

Supplementary Table S2. lncRNAs with a potential role in azoospermia according to publications studying the expression profiles of lncRNAs and study characteristics

LncRNAs	Reference	Methodology	Samples	Tissue	Change of expression
<i>NLC1-C</i> (<i>LINC00162</i>)	Lü <i>et al.</i> , (2015) [26]	Microarray and qPCR	3 patients with MA, 2 with Hypo, 3 controls	Testis	Downregulated in NOA patients (MA, Hypo)
<i>HOTTIP</i>	Lü <i>et al.</i> , (2015) [26]	Microarray and qPCR	3 patients with MA, 2 with Hypo, 3 controls	Testis	Downregulated in NOA patients (MA, Hypo)
	Su <i>et al.</i> , (2019) [39]	qPCR	16 patients with Hypo, 16 control subjects	Testis	Downregulated in Hypo patients
<i>FAM230B</i>	Sabetian <i>et al.</i> , (2022) [33]	Microarray technology	27 NOA, 4 healthy individuals	Testis	Downregulated in patients
<i>FER1L6-AS2</i>	Sabetian <i>et al.</i> , (2022) [33]	Microarray technology	27 NOA, 4 healthy individuals	Testis	Downregulated in patients
<i>FAM27C</i>	Sabetian <i>et al.</i> , (2022) [33]	Microarray technology	27 NOA, 4 healthy individuals	Testis	Downregulated in patients
<i>LINC00238</i>	Sabetian <i>et al.</i> , (2022) [33]	Microarray technology	27 NOA, 4 healthy individuals	Testis	Downregulated in patients
<i>LINC00301</i>	Sabetian <i>et al.</i> , (2022) [33]	Microarray technology	27 NOA, 4 healthy individuals	Testis	Downregulated in patients
	Xie <i>et al.</i> , (2020) [27]	RNA sequencing and qPCR	RNA seq: 6 normozoospermic, 5 NOA patients (Sertoli cell-only syndrome); Validation: 96 NOA patients	Seminal plasma (extracellular vesicles)	Downregulated in patients
<i>LINC00643</i>	Sabetian <i>et al.</i> , (2022) [33]	Microarray technology	27 NOA, 4 healthy individuals	Testis	Downregulated in patients
<i>LINC00654</i>	Sabetian <i>et al.</i> , (2022) [33]	Microarray technology	27 NOA, 4 healthy individuals	Testis	Downregulated in patients
<i>LINC00661</i>	Sabetian <i>et al.</i> ,	Microarray technology	27 NOA, 4 healthy individuals	Testis	Downregulated in patients

	(2022) [33]				
<i>LINC00905</i>	Sabetian <i>et al.</i> , (2022) [33]	Microarray technology	27 NOA, 4 healthy individuals	Testis	Downregulat ed in patients
<i>MORC2-AS1</i>	Sabetian <i>et al.</i> , (2022) [33]	Microarray technology	27 NOA, 4 healthy individuals	Testis	Downregulat ed in patients
<i>LOC100505685</i>	Xie <i>et al.</i> , (2020) [27]	RNA sequencing and qPCR	RNA seq: 6 normozoosperm ic, 5 NOA patients (Sertoli cell-only syndrome); Validation: 96 NOA patients	Seminal plasma (Extracellul ar vesicles)	Upregulated in patients
<i>SPATA42</i>	Xie <i>et al.</i> , (2020) [27]	RNA sequencing and qPCR	RNA seq: 6 normozoosperm ic, 5 NOA patients (Sertoli cell-only syndrome); Validation: 96 NOA patients	Seminal plasma (Extracellul ar vesicles)	Downregulat ed in patients
	Bo <i>et al.</i> , (2020) [29]	Microarray datasets and qPCR	3 sets: 30 NOA, 8 Normal (training); 31 NOA, 8 Normal (validation); 27 NOA, 4 Normal (validation)	Testis	Downregulat ed in patients
<i>CCDC37-DT</i>	Xie <i>et al.</i> , (2020) [27]	RNA sequencing and qPCR	RNA seq: 6 normozoosperm ic, 5 NOA patients (Sertoli cell-only syndrome); Validation: 96 NOA patients	Seminal plasma (Extracellul ar vesicles)	Downregulat ed in patients
<i>GABRG3-AS1</i>	Xie <i>et al.</i> , (2020) [27]	RNA sequencing and qPCR	RNA seq: 6 normozoosperm ic, 5 NOA patients (Sertoli cell-only syndrome); Validation: 96 NOA patients	Seminal plasma (Extracellul ar vesicles)	Downregulat ed in patients
<i>LOC440934</i>	Xie <i>et al.</i> , (2020) [27]	RNA sequencing and qPCR	RNA seq: 6 normozoosperm ic, 5 NOA patients (Sertoli cell-only syndrome);	Seminal plasma (Extracellul ar vesicles)	Downregulat ed in patients

			Validation: 96 NOA patients		
<i>LOC101929088</i> (<i>XR_927561.2</i>)	Xie <i>et al.</i> , (2020) [27]	RNA sequencing and qPCR	RNA seq: 6 normozoospermic, 5 NOA patients (Sertoli cell-only syndrome); Validation: 96 NOA patients	Seminal plasma (Extracellular vesicles)	Upregulated in patients
<i>LOC101929088</i> (<i>XR_001745218.1</i>)	Xie <i>et al.</i> , (2020) [27]	RNA sequencing and qPCR	RNA seq: 6 normozoospermic, 5 NOA patients (Sertoli cell-only syndrome); Validation: 96 NOA patients	Seminal plasma (Extracellular vesicles)	Upregulated in patients
<i>LINC00343</i>	Xie <i>et al.</i> , (2020) [27]	RNA sequencing and qPCR	RNA seq: 6 normozoospermic, 5 NOA patients (Sertoli cell-only syndrome); Validation: 96 NOA patients	Seminal plasma (Extracellular vesicles)	Downregulated in patients
<i>LINC00467</i>	Bo <i>et al.</i> , (2020) [29]	Microarray datasets and qPCR	3 sets: 30 NOA, 8 Normal (training); 31 NOA, 8 Normal (validation); 27 NOA, 4 Normal (validation)	Testis	Downregulated in patients
<i>LINC00884</i>	Bo <i>et al.</i> , (2020) [29]	Microarray datasets and qPCR	3 sets: 30 NOA, 8 Normal (training); 31 NOA, 8 Normal (validation); 27 NOA, 4 Normal (validation)	Testis	Upregulated in patients
<i>LEMD1-AS1</i>	Bo <i>et al.</i> , (2020) [29]	Microarray datasets and qPCR	3 sets: 30 NOA, 8 Normal (training); 31 NOA, 8 Normal (validation); 27 NOA, 4 Normal (validation)	Testis	Upregulated in patients
<i>ZFAS1</i>	Bo <i>et al.</i> , (2020) [29]	Microarray datasets and qPCR	3 sets: 30 NOA, 8 Normal (training); 31 NOA, 8 Normal (validation); 27 NOA, 4 Normal (validation)	Testis	Upregulated in patients

<i>CSNK1G2-AS1</i>	Bo <i>et al.</i> , (2020) [29]	Microarray datasets and qPCR	3 sets: 30 NOA, 8 Normal (training); 31 NOA, 8 Normal (validation); 27 NOA, 4 Normal (validation)	Testis	Downregulat ed in patients
<i>ZNF295-AS1</i>	Bo <i>et al.</i> , (2020) [29]	Microarray datasets and qPCR	3 sets: Sertoli cell-only, 8 normal (training); Sertoli cell-only, 8 Normal (validation), Sertoli cell-only, 4 Normal (validation)	Testis	Downregulat ed in patients
<i>DSCR8</i>	Bo <i>et al.</i> , (2020) [29]	Microarray datasets and qPCR	3 sets: Sertoli cell-only, 8 normal (training); Sertoli cell-only, 8 Normal (validation), Sertoli cell-only, 4 Normal (validation)	Testis	Downregulat ed in patients
<i>LINC00173</i>	Bo <i>et al.</i> , (2020) [29]	Microarray datasets and qPCR	3 sets: Sertoli cell-only, 8 normal (training); Sertoli cell-only, 8 Normal (validation), Sertoli cell-only, 4 Normal (validation)	Testis	Upregulated in patients
<i>RUSC1-AS1</i>	Bo <i>et al.</i> , (2020) [29]	Microarray datasets and qPCR	3 sets: Sertoli cell-only, 8 normal (training); Sertoli cell-only, 8 Normal (validation), Sertoli cell-only, 4 Normal (validation)	Testis	Upregulated in patients