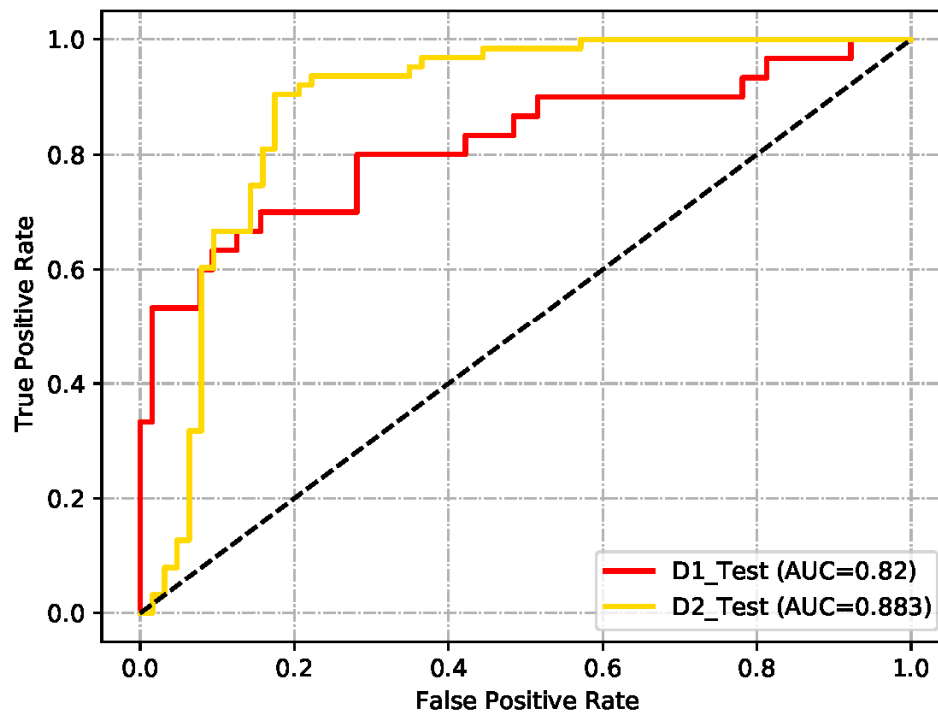


**Table S1.** The performance of DP-PSSM with different  $\alpha$  on the D1\_Train dataset using the 10-fold CV.

Method	$\alpha$	ACC	SN	SP	MCC
DP-PSSM	1	0.827	0.657	0.909	0.593
	2	0.834	0.657	0.918	0.607
	3	0.824	0.667	0.899	0.587
	4	0.844	0.677	0.923	0.631
	5	0.814	0.707	0.865	0.574

**Table S2.** Prediction comparison on the D1\_Train and D2\_Train datasets by using the 10-fold CV and the jackknife CV.

Dataset	Validation	ACC	SN	SP	MCC
D1_Train	10-fold CV	0.873	0.747	0.933	0.703
	Jackknife CV	0.879	0.778	0.928	0.720
D2_Train	10-fold CV	0.864	0.852	0.876	0.728
	Jackknife CV	0.868	0.868	0.868	0.736



**Figure S1:** The ROC curves of iPVP-MCV on the independent testing datasets.