

Description of Additional Supplementary Files

File name: Supplementary Data 1.

Description: List of PhyloCSF scores and RNA expression levels for testis-specific lncRNAs.

File name: Supplementary Data 2.

Description: List of identified peptides derived from endogenous Kastor and Polluks in testis of *Kastor*^{FLAG/+} or *Polluks*^{FLAG/+} mice.

File name: Supplementary Data 3.

Description: iBAQ values for Kastor or Polluks binding proteins identified in testis of *Kastor*^{FLAG/+} or *Polluks*^{FLAG/+} mice.

File name: Supplementary Data 4.

Description: iBAQ values for Kastor or Polluks binding proteins identified in HEK293T cells transiently expressing Kastor-(C)FLAG or Polluks-(C)FLAG.

File name: Supplementary Data 5.

Description: Oligonucleotides and antibodies used in the present study.

File name: Supplementary Movie 1.

Description: Movement of spermatozoa collected from the cauda epididymis of WT mice as captured by a high-speed camera.

File name: Supplementary Movie 2.

Description: Movement of spermatozoa collected from the cauda epididymis of Kastor KO mice as captured by a high-speed camera.

File name: Supplementary Movie 3.

Description: Movement of spermatozoa collected from the cauda epididymis of Polluks KO mice as captured by a high-speed camera.

File name: Supplementary Movie 4.

Description: Movement of spermatozoa collected from the cauda epididymis of Kastor/Polluks dKO mice as captured by a high-speed camera.

File name: Supplementary Movie 5.

Description: Movement of spermatozoa collected from the cauda epididymis of VDAC3 KO mice as captured by a high-speed camera.