Table S1a. For each lncRNA included in the publication by Gusic & Prokisch (2020), the gene name provided by Ensembl was recorded, along with the Ensembl ID, which was used to identify variants mapped in these lncRNA genes in the annotation file derived from comparisons between normozoospermic and non-normozoospermic individuals.

lncRNA name	Gene name (Ensembl)	Ensembl ID
ANRIL	*CDKN2B-AS1*	ENSG00000240498
FAL1	*LINC00568*	ENSG00000228126
GAS5	*GAS5*	ENSG00000234741
HOTAIR	*HOTAIR*	ENSG00000228630
H19	*H19*	ENSG00000130600
HOTTIP	*HOTTIP*	ENSG00000243766
MEG3	*MEG3*	ENSG00000214548
Pvt1	*PVT1*	ENSG00000249859
Tug1	*TUG1*	ENSG00000253352
UCA1	*UCA1*	ENSG00000214049
MALAT1	*MALAT1*	ENSG00000251562
ZFAS1	*ZFAS1*	ENSG00000177410
RMRP	*RMRP*	ENSG00000269900

Table S1b. For each miRNA included in the publication by Gusic & Prokisch (2020), the gene name provided by Ensembl was recorded, along with the Ensembl ID, which was used to identify variants mapped in these miRNA genes in the annotation file derived from comparisons between normozoospermic and non-normozoospermic individuals.

miRNA name	Gene name (Ensembl)	Ensembl ID
miR-148a	*MIR148A*	ENSG00000199085
miR-148b	*MIR148B*	ENSG00000199122
miR-299-5p	*MIR299*	ENSG00000207749
miR-122a	*MIR122*	ENSG00000207778
miR-421	*MIR421*	ENSG00000202566
miR-494	*MIR494*	ENSG00000194717
miR-183	*MIR183*	ENSG00000207691
miRNA-26a	*MIR26A1*	ENSG00000199075
miR-210-5p	*MIR210*	ENSG00000199038
miR-147b	*MIR147B*	ENSG00000211519
miR-101 -3p	*MIR101-1*	ENSG00000199135
miR-127-5p	*MIR127*	ENSG00000207608
miR-338-5p	*MIR338*	ENSG00000211563
miR-181c	*MIR181C*	ENSG00000207613
miR- 34a	*MIR34A*	ENSG00000207865
miR-663	*MIR633*	ENSG00000207552
miR-204-5p	*MIR204*	ENSG00000207935
miR-224-5p	*MIR224*	ENSG00000207621
miR-212	*MIR212*	ENSG00000267195

miR-132	*MIR132*	ENSG00000267200
miR-370	*MIR370*	ENSG00000199005
miR-33b	*MIR33B*	ENSG00000207839
miR-378 / miR-378	*MIR378A*	ENSG00000199047
miR-33a	*MIR33A*	ENSG00000207932
miR-107	*MIR107*	ENSG00000198997
miR-103	*MIR103A1*	ENSG00000199035
miR-29a-3p	*MIR29A*	ENSG00000226380
miR-199a-5b	*MIR199A1*	ENSG00000207752
miR-29b	*MIR29B1*	ENSG00000265410
miR-23a-3p	*MIR23A*	ENSG00000207980
miR-23b-3p	*MIR23B*	ENSG00000207563
miR-193b	*MIR193B*	ENSG00000207639
miR-502	*MIR502*	ENSG00000272080
miR-940	*MIR940*	ENSG00000260778
miR-149	*MIR149*	ENSG00000207611
miR-125	*MIR125A*	ENSG00000208008
miR-22	*MIR22HG*	ENSG00000186594
miR-15b	*MIR15B*	ENSG00000207779
miR-16	*MIR16-1*	ENSG00000208006
miR-25	*MIR25*	ENSG00000207547
miR-155	*MIR155HG*	ENSG00000234883
miR-184	*MIR184*	ENSG00000207695
miR-141	*MIR141*	ENSG00000207708
miR-30a-5p	*MIR30A*	ENSG00000207827
miR-483-5p	*MIR483*	ENSG00000207805
miR-484	*MIR484*	ENSG00000272213
miR-499	*MIR499A*	ENSG00000207635
miR-9/9*	*MIR9-1*	ENSG00000207933
miR-27	*MIR27A*	ENSG00000207808
miR-761	*MIR761*	ENSG00000212076
miR-593	*MIR593*	ENSG00000207588
miR-200a-3p	*MIR200A*	ENSG00000207607
miR-140	*MIR140*	ENSG00000208017
miR-382-5p	*MIR382*	ENSG00000207742
miR-214	*MIR214*	ENSG00000207949
miR-106a	*MIR106A*	ENSG00000207602
miR-30a	*MIR30A*	ENSG00000207827
miR-30b	*MIR30B*	ENSG00000207582
miR-30c-1	*MIR30C1*	ENSG00000207962
miR-30c-2	*MIR30C2*	ENSG00000199094
miR-30d	*MIR30D*	ENSG00000199153
miR-30e	*MIR30E*	ENSG00000198974
miR-590-3p	*MIR590*	ENSG00000207741
miR-26	*MIR26A1*	ENSG00000199075
miR-133a	*MIR133A2*	ENSG00000207764

miR-7	*MIR7-3HG*	ENSG00000176840
miR-146a	*MIR146A*	ENSG00000253522
miR-181a	*MIR181A1*	ENSG00000207759
miR-24-2	*MIR24-2*	ENSG00000267519
miR-365-2	*MIR365B*	ENSG00000199187
miR-497	*MIR497HG*	ENSG00000267532
miR-146	*MIR146A*	ENSG00000253522
miR-17-92	*MIR17HG*	ENSG00000215417
miR-92a	*MIR92A2*	ENSG00000208034
miR-145	*MIR145*	ENSG00000269936
miR-137	*MIR137HG*	ENSG00000225206
miR-504	*MIR504*	ENSG00000207800
miR-125b	*MIR125B1*	ENSG00000207971
miR-21	*MIR21*	ENSG00000199004
miR-128	*MIR128-2*	ENSG00000207625
miR-335	*MIR335*	ENSG00000199043
miR-17	*MIR17HG*	ENSG00000215417