

**S3 Table**

Category	Site type	$n_p$	$n_+$	$n_u$	AUC	$sn$	$sp$	MCC
Metal binding	Ca	816	17	2783	0.945	0.294	0.985	0.171
	Fe	817	26	2775	0.903	0.179	0.985	0.128
	Mg	817	32	2774	0.926	0.156	0.986	0.120
	Zn	817	106	2698	0.849	0.500	0.965	0.398
PTMs	Nglyco	89	30	86	0.902	0.400	0.988	0.539
	Phos	323	100	404	0.775	0.300	0.988	0.451
Catalytic sites	Cat	816	186	2616	0.860	0.255	0.965	0.254
Macromolecular binding	DNA	817	22	2787	0.739	0.091	0.986	0.057
	RNA	817	18	2791	0.682	0.056	0.986	0.028
	PPI	817	192	2610	0.558	0.063	0.965	0.037
Ligand binding	ATP	817	112	2694	0.848	0.159	0.985	0.200
	GTP	817	61	2748	0.749	0.180	0.987	0.188
	NAD	817	12	2795	0.891	0.083	0.985	0.037