

Supplemental Material

Table S1: The compositions of four datasets in this study.

Dataset	All- α	All- β	$\alpha+\beta$	α/β	overall
Z277	70	61	65	81	277
Z498	107	126	129	136	498
1189	223	294	241	334	1092
25PDB	443	443	441	346	1673

Table S2: Results of DPC-PSSM, AADP-PSSM, PSSM-LPC on the 25PDB dataset.

Structural class	DPC-PSSM (%)			AADP-PSSM (%)			PSSM-LPC (%)		
	Sens	Spec	MCC	Sens	Spec	MCC	Sens	Spec	MCC
All- α	81.9	91.3	71.9	83.3	91.6	73.5	87.3	93.8	80.1
All- β	74.9	91.4	66.6	78.1	90.7	67.9	81.7	92.3	73.3
α/β	74.6	92.5	66.2	76.3	93.2	68.9	75.1	92.3	66.4
$\alpha+\beta$	54.6	86.5	42.3	54.4	88.1	44.5	57.6	88.9	48.4
OA	71.4			72.9			75.5		