

**S2 Table.** Characteristics of the 14 genes analyzed in this study, along with the number of sequence variants detected by genotyping. Biological process: GO:0048608—reproductive structure development, GO:0009755—hormone-mediated signaling pathway, GO:0022602—ovulation cycle process. Molecular function: GO:0005102—signaling receptor binding, GO:0030545—signaling receptor regulator activity.

Gene symbol <sup>a)</sup>	Gene name <sup>b)</sup>	GO term	Chromosomal location <sup>a)</sup>	Reference sequence and location <sup>b)</sup>	Variants detected <sup>c)</sup>
<i>AMH</i>	anti-Mullerian hormone	GO:0048608, GO:0022602, GO:0005102, GO:0030545	19p13.3	NC_000019.10 (2249323..2252073)	26
<i>AMHR2</i>	anti-Mullerian hormone receptor type 2	GO:0048608	12q13.13	NC_000012.12 (53423855..53431672)	17
<i>AR</i>	androgen receptor	GO:0048608, GO:0009755, GO:0005102	Xq12	NC_000023.11 (67544021..67730619)	53
<i>BMP15</i>	bone morphogenetic protein 15	GO:0048608, GO:0005102, GO:0030545	Xp11.22	NC_000023.11 (50910735..50916641)	15
<i>ESR1</i>	estrogen receptor 1	GO:0048608, GO:0009755, GO:0022602	6q25.1-q25.2	NC_000006.12 (151656672..152129619)	80
<i>ESR2</i>	estrogen receptor 2	GO:0009755, GO:0005102, GO:0030545	14q23.2-q23.3	NC_000014.9 (64226707..64338613, complement)	75
<i>FSHB</i>	follicle-stimulating hormone subunit beta	GO:0048608, GO:0022602, GO:0005102, GO:0030545	11p14.1	NC_000011.10 (30231014..30235194)	19
<i>FSHR</i>	follicle-stimulating hormone receptor	GO:0048608, GO:0009755, GO:0022602	2p16.3	NC_000002.12 (48962157..49154515, complement)	34
<i>GDF9</i>	growth differentiation factor 9	GO:0005102, GO:0030545	5q31.1	NC_000005.10 (132861185..132866651, complement)	33
<i>LHB</i>	luteinizing hormone subunit beta	GO:0048608, GO:0009755, GO:0005102, GO:0030545	19q13.33	NC_000019.10 (49015980..49019498, complement)	22
<i>LHCGR</i>	luteinizing hormone/choriogonadotropin receptor	GO:0048608, GO:0009755, GO:0022602	2p16.3	NC_000002.12 (48686774..48755724, complement)	44
<i>PRL</i>	prolactin	GO:0005102, GO:0030545	6p22.3	NC_000006.12 (22287246..22302835, complement)	14

<i>PRLR</i>	prolactin receptor	GO:0048608, GO:0009755, GO:0005102	5p13.2	NC_000005.10 (35048756..35230487, complement)	103
<i>SOX3</i>	SRY-box transcription factor 3		Xq27.1	NC_000023.11 (140502985..140505069, complement)	9

<sup>a)</sup> according to the HUGO Gene Nomenclature Committee (HGNC) database ([www.genenames.org](http://www.genenames.org), accessed: 2022-04-05).

<sup>b)</sup> according to the National Center for Biotechnology Information (NCBI) Gene database; based on GRCh38 human genome assembly (<https://www.ncbi.nlm.nih.gov/gene/>, accessed: 2022-04-05).

<sup>c)</sup> details of identified sequence variants are presented in S3 Table.