

Viewing RPGRIP1_mb_621-757Hmulti.table

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All-Atom	Clashscore, all atoms:	68.62		1 st percentile* (N=1784, all resolutions)		
Contacts	Clashscore is the number	of serious	steric ove	rlaps (> 0.4 Å) per 1000 atoms.		
	Poor rotamers	3	2.61%	Goal: <1%		
	Ramachandran outliers	1	0.74%	Goal: <0.05%		
	Ramachandran favored	131	97.04%	Goal: >98%		
Protein Geometry	MolProbity score [^]	2.79		32 nd percentile* (N=27675, 0Å - 99Å)		
Geometry	Cβ deviations >0.25Å	0	0.00%	Goal: 0		
	Bad backbone bonds:	0 / 1123	0.00%	Goal: 0%		
	Bad backbone angles:	23 / 1530	1.50%	Goal: <0.1%		

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

[^] 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 R	es	High B	Clash > 0.4Å	Ramachandran	Rotamer	Cβ deviation	Bond lengths	Bond angles
			Avg:	Clashscore:	Outliers: 1 of	Poor rotamers: 3 of	Outliers:	Outliers:	Outliers: 23
			81.34	68.62	135	115	0 of 128	0 of 137	of 137
621	LE	EU	38.1	0.76Å CD1 with 755 ARG HA	-	63.3% (<i>mt</i>) chi angles: 291.8,182.3	0.064Å	-	-
622	Н	IIS	116.2	0.718Å HE1 with 756 PHE HB3	Favored (41.83%) General / -70.9,154.4	0.3% chi angles: 24.2,83.4	0.037Å	-	OUTLIER(S) worst is CD2- NE2-CE1: 4.441 σ
623	GI	LN	69.75	-	Favored (14.99%) General / -62.1,122.2	61% (<i>mm-40</i>) chi angles: 298.4,282.2,339.3	0.118Å	-	-
624	- GI	LY	20.13	-	Favored (39.92%) Glycine / 167.2,179.0	-	-	-	-
625	GI	LU	93.64	0.816Å HG3 with 685 GLU OE2	Favored (38.57%) General / -73.0,156.7	1.8% (<i>mp0</i>) chi angles: 281.9,47,70.7	0.079Å	-	-

^{* 100&}lt;sup>th</sup> 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.

626	ASN 52.63	0.744Å HA with 757 PRO HD2	Favored (52.34%) General / -127.7,140.0	97.6% (<i>m-20</i>) chi angles: 291.5,342.1	0.145Å	-	-
627	LEU 56.09	0.899Å HB2 with 757 PRO HG3	Favored (44.21%) General / -118.3,123.0	44% (<i>tp</i>) chi angles: 182,68.6	0.104Å	-	-
628	PHE 132.53	0.782Å CE2 with 754 LEU HD21	Favored (30.31%) General / -103.9,115.3	49% (<i>t80</i>) chi angles: 189.1,270.8	0.078Å	-	-
629	GLU 64.34	0.632Å HG2 with 681 GLN HB3	Favored (45.82%) General / -116.7,143.3	79.5% (<i>mt-10</i>) chi angles: 300,162.9,339	0.161Å	-	-
630	LEU 55.14	0.74Å HD21 with 628 PHE CE1	Favored (13.77%) General / -136.2,116.7	82.3% (<i>mt</i>) chi angles: 296.3,181.4	0.094Å	-	-
631	HIS 80.09	0.535Å HB3 with 751 TRP CE2	Favored (56.18%) General / -112.3,128.2	13.5% (<i>t-80</i>) chi angles: 183.7,305.6	0.128Å	-	OUTLIER(S) worst is CD2- NE2-CE1: 4.346 σ
632	ILE 93.48	0.407Å CD1 with 750 TYR HB3	Favored (48.64%) Isoleucine or valine / -109.9,115.0	43.4% (<i>mm</i>) chi angles: 298.2,296.2	0.077Å	-	-
633	HIS 94.51	-	Favored (3.91%) General / -66.8,-59.0	9.7% (<i>t60</i>) chi angles: 198.7,96.8	0.06Å	-	OUTLIER(S) worst is CD2- NE2-CE1: 4.437 σ
634	GLN 61.67	0.827Å CG with 675 LEU HD23	Favored (2.68%) General / -174.2,175.4	91.4% (<i>mt-30</i>) chi angles: 294.8,178.8,306.5	0.219Å	-	-
635	ALA 44.85	-	Favored (44.47%) General / -124.9,125.8	-	0.095Å	-	-
636	PHE 102.54	0.617Å HA with 673 GLN OE1	Favored (17.56%) General / -100.4,155.9	58.9% (<i>t80</i>) chi angles: 187.1,67.5	0.035Å	-	-
637	LEU 92.95	0.758Å HB3 with 641 ALA HB3	Favored (17.08%) General / -123.6,165.5	5.8% (<i>mp</i>) chi angles: 292.9,64.8	0.09Å	-	-

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638	THR 11	4.84	0.497Å HG23 with 640 ALA N	(8.48%) General / -94.8,171.9	14% (<i>t</i>) chi angles: 186.7	0.08Å	-	-
639	SER 70	0.56	-	Favored (69.47%) General / -57.8,-34.4	40.4% (<i>t</i>) chi angles: 176.8	0.105Å	-	-
640	ALA 44	4.87	0.551Å O with 644 GLN HG3	Favored (77.23%) General / -64.4,-48.0	-	0.08Å	-	-
# A	Alt Res Hi	igh B	Clash > 0.4Å	Ramachandran	Rotamer	C β deviation	Bond lengths	Bond angles
		Avg: 1.34	Clashscore: 68.62	Outliers: 1 of 135	Poor rotamers: 3 of 115	Outliers: 0 of 128		Outliers: 23 of 137
641	ALA 58	8.54	0.758Å HB3 with 637 LEU HB3	Favored (90.53%) General / -64.9,-38.3	-	0.104Å	-	-
642	LEU 14	11.39	-	Favored (72.29%) General / -60.5,-50.8	22.6% (<i>tp</i>) chi angles: 192.6,60.7	0.052Å	-	-
643	ALA 43	3.44	-	Favored (75.2%) General / -69.6,-41.9	-	0.071Å	-	-
644	GLN 7!	5.48	0.551Å HG3 with 640 ALA O	Favored (67.06%) General / -62.7,-23.3	29.1% (<i>mt-30</i>) chi angles: 290.1,176,130.5	0.041Å	-	-
645	ALA 5	5.96	-	Favored (72.9%) General / -54.8,-43.6	-	0.081Å	-	-
646	GLY 4!	5.12	-	Favored (7.22%) Glycine / 118.5,12.7	-	-	-	-
647	ASP 64	4.91	-	Favored (18.66%) General / 60.8,28.9	65.7% (<i>m-20</i>) chi angles: 295.2,305.1	0.019Å	-	OUTLIER(S) worst is CA- CB-CG: 6.067 σ
648	THR 10	08.4	0.422Å O with 650 PRO HD3	Favored (46.84%) General / -132.1,136.0	15.3% (<i>t</i>) chi angles: 187.8	0.065Å	-	-
			0.609Å HB3 with	Favored (3.96%)	46.9% (mt-30)			

2/19/2015	GLN 73.46	670 VAL HG12	Viewing RPGRIP1_ Pre-proline / -61.3,111.2	mb_621-757H-multi.table - MolPro chi angles: 293,168.8,266.5	obity 0.059Å	-	-
650	PRO 83.32	0.436Å HD2 with 649 GLN HA	Favored (49.91%) Trans-proline / -67.5,139.7	59% (<i>Cg_endo</i>) chi angles: 26.8	0.075Å	-	-
651	THR 110.27	0.935Å HG22 with 670 VAL HG22	Favored (43.74%) General / -118.6,122.9	68.7% (p) chi angles: 63.2	0.086Å	-	-
652	THR 44.26	0.439Å HG22 with 705 GLN HA	Favored (27.94%) General / -142.0,165.3	50.7% (<i>p</i>) chi angles: 65.8	0.092Å	-	-
653	PHE 67.73	0.518Å HE1 with 706 ALA HB2	Favored (33.57%) General / -150.0,151.6	26.8% (<i>p</i> 90) chi angles: 61.7,283.3	0.092Å	-	-
654	CYS 51.54	0.925Å HB2 with 701 LEU HD11	Favored (23.31%) General / -116.9,158.8	19.4% (<i>p</i>) chi angles: 54.6	0.065Å	-	-
655	THR 124.52	0.625Å O with 701 LEU HD12	Favored (27.14%) General / -149.2,145.5	8.7% (<i>t</i>) chi angles: 179.9	0.046Å	-	-
656	TYR 67.33	-	Favored (25.78%) General / -154.4,168.7	44.9% (<i>p90</i>) chi angles: 58.3,84.6	0.076Å	-	-
657	SER 73.86	0.935Å HB2 with 663 THR HG22	Favored (37.15%) General / -139.8,144.1	41.3% (<i>t</i>) chi angles: 177.3	0.118Å	-	-
658	PHE 60.88	0.666Å CD2 with 659 TYR HB2	Favored (48.68%) General / -122.2,144.9	84.4% (<i>t80</i>) chi angles: 179.9,83.1	0.116Å	-	OUTLIER(S) worst is CA- CB-CG: 4.534 σ
659	TYR 78.28	0.667Å HB3 with 661 PHE CE2	Favored (16.99%) General / 54.5,32.6	43.4% (<i>t80</i>) chi angles: 193.2,77	0.061Å	-	-
660	ASP 47.8	-	Favored (27.67%) General / 51.6,45.7	60.6% (<i>t0</i>) chi angles: 188.4,0.5	0.065Å	-	-

Cβ Bond deviation lengths Clash > 0.4Å **Bond** # Alt Res High B Ramachandran **Rotamer** angles

Avg: Clashscore: Outliers: 1 of Poor rotamers: 3 of Outliers: Outliers: Outliers: 23

	81.34	68.62	135	115	0 of 128	0 of 137	of 137
661	PHE 71.15	0.667Å CE2 with 659 TYR HB3	Favored (5.1%) General / -97.0,179.0	39.1% (<i>m-85</i>) chi angles: 280.6,288.4	0.152Å	-	OUTLIER(S) worst is CA- CB-CG: 4.664 σ
662	GLU 77.3	-	Favored (57.63%) General / -59.7,135.3	36.4% (<i>tt0</i>) chi angles: 180.1,184.3,297	0.091Å	-	-
663	THR 100.09	0.935Å HG22 with 657 SER HB2	Favored (34.68%) General / -79.3,144.0	58.9% (<i>p</i>) chi angles: 62.6	0.072Å	-	-
664	HIS 37.23	-	Favored (49.57%) General / -113.6,138.9	67.5% (<i>t60</i>) chi angles: 183.5,85.1	0.113Å	-	OUTLIER(S) worst is CD2- NE2-CE1: 4.49 σ
665	CYS 78.71	-	Favored (45.09%) General / -98.5,130.4	19.4% (<i>p</i>) chi angles: 54.6	0.062Å	-	-
666	THR 45.77	0.823Å HG21 with 654 CYS SG	Favored (92.69%) Pre-proline / -68.6,155.6	67.6% (<i>p</i>) chi angles: 59.4	0.05Å	-	-
667	PRO 82.06	-	Favored (19.55%) Trans-proline / -68.1,129.5	16.9% (<i>Cg_endo</i>) chi angles: 16.9	0.138Å	-	-
668	LEU 99.99	0.577Å N with 668 LEU HD12	Favored (35.96%) General / -80.5,140.3	4.4% (<i>mp</i>) chi angles: 297.3,65.4	0.067Å	-	-
669	SER 34.99	-	Favored (26.41%) General / -150.8,146.5	73.7% (<i>m</i>) chi angles: 293.9	0.082Å	-	-
670	VAL 36.25	0.935Å HG22 with 651 THR HG22	Favored (5.04%) Isoleucine or valine / -92.9,147.9	93.1% (<i>t</i>) chi angles: 178.1	0.072Å	-	-
671	GLY 40.97	0.465Å N with 670 VAL HG12	Favored (11.63%) Glycine / 136.6,169.1	-	-	-	-
672	PRO 169.99	-	Allowed (0.28%) Trans-proline / -74.6,-46.0	51.9% (<i>Cg_exo</i>) chi angles: 335.1	0.171Å	-	-

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673	GLN	139.8	0.617Å OE1 with 636 PHE HA	Favored (41.33%) Pre-proline / -135.0,82.9	31.1% (<i>tp60</i>) chi angles: 181.7,80.9,10.9	0.139Å	-	-
674	PRO	77.1	-	Favored (22.32%) Trans-proline / -80.2,163.7	13.2% (<i>Cg_endo</i>) chi angles: 15.8	0.113Å	-	-
675	LEU	70.84	0.827Å HD23 with 634 GLN CG	Favored (7.59%) General / -109.1,98.1	65.2% (<i>mt</i>) chi angles: 288.9,179	0.2Å	-	-
676	TYR	55.87	-	Favored (92.95%) General / -59.5,-42.8	97.1% (<i>m-85</i>) chi angles: 293.5,276.1	0.142Å	-	-
677	ASP	46.2	-	Favored (28.9%) General / 51.6,41.5	75% (<i>m-20</i>) chi angles: 289.2,358.1	0.08Å	-	OUTLIER(S) worst is CA- CB-CG: 4.038 σ
678	PHE	55.18	0.577Å CE2 with 680 SER HB3	Favored (47.37%) General / -100.8,126.8	87.2% (<i>t80</i>) chi angles: 176.8,73.5	0.058Å	-	OUTLIER(S) worst is CA- CB-CG: 4.051 σ
679	THR	46.88	-	Favored (23.79%) General / -123.7,116.9	86.3% (<i>m</i>) chi angles: 302.7	0.09Å	-	-
680	SER	87.33	0.577Å HB3 with 678 PHE CE2	Favored (49.83%) General / -116.5,140.0	25.1% (<i>p</i>) chi angles: 78.6	0.165Å	-	-
# A	lt Res	High B	Clash > 0.4Å	Ramachandran	Rotamer	C β deviation	Bond lengths	Bond angles
		Avg: 81.34	Clashscore: 68.62	Outliers: 1 of 135	Poor rotamers: 3 of 115		Outliers:	Outliers: 23
681	GLN	55.82	0.632Å HB3 with 629 GLU HG2	Favored (21.25%) General / -150.7,139.9	15.2% (<i>pt20</i>) chi angles: 62.6,180.8,18	0.073Å	-	-
682	TYR	89.63	0.514Å C with 627 LEU HD12	Favored (30.84%) General / -142.7,138.9	3.6% (<i>p90</i>) chi angles: 37.2,88.7	0.036Å	-	OUTLIER(S) worst is CA- CB-CG: 4.831 σ
683	VAL	40.3	0.587Å HG22 with 627 LEU HD13	Favored (19.72%) Isoleucine or valine / -86.7,110.0	76.8% (<i>t</i>) chi angles: 172.8	0.067Å	-	-

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684	MET 86.14	0.617Å CE with 661 PHE HZ	Favored (51.41%) General / -127.1,142.8	19.6% (<i>tpp</i>) chi angles: 189.2,59,41	0.102Å	-	-
685	GLU 130.39	0.816Å OE2 with 625 GLU HG3	Favored (16.58%) General / -112.1,107.6	58% (<i>mp0</i>) chi angles: 295.7,77.8,8.1	0.091Å	-	-
686	THR 91.25	0.851Å HG21 with 689 LEU HB2	Favored (2.2%) General / -162.3,120.7	94.7% (<i>m</i>) chi angles: 299.9	0.086Å	-	-
687	ASP 108.83	-	Favored (2.03%) General / -93.1,-59.5	69% (<i>m-20</i>) chi angles: 296.6,352.6	0.045Å	-	OUTLIER(S) worst is CA- CB-CG: 6.403 σ
688	SER 47.82	-	Favored (34.32%) General / -67.7,-52.7	47.2% (t) chi angles: 180.2	0.076Å	-	-
689	LEU 51.68	0.851Å HB2 with 686 THR HG21	Favored (70.63%) General / -64.1,-29.5	52.4% (<i>mt</i>) chi angles: 294.3,185.6	0.067Å	-	-
690	PHE 116.92	0.407Å CE2 with 658 PHE HZ	Favored (54.12%) General / -60.8,-53.7	29.3% (<i>t80</i>) chi angles: 189.1,281	0.086Å	-	OUTLIER(S) worst is CA- CB-CG: 5.078 σ
691	LEU 48.45	-	Favored (92.33%) General / -62.6,-45.6	87.8% (<i>mt</i>) chi angles: 299.1,180	0.11Å	-	-
692	HIS 69.78	-	Favored (76.3%) General / -63.2,-33.8	90% (<i>m-70</i>) chi angles: 289,272.7	0.061Å	-	OUTLIER(S) worst is CD2- NE2-CE1: 4.358 σ
693	TYR 46.82	0.788Å HA with 696 GLU HG2	Favored (98.77%) General / -60.8,-43.0	35.7% (<i>t80</i>) chi angles: 172.9,274.8	0.085Å	-	-
694	LEU 143.63	0.655Å HD21 with 721 PHE O	Favored (80.75%) General / -56.4,-44.8	43.9% (<i>tp</i>) chi angles: 171.6,67.2	0.137Å	-	-
695	GLN 67.23	-	Favored (30.41%) General / -73.6,-48.7	26.4% (mm100) chi angles: 304.8,296.8,132.8	0.097Å	-	-
696	GLU 86.47	0.788Å HG2 with 693 TYR HA	Favored (84.14%) General /	10.6% (<i>pt-20</i>) chi angles: 58.6,167.3,300.8	0.111Å	-	-

				-60.1,-47.9				
697	ALA	33.03	0.666Å N with 696 GLU HG3	Favored (46.6%) General / -139.7,152.3	-	0.106Å	-	-
698	SER	80.78	0.602Å HB3 with 718 TRP NE1	Favored (12.16%) General / -121.5,168.0	45.8% (t) chi angles: 180.6	0.066Å	-	-
699	ALA	41.79	1.002Å HB3 with 719 ILE HG23	Favored (31.03%) General / -81.8,144.5	-	0.061Å	-	-
700	ARG	111.88	0.64Å HD2 with 700 ARG N	Favored (23.84%) General / -116.9,114.5	0.8% chi angles: 318.7,73.3,179.9,165.4	0.196Å	-	-
# A	lt Res	High B	Clash > 0.4Å	Ramachandran	Rotamer	Cβ deviation	Bond lengths	Bond angles
		Avg: 81.34	Clashscore: 68.62	Outliers: 1 of 135	Poor rotamers: 3 of 115		Outliers:	Outliers: 23
701	LEU	74.18	0.925Å HD11 with 654 CYS HB2	Favored (16.58%) General / -119.4,110.1	25.7% (<i>tp</i>) chi angles: 179.9,74.1	0.175Å	-	-
702	ASP	51.95	-	Favored (33.26%) General / -107.6,145.5	82.2% (<i>m-20</i>) chi angles: 296.9,341.1	0.046Å	-	OUTLIER(S) worst is CA- CB-CG: 6.399 σ
703	ILE	100.62	0.72Å CG2 with 715 ALA HB3	Favored (51.05%) Isoleucine or valine / -107.8,116.3	19.9% (<i>tt</i>) chi angles: 185.1,169.3	0.055Å	-	-
704	HIS	61.86	-	Favored (35.69%) General / -114.4,149.7	1.4% (<i>p-80</i>) chi angles: 30.7,261.2	0.068Å	-	OUTLIER(S) worst is CD2- NE2-CE1: 4.329 σ
705	GLN	55.38	0.439Å HA with 652 THR HG22	Favored (36.24%) General / -90.5,127.5	7% (tt0) chi angles: 180.1,176.8,161.1	0.071Å	-	-
706	ALA	46.22	0.518Å HB2 with 653 PHE HE1	Favored (30.78%) General / -102.1,115.5	-	0.091Å	-	-
707	MET	100.62	0.938Å HG3 with	Favored (11.76%) General /	23.9% (<i>ptp</i>) chi angles:	0.121Å	-	-

		710 GLU H	-104.9,164.5	64.5,186,65.8	-		
708	ALA 30.22	-	Favored (98.9%) General / -62.4,-41.8	-	0.094Å	-	-
709	SER 48.93	-	Favored (8.39%) General / -74.7,-53.9	98.6% (<i>p</i>) chi angles: 64.2	0.066Å	-	-
710	GLU 61.29	0.938Å H with 707 MET HG3	Favored (4.33%) General / -143.0,-175.0	64.6% (<i>tt0</i>) chi angles: 194,167.5,349.9	0.062Å	-	-
711	HIS 82.81	0.557Å H with 710 GLU HG2	Favored (50.94%) General / -129.1,147.5	60.8% (<i>m80</i>) chi angles: 303.9,82.5	0.201Å	-	OUTLIER(S) worst is CD2- NE2-CE1: 4.469 σ
712	SER 45.61	-	Favored (31.23%) General / -153.9,153.0	98.6% (p) chi angles: 64.6	0.112Å	-	-
713	THR 77.82	-	Favored (28.23%) General / -109.9,114.6	62% (<i>m</i>) chi angles: 303.7	0.077Å	-	-
714	LEU 180.94	0.558Å HD23 with 745 PHE CE1	Favored (29.16%) General / -82.0,-35.1	61.1% (<i>tp</i>) chi angles: 179.9,64	0.081Å	-	-
715	ALA 62.75	0.72Å HB3 with 703 ILE CG2	Favored (43.41%) General / -143.4,158.7	-	0.074Å	-	-
716	ALA 49.31	-	Favored (19.38%) General / -153.3,140.4	-	0.098Å	-	-
717	GLY 22.06	-	Favored (25.27%) Glycine / -141.3,168.9	-	-	-	-
718	TRP 158.33	0.602Å NE1 with 698 SER HB3	Favored (28.67%) General / -113.5,115.9	51.7% (<i>t-105</i>) chi angles: 187.9,270.8	0.14Å	-	-
719	ILE 106.65	1.002Å HG23 with 699 ALA HB3	Favored (43.49%) Isoleucine or valine / -101.0,115.9	20.6% (tt) chi angles: 190.9,166.9	0.101Å	-	-

Favored

720	CYS	84.05	0.518Å HB2 with 698 SER OG	Favored (47.35%) General / -139.5,152.9	49.7% (t) chi angles: 186.4	0.097Å	-	-
#	Alt Res	High B	Clash > 0.4Å	Ramachandran	Rotamer	Cβ deviation	Bond lengths	Bond angles
		Avg: 81.34	68.62	Outliers: 1 of 135	Poor rotamers: 3 of 115	Outliers: 0 of 128		
721	PHE	72.36	0.714Å HD1 with 752 MET HE3	Favored (25.05%) General / -117.6,115.4	66.3% (<i>m-85</i>) chi angles: 305.5,285.1	0.126Å	-	OUTLIER(S) worst is CA- CB-CG: 5.959 σ
722	ASP	109.07	-	Favored (29.33%) General / -76.7,-45.4	20.3% (<i>p-10</i>) chi angles: 59.5,318.9	0.067Å	-	-
723	ARG	79.32	0.954Å HD2 with 731 VAL HG21	Favored (74.71%) General / -64.0,-33.0	91.1% (<i>mtt180</i>) chi angles: 294.9,194.4,180.2,192.5	0.066Å	-	-
724	VAL	49.38	0.554Å HG23 with 721 PHE HB3	Favored (27.43%) Isoleucine or valine / -56.4,-28.9	93.7% (<i>t</i>) chi angles: 175.7	0.082Å	-	-
725	LEU	156.87	-	Favored (65.59%) General / -60.5,-52.3	36% (<i>tp</i>) chi angles: 187.5,61.3	0.071Å	-	-
726	GLU	103.33	-	Favored (4.74%) General / -78.6,-56.0	84.9% (tt0) chi angles: 183.6,179.7,348.1	0.059Å	-	-
727	THR	60.75	0.636Å HG22 with 728 VAL N	Favored (6.53%) General / -111.2,173.0	47.5% (<i>m</i>) chi angles: 305.1	0.052Å	-	-
728	VAL	120.12	0.636Å N with 727 THR HG22	Favored (6.26%) Isoleucine or valine / -147.4,129.0	30.7% (<i>m</i>) chi angles: 296.9	0.062Å	-	-
729	GLU	78.6	0.515Å HG3 with 728 VAL O	OUTLIER (0%) General / 149.0,-156.6	49.7% (<i>mt-10</i>) chi angles: 272.5,168.4,348.7	0.172Å	-	OUTLIER(S) worst is N- CA-CB: 4.051 σ
730	LYS	122.19	0.554Å HD2 with 730 LYS N	Favored (3.57%) General /	11.3% (<i>mptt</i>) chi angles: 295,66.1,180.1,176.9	0.079Å	-	-

#	Alt Res	High B	Clash > 0.4Å	Ramachandran	Rotamer	Cβ deviation	Bond lengths	Bond angles
		Avg:	Clashscore:	Outliers: 1 of	Poor rotamers: 3 of	Outliers:	Outliers:	Outliers: 23
		81.34	68.62	135	115	0 of 128	0 of 137	of 137
741	GLY	72.45	-	Favored (99.11%) Glycine / -63.5,-41.9	-	-	-	-

0.106Å

(27.57%)

Glycine / -77.0,142.4 Favored (79.85%)

General / -65.4,-46.5

739

740

GLY 39.66

ALA 33.6

742	0.524Å GLY 302.96 O with 743 GLU HG3	Favored (2.46%) Glycine / 121.1,116.4	-	-	-	-
743	0.524Å GLU 336.37 HG3 with 742 GLY O	Allowed (0.42%) General / -171.5,-165.9	51.3% (<i>mt-10</i>) chi angles: 287.8,180.7,48.8	0.162Å	-	OUTLIER(S) worst is C-N- CA: 10.932 σ
744	0.45Å GLU 170.94 H with 743 GLU HB3	Favored (3.12%) General / -89.5,22.0	93.9% (<i>mt-10</i>) chi angles: 292.5,185.3,1.2	0.101Å	-	-
745	0.558Å PHE 115.64 ^{CE1} with 714 LEU HD23	Allowed (1.96%) General / -43.0,-59.5	49.9% (<i>t80</i>) chi angles: 191.1,83	0.072Å	-	OUTLIER(S) worst is CA- CB-CG: 4.646 σ
746	GLY 39.67 -	Favored (39.49%) Glycine / 170.9,175.4	-	-	-	-
747	0.534Å VAL 30.27 HG12 with 748 LEU N	Favored (21.63%) Isoleucine or valine / -119.3,151.6	91.3% (<i>t</i>) chi angles: 177	0.071Å	-	-
748	0.534Å LEU 47.29 N with 747 VAL HG12	Favored (49.26%) General / -114.2,139.6	43.2% (<i>tp</i>) chi angles: 186.2,62.5	0.061Å	-	-
749	0.426Å GLU 76.92 CD with 734 LEU HD21	Favored (29.21%) General / -107.0,114.9	35.6% (<i>mm-40</i>) chi angles: 280.7,280.3,353.4	0.109Å	-	-
750	0.407Å TYR 64.12 HB3 with 632 ILE CD1	Favored (32.04%) General / -147.2,164.8	32.9% (<i>p90</i>) chi angles: 57.9,79.9	0.093Å	-	-
751	0.535Å TRP 66.7 CE2 with 631 HIS HB3	Favored (37.88%) General / -145.1,151.0	61.3% (<i>p</i> -90) chi angles: 51.7,265.9	0.068Å	-	-
752	0.793Å MET 126.29 HE1 with 731 VAL HG13	Favored (46.26%) General / -129.0,154.8	0% chi angles: 53.6,290.4,192.3	0.089Å	-	-
753	0.537Å ARG 135.06 HD3 with 629 GLU OE1	Favored (23.25%) General / -152.2,143.4	2.2% (<i>ptm180</i>) chi angles: 58.9,145.4,274.6,205.4	0.152Å	-	-

2/19/2015	Viewing RPGRIP1_mb_621-757H-multi.table - MolProbity								
754	0.782Å LEU 193.6 HD21 with 628 PHE CE2	Favored (11%) General / 2 -135.3,113.2	4.5% (<i>mm</i> ?) chi angles: 276.4,295.2	0.191Å	-	-			
755	0.76Å ARG 144.16 HA with 621 LEU CD1	Favored (14.24%) General / -149.8,173.0	8.1% (<i>ptm-85</i>) chi angles: 59.2,186.6,294.3,268.2	0.089Å	-	-			
756	0.718Å PHE 109.12 HB3 with 622 HIS HE1	Favored (89.99%) Pre-proline / -74.6,125.1	28.4% (<i>t80</i>) chi angles: 162.4,80.8	0.065Å	-	OUTLIER(S) worst is CA- CB-CG: 4.638 σ			
757	0.899Å PRO 61.62 HG3 with 627 LEU HB2	<u>-</u>	19.3% (<i>Cg_endo</i>) chi angles: 17.7	0.122Å	-	OUTLIER(S) worst is N- CA-CB: 4.379 σ			

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