**Description of Additional Supplementary Files**

File name: Supplementary Data 1  
Description: RNA sequencing of vIPR samples - kallisto counts and re-normalized TPMs summed up per gene.

File name: Supplementary Data 2  
Description: MaxQuant raw data and analysis for vIPR pilot experiment, testing RNA pulldown of *gld-1::gfp* after crosslinking with PFA-XL, PAR-XL or cXL. Reported are peptide numbers and peptide raw intensities for detected proteins in input, supernatant, and pulldown samples (MS\_raw). Additionally, proteins enriched against the control in cXL vIPR are listed (enriched\_cXL).

File name: Supplementary Data 3  
Description: MaxQuant raw data and analysis for cXL vIPR of transgenic and endogenous transcripts. Reported are peptide numbers and LFQ intensities (before and after log2-transformation and imputation) for reproducibly detected proteins in pulldown samples. Results from the moderated *t*-test performed on triplicate vIPR experiments are also given.

File name: Supplementary Data 4  
Description: GO term analysis for vIPR-identified candidate binders of the *gld-1::gfp* transcript.

File name: Supplementary Data 5  
Description: Nanostring nCounter analysis of RNA levels in N2 and *gld-1* 3’ UTR reporter worms after mock and *daz-1* RNAi treatment. Raw counts were normalized to the internal positive controls and to two reference genes (*tbb-1*, *tbb-2*), using the nSolver 4.0 software.

File name: Supplementary Data 6  
Description: mirDeep2 miRNA counts from small RNA sequencing of vIPR samples.