

**Table S1** Results from clinical examinations and phenotyping of ECA\_UCD\_AH1 and ECA\_UCD\_AH2. NSF denotes no significant findings during the clinical examinations. If a test was not performed on one of the two animals, it is represented by an NA. Asterisk denotes video available of lameness exam.

<u>Test</u>	<u>ECA_UCD_AH1</u>	<u>ECA_UCD_AH2</u>
Pedigree	Obtained	Obtained
Serum Biochemistry	NSF	Hypokalemic – Normal on recheck
Complete Blood Count	NSF	Lymphopenia – Normal on recheck
Neurologic Exam	NSF	NSF
Lameness Exam	Grade 2/5 right hind	Bilateral grade 2/5 forelimbs*
Ophthalmic Exam	NSF	NSF
CSF Cytology Report	NA	NSF
Karyotype	NSF	NSF
Coat Color	Chestnut	Bay
Markings	Blaze	None
Other Abnormalities	None	Brachygnathia
Weight	462.5 kilograms	510 kilograms
Height	15.2 hands	15.2 hands
Sample Accession	SAMEA104728862	SAMEA104728877