

**Supplementary Table 1. Results for cross-rotation and translation searches in molecular replacement.** (The highest peaks in bold prove to be the correct solutions.)

Model Search	Variable domain (V <sub>H</sub> V <sub>L</sub> )					Constant domain (C <sub>H</sub> C <sub>L</sub> )				
Top 10 cross- rotation search peaks	peak#	theta1	theta2	theta3	height	peak#	theta1	theta2	theta3	height
	<b>1</b>	<b>338.554</b>	<b>61.493</b>	<b>267.078</b>	<b>0.0610</b>	<b>1</b>	<b>325.185</b>	<b>49.005</b>	<b>260.569</b>	<b>0.0721</b>
	2	338.189	72.743	276.187	0.0523	2	326.853	51.007	272.250	0.0492
	3	49.838	80.752	313.773	0.0467	3	103.252	69.502	82.302	0.0489
	4	328.677	68.738	270.680	0.0443	4	352.501	76.748	279.475	0.0456
	5	23.311	67.500	303.208	0.0437	5	151.705	78.750	132.004	0.0440
	6	36.271	80.752	317.790	0.0434	6	312.677	56.250	272.683	0.0429
	7	347.180	76.748	279.608	0.0432	7	324.231	65.498	271.702	0.0427
	8	37.225	84.757	305.394	0.0415	8	120.046	73.507	85.847	0.0425
	9	28.171	67.500	329.326	0.0414	9	348.463	61.493	293.623	0.0421
	10	17.172	77.512	282.795	0.0413	10	347.030	88.887	318.739	0.0420
	mean of cross-rotation function: 0.0307					mean of cross-rotation function: 0.0312				
Translation search for top 10 cross- rotation peaks in <i>P3<sub>2</sub>21</i>	peak#	transX	transY	transZ	height	peak#	transX	transY	transZ	height
	<b>1</b>	<b>4.62</b>	<b>53.68</b>	<b>-69.47</b>	<b>0.204</b>	<b>1</b>	<b>-7.91</b>	<b>66.25</b>	<b>15.31</b>	<b>0.263</b>
	2	15.83	93.66	-65.94	0.125	2	50.12	34.26	-80.07	0.122
	3	-1.32	54.82	-69.47	0.097	3	33.63	35.41	8.24	0.115
	4	79.13	18.27	8.24	0.092	4	82.43	33.12	14.13	0.156
	5	-6.59	43.40	-63.59	0.137	5	-17.80	76.52	-70.65	0.156
	6	78.47	35.41	11.77	0.121	6	61.99	50.26	-61.23	0.099
	7	28.36	97.08	0.00	0.109	7	76.49	47.97	12.95	0.122
	8	91.00	31.98	-56.52	0.074	8	46.82	46.83	-61.23	0.130
	9	67.92	33.12	-61.23	0.162	9	89.68	4.57	-69.47	0.099
	10	8.57	78.81	-82.43	0.104	10	16.49	65.10	5.89	0.118
	mean of translation function: 0.119					mean of translation function: 0.124				