

SUPPLEMENTAL MATERIAL

The E2 ubiquitin conjugating enzyme UBE2J1 is required for spermiogenesis in mice

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*Running title: *Male Ube2j1^{-/-} mice are sterile*

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SUPPLEMENTAL MOVIES

MOVIE S1

Motility of epididymal sperm preparation from a *Ube2j1^{+/+}* (wild-type) mouse.

MOVIE S2

Motility of epididymal sperm preparation from a *Ube2j1^{-/-}* mouse.

MOVIE S3

Hyaluronidase-treated oocytes incubated with epididymal sperm preparation from a *Ube2j1^{+/+}* (wild type) mouse.

MOVIE S4

Hyaluronidase-treated oocytes incubated with epididymal sperm preparation from a *Ube2j1^{-/-}* mouse.