Table S1. Gain-of-function assays in chicken embryos

A Electroporation of wild-type Arid3b and collection of embryos at 48 hours (total electroporated embryos=37)			
Alterations in AER morphology: 92% (*n*=34/37) (a)*			No apparent phenotype: 8% (*n*=3/37)
AER with abnormal shape: 74% (*n*=25/34)		Partial absence of AER: 26% (*n*=9/34) (e)	
With branched AER: 40% (*n*=10/25) (b)	AER not branched: 60% (*n*=15/25) (d)		
One case with ectopic patch of Fgf8 expression away from endogenous AER (c)			

B Electroporation of wild-type Arid3b and collection of embryos at 72 hours (total electroporated embryos=15)			
Alterations in AER morphology: 100% (*n*=15/15) (f)			No apparent phenotype: 0% (*n*=0/15)
AER with abnormal shape: 87% (*n*=13/15)		Partial abscence of AER: 13% (*n*=2/15) (j)	
With branched AER: 77% (*n*=9/13) (f,g)	AER not branched: 23% (*n*=4/13) (i)		
One case with ectopic patch of Fgf8 expression away from endogenous AER (h)			

*Letters in parentheses refer to images below, examples of each case.