

1 Supplementary Table

Table S1. Data processing and structural refinement

Dataset/PDB ID	UVR8/6dd7	PhrB/6dd6
Space group	C2	P2 ₁ 2 ₁ 2
Unit cell (Å/°)	112.5, 77.3, 189.3, 95.6	99.7, 106.8, 57.3
Molecular mass/asymmetric unit (kDa)	174	61
Crystallization devices	11	7
Frames collected	874	593
Frames used (1 st +2 nd +3 rd exposures = total)	218+88+56 = 362	334+0+0 = 334
Spots measured	808,932	458,622
Spots merged/spots per frame	749,321/2,070	422,221/1,264
Unique reflections/redundancy	99,141/7.6	27,730/15.2
Harmonic/spatial overlap deconvolutions	18,731/780	6,628/344
Resolution/high resolution bin (Å)	2.0/2.1-2.0	2.3/2.4-2.3
Completeness/high resolution bin (%)	85.9/33.1	99.3/96.7
X-ray bandwidth (%)	6.6	5.6
Wilson <i>B</i> factor	26.6	32.8
$\langle F \rangle / \sigma(F)$ /high resolution bin	10.3/9.4	20.9/12.1
R_{merge} (%)	22.2	12.6
$R_{\text{work}}/R_{\text{free}}$ (%)	23.5/29.8	16.6/23.5
Bond length/angle rmsd (Å/°)	0.008/0.930	0.009/1.127

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