

Table S1. Additional information for immunohistochemistry.

Marker	Dilution	Company	Antigen retrieval	Blocking reagent	Secondary antibody	Revelation
Sox9	1:600	Cell signaling, 82630S	Citra plus (Biogenex HK0805K-GP)	Horse (serum Vector S-2000)	Anti-Rabbit (Envision AEC Dako K4003)	AEC (Envision AEC Dako K4003)
Wt1	1:100	Cell signaling, 83535S	Citra plus Biogenex (HK0805K-GP)	Horse serum (Vector S-2000)	Anti-Rabbit (Envision AEC Dako K4003)	AEC (Envision AEC Dako K4003)
Smooth muscle actin	1:200	Biogenex # MU128-UC	Protease	Bloxall (Vector SP-6000)	Anti-mouse (Dako K4001)	DAB (Dako K3468)
Pan-cytokeratin	1:800	Thermo Scientific MS-343-P1	EDTA buffer	Bloxall (Vector SP-6000)	Anti-mouse (Dako K4001)	DAB (Dako K3468)
PLAP	None (ready to use)	Dako #IR779 2-7°C	EDTA buffer	-	Anti-mouse (Dako K4001)	DAB (Dako K3468)
S-100	1:2000	Dako #IR50461 2-7°C	None	Horse serum (Vector S-2000)	Anti-Rabbit (Envision AEC Dako K4003)	AEC (Envision AEC Dako K4003)
Vimentin	1:500	Dako #M072501-2	Citra plus Biogenex HK0805K-GP	Bloxall Vector SP-6000	Anti-mouse (Dako K4001)	DAB (Dako K3468)

Table S2. Primers and probes designs for XX/XY sex chromosome genotyping by qPCR.

Targeted Gene	Name	Sequence	Reference
Amelogenin X-linked gene (AMELX)	AMELX_F	5'-CCAGCCACCTGTGC-3'	Szczerbal <i>et al.</i> (1)
	AMELX_R	5'-GGCTGCATGGGGAATA-3'	Szczerbal <i>et al.</i> (1)
	AMELX_Probe	5'-/56-FAM/CAGCCCTTG/ZEN/CCGC/3IABkFQ/-3'	This paper
Male-specific region of the Y chromosome (MSY)	MSY_F	5'-AGGGTGAAGCAAATGGTCGT-3'	Nix <i>et al.</i> (2)
	MSY_R	5'-GGAGCAACAGTGTCTGTGT-3'	Nix <i>et al.</i> (2)
	MSY_Probe	5'-/6-FAM/AGCAAGTGAAGAAAGGAAGGCTTAGGG/MGBNFQ/-3'	This paper