

Supplementary Materials

Table S1: Multiple-reaction monitoring transitions, declustering potentials (DP), collision energies (CE), collision cell exit potentials (CXP), quantifiers (Q), and qualifiers (q), for the 16 steroids and stable isotope internal standards.

Compounds	Q1 mass (m/z)	Q3 mass (m/z)	DP (V)	CE (eV)	CXP (V)
Aldosterone Q	359.2	189.1	-130	-24	-14
Aldosterone q	359.2	331.2	-130	-23	-22
Aldosterone-d7	366.2	338.2	-130	-24	-22
Corticosterone Q	347.3	119.1	130	40	14
Corticosterone q	347.3	121.11	130	35	14
Corticosterone-d8	355.3	125.11	130	35	14
Delta4-Androstenedione Q	287.2	97.1	130	40	14
Delta4-Androstenedione q	287.2	109.1	130	40	14
Delta4-Androstenedione-d7	294.2	113.1	130	40	14
11-Deoxycorticosterone Q	331.3	109.1	130	33	14
11-Deoxycorticosterone q	331.3	97.1	130	33	14
11-Deoxycorticosterone-d8	339.3	113.1	130	33	14
Testosterone Q	289.2	109.1	130	31	14
Testosterone q	289.2	97.1	130	31	14
Testosterone-d5	294.3	113.1	130	33	14
Progesterone Q	315.3	109.1	130	35	14
Progesterone q	315.3	97.1	130	35	14
Progesterone D9	324.3	100.1	130	35	14

Table S2: Primers used for real time quantitative RT-PCR of specific mRNAs.

Gene	Forward primer	Reverse primer
DYRK1A	tcagtcttcaggcaccacct	tgttactcgttcccgaggat
Plzf	gacgcactacaggggtcacac	gcttgatcatggccgagtag
Gfra1	ctcgagaaaagacacacacacc	gcctgaccatgtaaagcagtc
Sycp3	ggacagcgacagctcacc	aagggtggcttcccagatttc
Kit-L	cagcgctgccttccttat	ccttggttttgacaagaggatt
Protamine	gacagcccacaaaattccac	ctcagagcaggggacacc
P450scc	ggcgtgtagtgtcttagtgtcg	gggggtccacgatgtaaactg
StAR	aaactcacttggtgctcagta	tgcgataggacctgggtgat
P450c17	catcccacacaaggctaaca	cagtgccagagattgatgat
3 β HSD	gaccagaaaccaaggaggaa	gcactgggcatccagaat
TAC3	ctccttccttcagtctctctc	ccttttcccctcaaagctc
rpL19	gggcaggcatatgggcata	ggcgggtcaatcttcttgatt
TBP	ggggagctgtgatgtgaagt	ccaggaaataattctggctca

Figure S1 : Slot-blot of Dyrk1a WT and Tg mice in testis: a : Ponceau highlighting similar total protein levels; b: Dyrk1a slot-blot.



Figure S2 : Plzf western blot in WT and Tg mice performed to assess the specificity of specific antibody. Specific anti-Plzf is found between 46 and 58 kDa.

