40	0.82	±	0.04	1.32	±	0.06	15.36	±	0.54	0.88	±	0.01
410	1.62	±	0.05	14.62	±	0.44	0.75	±	0.14	1.33	±	0.08	16.40	±	0.69	0.82	±	0.07
411	1.60	±	0.04	15.44	±	0.31	0.82	±	0.01	1.32	±	0.04	16.05	±	0.37	0.84	±	0.01
412	1.63	±	0.04	13.96	±	0.20	0.77	±	0.02	1.34	±	0.04	15.16	±	0.50	0.81	±	0.05
414	1.56	±	0.03	15.40	±	0.32	0.74	±	0.06	1.31	±	0.03	15.79	±	0.39	0.89	±	0.02
415	1.55	±	0.03	15.30	±	0.20	0.76	±	0.04	1.28	±	0.03	16.01	±	0.19	0.82	±	0.03
416	1.62	±	0.03	14.13	±	0.20	0.75	±	0.01	1.31	±	0.03	16.02	±	0.34	0.80	±	0.05
421	1.49	±	0.03	14.31	±	0.29	0.75	±	0.09	1.19	±	0.03	16.31	±	0.50	0.79	±	0.06
426	1.46	±	0.04	15.37	±	0.19	0.65	±	0.02	1.17	±	0.06	18.43	±	0.38	0.72	±	0.03
429	1.51	±	0.03	18.07	±	0.20	0.78	±	0.07	1.24	±	0.03	19.30	±	0.33	0.84	±	0.05
430	1.61	±	0.04	13.45	±	0.24	0.64	±	0.06	1.39	±	0.05	13.77	±	0.34	0.67	±	0.01
433	1.57	±	0.03	17.33	±	0.31	0.78	±	0.11	1.21	±	0.03	18.94	±	0.31	0.81	±	0.01
434	1.74	±	0.05	11.30	±	0.25	0.51	±	0.06	1.51	±	0.07	12.27	±	0.41	0.57	±	0.01
435	1.73	±	0.06	12.23	±	0.40	0.41	±	0.06	1.53	±	0.06	14.38	±	0.52	0.49	±	0.03
436	1.76	±	0.06	7.42	±	0.41	0.27	±	0.02	1.58	±	0.07	8.84	±	0.54	0.39	±	0.04
437	1.81	±	0.05	4.37	±	0.34	0.15	±	0.02	1.65	±	0.06	4.94	±	0.43	0.25	±	0.01
438	1.62	±	0.03	3.08	±	0.21	-0.13	±	0.01	1.54	±	0.04	3.02	±	0.26	0.00	±	0.00
439	1.31	±	0.01	2.49	±	0.09	-0.58	±	0.01	1.28	±	0.02	2.87	±	0.08	-0.42	±	0.01

Table S10. Model-Free parameters for ^{15}N TAZ1:CITED2

Residue	S^2			τ_e (ns)			R_{ex} (s^{-1})			Model
344	0.31	±	0.02	0.86	±	0.03	0.00	±	0.00	5
345	0.28	±	0.02	1.21	±	0.03	0.00	±	0.00	5
346	0.35	±	0.02	1.36	±	0.05	0.00	±	0.00	5
348	0.77	±	0.01	1.13	±	0.05	0.00	±	0.00	5
349	0.88	±	0.01	1.21	±	0.08	5.48	±	0.20	4
352	0.89	±	0.02	4.98	±	3.09	0.00	±	0.00	5
353	0.79	±	0.01	1.68	±	0.21	0.00	±	0.00	5
354	0.92	±	0.01	0.79	±	0.14	0.00	±	0.00	2
356	0.88	±	0.02	4.17	±	2.62	0.00	±	0.00	5
357	0.96	±	0.01	1.58	±	0.44	0.00	±	0.00	5
358	0.98	±	0.01	0.00	±	0.00	0.00	±	0.00	1
359	0.97	±	0.01	0.13	±	0.17	0.00	±	0.00	2
360	1.00	±	0.01	0.00	±	0.00	0.00	±	0.00	1
362	0.97	±	0.01	0.00	±	0.00	0.73	±	0.17	3
363	0.99	±	0.01	0.00	±	0.00	0.00	±	0.00	1
364	0.86	±	0.01	3.82	±	0.23	0.00	±	0.00	5
371	0.63	±	0.01	1.46	±	0.05	0.00	±	0.00	5
372	0.53	±	0.03	1.11	±	0.05	0.00	±	0.00	5
373	0.41	±	0.02	1.43	±	0.05	0.00	±	0.00	5
374	0.26	±	0.02	1.61	±	0.04	0.00	±	0.00	5
375	0.33	±	0.02	1.31	±	0.02	0.00	±	0.00	5
376	0.27	±	0.01	1.24	±	0.02	0.00	±	0.00	5
377	0.32	±	0.01	1.32	±	0.02	0.00	±	0.00	5
378	0.33	±	0.02	1.58	±	0.06	0.00	±	0.00	5
379	0.45	±	0.02	1.27	±	0.06	0.00	±	0.00	5
386	0.83	±	0.02	1.18	±	0.20	0.00	±	0.00	5
387	0.87	±	0.02	1.02	±	0.28	0.00	±	0.00	5
388	0.97	±	0.01	0.00	±	0.00	0.00	±	0.00	1
390	0.98	±	0.01	0.00	±	0.00	0.00	±	0.00	1
391	0.97	±	0.01	0.00	±	0.00	0.00	±	0.00	1
392	0.94	±	0.01	0.02	±	0.01	0.00	±	0.00	2
393	0.87	±	0.01	1.53	±	0.66	0.00	±	0.00	5
394	0.95	±	0.01	0.05	±	0.02	0.00	±	0.00	2
395	0.83	±	0.02	1.51	±	0.26	0.00	±	0.00	5
396	0.69	±	0.02	2.09	±	0.25	0.00	±	0.00	5
397	0.67	±	0.02	1.25	±	0.16	0.00	±	0.00	5
399	0.76	±	0.02	1.89	±	0.33	0.00	±	0.00	5

400	0.72	±	0.02	1.56	±	0.22	0.00	±	0.00	5
402	0.75	±	0.01	1.64	±	0.11	0.00	±	0.00	5
403	0.83	±	0.01	1.55	±	0.22	0.00	±	0.00	5
404	0.96	±	0.02	1.66	±	1.79	0.00	±	0.00	2
405	0.86	±	0.02	1.92	±	1.13	0.00	±	0.00	5
406	0.89	±	0.01	1.77	±	1.12	0.00	±	0.00	5
408	0.93	±	0.02	1.65	±	0.45	0.00	±	0.00	5
409	0.97	±	0.01	0.00	±	0.00	0.00	±	0.00	1
410	0.98	±	0.01	0.00	±	0.00	0.00	±	0.00	1
411	1.00	±	0.01	0.00	±	0.00	0.00	±	0.00	1
412	0.93	±	0.01	1.61	±	0.69	0.00	±	0.00	5
414	0.98	±	0.01	0.00	±	0.00	0.00	±	0.00	1
415	0.98	±	0.01	0.00	±	0.00	0.00	±	0.00	1
416	0.96	±	0.01	0.11	±	0.09	0.00	±	0.00	2
421	0.92	±	0.01	0.00	±	0.00	0.81	±	0.34	3
426	0.87	±	0.02	0.07	±	0.01	2.94	±	0.35	4
429	0.98	±	0.01	0.00	±	0.00	3.26	±	0.25	3
430	0.81	±	0.01	1.31	±	0.08	0.00	±	0.00	5
433	0.99	±	0.01	0.42	±	0.57	1.92	±	0.24	4
434	0.68	±	0.02	1.35	±	0.04	0.00	±	0.00	5
435	0.72	±	0.03	1.06	±	0.07	1.47	±	0.47	4
436	0.41	±	0.02	1.38	±	0.04	0.00	±	0.00	5
437	0.19	±	0.01	1.30	±	0.01	0.00	±	0.00	5
438	0.15	±	0.01	1.02	±	0.01	0.00	±	0.00	5
439	0.10	±	0.01	0.77	±	0.01	0.00	±	0.00	5

REFERENCES

[1] Tamiola, K., Acar, B., and Mulder, F. A. (2010) Sequence-specific random coil chemical shifts of intrinsically disordered proteins, *J Am Chem Soc 132*, 18000-18003.