Table S1. Transcripts in oogenic mRNA program (Figure 1E). Curated list of mRNAs found in the maternal transcriptome (Baugh et al. 2003), found in the oocyte transcriptome (Stoeckius et al. 2014) and enriched in the oogenic gonad (Ortiz et al. 2014).

Table S2. Transcripts in spermatogenic mRNA program (Figure 1E). List of mRNAs in program described in Figure 1E. Curated set of mRNAs found in the sperm transcriptome (Ma et al. 2014) and enriched in the spermatogenic gonad (Ortiz et al. 2014).

Table S3. FOG-1–associated mRNAs identified by RIP-ChIP. Table of 81 FOG-1–associated mRNAs annotated with the overlaps with the following datasets: Sp-gonad (enriched in the spermatogenic gonad); Oo-gonad (enriched in the oogenic gonad); GN-gonad (gender neutral in the gonad); Maternal (maternal transcriptome); Oocyte (oocyte transcriptome); Sperm (sperm transcriptome); RNP-8 (RNP-8–associated mRNAs); EFL/DPL (EFL-1/DPL-1 target genes); FBF-1 (FBF-1–associated mRNAs); GLD-1 (GLD-1–associated mRNAs); Common (common FOG-1– and FOG-3–associated mRNAs); spermatogenic mRNA program; oogenic mRNA program.

Table S4. FOG-3–associated mRNAs identified by RIP-ChIP. Table of 722 FOG-3–associated mRNAs annotated with the overlaps with the following datasets: Sp-gonad (enriched in the spermatogenic gonad); Oo-gonad (enriched in the oogenic gonad); GN-gonad (gender neutral in the gonad); Maternal (maternal transcriptome); Oocyte (oocyte transcriptome); Sperm (sperm transcriptome); RNP-8 (RNP-8–associated mRNAs); EFL/DPL (EFL-1/DPL-1 target genes); FBF-1 (FBF-1–associated mRNAs); GLD-1
(GLD-1–associated mRNAs); Common (common FOG-1– and FOG-3–associated mRNAs); spermatogenic mRNA program; oogenic mRNA program.

**Table S5.** Common FOG-1– and FOG-3–associated mRNAs identified by RIP-ChIP.

Table of 76 common mRNAs annotated for overlaps with the following datasets: Sp-gonad (enriched in the spermatogenic gonad); Oo-gonad (enriched in the oogenic gonad); GN-gonad (gender neutral in the gonad); Maternal (maternal transcriptome); Oocyte (oocyte transcriptome); Sperm (sperm transcriptome); RNP-8 (RNP-8–associated mRNAs); EFL/DPL (EFL-1/DPL-1 target genes); FBF-1 (FBF-1–associated mRNAs); GLD-1 (GLD-1–associated mRNAs); spermatogenic program; oogenic program.


