

Tb1, a neurotoxin from *Tityus bahiensis* scorpion venom, induces epileptic seizures by increasing glutamate release

Emidio Beraldo Neto Lucas Alves de Freitas, Daniel Carvalho Pimenta, Ivo Lebrun and Ana L. A. Nencioni

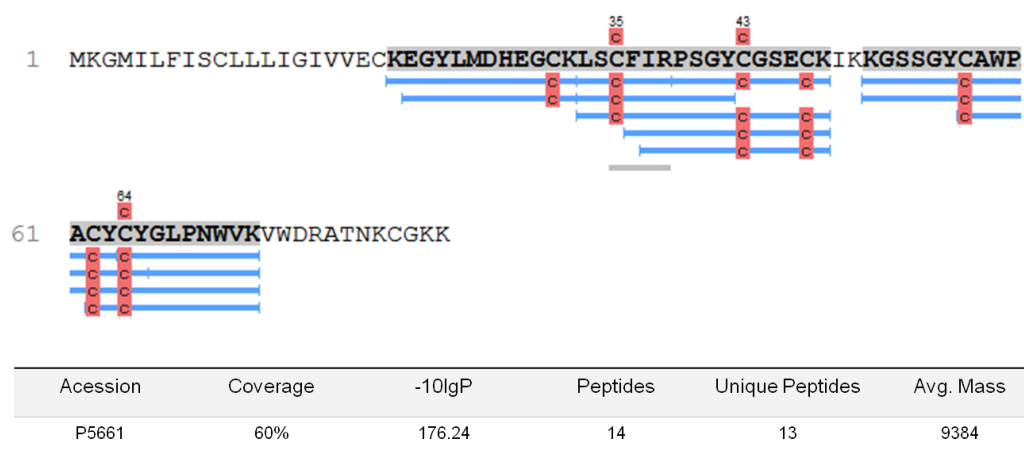


Figure S1. Result of the coverage and reliability of identification of Tb1 against Arachnida database and the respective peptides found.

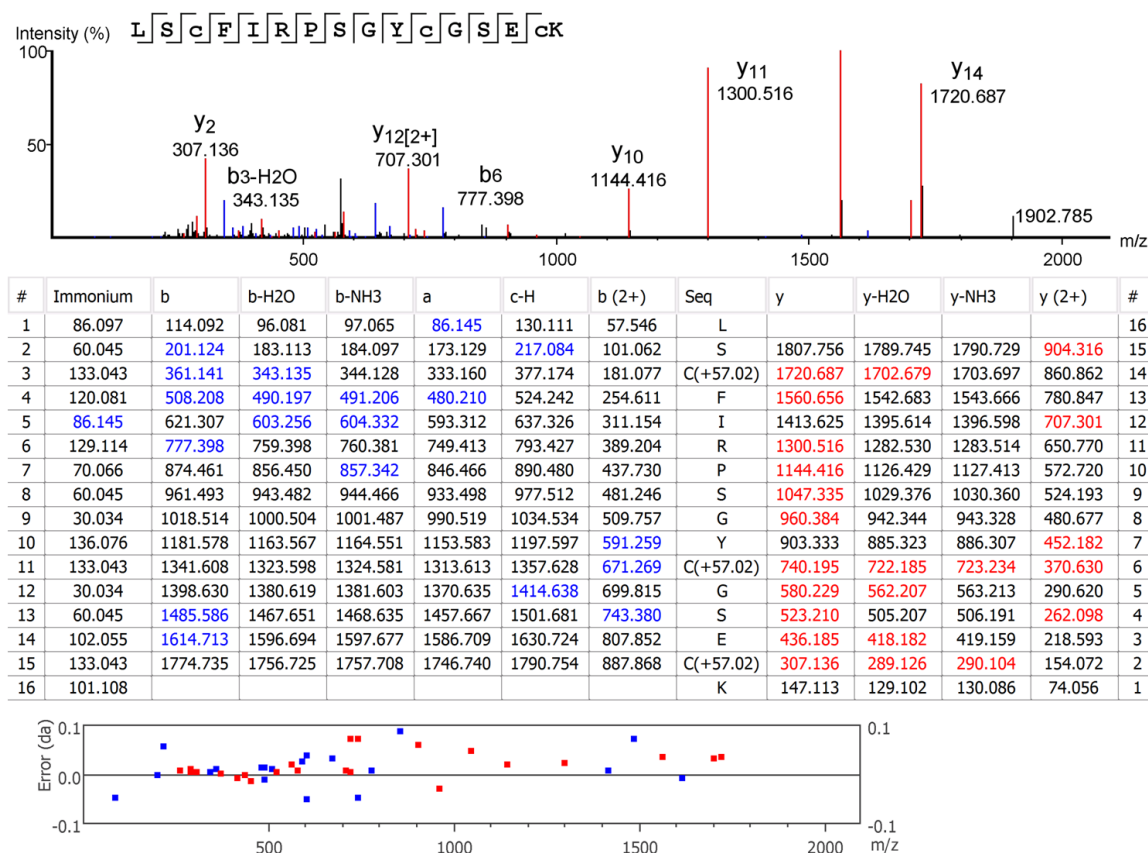


Figure S2. Spectrum from ion 1919.8328 tryptic peptides identified for Tb1 with ion table and error map. Spectrum from ion 1919.8328 tryptic peptides identified for Tb1 with ion table and error map.

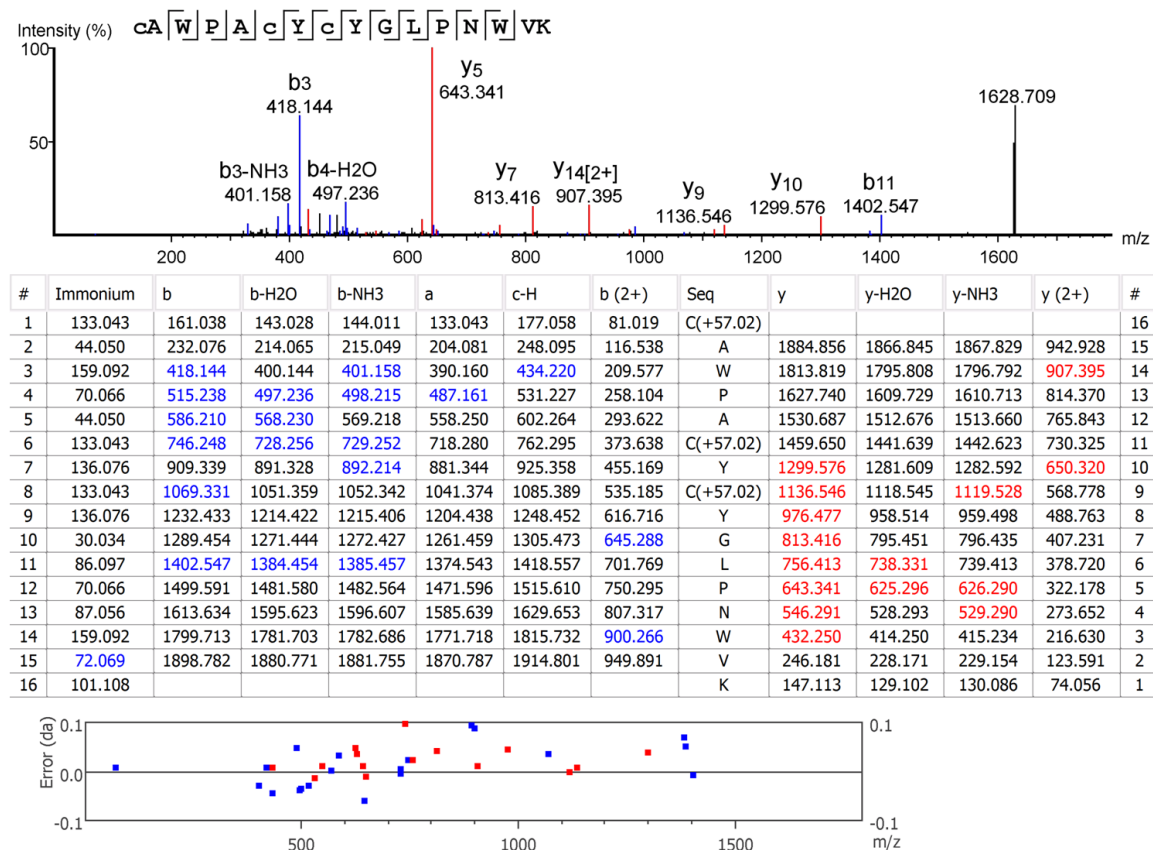


Figure S3. Spectrum from ion 2043.8794 tryptic peptides identified for Tb1 with ion table and error map.

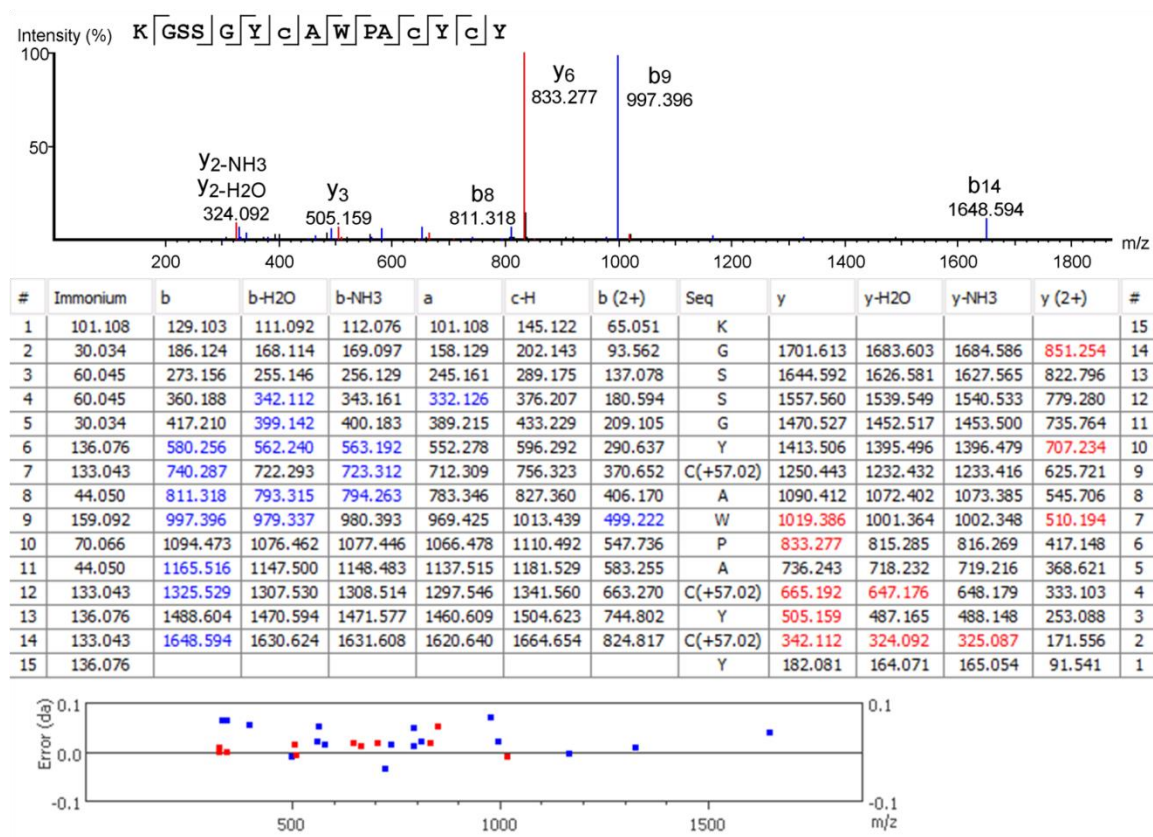
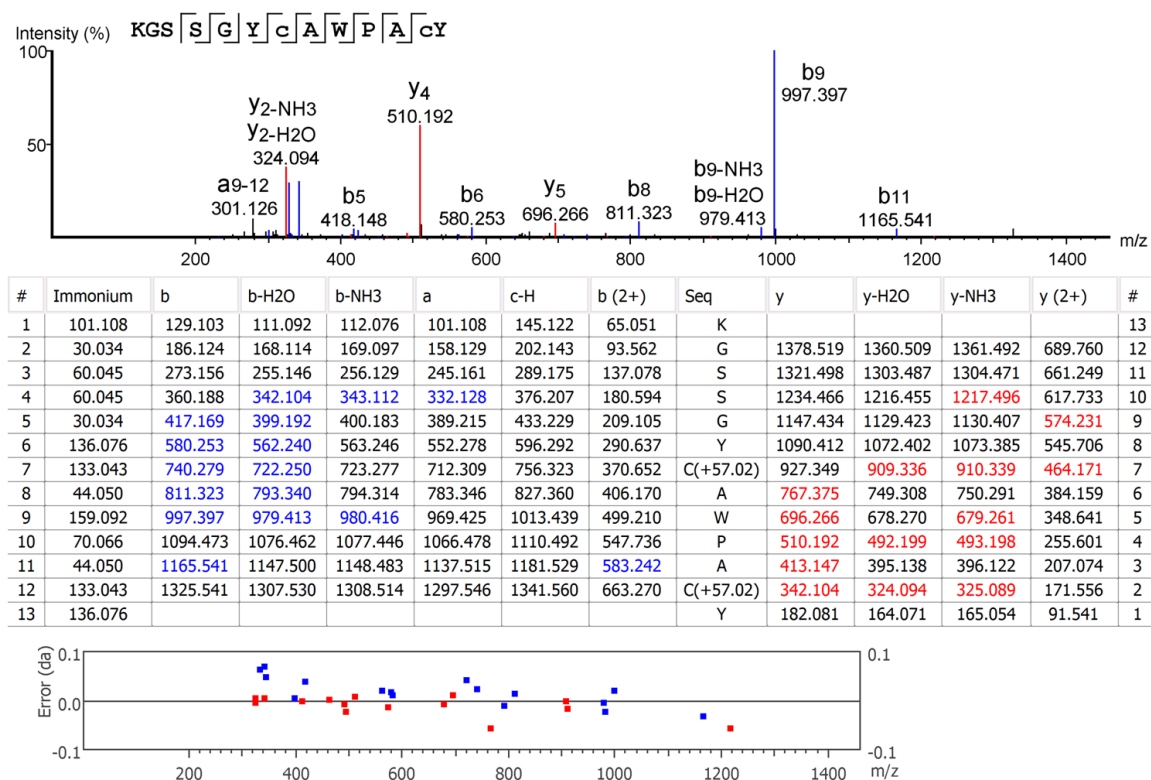
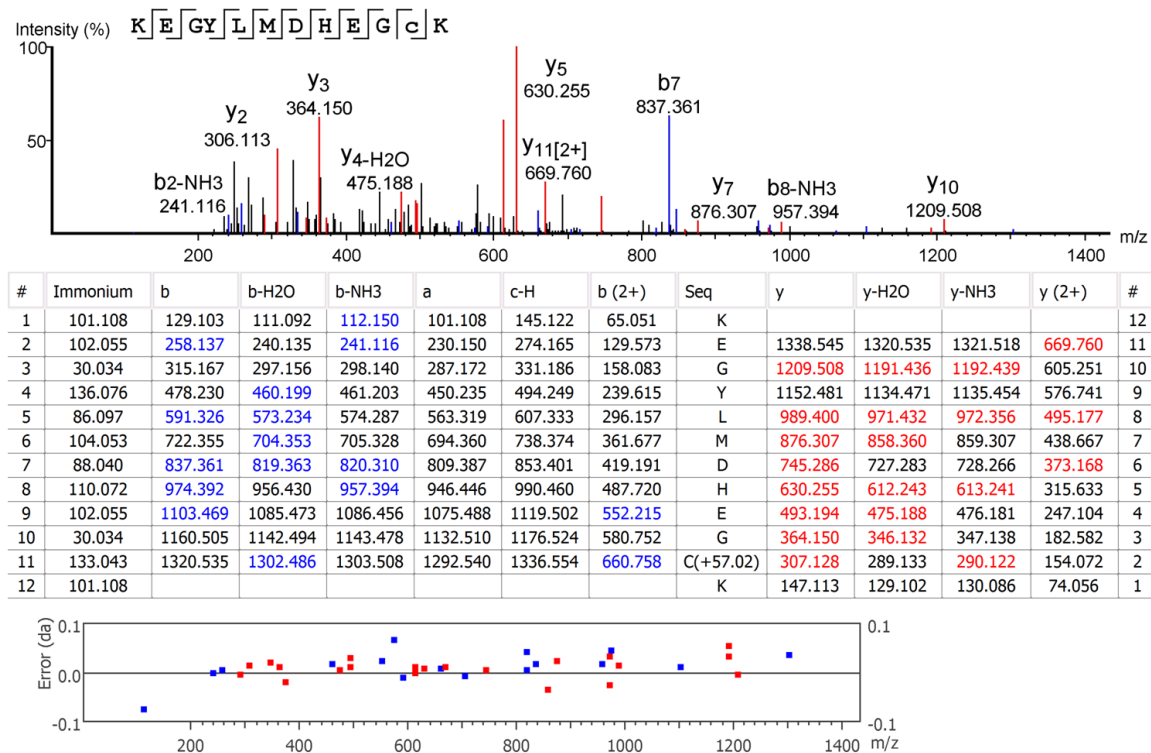


Figure S4. Spectrum from ion 1828.7007 tryptic peptides identified for Tb1 with ion table and error map.**Figure S5.** Spectrum from ion 1505.6067 tryptic peptides identified for Tb1 with ion table and error map.**Figure S6.** Spectrum from ion 1465.6329 tryptic peptides identified for Tb1 with ion table and error map.

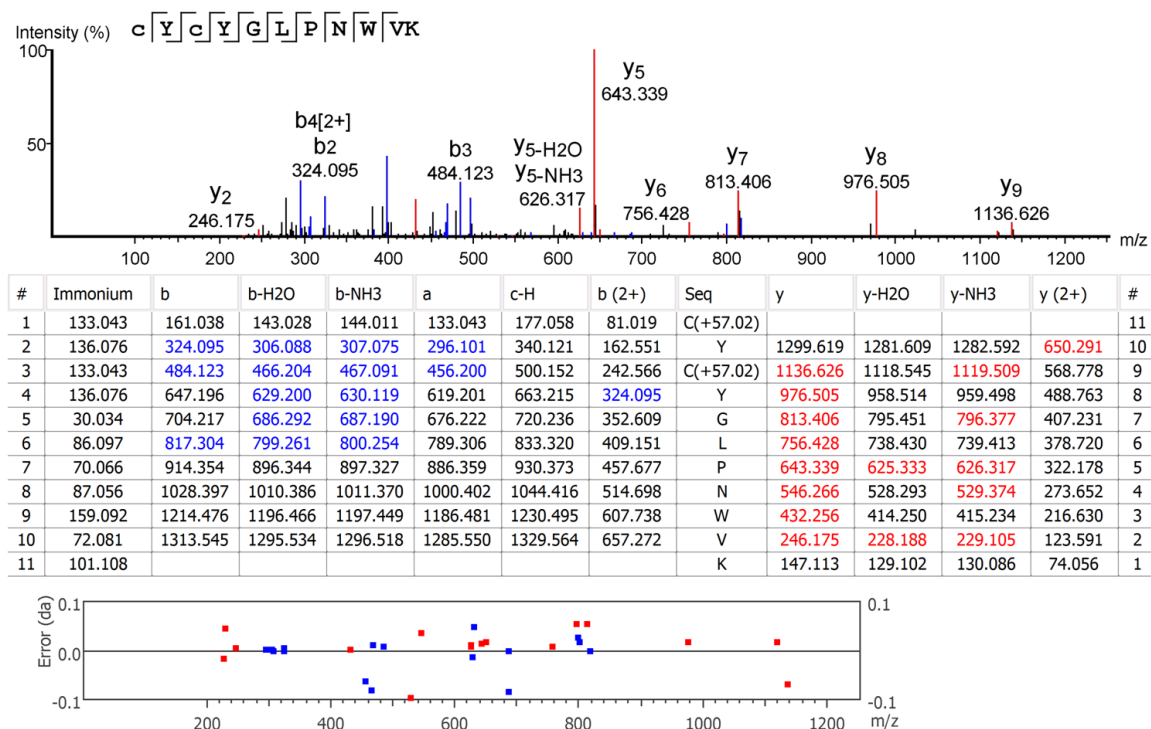


Figure S7. Spectrum from ion 1458.6425 tryptic peptides identified for Tb1 with ion table and error map.

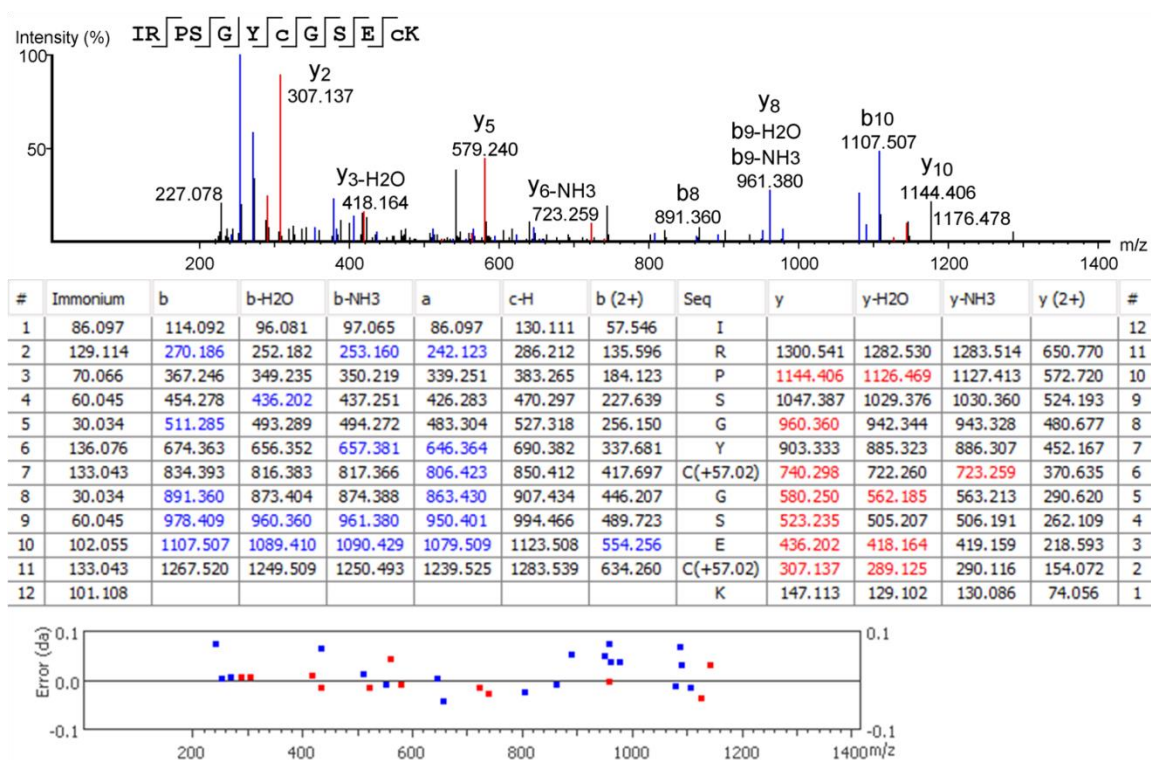


Figure S8. Spectrum from ion 1412.6177 tryptic peptides identified for Tb1 with ion table and error map.

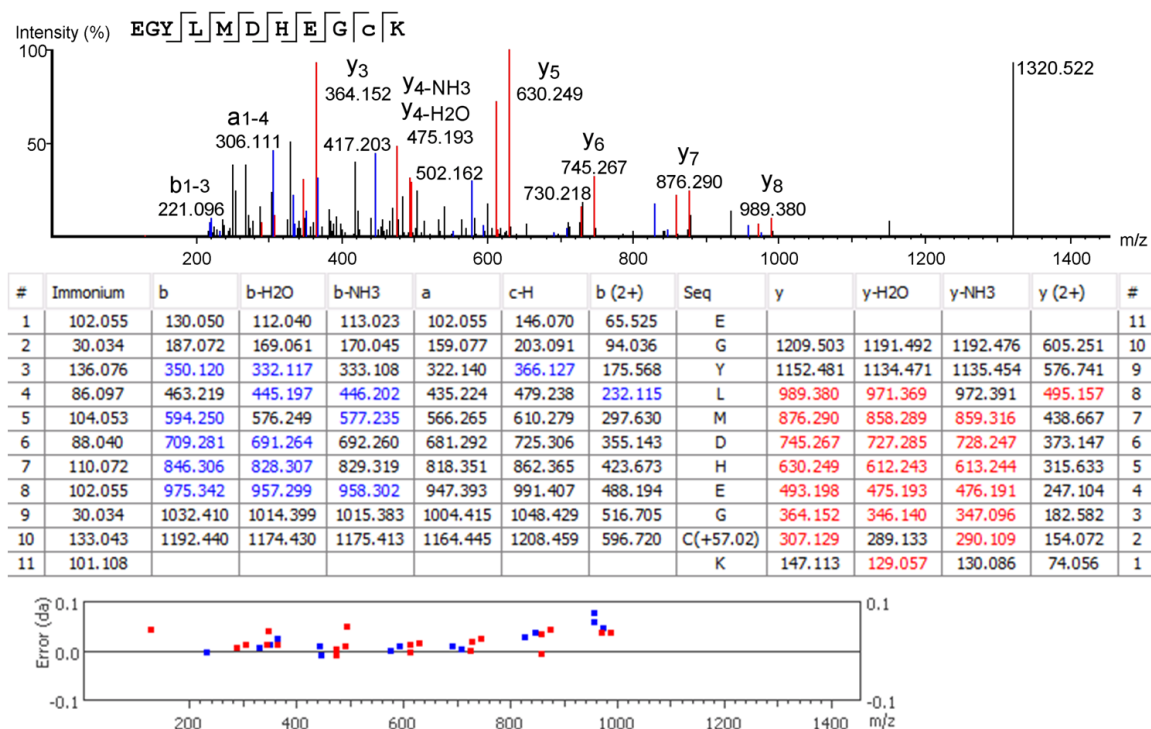


Figure S9. Spectrum from ion 1337.538 tryptic peptides identified for Tb1 with ion table and error map.

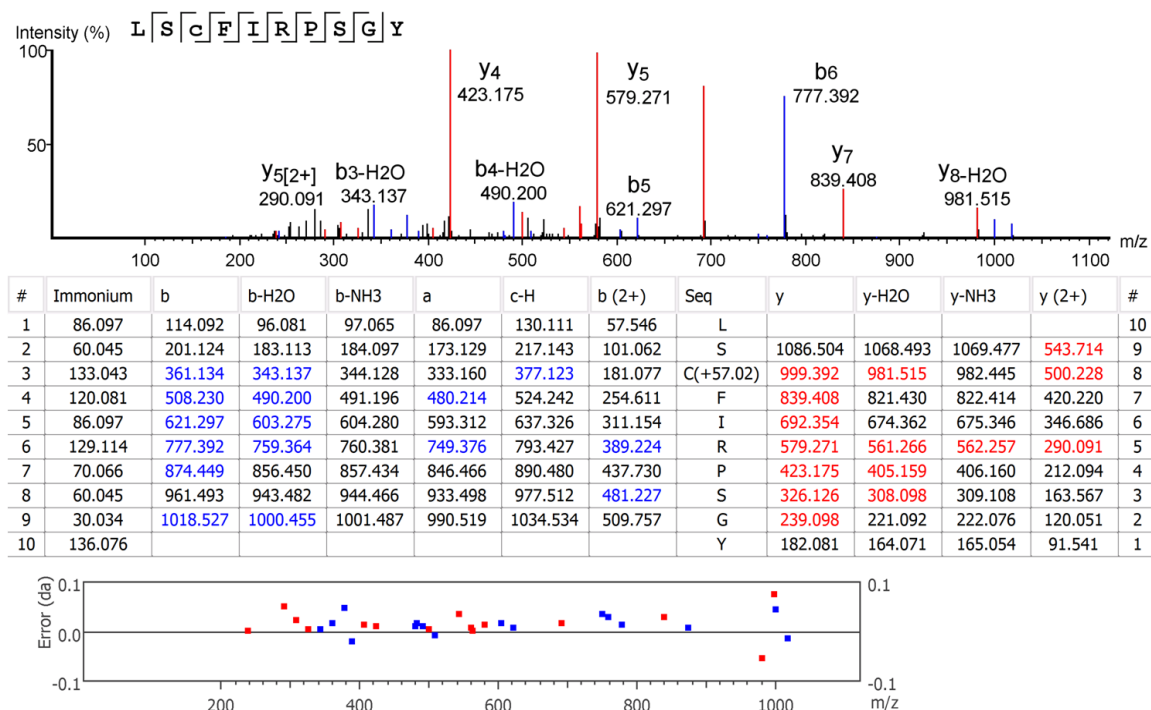


Figure S10. Spectrum from ion 1198.5804 tryptic peptides identified for Tb1 with ion table and error map.

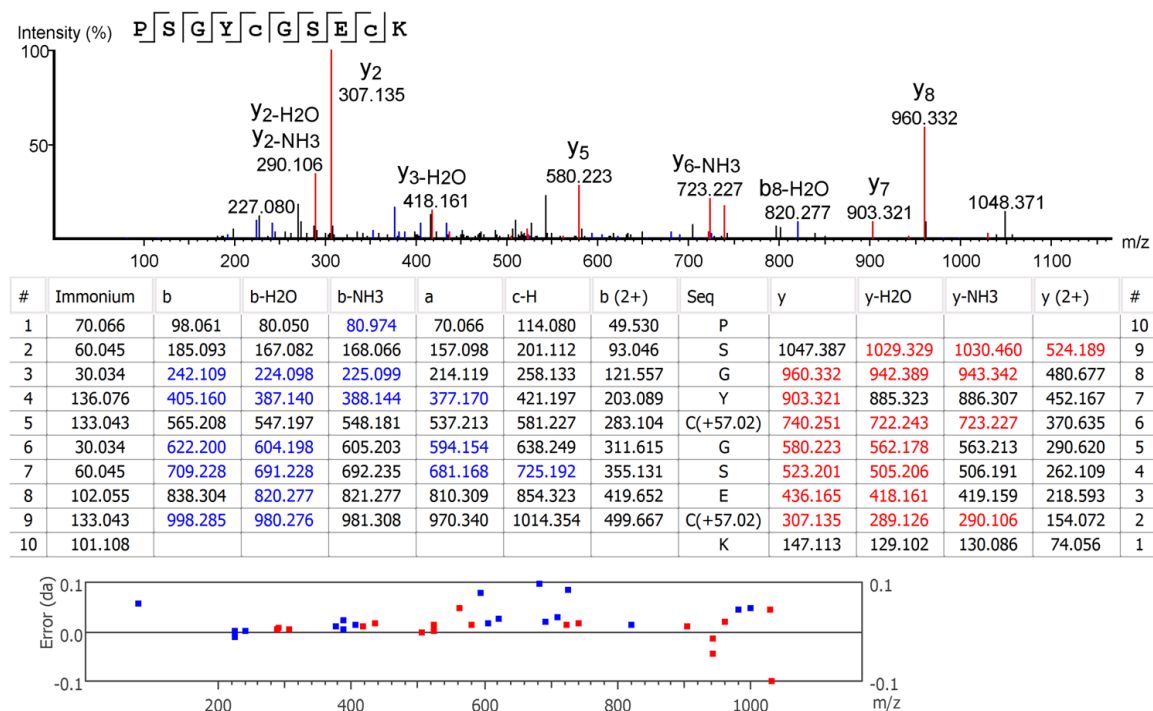


Figure S11. Spectrum from ion 1143.4325 tryptic peptides identified for Tb1 with ion table and error map.

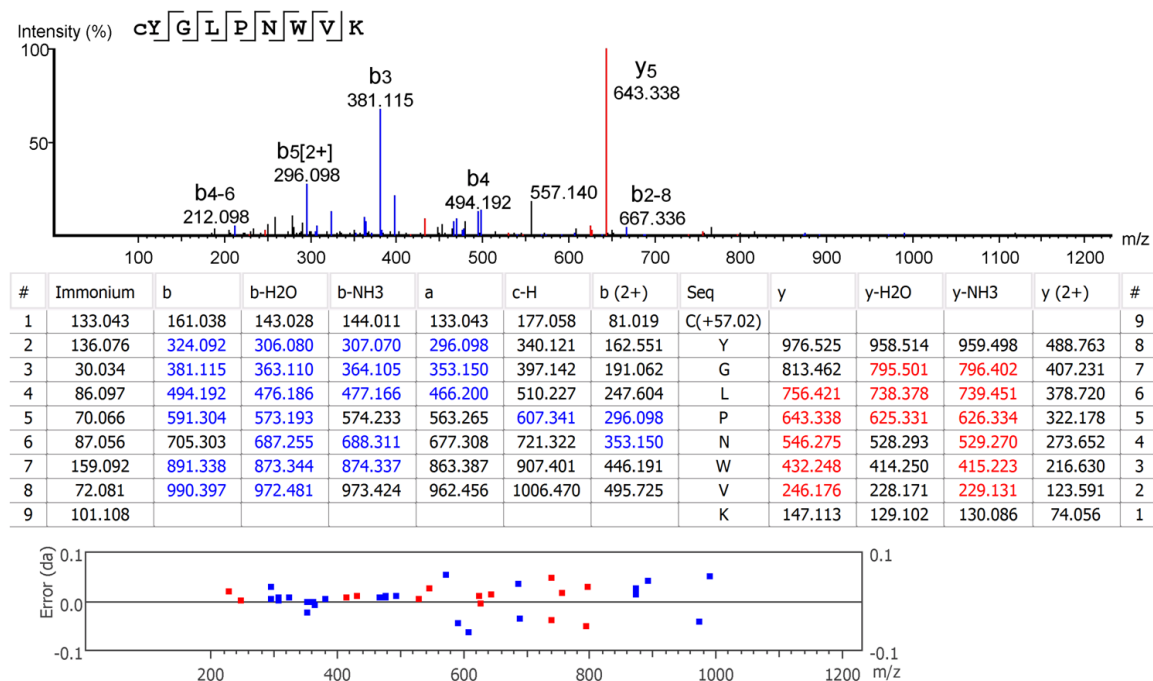


Figure S12. Spectrum from ion 1135.5485 tryptic peptides identified for Tb1 with ion table and error map.

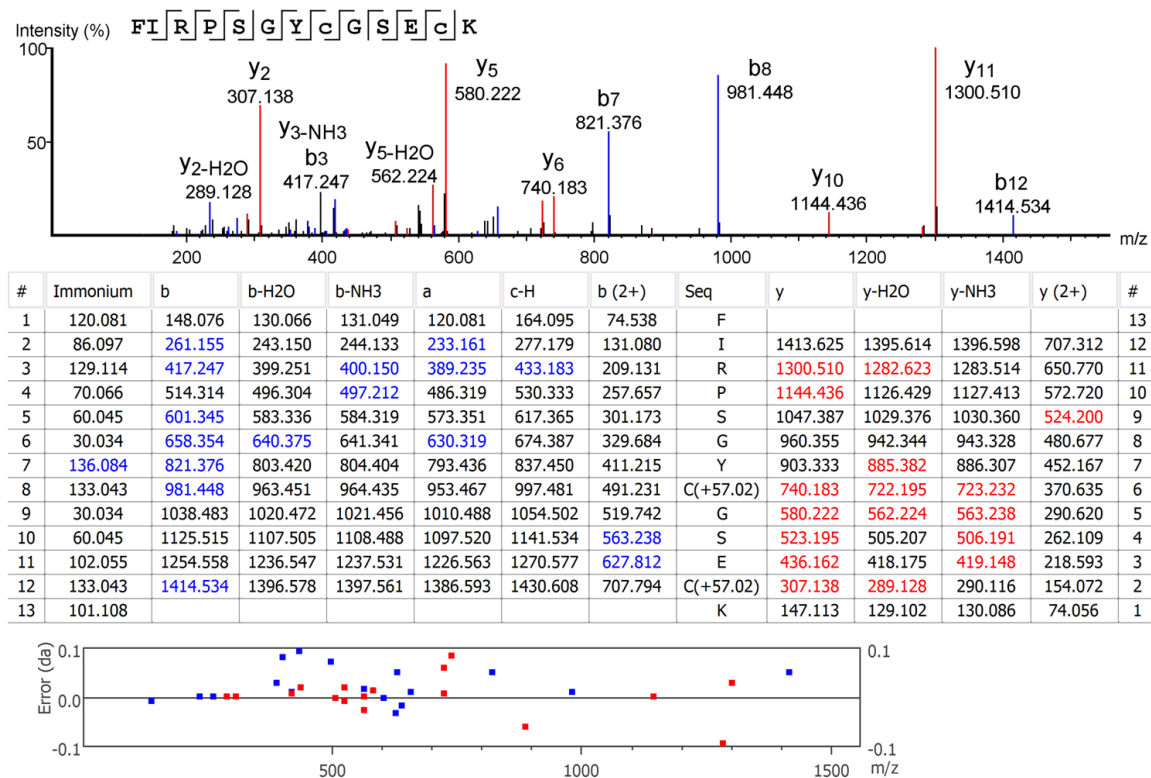


Figure S13. Spectrum from ion 1559.686 tryptic peptides identified for Tb1 with ion table and error map.

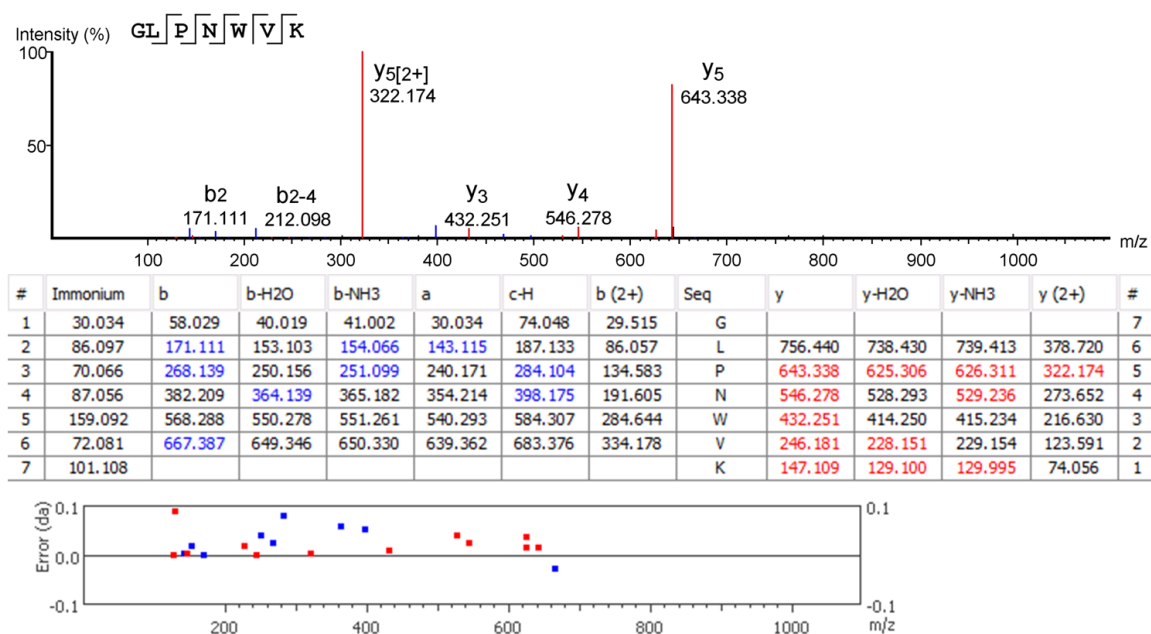


Figure S14. Spectrum from ion 812.4545 tryptic peptides identified for Tb1 with ion table and error map.

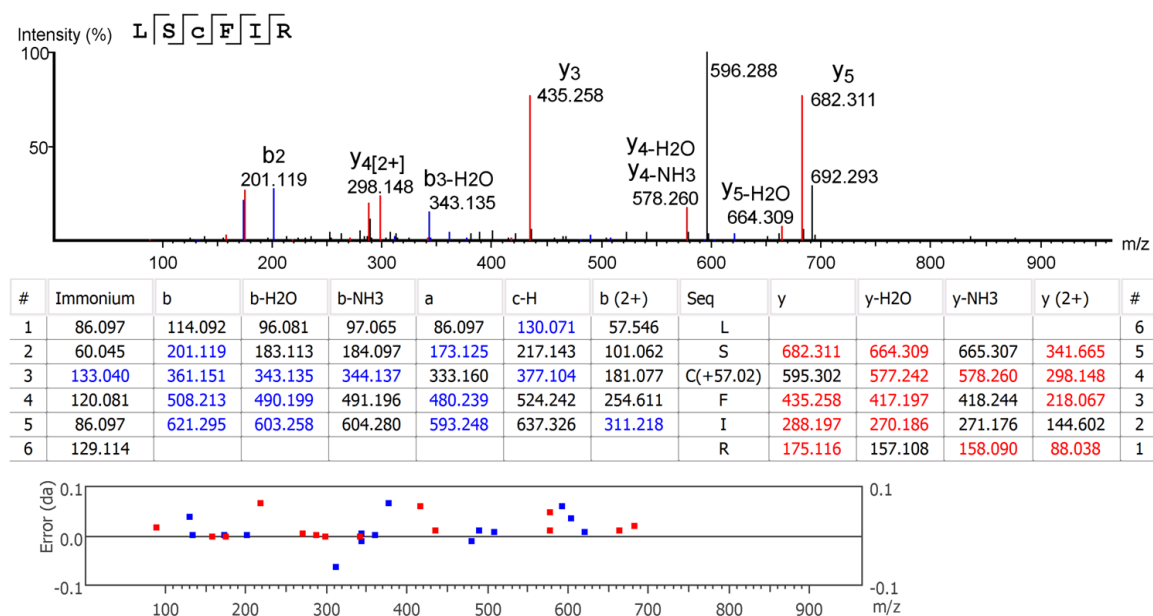


Figure S15. Spectrum from ion 794.4109 tryptic peptides identified for Tb1 with ion table and error map.

Table S1. List of peptides identified for Tb1.

Peptide	-10lgP	Mass	ppm	m/z	RT	Scan
C(+57.02*)AWPAC(+57.02*)YC(+57.02*)YGLPNWVK	49.71	2043.8794	41.8	10.229.897	0.49	270
LSC(+57.02*)FIRPSGYC(+57.02*)GSEC(+57.02*)K	62.56	1919.8328	-25.8	6.409.350	0.31	149
KGSSGYC(+57.02*)AWPAC(+57.02*)YC(+57.02*)Y	51	1828.7007	-18.6	9.153.406	0.38	258
FIRPSGYC(+57.02*)GSEC(+57.02*)K	45.78	1559.686	-18.5	5.208.930	0.25	67
KGSSGYC(+57.02*)AWPAC(+57.02*)Y	44.06	1505.6067	-35.1	7.537.842	0.34	216
KEGYLMDHEGC(+57.02*)K	46.59	1465.6329	-124.4	7.337.326	0.21	210
C(+57.02*)YC(+57.02*)YGLPNWVK	44.38	1458.6425	-26.2	7.303.094	0.42	208
IRPSGYC(+57.02*)GSEC(+57.02*)K	31.02	1412.6177	5.5	7.073.200	0.2	197
EGYLMDEHGC(+57.02*)K	53.48	1337.538	-23.4	6.697.606	0.24	177
LSC(+57.02*)FIRPSGY	44.89	1198.5804	-22.3	6.002.841	0.35	127
PSGYC(+57.02*)GSEC(+57.02*)K	48.93	1143.4325	-23.5	5.727.101	0.17	98
C(+57.02*)YGLPNWVK	37.23	1135.5485	-33.5	5.687.625	0.4	90
GLPNWVK	27.14	812.4545	-25.6	4.072.241	0.32	18
LSC(+57.02*)FIR	28.06	794.4109	-20.9	3.982.044	0.27	12

* +57.02: Carbamidomethylation.