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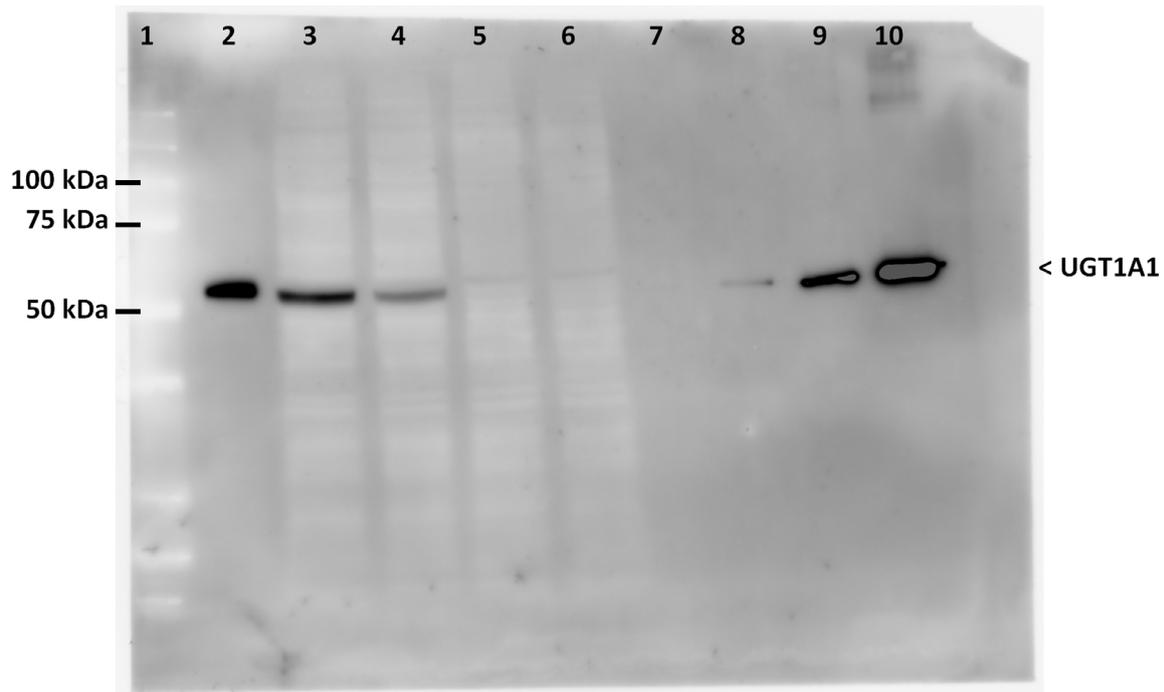
## Supplemental Information

### **A Quantitative *In Vitro* Potency Assay**

### **for Adeno-Associated Virus Vectors**

### **Encoding for the *UGT1A1* Transgene**

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**Figure S1.** Western blot using anti UGT1 clone WP1.

1. BioRad precision plus protein marker, 2. HEK293-UGT1A1 (5  $\mu$ g), 3. Huh7 AAV-UGT1A1\* [*HEK-SUSP*] (50  $\mu$ g), 4. Huh7 AAV-UGT1A1\* [*BAC*] (50  $\mu$ g), 5. Huh7 AAV-UGT1A1\* [*CO1*] (50  $\mu$ g), 6. Huh7 parental (50  $\mu$ g), 7. UGT1A1 (5 ng), 8. UGT1A1 (20 ng), 9. UGT1A1 (50 ng), 10. UGT1A1 (100 ng).

\* $4.8 \times 10^4$  vg/seeded cell, [batch name], (amount of protein loaded)

Gene	Forward 5'-3'	Reverse 5'-3'
UGT1A1 [WT]	GACGCCTCGTTGTACATCAG	CACGCTGCAGGAAAGAATC
UGT1A1 [CO1]	GCCAGGAGTTCGAGGCCTAC	GGTGTTGTTGGCCAGGTTGC
UGT1A1 [CO2]	GCCAGGAGTTTGAGGCGTAC	GGTGTTGTTTGCCAAATTGC
hAAT	TCGGTAAGTGCAGTGGAAGC	GGAGCAAACAGGGGCTAAGT
$\beta$ -actin	AGCCATGTACGTAGCCATCCA	TCTCCGGAGTCCATCACAATG

**Table S1.** Primers used for transgene detection in tissues- and mRNA expression analysis in tissues by real time PCR.