

**Supplementary Table S4. Non-vector DNA packaging in vectors produced by PCL or TXN**

<i>Vectors by PCL</i>	<i>Vector titer (vg/mL)<sup>a</sup></i>		<i>% Puromycin</i>
	<i>FVIII<sup>a</sup></i>	<i>Puromycin<sup>b</sup></i>	
AAVrh8R/FVIII-5.1	$1.2 \times 10^{12}$	$5.4 \times 10^9$	0.44
AAVrh8R/FVIII-5.4	$7.6 \times 10^{12}$	$1.5 \times 10^{10}$	0.20
AAV8/FVIII-5.1	$5.1 \times 10^{12}$	$1.2 \times 10^{10}$	0.24
<i>Vectors by TXN</i>	<i>FVIII<sup>a</sup></i>	<i>Ampicillin<sup>b</sup></i>	<i>% Ampicillin</i>
AAVrh8R/FVIII-5.1	$2.3 \times 10^{13}$	$4.8 \times 10^{11}$	2.10
AAVrh8R/FVIII-5.4	$1.6 \times 10^{13}$	$5.4 \times 10^{11}$	3.40
AAVrh8R/FVIII-4.6	$1.2 \times 10^{13}$	$2.5 \times 10^{11}$	2.00

<sup>a</sup>Measured by qPCR using FVIII-A2 primer/probe set.

<sup>b</sup>Measured by qPCR for packaged puromycin (PCL) or ampicillin sequences (TXN).