

Supplementary Table I

Table 1 Data collection, phasing and refinement statistics

	Wild type (crystal 1)				Wild type (crystal 2)	Δ App mutant	a4 mutant
Data collection							
Space group	I4 ₁				I4 ₁	I4 ₁	P2 ₁
Cell dimensions							
<i>a, b, c</i> (Å)	126.1, 126.1, 101.3				127.4, 127.4, 99.6	129.1, 129.1, 98.0	44.3, 212.2, 54.3
α, β, γ (°)	90, 90, 90				90, 90, 90	90, 90, 90	90, 97.0, 90
	<i>Inflection</i>	<i>Peak</i>	<i>Remote</i> <i>1</i>	<i>Remote</i> <i>2</i>			
Wavelength	0.9794	0.9793	0.9817	0.9734	0.9797	1.0	1.0
Resolution (Å)	50-3.2 (3.31-3.2)	50-3.2 (3.31-3.2)	50-3.25 (3.37- 3.25)	50-3.3 (3.42- 3.3)	50-3.1 (3.21-3.1)	20-2.9 (3.0-2.9)	50-2.4 (2.49- 2.4)
<i>R</i> _{merge}	0.065 (0.451)	0.065 (0.371)	0.063 (0.372)	0.087 (0.394)	0.066 (0.363)	0.074 (0.350)	0.098 (0.323)
<i>I</i> / σ <i>I</i>	21.3 (3.1)	23.4 (8.5)	21.4 (8.37)	19.3 (7.0)	22.9 (4.5)	20.7 (5.5)	11.0 (3.7)
Completeness (%)	99.8 (100)	99.9 (100)	99.8 (100)	99.9 (100)	99.6 (100)	99.8 (100)	99.6 (93.5)
Redundancy	7.56	7.58	7.55	7.54	7.64	6.47	3.8
Refinement							
Resolution (Å)					20-3.1	20-2.9	50-2.4
No. reflections					14449	16852	38523
<i>R</i> _{work} / <i>R</i> _{free}					0.236 /0.264	0.238 /0.269	0.215 /0.270
No. atoms							
Protein					1698	1622	7204
Ligand/ion					0	0	1 (Ca ²⁺)
Water					0	0	197
B-factors							
Protein					84.8	74.8	54.7
Ligand/ion							54.6
Water							36.3
R.m.s deviations							
Bond lengths (Å)					0.0057	0.0072	0.0051
Bond angles (°)					1.03	1.10	0.959

Highest resolution shell is shown in parenthesis.