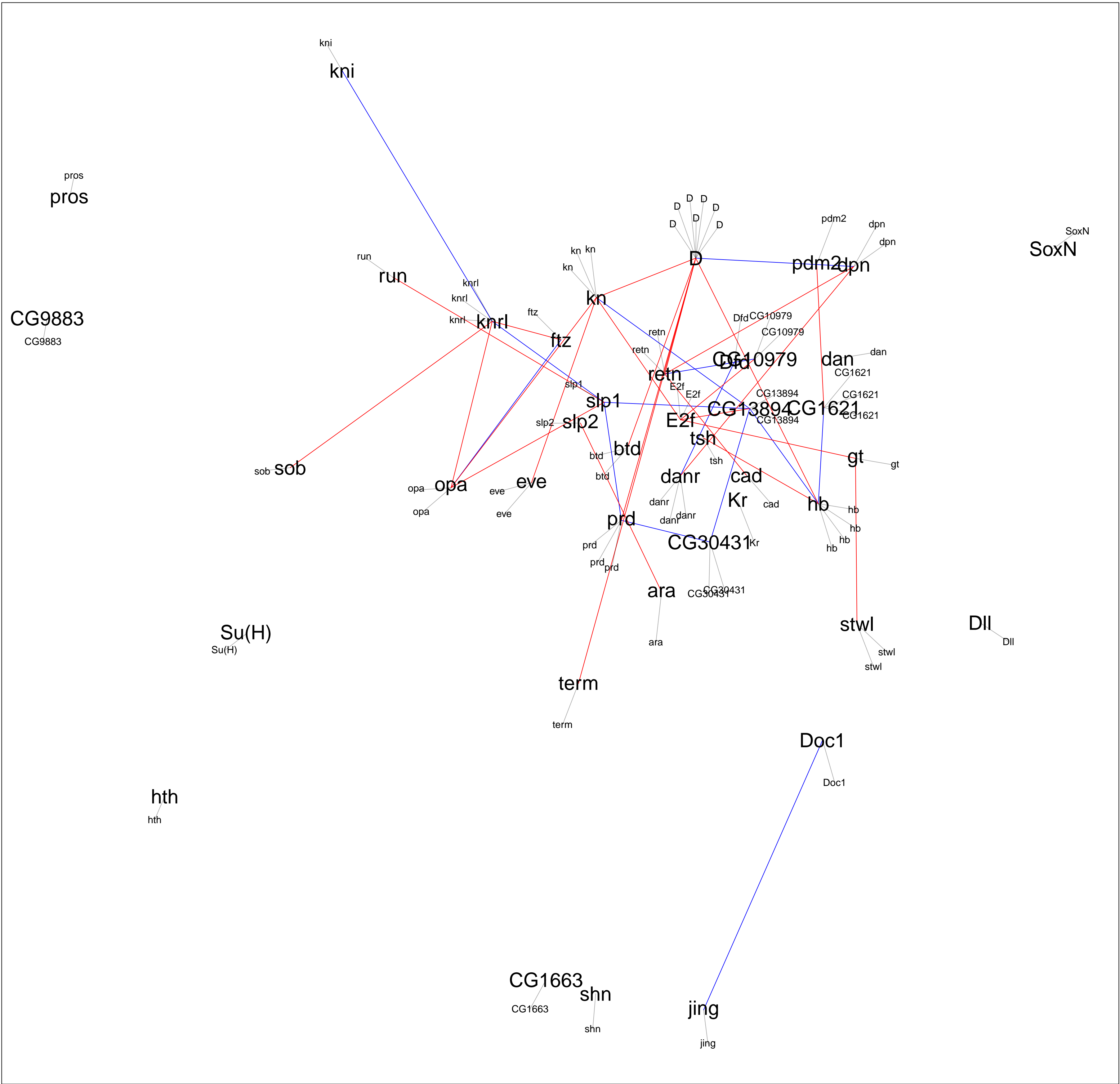


The diagram illustrates a gene regulatory network with the following components and interactions:

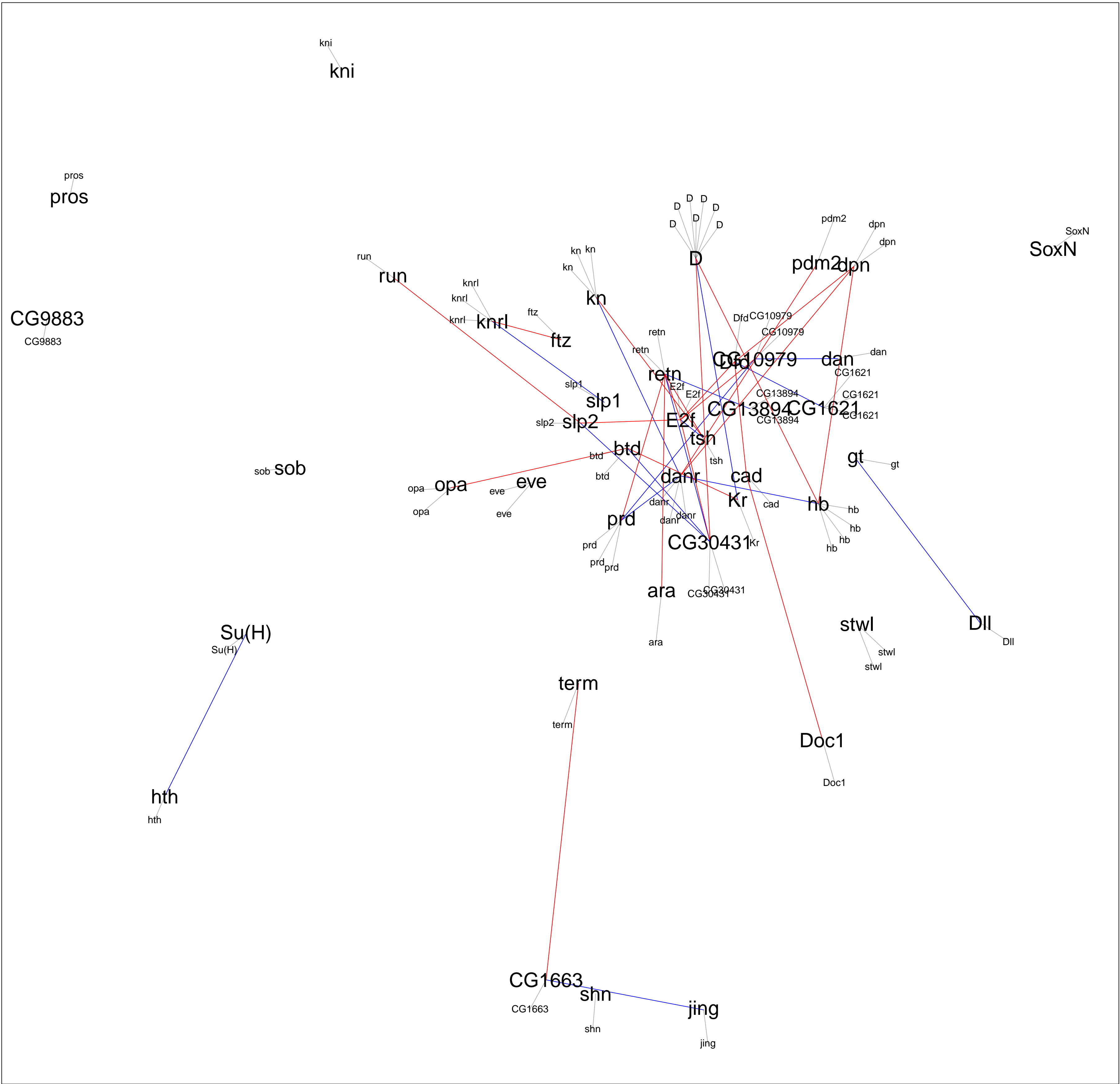
- Central Cluster:** A dense network of genes including *kn*, *knrl*, *ftz*, *slp1*, *slp2*, *btd*, *eve*, *opa*, *prd*, *ara*, *danr*, *tsh*, *cad*, *hb*, *stwl*, *Doc1*, *retn*, *D*, *pdm2*, *dpn*, *dan*, *gt*, *Kr*, *CG10979*, *CG13894*, *CG1621*, *CG30431*, *E2f*, *E2f*, *slp1*, *slp2*, *btd*, *eve*, *opa*, *prd*, *ara*, *danr*, *tsh*, *cad*, *hb*, *stwl*, *Doc1*, *retn*, *D*, *pdm2*, *dpn*, *dan*, *gt*, *Kr*, *CG10979*, *CG13894*, *CG1621*, *CG30431*, *E2f*.
- Peripheral Genes:**
  - pros* (top left)
  - run* (top left)
  - kni* (top left)
  - SoxN* (top right)
  - DII* (middle right)
  - hth* (bottom left)
  - Su(H)* (bottom left)
  - CG9883* (bottom left)
  - CG1663* (bottom center)
  - shn* (bottom center)
  - jing* (bottom center)
- Interactions:**
  - Blue lines (Activation):** Connect *pros* to *run*; *run* to *knrl*; *knrl* to *kn*; *kn* to *ftz*; *ftz* to *slp1*; *slp1* to *slp2*; *slp2* to *btd*; *btd* to *eve*; *eve* to *opa*; *opa* to *prd*; *prd* to *ara*; *ara* to *danr*; *danr* to *tsh*; *tsh* to *cad*; *cad* to *hb*; *hb* to *stwl*; *stwl* to *Doc1*; *Doc1* to *retn*; *retn* to *D*; *D* to *pdm2*; *pdm2* to *dpn*; *dpn* to *dan*; *dan* to *gt*; *gt* to *Kr*; *Kr* to *CG10979*; *CG10979* to *CG13894*; *CG13894* to *CG1621*; *CG1621* to *CG30431*; *CG30431* to *E2f*; *E2f* to *slp1*; *slp1* to *slp2*; *slp2* to *btd*; *btd* to *eve*; *eve* to *opa*; *opa* to *prd*; *prd* to *ara*; *ara* to *danr*; *danr* to *tsh*; *tsh* to *cad*; *cad* to *hb*; *hb* to *stwl*; *stwl* to *Doc1*; *Doc1* to *retn*; *retn* to *D*; *D* to *pdm2*; *pdm2* to *dpn*; *dpn* to *dan*; *dan* to *gt*; *gt* to *Kr*; *Kr* to *CG10979*; *CG10979* to *CG13894*; *CG13894* to *CG1621*; *CG1621* to *CG30431*; *CG30431* to *E2f*; *E2f* to *slp1*; *slp1* to *slp2*; *slp2* to *btd*; *btd* to *eve*; *eve* to *opa*; *opa* to *prd*; *prd* to *ara*; *ara* to *danr*; *danr* to *tsh*; *tsh* to *cad*; *cad* to *hb*; *hb* to *stwl*; *stwl* to *Doc1*; *Doc1* to *retn*; *retn* to *D*; *D* to *pdm2*; *pdm2* to *dpn*; *dpn* to *dan*; *dan* to *gt*; *gt* to *Kr*; *Kr* to *CG10979*; *CG10979* to *CG13894*; *CG13894* to *CG1621*; *CG1621* to *CG30431*; *CG30431* to *E2f*; *E2f* to *slp1*; *slp1* to *slp2*; *slp2* to *btd*; *btd* to *eve*; *eve* to *opa*; *opa* to *prd*; *prd* to *ara*; *ara* to *danr*; *danr* to *tsh*; *tsh* to *cad*; *cad* to *hb*; *hb* to *stwl*; *stwl* to *Doc1*; *Doc1* to *retn*; *retn* to *D*; *D* to *pdm2*; *pdm2* to *dpn*; *dpn* to *dan*; *dan* to *gt*; *gt* to *Kr*; *Kr* to *CG10979*; *CG10979* to *CG13894*; *CG13894* to *CG1621*; *CG1621* to *CG30431*; *CG30431* to *E2f*; *E2f* to *slp1*; *slp1* to *slp2*; *slp2* to *btd*; *btd* to *eve*; *eve* to *opa*; *opa* to *prd*; *prd* to *ara*; *ara* to *danr*; *danr* to *tsh*; *tsh* to *cad*; *cad* to *hb*; *hb* to *stwl*; *stwl* to *Doc1*; *Doc1* to *retn*; *retn* to *D*; *D* to *pdm2*; *pdm2* to *dpn*; *dpn* to *dan*; *dan* to *gt*; *gt* to *Kr*; *Kr* to *CG10979*; *CG10979* to *CG13894*; *CG13894* to *CG1621*; *CG1621* to *CG30431*; *CG30431* to *E2f*; *E2f* to *slp1*; *slp1* to *slp2*; *slp2* to *btd*; *btd* to *eve*; *eve* to *opa*; *opa* to *prd*; *prd* to *ara*; *ara* to *danr*; *danr* to *tsh*; *tsh* to *cad*; *cad* to *hb*; *hb* to *stwl*; *stwl* to *Doc1*; *Doc1* to *retn*; *retn* to *D*; *D* to *pdm2*; *pdm2* to *dpn*; *dpn* to *dan*; *dan* to *gt*; *gt* to *Kr*; *Kr* to *CG10979*; *CG10979* to *CG13894*; *CG13894* to *CG1621*; *CG1621* to *CG30431*; *CG30431* to *E2f*; *E2f* to *slp1*; *slp1* to *slp2*; *slp2* to *btd*; *btd* to *eve*; *eve* to *opa*; *opa* to *prd*; *prd* to *ara*; *ara* to *danr*; *danr* to *tsh*; *tsh* to *cad*; *cad* to *hb*; *hb* to *stwl*; *stwl* to *Doc1*; *Doc1* to *retn*; *retn* to *D*; *D* to *pdm2*; *pdm2* to *dpn*; *dpn* to *dan*; *dan* to *gt*; *gt* to *Kr*; *Kr* to *CG10979*; *CG10979* to *CG13894*; *CG13894* to *CG1621*; *CG1621* to *CG30431*; *CG30431* to *E2f*; *E2f* to *slp1*; *slp1* to *slp2*; *slp2* to *btd*; *btd* to *eve*; *eve* to *opa*; *opa* to *prd*; *prd* to *ara*; *ara* to *danr*; *danr* to *tsh*; *tsh* to

[illegible]

Lower [3.5%,4%] correlation = [-0.59,-0.58]; Upper [4%,3.5%] correlation = [0.71,0.72]



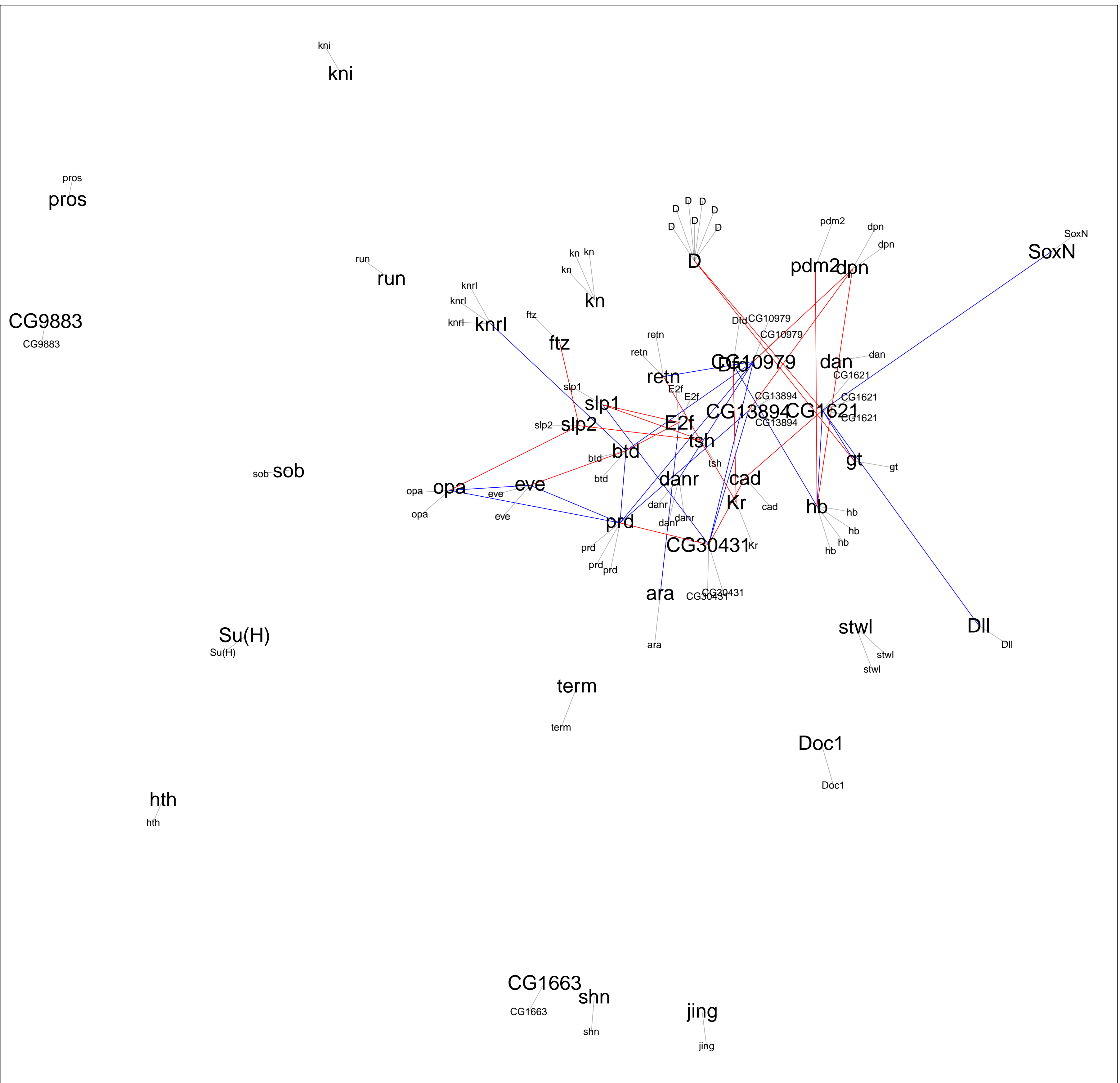
Lower [3%,3.5%] correlation = [-0.61,-0.59]; Upper [3.5%,3%] correlation = [0.72,0.73]



The diagram illustrates a gene regulatory network with the following components and interactions:

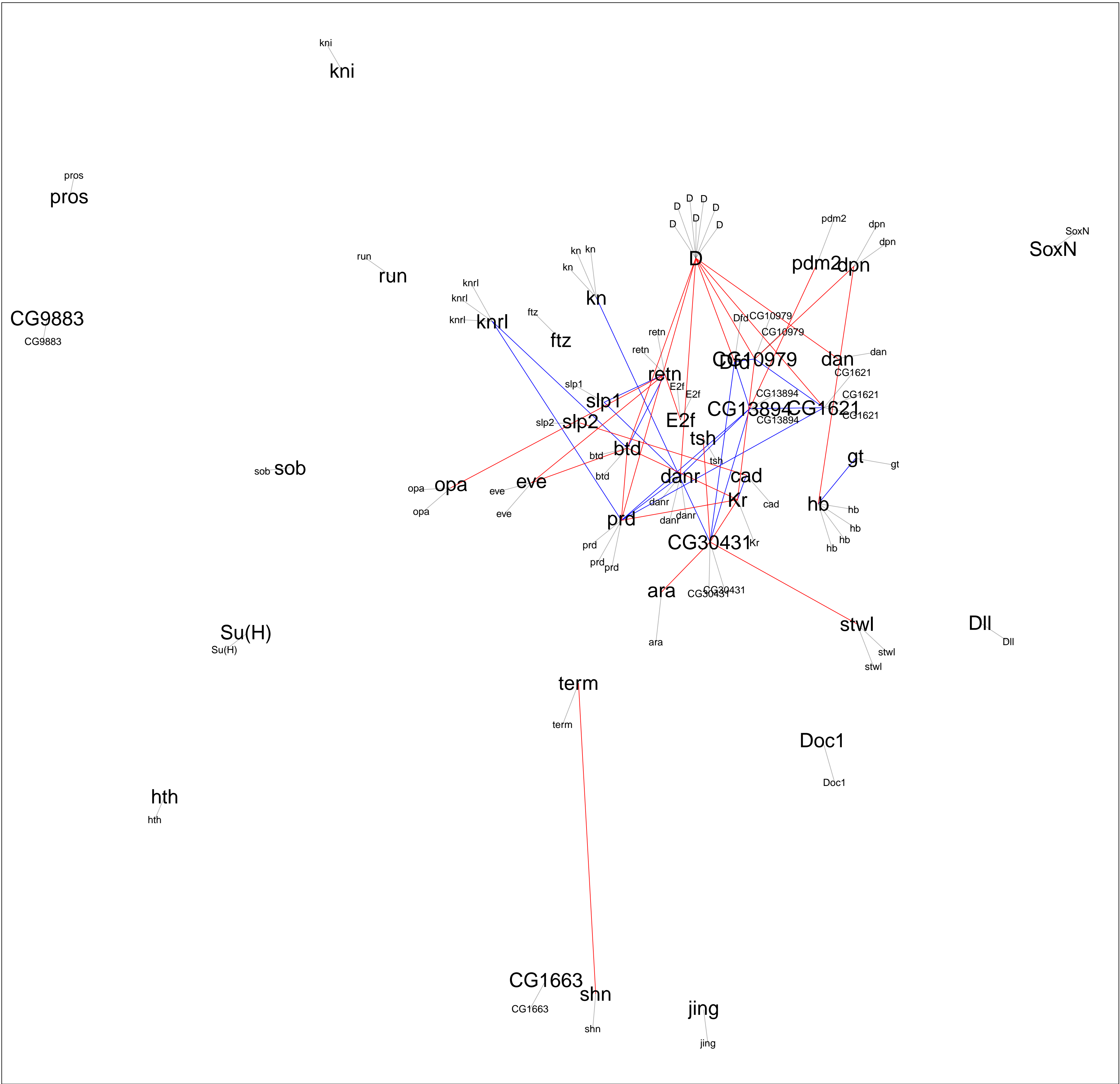
- Central Cluster:** A dense network of genes including *D*, *E2f*, *tsh*, *danr*, *cad*, *hb*, *prd*, *btd*, *slp1*, *slp2*, *kn*, *knrl*, *ftz*, *opa*, *eve*, *ara*, *dan*, *gt*, *stwl*, *DII*, *Doc1*, *shn*, and *jing*. These genes are interconnected by numerous red and blue lines, representing regulatory interactions.
- Peripheral Genes:** Genes located around the central cluster, including *pros*, *run*, *kni*, *kn*, *knrl*, *ftz*, *slp1*, *slp2*, *btd*, *opa*, *eve*, *ara*, *dan*, *gt*, *stwl*, *DII*, *Doc1*, *shn*, and *jing*.
- CG (Chromatin Genomic) Identifiers:** Several CG identifiers are present, such as *CG9883*, *CG10979*, *CG13894*, *CG1621*, *CG30431*, and *CG1663*, which likely represent specific genomic regions or clusters.
- Transcription Factors:** Genes like *Su(H)*, *SoxN*, and *D* are shown as transcription factors that regulate other genes in the network.

**Lower [2%,2.5%] correlation = [-0.65,-0.63]; Upper [2.5%,2%] correlation = [0.75,0.77]**





Lower [1.5%,2%] correlation = [-0.68,-0.65]; Upper [2%,1.5%] correlation = [0.77,0.79]



Lower [1%,1.5%] correlation = [-0.71,-0.68]; Upper [1.5%,1%] correlation = [0.79,0.81]

