

**Supplementary Table 1. Characteristics of yeast display libraries used for BoNT/F mAb generation.**

<b>Library name</b>	<b>Initial immunogen</b>	<b>Boosting immunogen</b>	<b>Library size</b>
Mouse BoNT/F1H <sub>C</sub>	BoNT/F1 H <sub>C</sub>	BoNT/F1 H <sub>C</sub>	7.6x10 <sup>7</sup>
Mouse BoNT/F1	BoNT/F1 H <sub>C</sub>	BoNT/F1 toxin complex	9.0x10 <sup>7</sup>
Mouse BoNT/F3 LC-H <sub>N</sub>	BoNT/F3 LC-H <sub>N</sub>	BoNT/F3 LC-H <sub>N</sub>	1.8x10 <sup>7</sup>
Mouse BoNT/F5 LC-H <sub>N</sub>	BoNT/F5 LC-H <sub>N</sub>	BoNT/F5 LC-H <sub>N</sub>	2.0x10 <sup>7</sup>
Mouse BoNT/F6 LC-N <sub>N</sub>	BoNT/F6 LC-H <sub>N</sub>	BoNT/F6 LC-H <sub>N</sub>	1.6x10 <sup>7</sup>
Mouse BoNT/F7 H <sub>C</sub>	BoNT/F7 H <sub>C</sub>	BoNT/F7 H <sub>C</sub>	3x10 <sup>7</sup>
Mouse BoNT/F7Lc-H <sub>N</sub>	BoNT/F7 LC-H <sub>N</sub>	BoNT/F7 LC-H <sub>N</sub>	4x10 <sup>7</sup>
Human Donors 28, 29, 30 Mixture	Pentavalent BoNT Toxoid	Pentavalent BoNT Toxoid	2x10 <sup>8</sup>