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Additional File 1: Fig. S1| Comparison of one-step and double-enzyme digestion methods for mouse testis dissociation.



Additional File 1: Fig. S2| Isolation and characterization of extracellular vesicles in mouse testes and testicular cell lines



Additional file 1: Fig. S3| Time and dose-dependent uptake of testicular extracellular vesicles by testicular cell lines.





Additional file 1: Fig. S5| Uptake of testicular EVs in testicular cells of interstitial and seminiferous tubules compartments.

Gene name	Accession	Protein Name	Phenotype information
Slc2a3	P32037	Solute carrier family 2, facilitated glucose transporter member 3	Decrease litter size
Vdac3	Q60931	Voltage-dependent anion-selective channel protein 3	Male infertility
Gpx4	F7A8H6	Glutathione peroxidase	Male infertility
Slc25a3	Q8VEM8	Phosphate carrier protein mitochondrial	Testis atrophy
Ace	P09470	Angiotensin-converting enzyme	Reduced male fertility
Sypl1	009117	Synaptophysin-like protein 1	Male infertility
Gapdh	A0A0R4J0X7	Glyceraldehyde-3-phosphate dehydrogenase	Male infertility
Atp2a2	055143	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	Decrease little size
Aqp7	054794	Aquaporin-7	Abnormal sperm
Bsg	P18572	Basigin	Male infertility
Snrpe	P62305	Small nuclear ribonucleoprotein E	Testis atrophy



Additional file 1: Fig. S7| Characterization of the small RNA cargoes of testicular EVs.