Table S1. CHH-related genes (21 genes).

Gene	Phenotype	Inheritance	Location	OMIM
ANOS1	Kallmann syndrome	XL	Xp22.31	300836
AXL	Kallmann syndrome or normosmic CHH	AD?	19q13.2	109135
CHD7	Kallmann syndrome or normosmic CHH; CHARGE syndrome	AD	8q12.2	608892
FGF8	Kallmann syndrome or normosmic CHH	AD	10q24.32	600483
FGFR1	Kallmann syndrome or normosmic CHH	AD	8p11.23	136350
GNRH1	Normosmic CHH	AR	8p21.2	152760
GNRHR	Normosmic CHH	AR	4q13.2	138850
HS6ST1	Kallmann syndrome or normosmic CHH	AD	2q14.3	614880
KISS1	Normosmic CHH	AR	1q32.1	614842
KISS1R	Normosmic CHH	AR	19p13.3	604161
LEP	Normosmic CHH	AR	7q32.1	614962
LEPR	Normosmic CHH	AR	1p31.3	601007
NSMF	Kallmann syndrome or normosmic CHH	AD	9q34.3	614838
PCSK1	Normosmic CHH	AR	5q15	162150
PROK2	Kallmann syndrome or normosmic CHH	AR/AD?	3p13	607002
PROKR2	Kallmann syndrome or normosmic CHH	AR/AD?	20p12.3	607123
SEMA3A	Kallmann syndrome	AD	7q21.11	603961
SOX10	Kallmann syndrome; Waardenbourg syndrome	AD	22q13.1	602229
TAC3	Normosmic CHH	AR	12q13.3	162330
TACR3	Normosmic CHH	AR	4q24	162332
WDR11	Kallmann syndrome or normosmic CHH	AD	10q26.12	606417

Abbreviations: XL, X-linked; AD, autosomal dominant; CHH, congenital hypogonadotropic hypogonadism; AR; autosomal recessive