Table S5. Specificity determining sequence motifs of TaTT and TAs from the families of PLP fold type IV.

	Sequence motif 1	Sequence motif 2	numbering corresponds to:
BCAT	³¹ YxxxxF[ED]Gx[KR] ⁴⁰	⁹⁵ YxR ⁹⁷ ¹⁰⁷ [LMVI]G[VL] ¹⁰⁹	BCAT from Escherichia coli
DAAT	²⁶ FxxxxYxV[IVA][KR] ³⁵	⁸⁶ HxY ⁸⁸ ⁹⁸ [RK]xH ¹⁰⁰	DAAT from Bacillus sp. YM-1
R-TA	⁵³ HxxxxYD[VT]x[STAHP] ⁶²	¹¹³ [FY]V[EQAWNS] ¹¹⁵ ¹²⁶ [RKFGP]x[STANER] ¹²⁸	R-TA from Nectria haematococca
ТаТТ	³⁴ SxxxxFEGIR ⁴³	¹⁰¹ YIM ¹⁰³ ¹¹⁴ FSV ¹¹⁶	BCAT from <i>Thermobaculum</i> terrenum