



Viewing ndp_sm_1-133-FFX1FH-multi.table

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All-Atom Contacts	Clashscore, all atoms:	0	100 th percentile* (N=1784, all resolutions)	
	Clashscore is the number of serious steric overlaps (> 0.4 Å) per 1000 atoms.			
Protein Geometry	Poor rotamers	1	0.81%	Goal: <1%
	Ramachandran outliers	2	1.53%	Goal: <0.05%
	Ramachandran favored	118	90.08%	Goal: >98%
	MolProbity score [^]	1.05		100 th percentile* (N=27675, 0Å - 99Å)
	Cβ deviations >0.25Å	1	0.78%	Goal: 0
	Bad backbone bonds:	0 / 1059	0.00%	Goal: 0%
	Bad backbone angles:	15 / 1420	1.06%	Goal: <0.1%

In the two column results, the left column gives the raw count, right column gives the percentage.

* 100th percentile is the best among structures of comparable resolution; 0th percentile is the worst. For clashscore the comparative set of structures was selected in 2004, for MolProbity score in 2006.

[^] MolProbity score combines the clashscore, rotamer, and Ramachandran evaluations into a single score, normalized to be on the same scale as X-ray resolution.

#	Alt	Res	High B	Clash > 0.4Å	Ramachandran	Rotamer	Cβ deviation	Bond lengths	Bond angles
			Avg: 52.26	Clashscore: 0	Outliers: 2 of 131	Poor rotamers: 1 of 123	Outliers: 1 of 129	Outliers: 0 of 133	Outliers: 15 of 133
A 1	MET	50	-	-	-	37.3% (<i>mtt</i>) chi angles: 289.6,197.6,174	0.109Å	-	-
A 2	ARG	50	-	-	Favored (50.09%) General / -77.5,-37.7	17.6% (<i>tpp180</i>) chi angles: 179,52.8,56,177	0.225Å	-	-
A 3	LYS	50	-	-	Favored (97.03%) General / -62.8,-40.3	50.2% (<i>mtmt</i>) chi angles: 297.1,191.5,303.1,181.9	0.206Å	-	-
A 4	HIS	99.99	-	-	Favored (84.26%) General / -62.8,-36.8	16.6% (<i>t-160</i>) chi angles: 183.7,180.7	0.09Å	-	OUTLIER(S) worst is CA-CB-CG: 4.529 σ
A 5	VAL	50	-	-	Favored (92.7%) Isoleucine or	89.8% (<i>t</i>) chi angles: 177.9	0.108Å	-	-

				valine / -59.5,-46.7					
A 6	LEU	50	-	Favored (61.79%) General / -73.8,-28.7	26% (<i>mt</i>) chi angles: 311.1,185.2	0.144Å	-	-	
A 7	ALA	50	-	Favored (90.49%) General / -63.0,-38.3	-	0.062Å	-	-	
A 8	ALA	50	-	Favored (25.74%) General / -84.3,-30.2	-	0.094Å	-	-	
A 9	SER	50	-	Favored (52.14%) General / -77.0,-25.1	84.1% (<i>p</i>) chi angles: 60.9	0.124Å	-	-	
A 10	PHE	99.99	-	Favored (10.66%) General / -120.5,1.3	9.8% (<i>m-30</i>) chi angles: 310.8,321.5	0.054Å	-	-	
A 11	SER	50	-	Favored (22.65%) General / 59.2,39.6	18.6% (<i>t</i>) chi angles: 189	0.088Å	-	-	
A 12	MET	99.99	-	Favored (16.46%) General / -92.8,-28.6	45.1% (<i>mtt</i>) chi angles: 284.3,169.5,169.8	0.11Å	-	-	
A 13	LEU	50	-	Favored (15.12%) General / -153.2,135.7	90% (<i>mt</i>) chi angles: 291.4,175.1	0.056Å	-	-	
A 14	SER	50	-	Favored (16.99%) General / -54.9,146.7	26.6% (<i>t</i>) chi angles: 185.6	0.048Å	-	-	
A 15	LEU	50	-	Favored (8.41%) General / -65.3,167.5	10.7% (<i>mp</i>) chi angles: 274.1,67.2	0.089Å	-	-	
A 16	LEU	50	-	Allowed (0.25%) General / 73.6,-67.7	56.4% (<i>tp</i>) chi angles: 179.8,58.9	0.168Å	-	-	
A 17	VAL	50	-	Favored (82.17%) Isoleucine or valine /	9.8% (<i>p</i>) chi angles: 72.4	0.19Å	-	-	

A 18	ILE	99.99	-	-59.6,-40.4 Favored (26.7%) Isoleucine or valine / -70.9,-25.9	2.5% (<i>tp</i>) chi angles: 197.6,44.2	0.222Å	-	-	
A 19	MET	99.99	-	Favored (55.36%) General / -61.6,-53.5	9.1% (<i>tpt</i>) chi angles: 179.7,76.2,255.8	0.096Å	-	-	
A 20	GLY	50	-	Favored (86.59%) Glycine / -67.3,-43.9	-	-	-	-	
#	Alt	Res	High B	Clash > 0.4Å	Ramachandran	Rotamer	Cβ deviation	Bond lengths	Bond angles
			Avg: 52.26	Clashscore: 0	Outliers: 2 of 131	Poor rotamers: 1 of 123	Outliers: 1 of 129	Outliers: 0 of 133	Outliers: 15 of 133
A 21	ASP	50	-	Favored (96.55%) General / -61.1,-45.0	3.6% (<i>t70</i>) chi angles: 161.2,71.9	0.128Å	-	-	
A 22	THR	50	-	Allowed (0.94%) General / -42.2,-62.5	1.3% (<i>m</i>) chi angles: 276	0.098Å	-	-	
A 23	ASP	50	-	Favored (83.89%) General / -67.7,-38.5	9.1% (<i>m-20</i>) chi angles: 316.2,136.3	0.1Å	-	-	
A 24	SER	50	-	Favored (64.34%) General / -57.4,-29.7	39.6% (<i>p</i>) chi angles: 76.5	0.177Å	-	-	
A 25	LYS	50	-	Favored (13.08%) General / -106.7,-21.3	39.6% (<i>mmtm</i>) chi angles: 315.5,307.1,183.3,300.1	0.161Å	-	-	
A 26	THR	50	-	Favored (11.97%) General / -99.1,-31.0	29.8% (<i>p</i>) chi angles: 70.5	0.227Å	-	-	
A 27	ASP	50	-	Allowed (0.71%) General / -107.7,52.8	3.4% (<i>m-20</i>) chi angles: 317,336.3	0.07Å	-	-	
A 28	SER	50	-	Favored (10.62%) General / -118.3,168.4	30.2% (<i>t</i>) chi angles: 173.9	0.09Å	-	-	

A 29	SER	50	-	Favored (31.03%) General / -67.4,158.7	21.9% (<i>t</i>) chi angles: 188	0.02Å	-	-
A 30	PHE	50	-	Favored (31.55%) General / -147.0,164.9	25.4% (<i>p90</i>) chi angles: 48.8,269.6	0.075Å	-	-
A 31	ILE	50	-	Favored (22.76%) Isoleucine or valine / -72.9,137.8	97.6% (<i>mt</i>) chi angles: 296.1,171.1	0.059Å	-	-
A 32	MET	50	-	Favored (18.73%) General / -113.8,160.4	59.6% (<i>mtt</i>) chi angles: 300.4,186.7,182.5	0.047Å	-	-
A 33	ASP	50	-	Favored (10.54%) General / -60.7,159.7	41.8% (<i>t0</i>) chi angles: 186.3,24.8	0.051Å	-	OUTLIER(S) worst is C-N- CA: 4.073 σ
A 34	SER	50	-	Favored (53.59%) General / -77.1,-21.9	25.1% (<i>t</i>) chi angles: 186	0.084Å	-	OUTLIER(S) worst is C-N- CA: 4.741 σ
A 35	ASP	50	-	OUTLIER (0.03%) Pre-proline / 84.1,126.3	4.4% (<i>t0</i>) chi angles: 212.5,143.6	0.024Å	-	OUTLIER(S) worst is CA- CB-CG: 5.821 σ
A 36	PRO	50	-	Favored (57.35%) Trans-proline / -60.0,-19.8	85.6% (<i>Cg_exo</i>) chi angles: 328.8	0.058Å	-	-
A 37	ARG	50	-	Favored (33.34%) General / -82.5,-25.7	83.9% (<i>mtm180</i>) chi angles: 305.4,168.7,296.1,173.7	0.092Å	-	-
A 38	ARG	50	-	Favored (12.48%) General / -87.7,169.0	13.7% (<i>mtt180</i>) chi angles: 291.7,175.7,232.8,143.9	0.039Å	-	-
A 39	CYS	50	-	Favored (6.25%) General / -58.0,119.2	34.9% (<i>t</i>) chi angles: 173.6	0.062Å	-	-
A 40	MET	50	-	Allowed (0.12%) General / -154.0,-142.8	2.5% (<i>ppp?</i>) chi angles: 55.3,103.3,81.5	0.278Å	-	OUTLIER(S) worst is C- CA-CB: 4.388 σ

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			Avg: 52.26	Clashscore: 0	Outliers: 2 of 131	Poor rotamers: 1 of 123	Outliers: 1 of 129	Outliers: 0 of 133	Outliers: 15 of 133
A 41	ARG	50	-	Favored (3.46%) General / -148.1,103.5	44.3% (<i>ttt</i> -85) chi angles: 177,160.9,165,259.5	0.08Å	-	-	
A 42	HIS	50	-	Favored (10.64%) General / -94.9,98.3	72.4% (<i>m</i> -70) chi angles: 293.8,259.9	0.057Å	-	-	
A 43	HIS	50	-	Favored (31.46%) General / -51.8,132.4	35% (<i>p</i> 80) chi angles: 62.3,79.8	0.041Å	-	OUTLIER(S) worst is CA-CB-CG: 4.563 σ	
A 44	TYR	50	-	Favored (14.7%) General / -158.8,174.6	2.8% (<i>p</i> 90) chi angles: 81.1,296.7	0.047Å	-	-	
A 45	VAL	50	-	Favored (25.45%) Isoleucine or valine / -116.4,143.9	62% (<i>t</i>) chi angles: 171.2	0.094Å	-	-	
A 46	ASP	50	-	Favored (24.95%) General / -126.0,162.6	4.9% (<i>t</i> 0) chi angles: 211.6,324.2	0.07Å	-	-	
A 47	SER	50	-	Favored (3.19%) General / -119.9,89.8	70.4% (<i>m</i>) chi angles: 293.2	0.021Å	-	-	
A 48	ILE	50	-	Favored (25.04%) Isoleucine or valine / -65.3,126.7	86.5% (<i>mt</i>) chi angles: 295.5,175	0.06Å	-	-	
A 49	SER	50	-	Favored (5.16%) General / -147.6,-176.2	9.5% (<i>t</i>) chi angles: 192.7	0.071Å	-	-	
A 50	HIS	50	-	Favored (2.17%) Pre-proline / -155.7,107.0	58.7% (<i>t</i> -80) chi angles: 185.2,268.1	0.096Å	-	-	
A 51	PRO	50	-	Favored (9.69%) Trans-proline / -84.9,-5.7	14.5% (<i>Cg_endo</i>) chi angles: 39.4	0.022Å	-	-	

A 52	LEU	50	-	Allowed (0.06%) General / -86.2,-106.5	21.1% (<i>tp</i>) chi angles: 187.8,73.8	0.162Å	-	-	
A 53	TYR	50	-	Favored (16.05%) General / -49.1,135.5	4.5% (<i>m-30</i>) chi angles: 316.1,321.3	0.064Å	-	-	
A 54	LYS	50	-	Favored (7.33%) General / -75.7,106.7	98.7% (<i>mttt</i>) chi angles: 296.6,175.6,181.8,179.4	0.034Å	-	-	
A 55	CYS	50	-	Favored (18.8%) General / -114.9,161.1	22.2% (<i>m</i>) chi angles: 311.6	0.076Å	-	-	
A 56	SER	50	-	Favored (4.68%) General / -74.6,102.8	70.8% (<i>p</i>) chi angles: 57.7	0.057Å	-	-	
A 57	SER	50	-	Favored (6.74%) General / -66.6,170.1	63% (<i>p</i>) chi angles: 56.6	0.038Å	-	-	
A 58	LYS	50	-	Allowed (1.55%) General / -167.0,127.6	19.1% (<i>tptp</i>) chi angles: 181.2,67.2,201,76.5	0.053Å	-	-	
A 59	MET	50	-	Favored (58.14%) General / -66.1,139.3	67.7% (<i>mtt</i>) chi angles: 291.1,178,181.1	0.05Å	-	-	
A 60	VAL	50	-	Favored (41.37%) Isoleucine or valine / -137.6,140.6	52.9% (<i>t</i>) chi angles: 182.2	0.062Å	-	-	
#	Alt	Res	High B	Clash > 0.4Å	Ramachandran	Rotamer	Cβ deviation	Bond lengths	Bond angles
			Avg: 52.26	Clashscore: 0	Outliers: 2 of 131	Poor rotamers: 1 of 123	Outliers: 1 of 129	Outliers: 0 of 133	Outliers: 15 of 133
A 61	LEU	50	-	Favored (23.1%) General / -77.4,121.0	52.2% (<i>tp</i>) chi angles: 180.7,66.8	0.055Å	-	-	
A 62	LEU	50	-	Allowed (1.21%) General / -128.8,-162.7	21.2% (<i>mt</i>) chi angles: 314.8,176.8	0.08Å	-	-	

A 63	ALA	50	-	Favored (2.47%) General / -164.7,128.6	-	0.085Å	-	-
A 64	ARG	50	-	Favored (16.19%) General / -106.8,159.5	21.5% (<i>ptt-85</i>) chi angles: 66,180.4,184.2,249.8	0.089Å	-	OUTLIER(S) worst is CD- NE-CZ: 4.222 σ
A 65	CYS	50	-	Favored (40.59%) General / -76.2,138.4	72.7% (<i>m</i>) chi angles: 298.1	0.102Å	-	-
A 66	GLU	50	-	OUTLIER (0.02%) General / 167.6,142.9	25.4% (<i>tt0</i>) chi angles: 167.9,179.5,281.9	0.057Å	-	-
A 67	GLY	50	-	Favored (10.38%) Glycine / 123.1,159.0	-	-	-	-
A 68	HIS	50	-	Favored (25.94%) General / -81.2,121.3	95.9% (<i>m-70</i>) chi angles: 292.3,278.2	0.097Å	-	-
A 69	CYS	50	-	Favored (3.86%) General / -68.1,174.4	73.4% (<i>m</i>) chi angles: 296.9	0.044Å	-	-
A 70	SER	50	-	Favored (8.74%) General / -123.7,0.6	74.8% (<i>p</i>) chi angles: 58.2	0.03Å	-	-
A 71	GLN	50	-	Favored (38.11%) General / -100.1,119.3	18.4% (<i>mp0</i>) chi angles: 306.7,80.2,7.3	0.049Å	-	-
A 72	ALA	50	-	Allowed (0.33%) General / -51.3,162.5	-	0.021Å	-	-
A 73	SER	50	-	Favored (37.9%) General / -121.5,153.4	62.7% (<i>m</i>) chi angles: 298.9	0.112Å	-	-
A 74	ARG	50	-	Favored (14.27%) General / -164.7,155.2	68.7% (<i>ttt180</i>) chi angles: 196,182.9,182.3,185.8	0.089Å	-	-

A 75	SER	50	-	Favored (50.62%) General / -125.8,144.4	8% (t) chi angles: 195.2	0.02Å	-	-
A 76	GLU	50	-	Favored (6.84%) Pre-proline / -145.2,171.2	41.6% (mt-10) chi angles: 282.8,185,230.3	0.117Å	-	-
A 77	PRO	50	-	Allowed (1.68%) Trans-proline / -94.5,170.5	26.1% (Cg_endo) chi angles: 37.8	0.056Å	-	OUTLIER(S) worst is C-N- CA: 4.008 σ
A 78	LEU	50	-	Favored (17.72%) General / -126.8,166.3	99% (mt) chi angles: 292.6,173	0.043Å	-	-
A 79	VAL	50	-	Favored (26.55%) Isoleucine or valine / -122.3,152.9	57.8% (t) chi angles: 180.4	0.096Å	-	-
A 80	SER	50	-	Favored (17.93%) General / -110.0,158.7	23.6% (t) chi angles: 186.3	0.041Å	-	-

#	Alt	Res	High B	Clash > 0.4Å	Ramachandran	Rotamer	C β deviation	Bond lengths	Bond angles
			Avg: 52.26	Clashscore: 0	Outliers: 2 of 131	Poor rotamers: 1 of 123	Outliers: 1 of 129	Outliers: 0 of 133	Outliers: 15 of 133
A 81	PHE	50	-		Favored (10.01%) General / -121.2,-0.1	52.7% (p90) chi angles: 64.9,90.2	0.028Å	-	-
A 82	SER	50	-		Favored (6.89%) General / -161.4,-178.8	67.1% (p) chi angles: 57.2	0.071Å	-	-
A 83	THR	50	-		Favored (50.82%) General / -78.6,-20.2	9.1% (p) chi angles: 43.9	0.094Å	-	-
A 84	VAL	50	-		Favored (14.1%) Isoleucine or valine / -52.5,131.1	59.8% (t) chi angles: 171	0.053Å	-	-
A 85	LEU	50	-		Favored (56.48%) General /	41.3% (mt) chi angles: 306.8,185.4	0.046Å	-	-

				-58.5,134.2				
A 86	LYS	50	-	Favored (39.49%) General / -145.6,161.6	46.8% (<i>mttp</i>) chi angles: 300.2,175,196.5,73.2	0.083Å	-	-
A 87	GLN	50	-	Favored (93.24%) Pre-proline / -67.4,131.9	3.7% (<i>mm-40</i>) chi angles: 256.2,289.4,357.7	0.079Å	-	-
A 88	PRO	50	-	Favored (3.95%) Trans-proline / -89.0,-10.8	37.9% (<i>Cg_endo</i>) chi angles: 36.7	0.023Å	-	-
A 89	PHE	50	-	Favored (22.15%) General / -114.2,157.8	60% (<i>m-85</i>) chi angles: 298.7,296.7	0.026Å	-	OUTLIER(S) worst is C-N- CA: 4.459 σ
A 90	ARG	50	-	Favored (3.83%) General / -148.4,107.2	49.8% (<i>ttp85</i>) chi angles: 164.3,177.7,54.2,86.2	0.144Å	-	-
A 91	SER	50	-	Favored (11.98%) General / -133.2,172.9	89% (<i>p</i>) chi angles: 62.1	0.055Å	-	-
A 92	SER	50	-	Favored (18.65%) General / -157.5,145.1	32.5% (<i>t</i>) chi angles: 175.2	0.082Å	-	-
A 93	CYS	50	-	Allowed (0.76%) General / -168.2,117.7	43.2% (<i>t</i>) chi angles: 178.4	0.033Å	-	-
A 94	HIS	50	-	Favored (44.22%) General / -98.4,132.0	70.1% (<i>m80</i>) chi angles: 302,90.7	0.089Å	-	OUTLIER(S) worst is CA- CB-CG: 5.117 σ
A 95	CYS	50	-	Favored (3.07%) General / -121.7,-175.3	52.1% (<i>m</i>) chi angles: 306.7	0.071Å	-	-
A 96	CYS	50	-	Favored (13.52%) General / -128.4,111.7	41.7% (<i>t</i>) chi angles: 175.8	0.072Å	-	-
A 97	ARG	50	-	Favored (3.82%) Pre-proline / -131.9,175.3	92.4% (<i>mtt180</i>) chi angles: 301.8,183,173,195	0.056Å	-	-

A 98	PRO	50	-	Favored (3.08%) Trans-proline / -76.5,50.8	80.2% (<i>Cg_exo</i>) chi angles: 332	0.04Å	-	OUTLIER(S) worst is C-N-CA: 4.107 σ
A 99	GLN	50	-	Favored (15.42%) General / -46.7,-41.8	20.3% (<i>tm0?</i>) chi angles: 179.9,280.6,328.7	0.18Å	-	-
A 100	THR	50	-	Favored (54.08%) General / -125.3,138.3	17.1% (<i>p</i>) chi angles: 74.8	0.192Å	-	OUTLIER(S) worst is N-CA-CB: 4.308 σ
#	Alt Res	High B	Clash > 0.4Å	Ramachandran	Rotamer	Cβ deviation	Bond lengths	Bond angles
		Avg: 52.26	Clashscore: 0	Outliers: 2 of 131	Poor rotamers: 1 of 123	Outliers: 1 of 129	Outliers: 0 of 133	Outliers: 15 of 133
A 101	SER	50	-	Favored (10.64%) General / -156.9,134.3	12.1% (<i>p</i>) chi angles: 47.4	0.06Å	-	-
A 102	LYS	50	-	Allowed (1.21%) General / -105.0,-166.2	74.8% (<i>mmtt</i>) chi angles: 304.6,292.7,186.4,175.7	0.12Å	-	-
A 103	LEU	50	-	Favored (35.77%) General / -121.8,155.2	10.7% (<i>tp</i>) chi angles: 201.3,74.9	0.101Å	-	-
A 104	LYS	50	-	Favored (8.28%) General / -138.4,176.9	35.5% (<i>mmtp</i>) chi angles: 303.8,295.8,178.1,65.3	0.048Å	-	-
A 105	ALA	50	-	Favored (10.89%) General / -143.7,174.3	-	0.048Å	-	-
A 106	LEU	50	-	Favored (33.6%) General / -159.4,159.3	35.8% (<i>tp</i>) chi angles: 187.6,61.3	0.096Å	-	-
A 107	ARG	50	-	Favored (52.73%) General / -130.9,149.1	82.5% (<i>mtt180</i>) chi angles: 276.3,181.1,166.4,162.4	0.034Å	-	-
A 108	LEU	50	-	Favored (51.44%) General / -130.3,150.6	6.7% (<i>mt</i>) chi angles: 323.8,171.8	0.071Å	-	-

Favored

A 109	ARG	50	-	(19.23%) General / -97.3,152.1	77.9% (<i>ttt180</i>) chi angles: 180.8,177.5,174.3,173.4	0.065Å	-	-
A 110	CYS	50	-	Favored (5.74%) General / -127.2,178.9	81.1% (<i>m</i>) chi angles: 295.9	0.063Å	-	-
A 111	SER	50	-	Favored (2.28%) General / -112.1,86.1	98.3% (<i>p</i>) chi angles: 64.2	0.029Å	-	OUTLIER(S) worst is C-N- CA: 4.596 σ
A 112	GLY	50	-	Favored (4.91%) Glycine / -101.1,-33.5	-	-	-	-
A 113	GLY	50	-	Favored (32.06%) Glycine / -68.0,137.6	-	-	-	OUTLIER(S) worst is C-N- CA: 4.952 σ
A 114	MET	50	-	Favored (2.97%) General / -118.0,-176.1	2.2% (<i>tmm?</i>) chi angles: 225.5,276.6,294.2	0.083Å	-	-
A 115	ARG	50	-	Favored (22.5%) General / -68.3,124.1	67.6% (<i>mtm180</i>) chi angles: 294.3,155,287,185.7	0.082Å	-	-
A 116	LEU	50	-	Favored (25.94%) General / -117.8,157.8	61% (<i>mt</i>) chi angles: 306,181.3	0.033Å	-	-
A 117	THR	50	-	Favored (44.97%) General / -127.6,154.6	35.4% (<i>m</i>) chi angles: 306.3	0.059Å	-	-
A 118	ALA	50	-	Favored (35.59%) General / -154.4,155.8	-	0.078Å	-	-
A 119	THR	50	-	Favored (22.52%) General / -125.4,163.5	11.3% (<i>p</i>) chi angles: 44.7	0.035Å	-	-
A 120	TYR	50	-	Favored (7.2%) General / -167.2,152.1	18.3% (<i>p90</i>) chi angles: 50.7,99.4	0.033Å	-	-

Alt Res High B Clash > 0.4Å Ramachandran Rotamer Cβ deviation Bond lengths Bond angles
 Avg: Clashscore: Outliers: 2 of Poor rotamers: 1 of Outliers: Outliers: Outliers: 15

		52.26	0	131	123	1 of 129	0 of 133	of 133
A 121	ARG	50	-	Favored (23.08%) General / -73.4,166.5	60.7% (<i>mtp85</i>) chi angles: 295.4,190.3,78.9,85.7	0.1Å	-	-
A 122	TYR	50	-	Favored (3.93%) General / -146.8,106.3	74% (<i>t80</i>) chi angles: 183.3,264.8	0.087Å	-	-
A 123	ILE	50	-	Favored (13.16%) Isoleucine or valine / -66.5,120.2	74% (<i>mt</i>) chi angles: 295.8,162.9	0.048Å	-	-
A 124	LEU	50	-	Favored (6.68%) General / -102.3,-40.6	31.2% (<i>tp</i>) chi angles: 188.6,66.2	0.06Å	-	-
A 125	SER	50	-	Favored (34.39%) General / -149.0,151.4	61.9% (<i>p</i>) chi angles: 56.4	0.037Å	-	-
A 126	CYS	50	-	Favored (21.33%) General / -120.5,161.4	14.5% (<i>m</i>) chi angles: 313.5	0.066Å	-	-
A 127	HIS	50	-	Favored (5.87%) General / -145.4,-178.0	80.3% (<i>t60</i>) chi angles: 172.9,71.3	0.145Å	-	OUTLIER(S) worst is CA- CB-CG: 6.126 σ
A 128	CYS	50	-	Favored (4.27%) General / -93.7,80.7	58.5% (<i>m</i>) chi angles: 305.2	0.044Å	-	-
A 129	GLU	50	-	Favored (16.92%) General / -80.6,170.0	40.4% (<i>mp0</i>) chi angles: 304.9,89.7,359.1	0.049Å	-	-
A 130	GLU	50	-	Favored (10.11%) General / -82.6,175.5	5.9% (<i>tp10</i>) chi angles: 190.4,43.6,95.2	0.091Å	-	-
A 131	CYS	50	-	Favored (60.01%) General / -76.5,-14.7	0.5% chi angles: 219.8	0.145Å	-	-
				Favored				

A 132	ASN 50	-	(11.37%) General / -117.7,24.0	9.4% (<i>m</i> -20) chi angles: 301.6,7	0.032Å	-	-
A 133	SER 99.99	-	-	4.2% (<i>p</i>) chi angles: 89.1	0.12Å	-	-

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