

**Supplementary Table S8:** LncRNAs with a potential role in male infertility according to papers investigating genetic variants and study characteristics

<b>LncRNAs</b>	<b>Reference</b>	<b>Methodology</b>	<b>Samples</b>	<b>Tissue</b>
<i>LOC100507205</i>	Eggers <i>et al.</i> , (2015) [32]	Microarray technology, MLPA Analysis	19 men with histologically confirmed meiotic arrest, healthy individuals (information from database)	Peripheral leucocytes (Blood)
<i>LINC02231</i>	Kyrgiagini <i>et al.</i> , (2020) [42]	SNP screening array (genotyping), Bioinformatics	83 non-normozoospermic (oligozoospermic, asthenozoospermic, teratozoospermic or combinations), 76 normozoospermic individuals	Semen
<i>LINC00347</i>	Kyrgiagini <i>et al.</i> , (2020) [42]	SNP screening array (genotyping), Bioinformatics	83 non-normozoospermic (oligozoospermic, asthenozoospermic, teratozoospermic or combinations), 76 normozoospermic individuals	Semen
<i>LINC02134</i>	Kyrgiagini <i>et al.</i> , (2020) [42]	SNP screening array (genotyping), Bioinformatics	83 non-normozoospermic (oligozoospermic, asthenozoospermic, teratozoospermic or combinations), 76 normozoospermic individuals	Semen
<i>NCRNA00157/C HODL-AS1</i>	Kyrgiagini <i>et al.</i> , (2020) [42]	SNP screening array (genotyping), Bioinformatics	83 non-normozoospermic (oligozoospermic, asthenozoospermic, teratozoospermic or combinations), 76 normozoospermic individuals	Semen
<i>LINC02493</i>	Kyrgiagini <i>et al.</i> , (2020) [42]	SNP screening array (genotyping), Bioinformatics	83 non-normozoospermic (oligozoospermic, asthenozoospermic, teratozoospermic or combinations), 76 normozoospermic individuals	Semen

<i>Lnc-CASK-1</i>	Kyrgiafini <i>et al.</i> , (2020) [42]	SNP screening array (genotyping), Bioinformatics	83 non-normozoospermic (oligozoospermic, asthenozoospermic, teratozoospermic or combinations), 76 normozoospermic individuals	Semen
<i>LINC01641</i>	Cerván-Martín <i>et al.</i> , (2021) [44]	Genotyping (TaqMan allelic discrimination technology), Bioinformatics analysis	674 infertile men with azoospermia or severe oligospermia (480 NOA and 194 SO men), 700 men representative of the general population (with self-reported fatherhood) and 358 men with proven normal sperm concentration	Peripheral blood
<i>RP11-38C6.2</i>	Cerván-Martín <i>et al.</i> , (2021) [44]	Genotyping (TaqMan allelic discrimination technology), Bioinformatics analysis	674 infertile men with azoospermia or severe oligospermia (480 NOA and 194 SO men), 700 men representative of the general population (with self-reported fatherhood) and 358 men with proven normal sperm concentration	Peripheral blood