

Figure S1

	CDR1	CDR2	CDR3
Stx1-A9	TGGGLAQAGDSLRSLSCVEPGR--TLDMYAMGWIRQAPGEEREVFVASISGVGGSPRYADSVKGRFTISKDNTKSTIWLQMNSLKPEDTAVYYCAAG-----		GDIYGGSPQWRGQGTRTVSS
Stx2-G9	SGGGLVQPQGGSLTLSCTASGF--TLNSYKIGWFRQAPGKEREGRVSCINSGGNLR----SVEGRFTISRDNTKNTVSLHMDSLKPEDTGVYHCAAAP--		-ALNVFSPCVLAPRYDYWGQGTQVTVSS
Stx2-H6	TGGGLVQPQGGSLRLSCAASGF--SLDPYVIGWFRQAPGKEREGRVSCITSRAASRTSVDSVNERFTISRDNAKNTVDLHINNLKPEDSGVYCCAAVPPAKLPLFSLCRSLPAKYDYWGQGTQVTVSS		
Stx2-A6	SGGGLVQPQGGSLRLSCAASGF--TLADYVTVWFRQAPGKSREGVSCISSRGTPNYADSVKGRATVSRMNNANNTVYLQMNGLKPKDDTAIYYCAAIRPARLRAYRECLSSQAELYDYWGQGTQVTVSS		
Stx2-D2	SGGGLVQPQGGSLRLSCAMS GT--TQDYSAGVGWFRQAPGKEREGRVSCISRSGRRTNYADSVGRGFTISRDNAKDTVYQLQMNSLKPKDDTAIYYCAAARK--		TDMSPYVGCGNGMDYWKGKTLVTVSS
Stx2-B12	SGGGLVQPQGGSLRLSCAASGF--TLDNYRIGWFRQAPGKEREGRVSCIAARTGDIRNYGDSVKGRFTISRDNAKNTVYQLQMNSLKPKDDTAIYYCAAARK--		TSSYSCDLRASYMDYWKGKTLVTVSS
Stx-H12	TGGGLVQPQGGSLRLSCAASGF--TLEGYHIGWFRDAPGNEREGTSCISSRGDSIKYADSVGRGFTISRDNAKRTVYLEMNSLKPKDDTAIYYCAAARK--		PVFSSSPCTLATTRYNYWGQGTQVTVST
Stx-A3	SGGGLVQPQGGSLRLSCAASGV--TLDNYHIGWFRQAPGKEREGRGSCISSRGDTIKYADSVKGRFTIFRDNAKSTVYQLQMNSLKPKDDTAIYYCAAARK--		PVFSDSPCTLATTRYDNWGQGTQVTVSS
Stx-H9	TGGGLVQPQGGSLRLSCAASGF--TLDNYHIGWFRQAPGKEREGRGTCISSRGDDIKYADSVKGRFTISRDSAMSTVYQLQMNSLKPGDTADYFCAAVR--		PVFDSPCTLAFTRYNYWGQGTQVTVSS
Stx-H3	TGGGLVQPQGGSLRVSCAASGF--TLDNYHIGWFRQAPGKEREGRGSCISSRGDILKYADSVKGRFTISRDNAKRTVYQLQMNSLKPKDDTAIYYCAAVR--		PVFPDSPCTLATTRYNYWGQGSQVTVSS
Stx-F1	TGGGLVQPQGGSLRVSCAASGF--TLDNYHIGWFRQAPGKEREGRGSCISSRGDILKYADSVKGRFTISRDNAKRTVYQLQMNSLKPKDDTAIYYCAAVR--		PVFFPGSACTLATTRYNYWGQGSQVTVSS
Stx-D4	SGGELVQPQGGSLRLSCAASGF--TLDNYAIGWFRHAPGKEREGRGACIISGSDNTKADSVKGRFTISRDNAKSTVYQLQMNAMEKPKDDTAIYYCAAVR--		PVFEFSPCTLAPRYNDWGQGTQVTVSS
Stx-A4	SGGGLVQPQGGSLRLSCAASGF--TLGSYHIGWFRHPPGKEREGRGTSCLSSRGDYTKYAEAVKGRFTISRDNTKSTVYQLQMNNLKPKDDTAIYYCAAIR--		PVLSDSHCTLAAIRNYWGQGTQVTVSS
Stx-H5	TGGGLVRPGGSLRLSCAASEF--TLDNYHIGWFRQAPGKEREGRVSCISSSRSTSTKYADSVKGRFTISEDNAKETVYQLQMNSLEPKDDTAIYYCAAIR--		PVLSNSPCTLATTRYNYWGQGTQVTVSS
Stx-H10	TGGGLVQPQGGSLRLSCAGSAI--TLEYYAIGWFRQAPGKEREGRGSCISSGFNTNYADFKVGRFTISRDNAKNTVYQLQMNSLKPKDDTAIYYCAAIR--		PVFSDSPCTLATTRYDNWGQGTQVTVSS
Stx-A5	SGGGLVQPQGGSLRLSCAALEF--TLEDYAIAWFRQAPGKEREGRVSCISKSG-VTKYTD SVKGRFTVARDNAKSTVILQMNNLRPKDDTAIYYCAAIR--		PVFVDSVCTLATTRYTYWGEGTQVTVSS
Stx-G6	TGGGLVQPQGGSLRLSCAASEF--TLDDYHIGWFRQAPGKEREGRVSCINKRGDYINYKDSVKGRFTISRDGAKSTVFLQMNNLRPKDDTAIYYCAAIR--		PVFPDSRCTLATTRYTHWGQGTQVTVSS
Stx2-A4	TGGGLVQPQGGSLRLSCRASGD--TLDRYAIGWFRQAPGGERERERVSCISIRGIPV DYADSVKGRFTISRDGAKTTVWLMQMSLNLPEDTGLYSCAAAS-----		ACYREFNTWGQGTQVTVSS
Stx2-D10	TGG-LVQAGGSSLRLSCAASGV--PFSDYTM AWFRQAPGKEREGRVSCISIRGIPV DYADSVKGRFTISRDGAKTTVWLMQMSLNLPEDTGLYSCAAAS-----		LRPALASMASDYDWGQGTQVSVSS
Stx2-H3	SGGGVVQAGGSSLRLSCAASGH--TSIGYTMAFWFRQAPGKEREGRVSCISIRGIPV DYADSVKGRFTISRDRAKDTLDLQMNSLKAEDTAVYYCAAG-----		GGSFTDPTRYAYWGQGTQVTVSS
Stx1-D4	SGGGLVQAGGSSLRLSCAASGR--INGDYAMGWFRQAPGEEEREVFVAVNSWIGGSTYYTDSVKGRFTISRDNAKNTLSQLQMNSLKPKDDTAIYYCAAIR--		HYTDFPTYFKEYDYWGQGTQVTVSS
Stx2-B4	TGGGLVQAGGSSLRLSCAPS VR--SFITYAMGWFRQAPGKEREGRVSCISIRGIPV DYADSVKGRFTISRDGAENTLYLQMNSLKPKDDTAIYYCAAIR--		KRTTAWSTPPYQNYWGQGTQVTVSS
Stx2-B7	SGGGLVQAGASSLRLSCAASLTRGLTFIRYAMGWFRQAPGKERDFVGA INWITSTTYYADSVKGRFTISRDNAKNTLNLQMNNLEPKDDTAIYYCAAIR--		RIPYTTTASADYWGQGTQVTVSS
Stx2-G1	SGGGLVQPGE SSLRLSCV ASAS--TFSTSLMGWVRQAPGKGLESVAEVRTTG-GTFYAKSVAGRFTISRDNAKNTLQLQMNSLKAEDTGVYVYCTAG-----		AGPIATRYRGQGTQVTVSS
Stx2-H12	TGGGLVQAGDPLRLSCV ASGR--TVSRYDKAWFRQAPGKEREGRVSCISWNGDTK IYADSVKGRFTISRENSRDTLDLQIDNLKPEDTAIYYCAVGI-----		AGVQSMARMLGVRYWGQGTQVTVSS

Figure S1. Amino acid sequences of VHJs selected for binding to Stx1 or Stx2. Sequences shown begin within framework 1 at the site of the primer binding employed in coding sequence DNA amplification from the immune alpaca cDNA [34] and continue through the end of framework 4. The parentheses at the end indicate whether the VHH contains a long hinge (lh) or a short hinge (sh). The three complementarity determining regions (CDRs) are indicated at the top.