

S2 Table Plasmids used in this study

Plasmid name	Use	Source
<u>CRISPR Plasmids</u>		
pSAG1:CAS9,U6:sgUPRT	Single-cutter of UPRT	Shen et al. 2014
pSAG1:CAS9,U6:sgAAH2	Single-cutter of AAH2 in 5' UTR	This paper
pSAG1:CAS9,U6:dgAAH2	Double-cutter of AAH2 in 5' and 3' UTR	This paper
pSAG1:CAS9,U6:sgAAH1	Single-cutter of AAH1 in 5' UTR	This paper
pSAG1:CAS9,U6:dgAAH1	Double-cutter of AAH1 in 5' and 3' UTR	This paper
pSAG1:CAS9,U6:dgHXGPRT	Double-cutter of HXGPRT near 5' and 3' of gene	This paper
<u>AAH Knockouts</u>		
pΔaah2::HXG	Replacement of AAH2 with HXGPRT	Wang et al. 2014
pΔaah2	Replacement of HXGPRT with blank AAH2 5'/3'UTR fusion	Wang et al. 2014
pAAH2	Replacement of HXGPRT with AAH2 cDNA with 5'/3' UTRs	Wang et al. 2014
pΔaah1::DHFR-Ts	Replacement of AAH1 with DHFR-Ts	This paper
pΔuprt::AAH1	Intermediate plasmid to build pΔuprt::AAH1::HXG	This paper
pΔuprt::AAH1::HXG	Replacement of UPRT with AAH1 cDNA with 5'/ 3' UTRs	This paper