

Islet diabetic phenotype gene sets

Color legend:

- T2D expression (C)
- T2D expression (B)
- Glycemic gene-based
- Co-expression
- T2D eQTL
- T2D expression (A)
- Hyperglycemia expression
- T2D methylation (B)
- T2D methylation (A)
- Monogenic
- OMIM
- T2D GWAS/rare variant
- Glycemic GWAS/rare variant

Islet biology gene sets

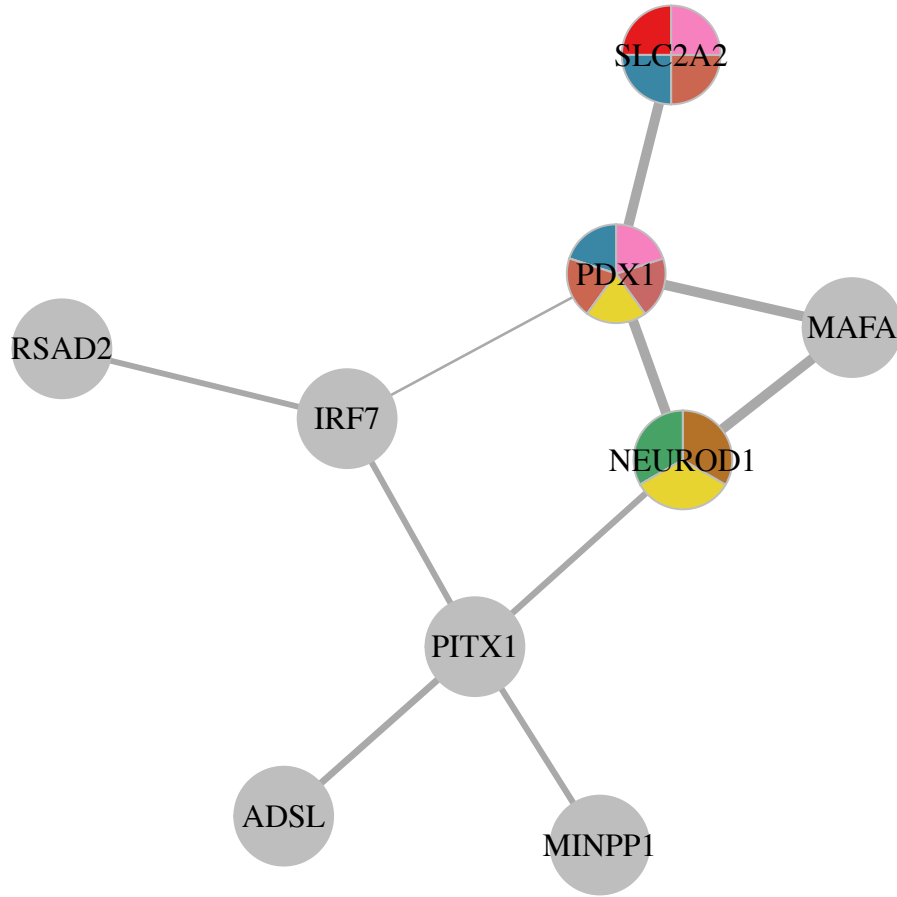
Color legend:

- Islet specific
- Open chromatin
- Open chromatin clusters
- Islet biology

Visualization of the 24 complexes with potential T2D dysregulation, where the evidence sources supporting the different genes are annotated.

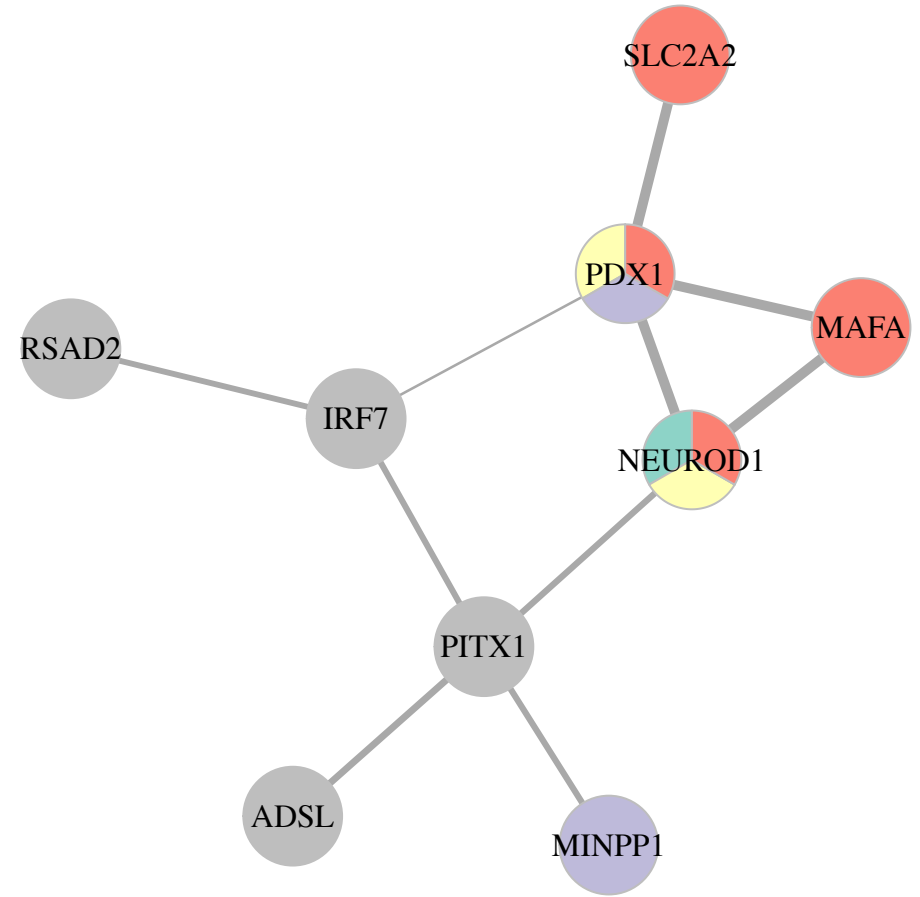
The first page (of the 25 pages) in this file shows the color legend for the diabetic phenotype and islet related gene sets. Nodes with red boarder indicate targets of FDA approved drugs.

Complex-1



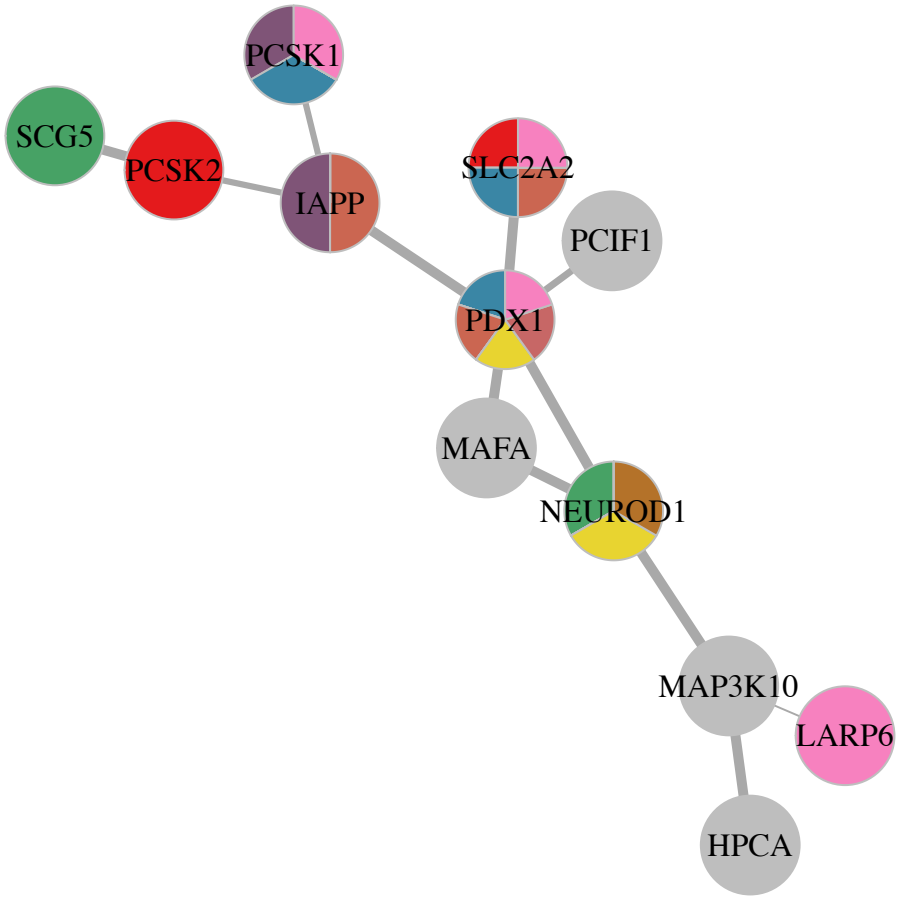
Emperical P-value: $< 1E-5$
Number of genes in complex: 9
Top coordinated expressed tissues: Colon, Skin, Bone Marrow
Node color based on: Islet diabetic phenotype gene sets

Complex-1



Emperical P-value: $< 1E-5$
Number of genes in complex: 9
Top coordinated expressed tissues: Colon, Skin, Bone Marrow
Node color based on: Islet biology gene sets

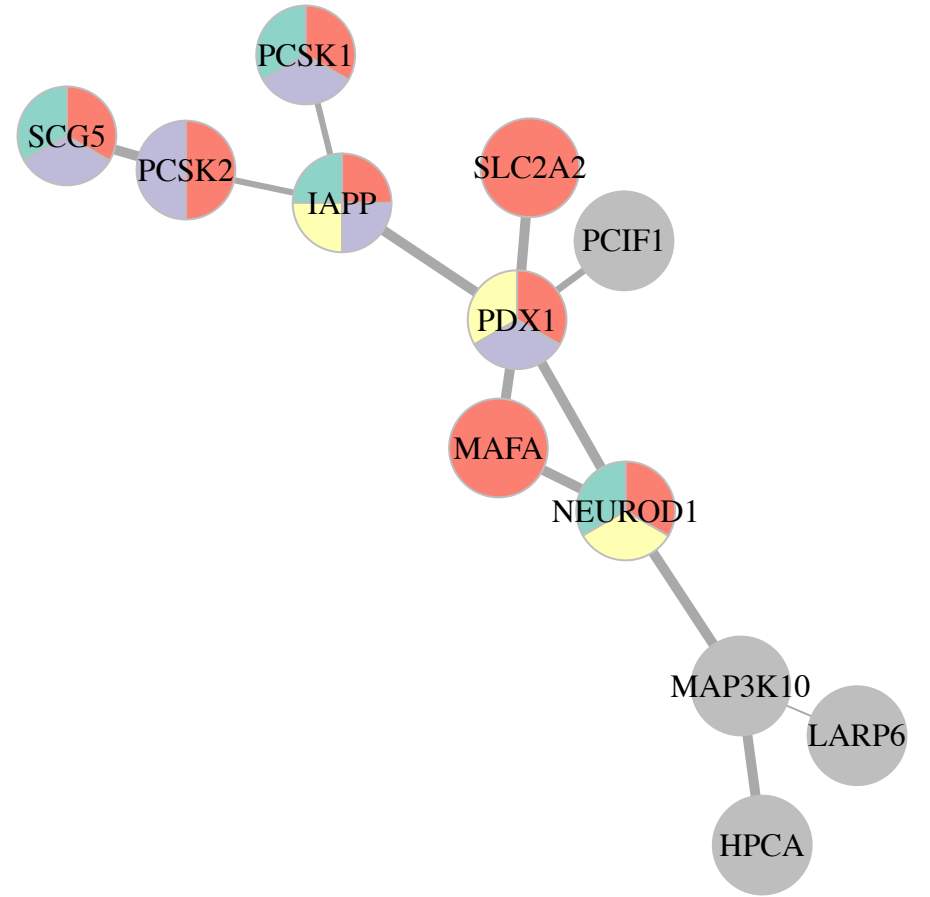
Complex-2



Emperical P-value: $< 1E-5$
Number of genes in complex: 12
Top coordinated expressed tissues: islet, Pituitary, Pancreas

Node color based on: Islet diabetic phenotype gene sets

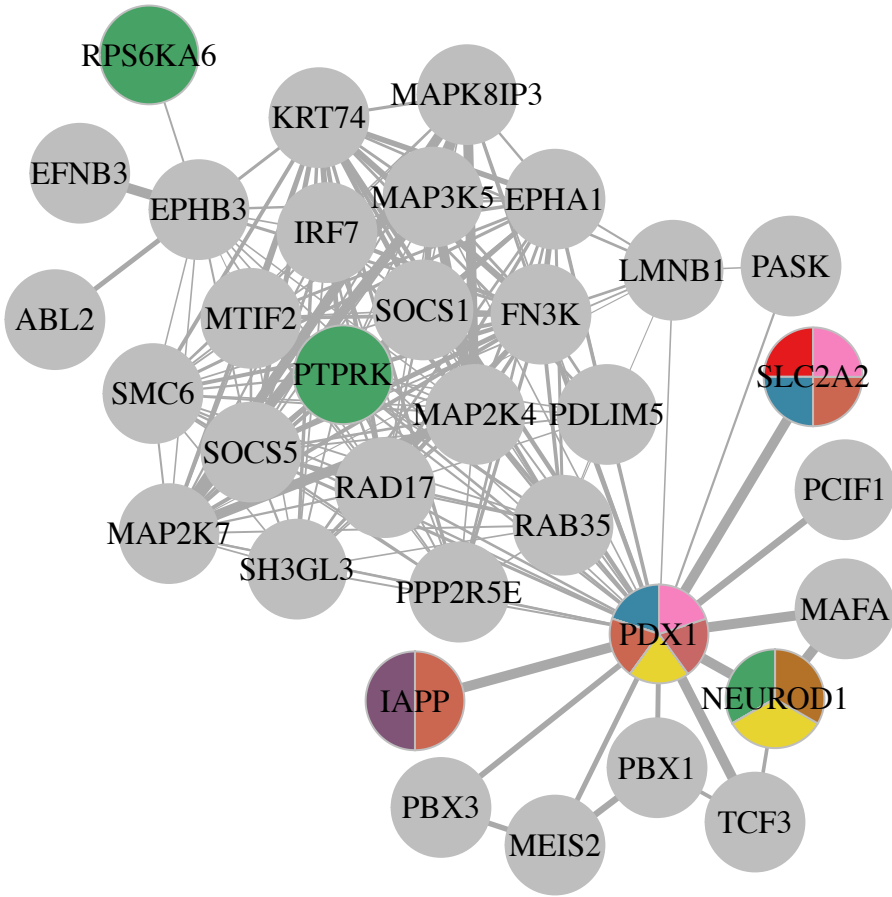
Complex-2



Emperical P-value: $< 1E-5$
Number of genes in complex: 12
Top coordinated expressed tissues: islet, Pituitary, Pancreas

Node color based on: Islet biology gene sets

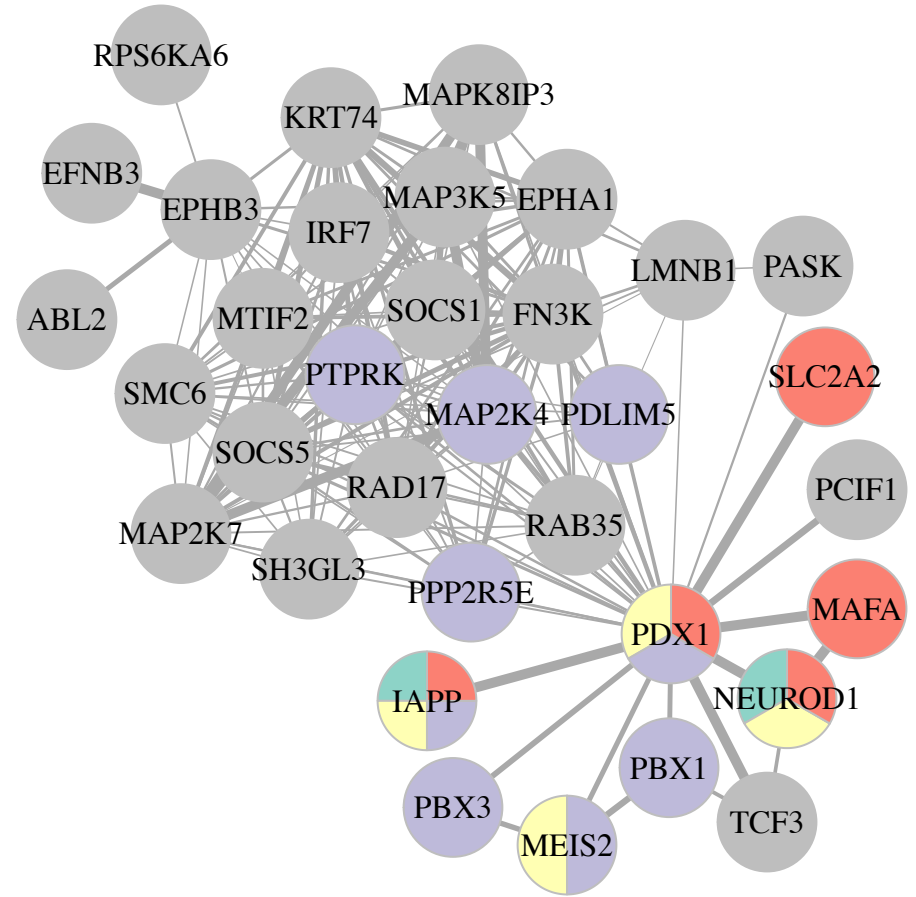
Complex-3



Emperical P-value: $2e-05$
Number of genes in complex: 34
Top coordinated expressed tissues: Bladder, Ovary, Breast

Node color based on: Islet diabetic phenotype gene sets

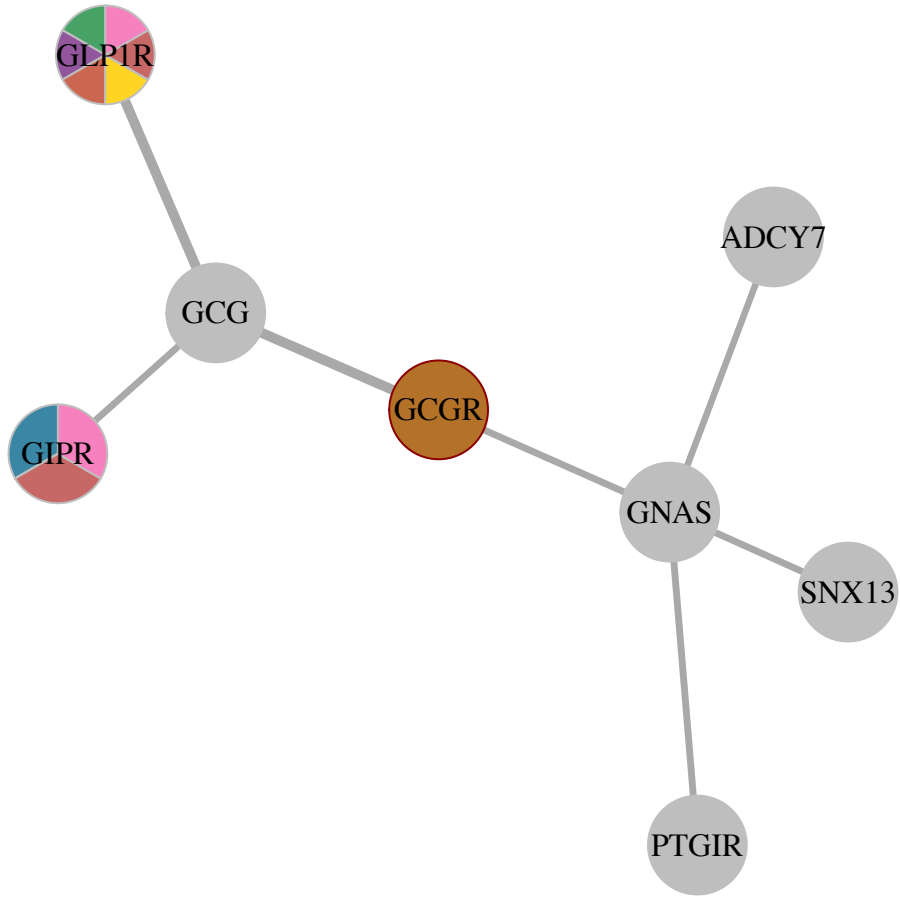
Complex-3



Emperical P-value: $2e-05$
Number of genes in complex: 34
Top coordinated expressed tissues: Bladder, Ovary, Breast

Node color based on: Islet biology gene sets

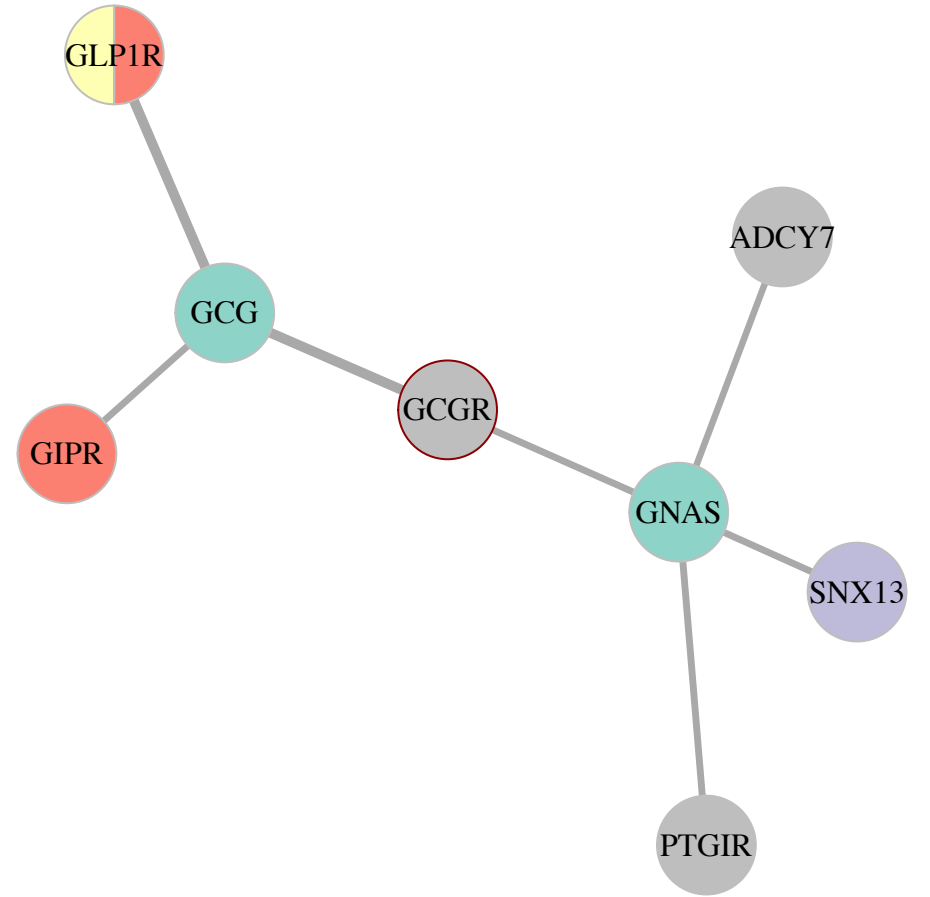
Complex-4



Emperical P-value: $3e-05$
Number of genes in complex: 8
Top coordinated expressed tissues: islet, Pancreas, Small Intestine

Node color based on: Islet diabetic phenotype gene sets

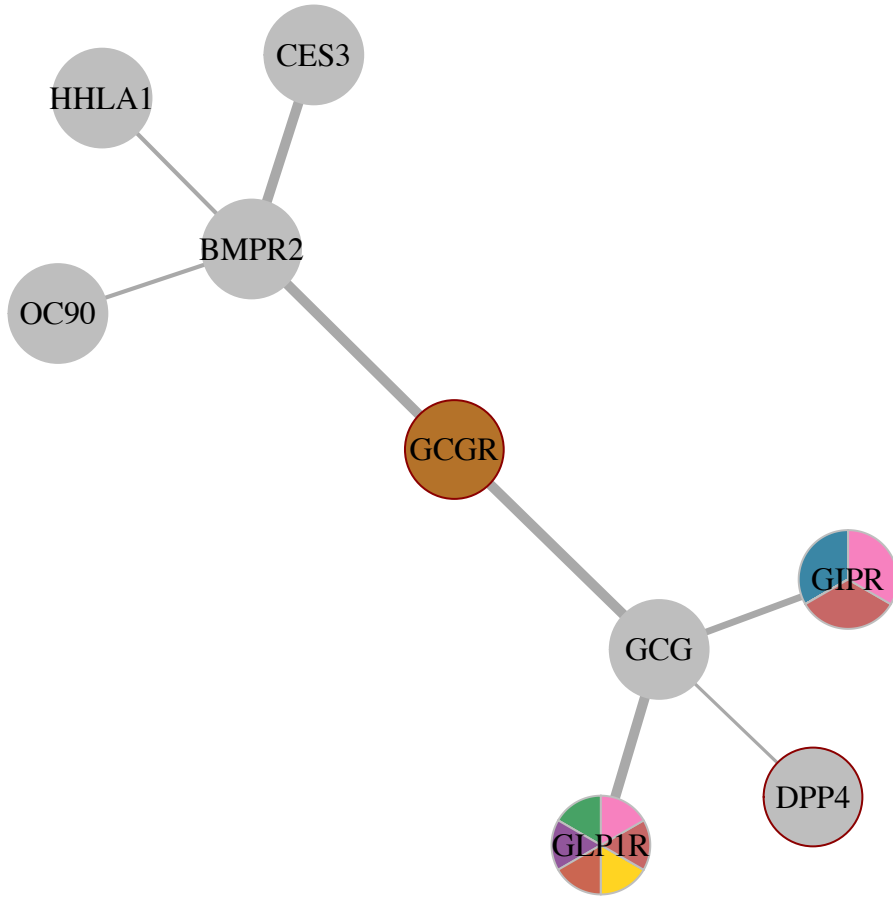
Complex-4



Emperical P-value: $3e-05$
Number of genes in complex: 8
Top coordinated expressed tissues: islet, Pancreas, Small Intestine

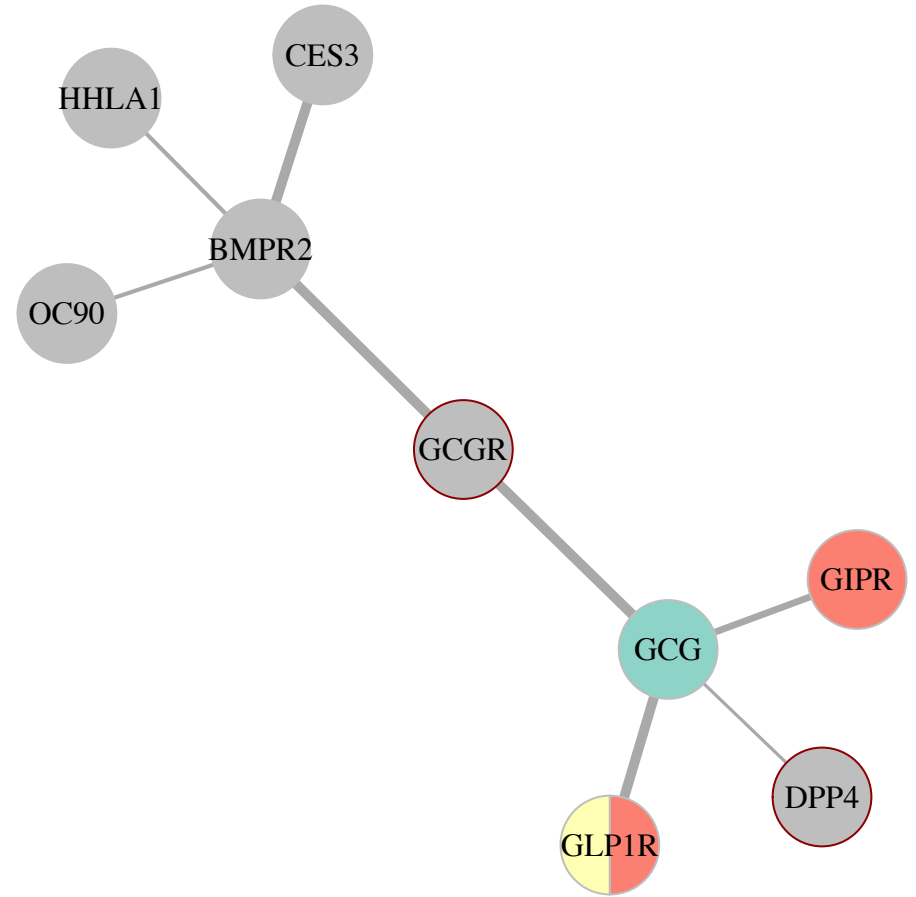
Node color based on: Islet biology gene sets

Complex-5



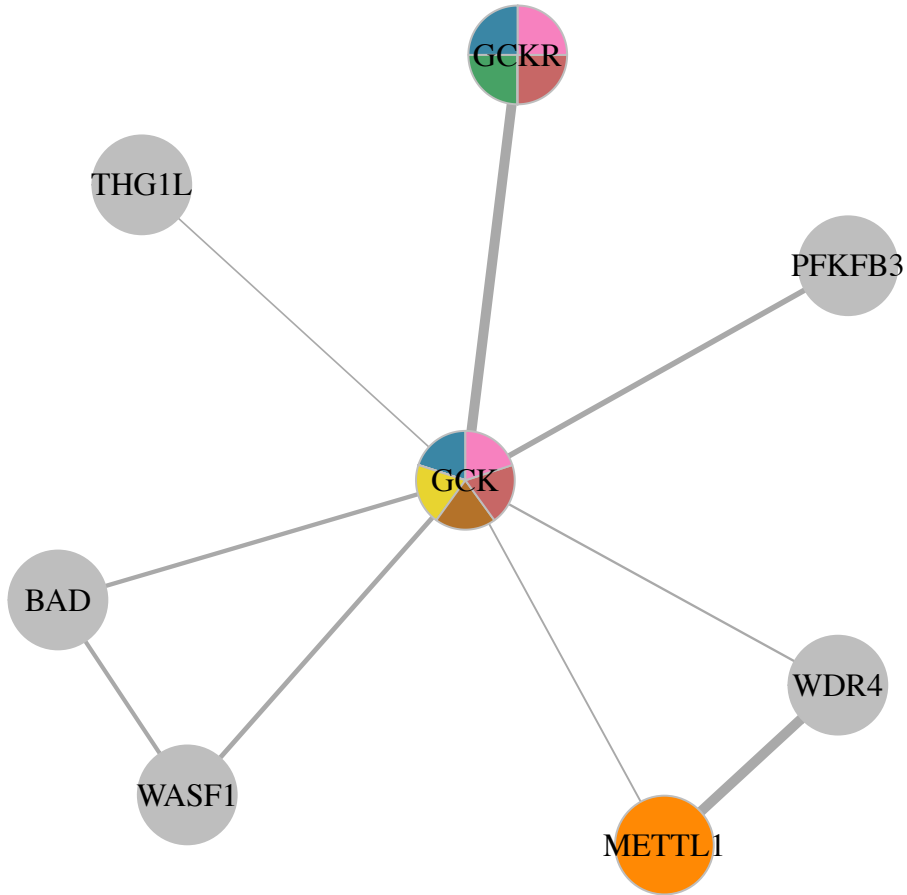
Emperical P-value: $3e-05$
Number of genes in complex: 9
Top coordinated expressed tissues: islet, beta, Bone Marrow
Node color based on: Islet diabetic phenotype gene sets

Complex-5



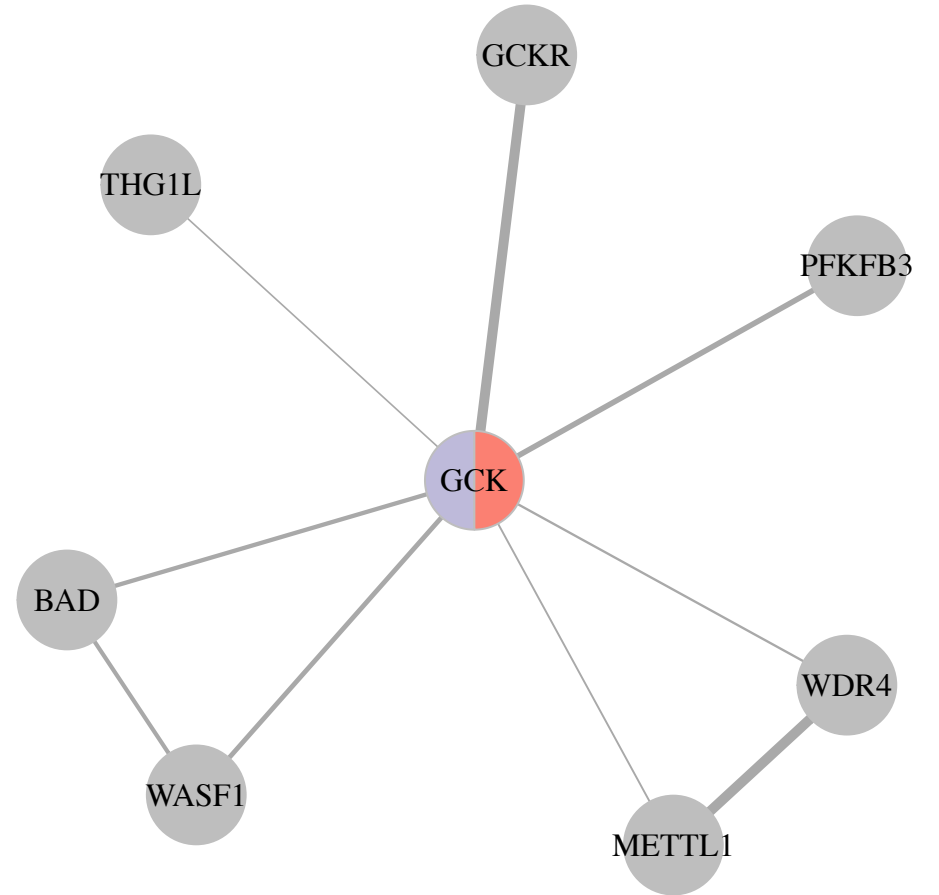
Emperical P-value: $3e-05$
Number of genes in complex: 9
Top coordinated expressed tissues: islet, beta, Bone Marrow
Node color based on: Islet biology gene sets

Complex-6



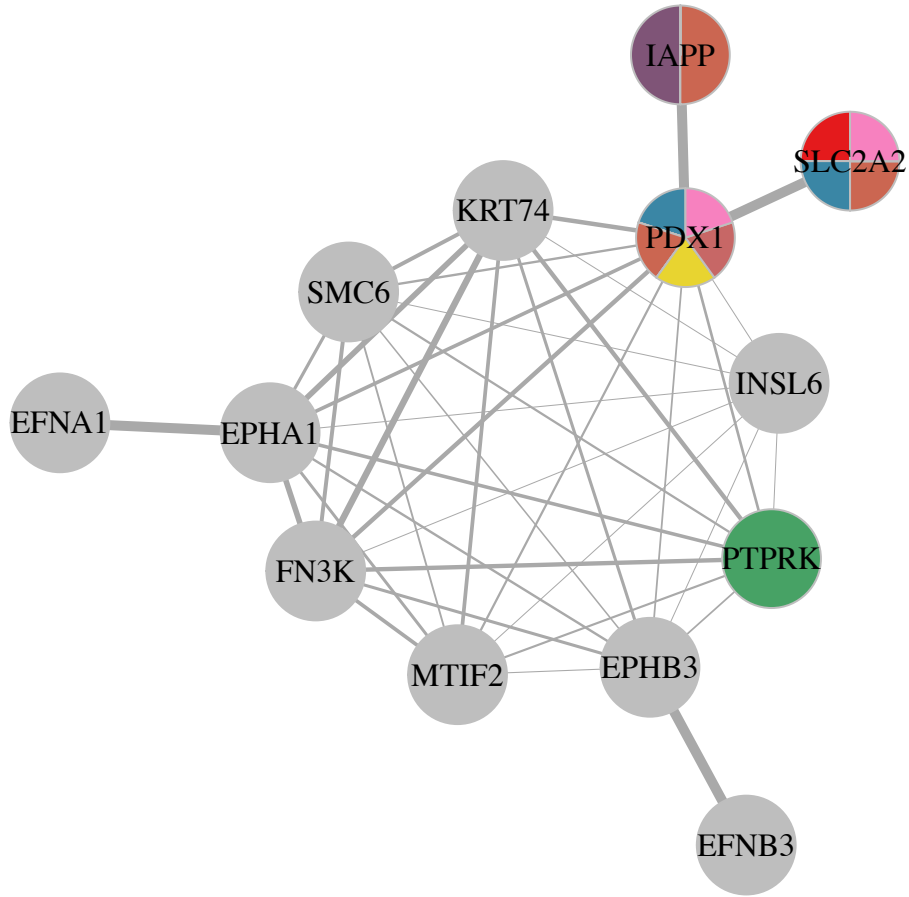
Emperical P-value: $3e-05$
Number of genes in complex: 8
Top coordinated expressed tissues: Nerve, Cervix Uteri, Small Intestine
Node color based on: Islet diabetic phenotype gene sets

Complex-6



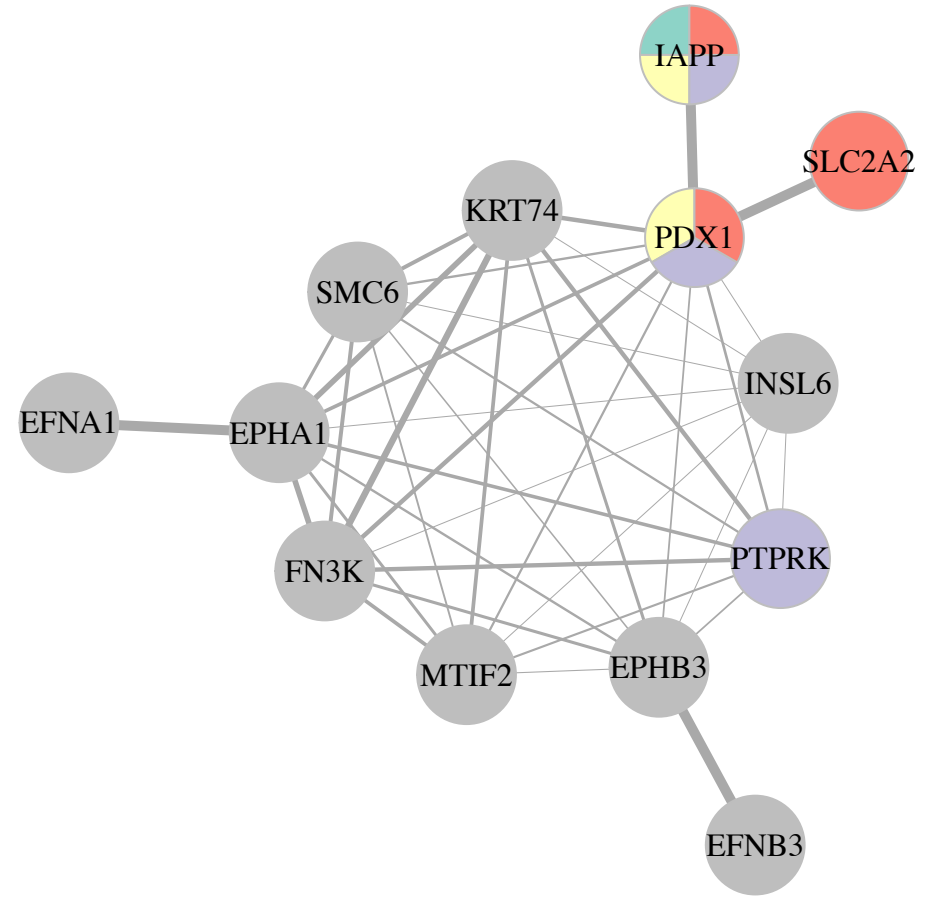
Emperical P-value: $3e-05$
Number of genes in complex: 8
Top coordinated expressed tissues: Nerve, Cervix Uteri, Small Intestine
Node color based on: Islet biology gene sets

Complex-7



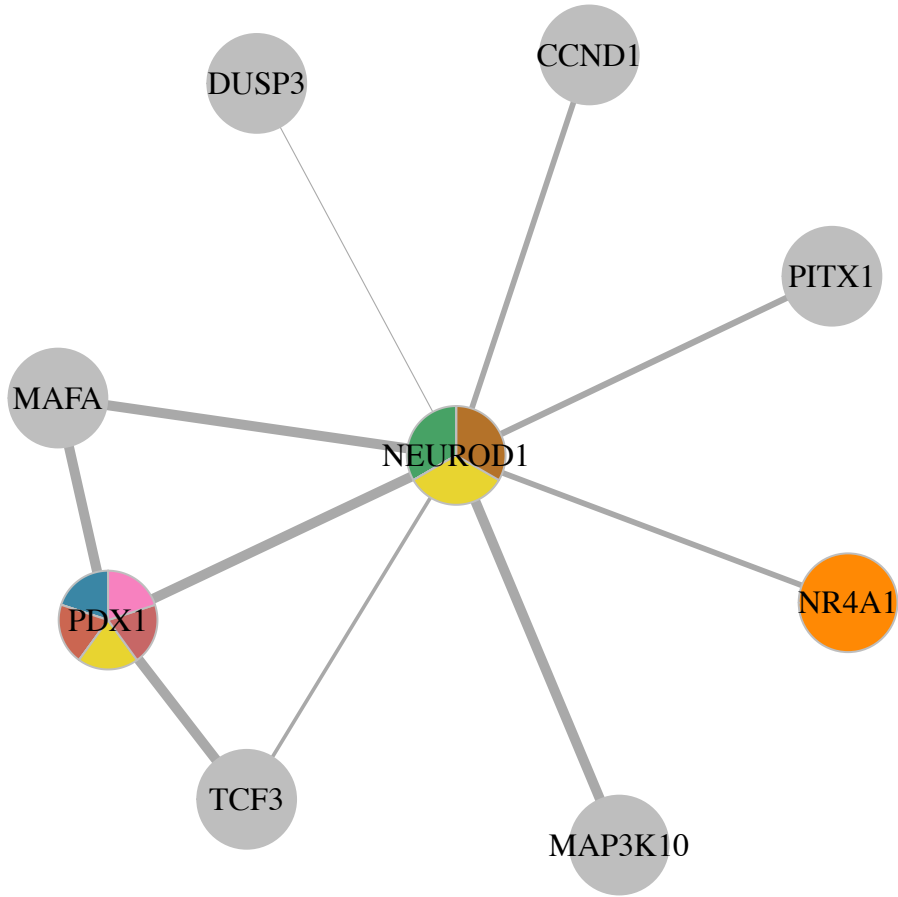
Emperical P-value: $4e-05$
Number of genes in complex: 13
Top coordinated expressed tissues: Colon, Bladder, nonbeta
Node color based on: Islet diabetic phenotype gene sets

Complex-7



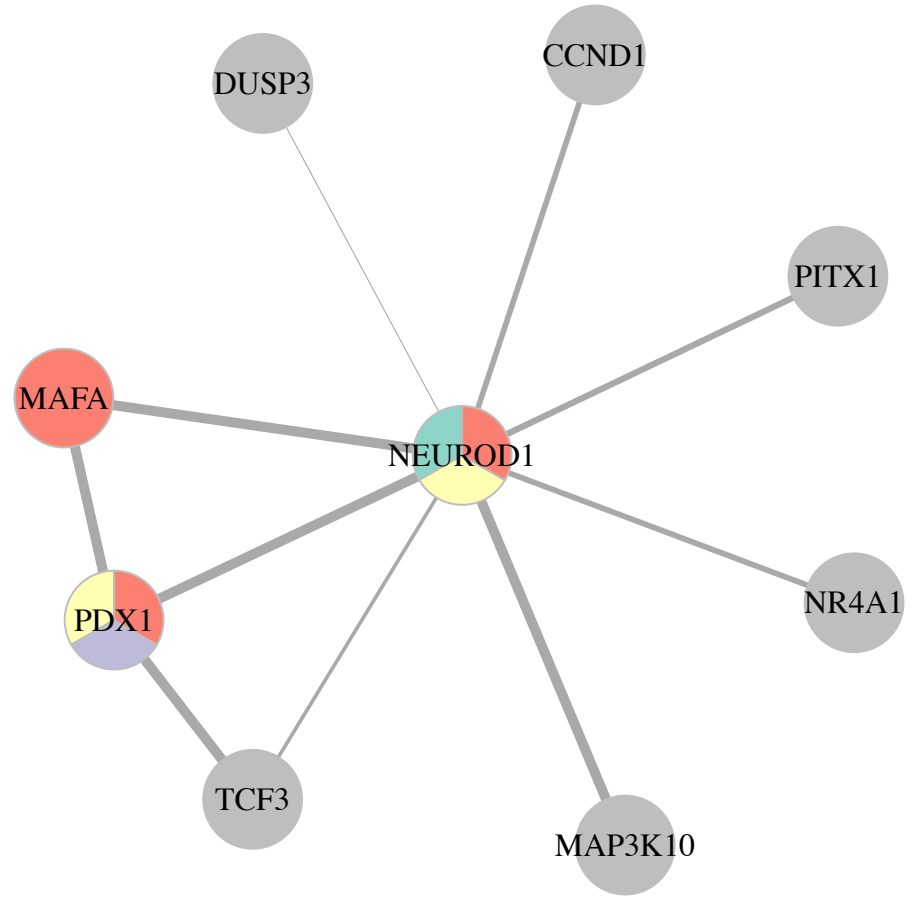
Emperical P-value: $4e-05$
Number of genes in complex: 13
Top coordinated expressed tissues: Colon, Bladder, nonbeta
Node color based on: Islet biology gene sets

Complex-8



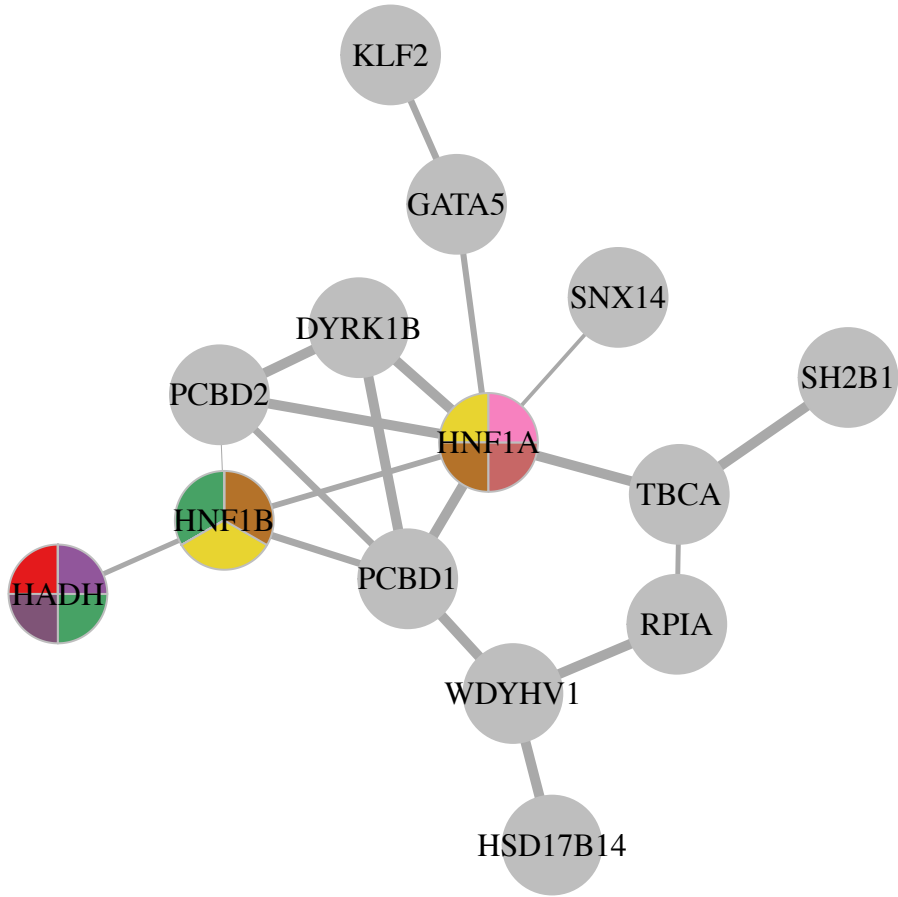
Emperical P-value: $4e-05$
Number of genes in complex: 9
Top coordinated expressed tissues: Skin, Colon, Adrenal Gland
Node color based on: Islet diabetic phenotype gene sets

Complex-8



Emperical P-value: $4e-05$
Number of genes in complex: 9
Top coordinated expressed tissues: Skin, Colon, Adrenal Gland
Node color based on: Islet biology gene sets

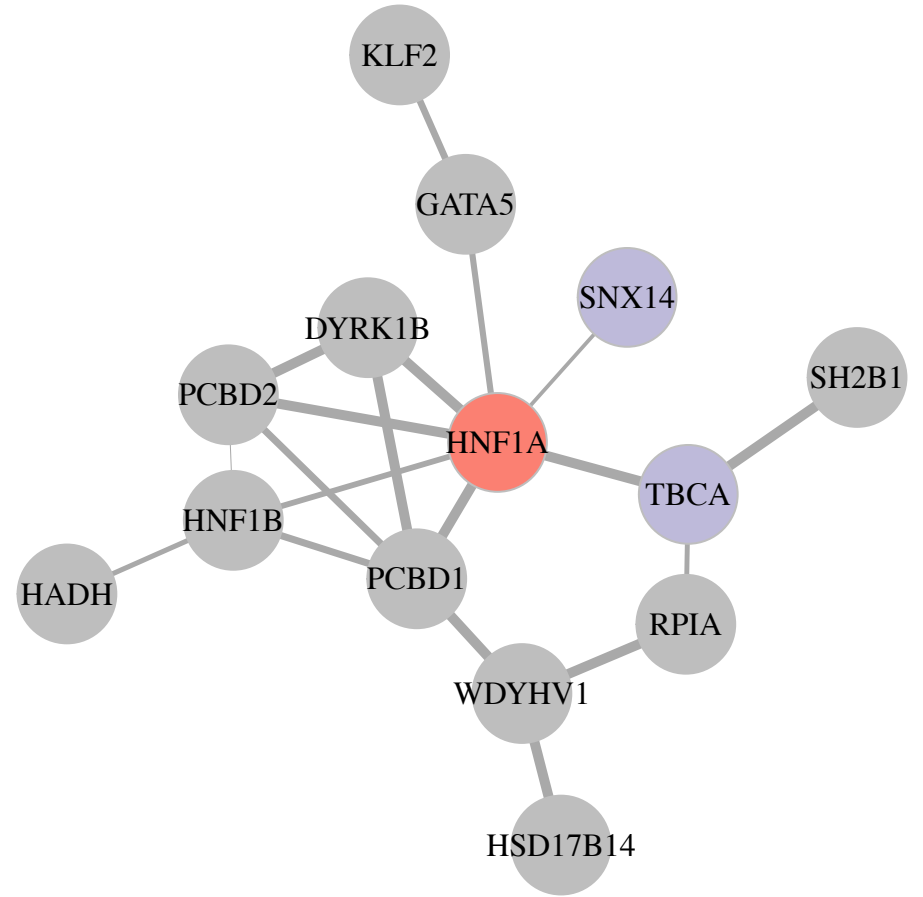
Complex-9



Emperical P-value: $5e-05$
Number of genes in complex: 14
Top coordinated expressed tissues: Fallopian Tube, Uterus, Bladder

Node color based on: Islet diabetic phenotype gene sets

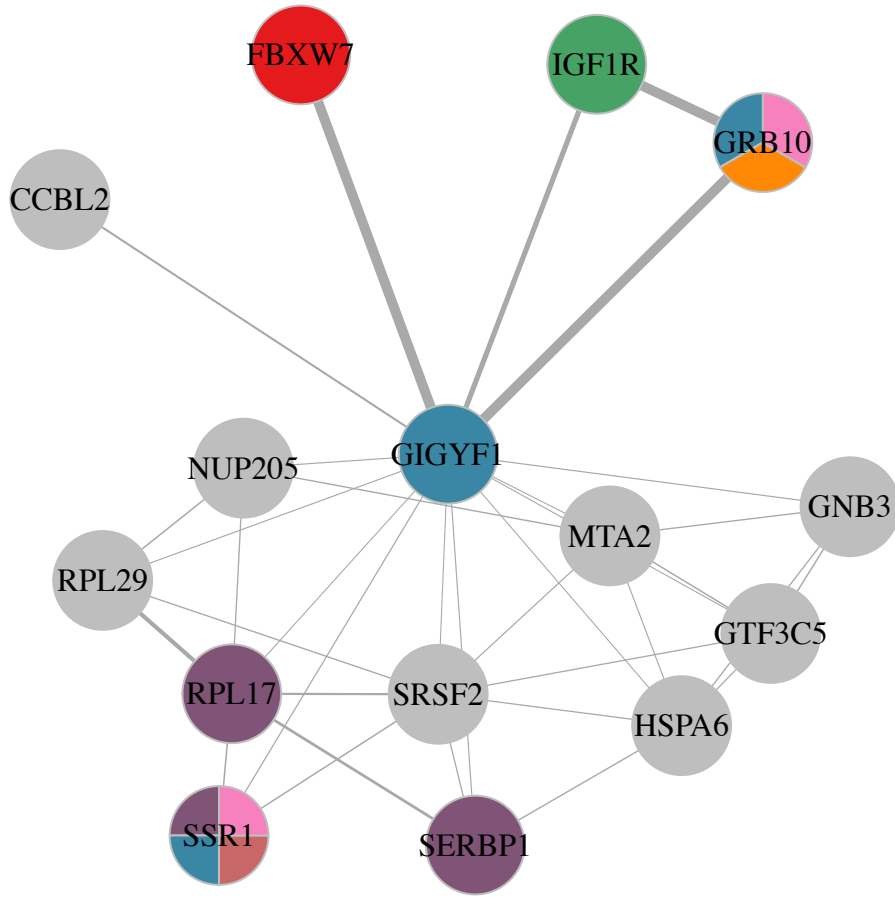
Complex-9



Emperical P-value: $5e-05$
Number of genes in complex: 14
Top coordinated expressed tissues: Fallopian Tube, Uterus, Bladder

Node color based on: Islet biology gene sets

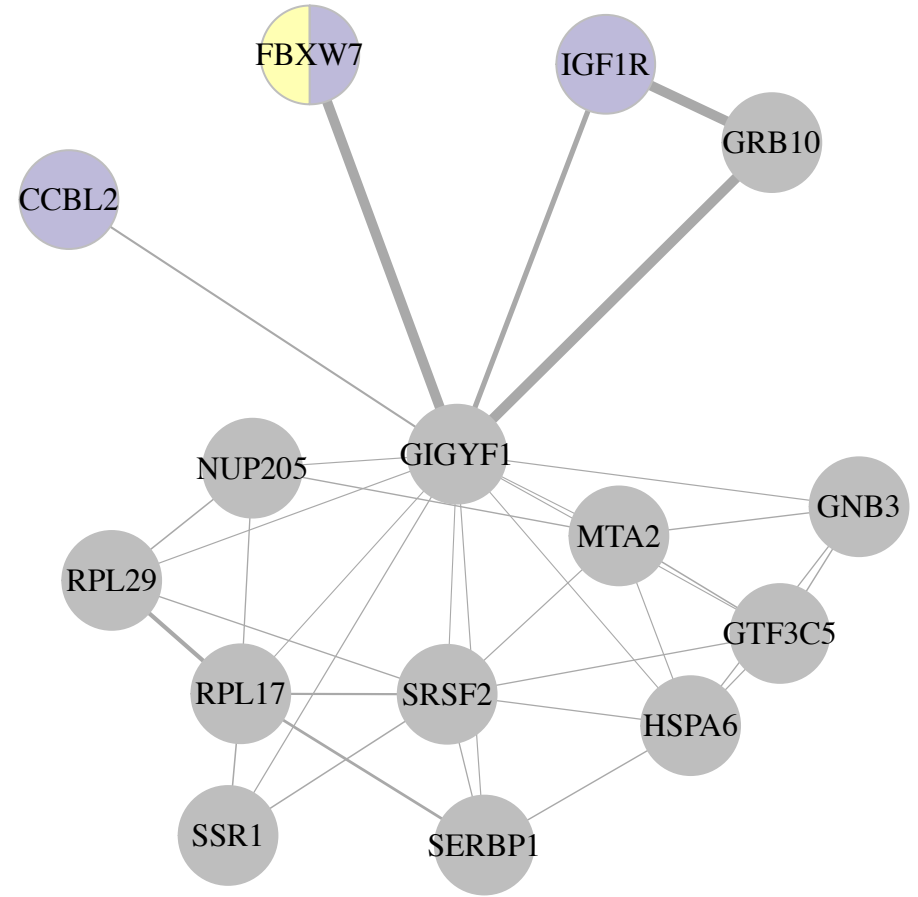
Complex-10



Emperical P-value: $6e-05$
Number of genes in complex: 15
Top coordinated expressed tissues: Small Intestine, Liver, Brain

Node color based on: Islet diabetic phenotype gene sets

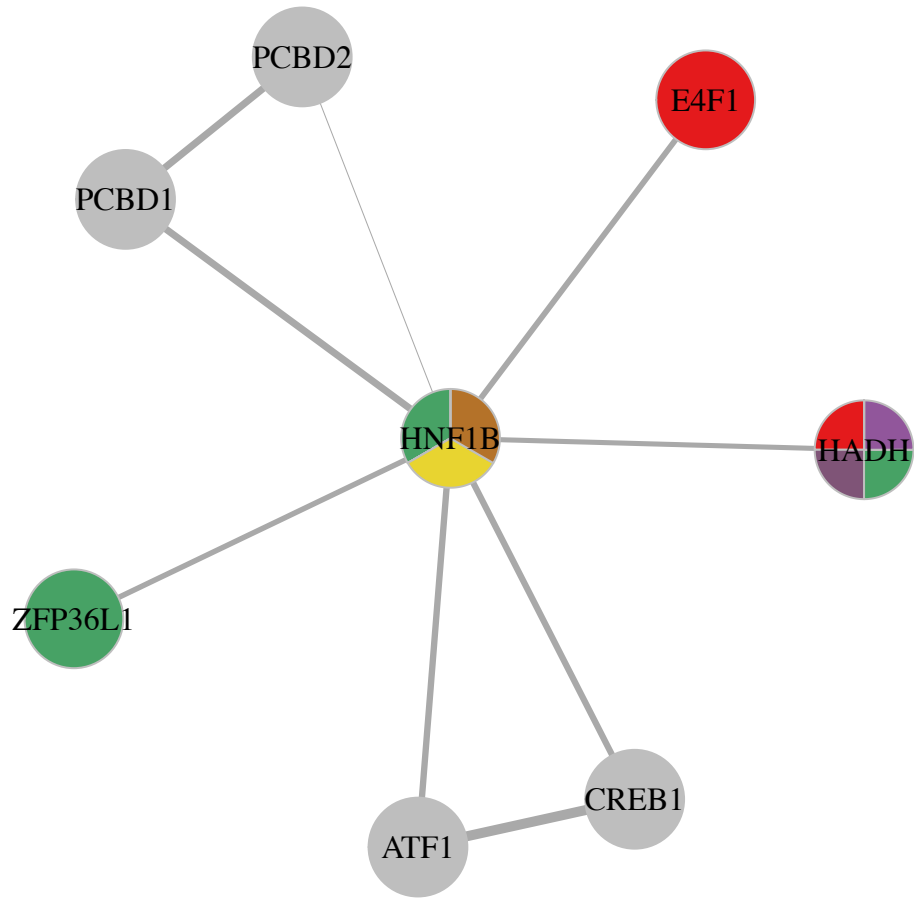
Complex-10



Emperical P-value: $6e-05$
Number of genes in complex: 15
Top coordinated expressed tissues: Small Intestine, Liver, Brain

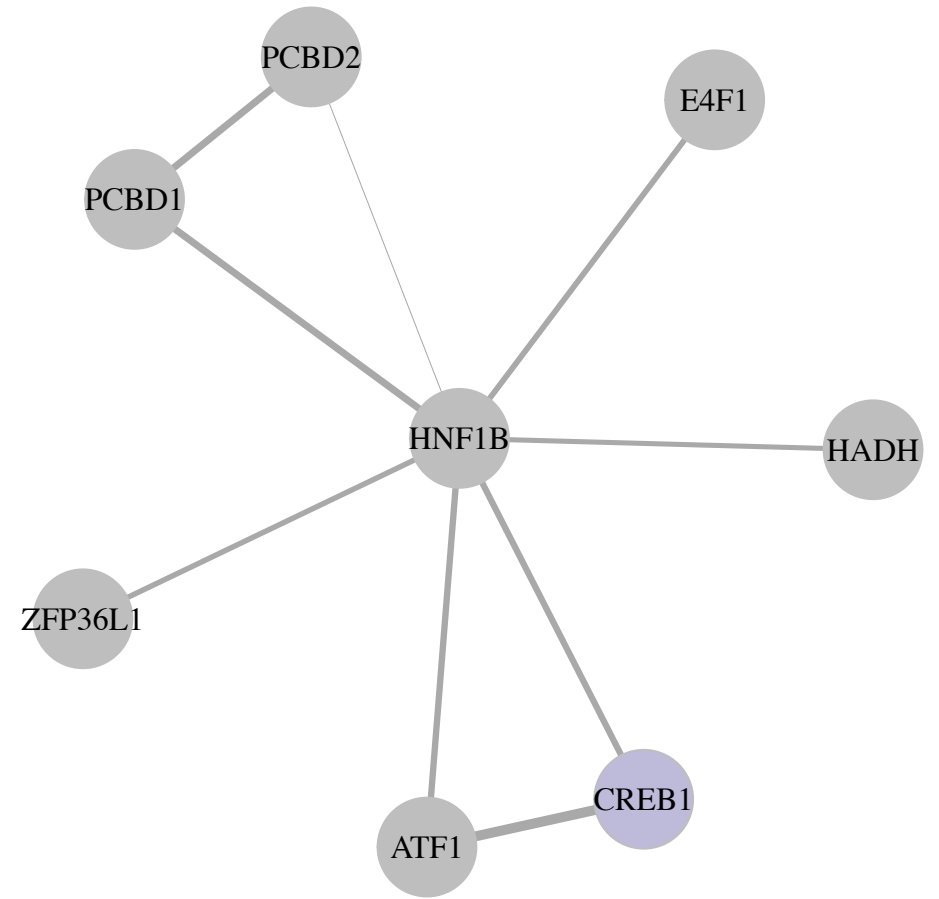
Node color based on: Islet biology gene sets

Complex-11



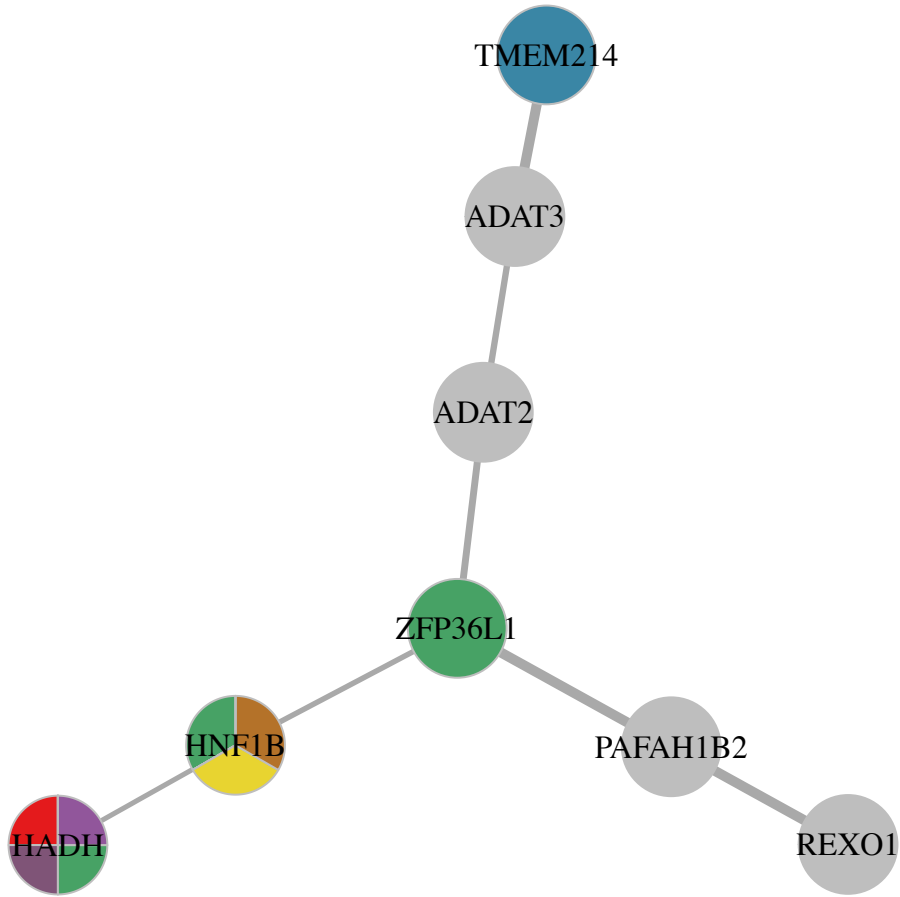
Emperical P-value: $6e-05$
Number of genes in complex: 8
Top coordinated expressed tissues: Bladder, Fallopan Tube, Prostate
Node color based on: Islet diabetic phenotype gene sets

Complex-11



Emperical P-value: $6e-05$
Number of genes in complex: 8
Top coordinated expressed tissues: Bladder, Fallopan Tube, Prostate
Node color based on: Islet biology gene sets

Complex-12



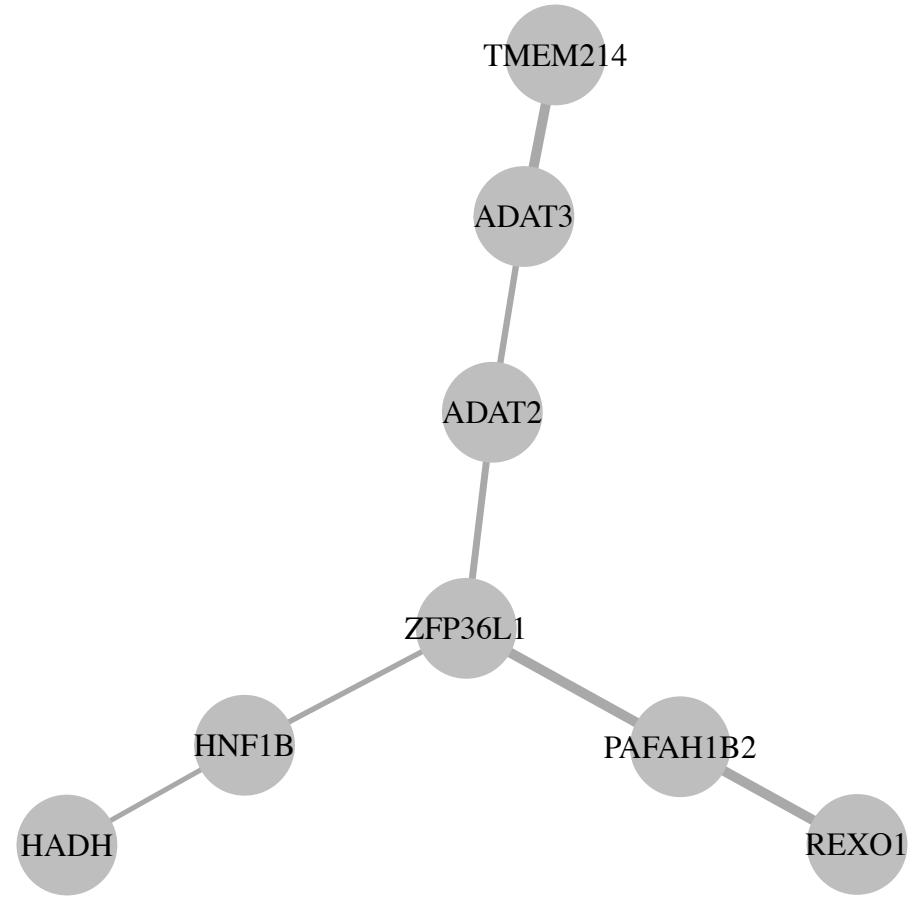
Emperical P-value: $6e-05$

Number of genes in complex: 8

Top coordinated expressed tissues: Bladder, Fallopian Tube, Cervix Uteri

Node color based on: Islet diabetic phenotype gene sets

Complex-12



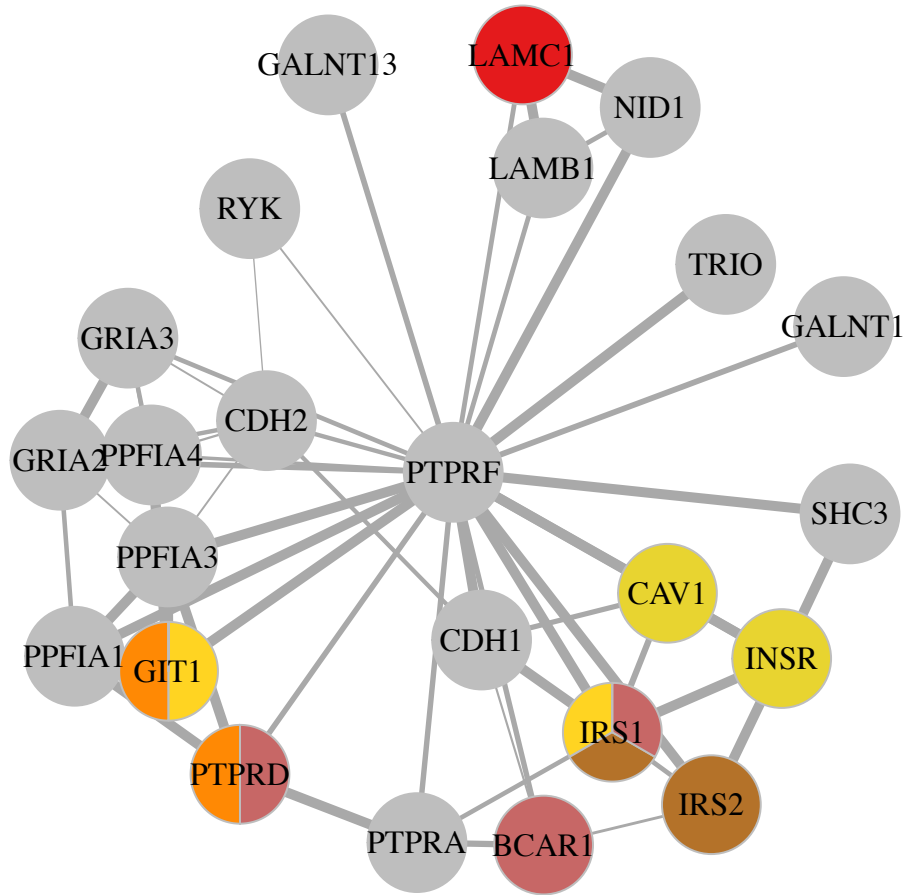
Emperical P-value: $6e-05$

Number of genes in complex: 8

Top coordinated expressed tissues: Bladder, Fallopian Tube, Cervix Uteri

Node color based on: Islet biology gene sets

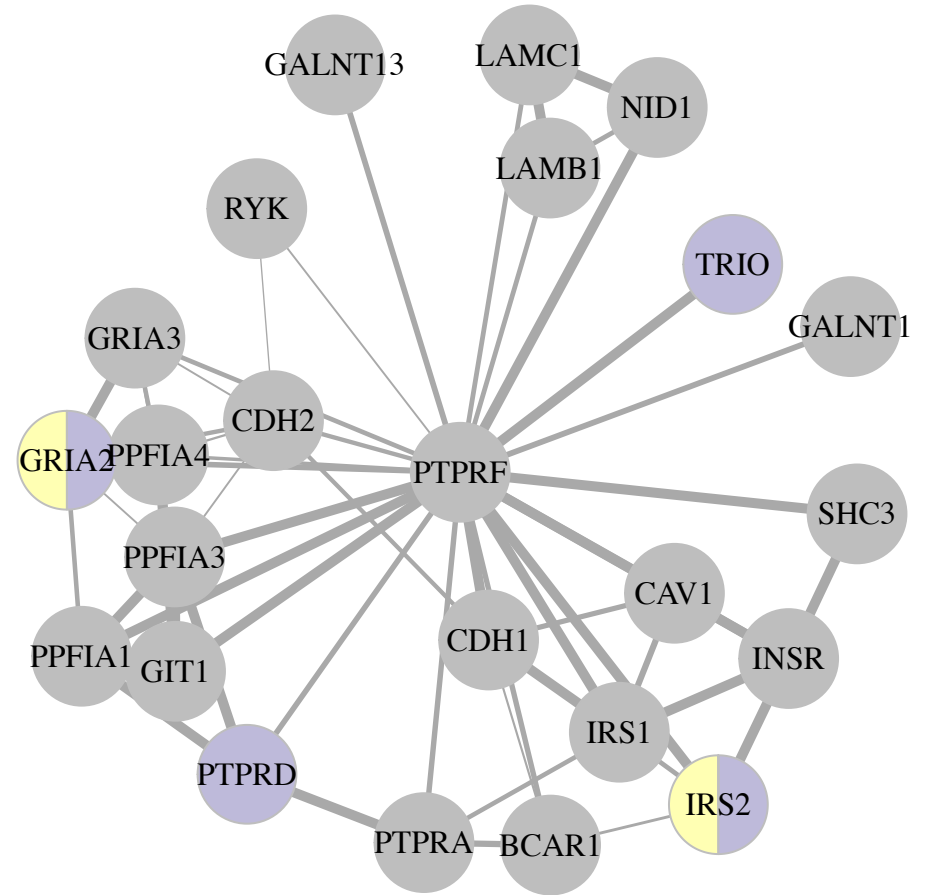
Complex-13



Emperical P-value: $7e-05$
Number of genes in complex: 24
Top coordinated expressed tissues: beta, islet, Testis

Node color based on: Islet diabetic phenotype gene sets

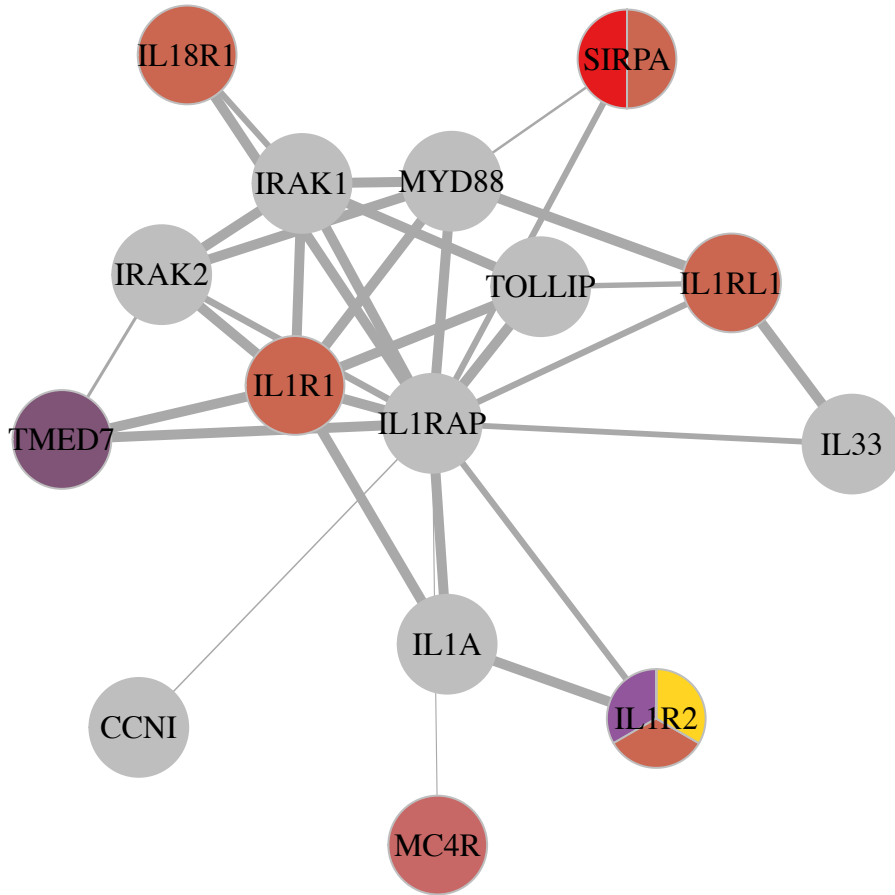
Complex-13



Emperical P-value: $7e-05$
Number of genes in complex: 24
Top coordinated expressed tissues: beta, islet, Testis

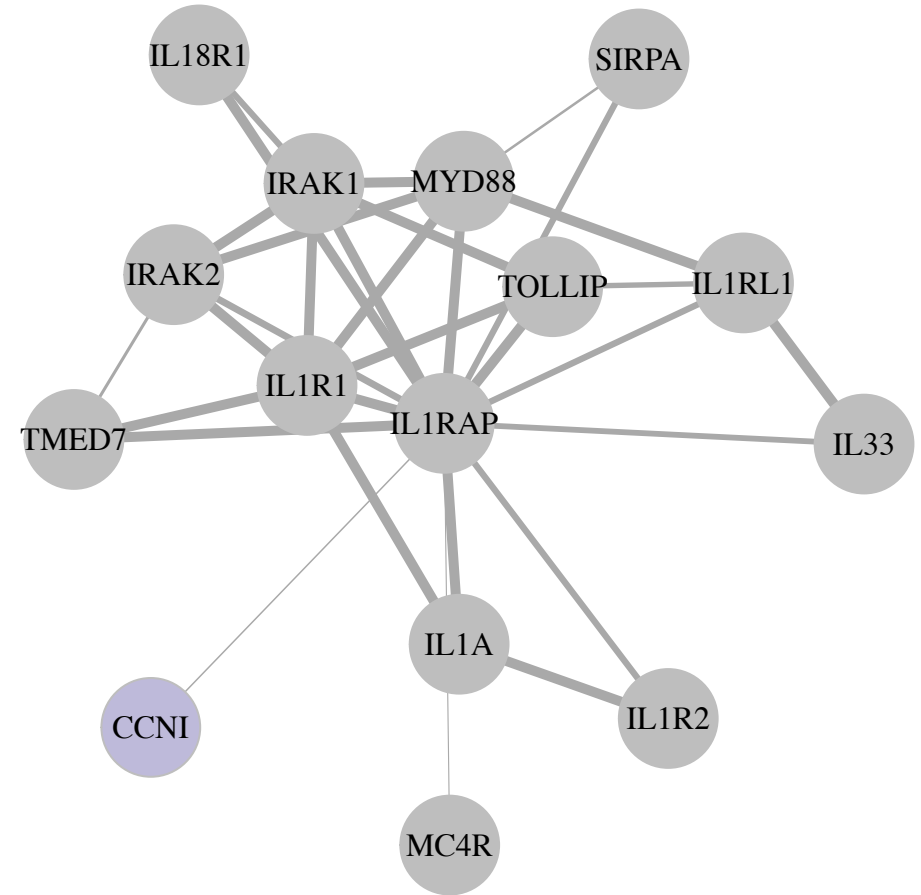
Node color based on: Islet biology gene sets

Complex-14



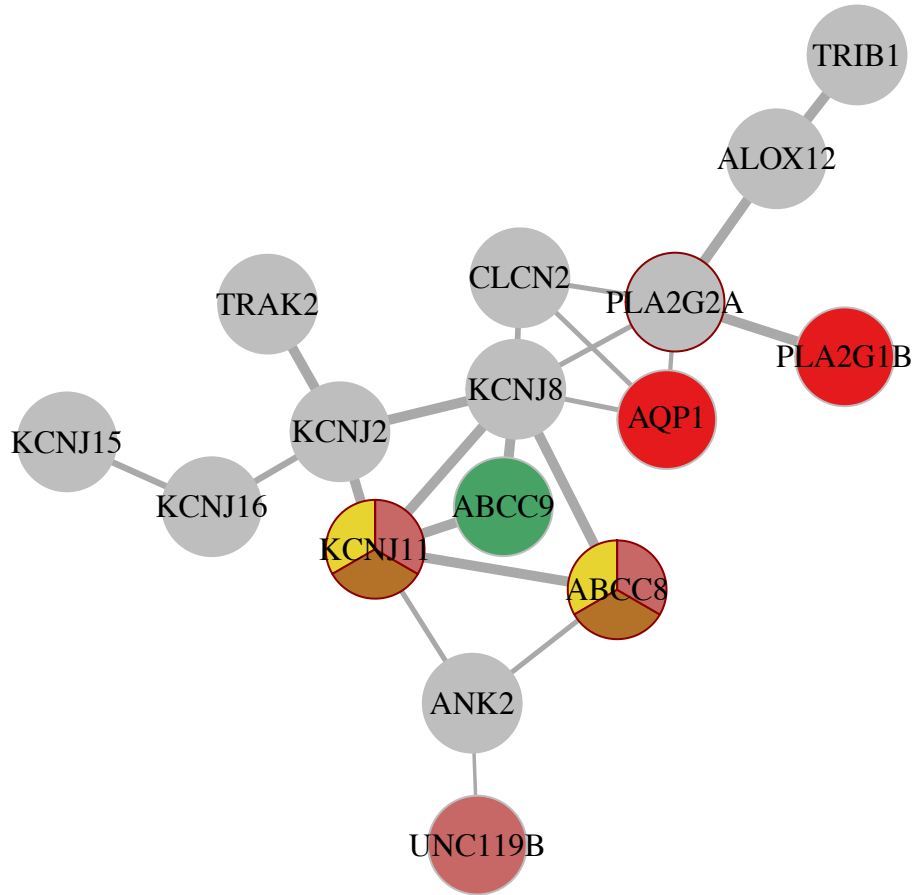
Emperical P-value: $9e-05$
Number of genes in complex: 15
Top coordinated expressed tissues: Fallopian Tube, Nerve, Blood Vessel
Node color based on: Islet diabetic phenotype gene sets

Complex-14



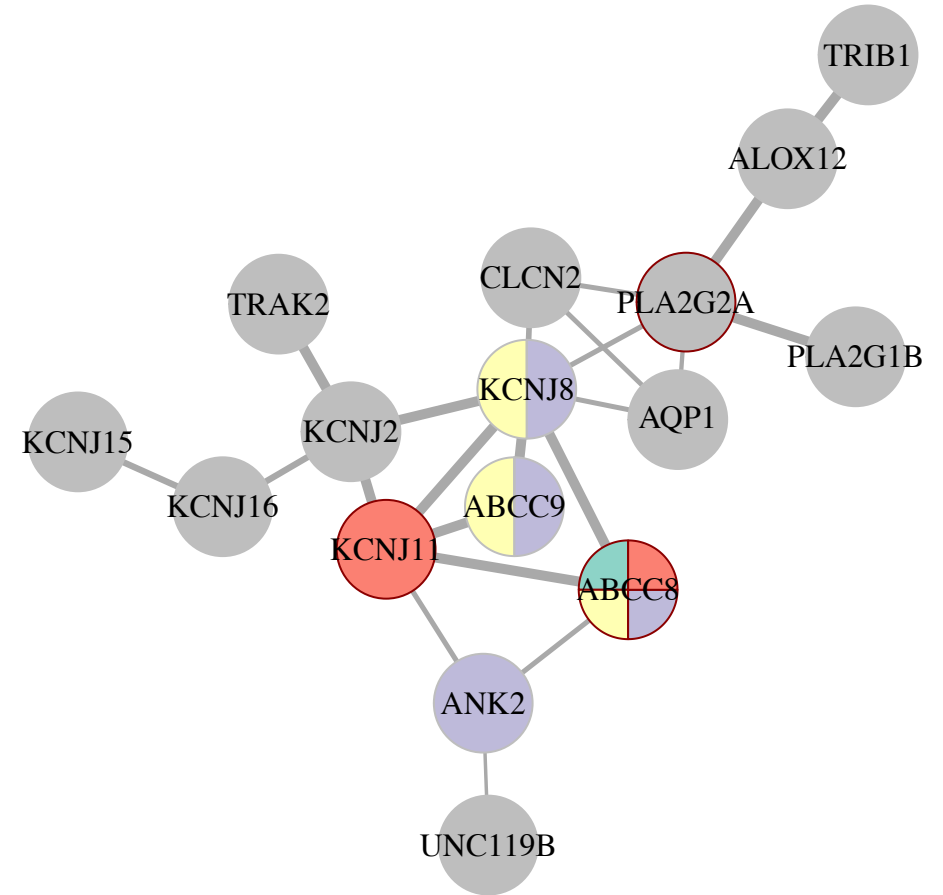
Emperical P-value: $9e-05$
Number of genes in complex: 15
Top coordinated expressed tissues: Fallopian Tube, Nerve, Blood Vessel
Node color based on: Islet biology gene sets

Complex-15



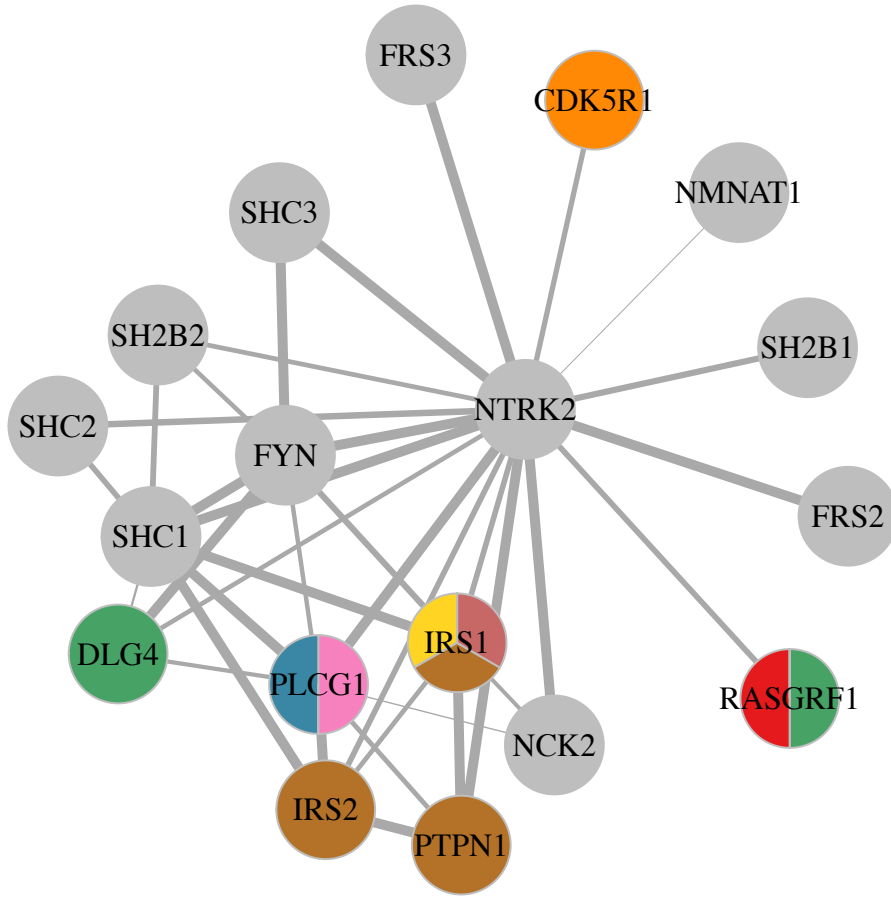
Emperical P-value: $9e-05$
Number of genes in complex: 16
Top coordinated expressed tissues: Salivary Gland, islet, Bone Marrow
Node color based on: Islet diabetic phenotype gene sets

Complex-15



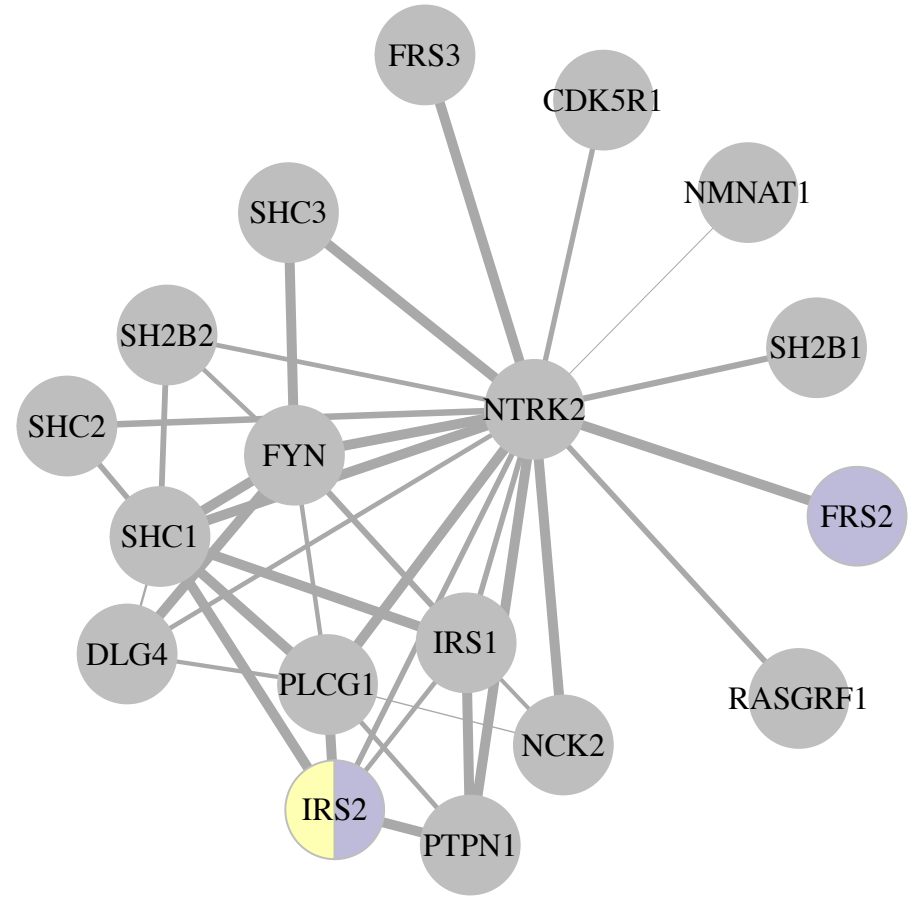
Emperical P-value: $9e-05$
Number of genes in complex: 16
Top coordinated expressed tissues: Salivary Gland, islet, Bone Marrow
Node color based on: Islet biology gene sets

Complex-16



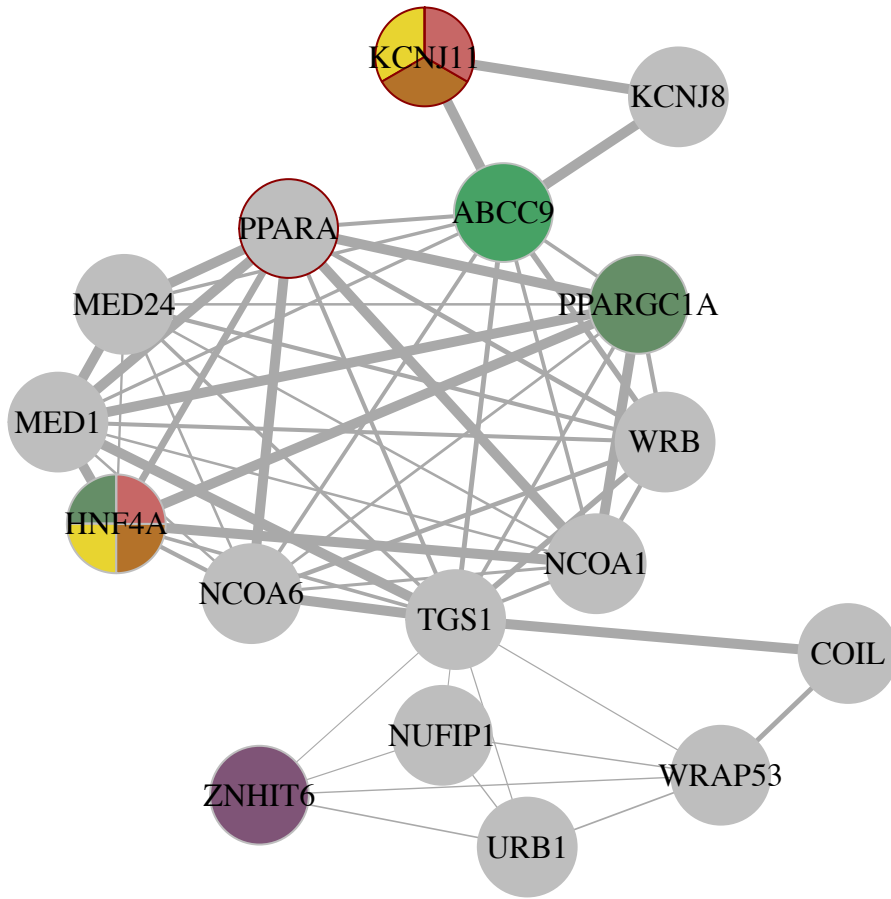
Emperical P-value: $1e-04$
Number of genes in complex: 18
Top coordinated expressed tissues: Stomach, Vagina, Colon
Node color based on: Islet diabetic phenotype gene sets

Complex-16



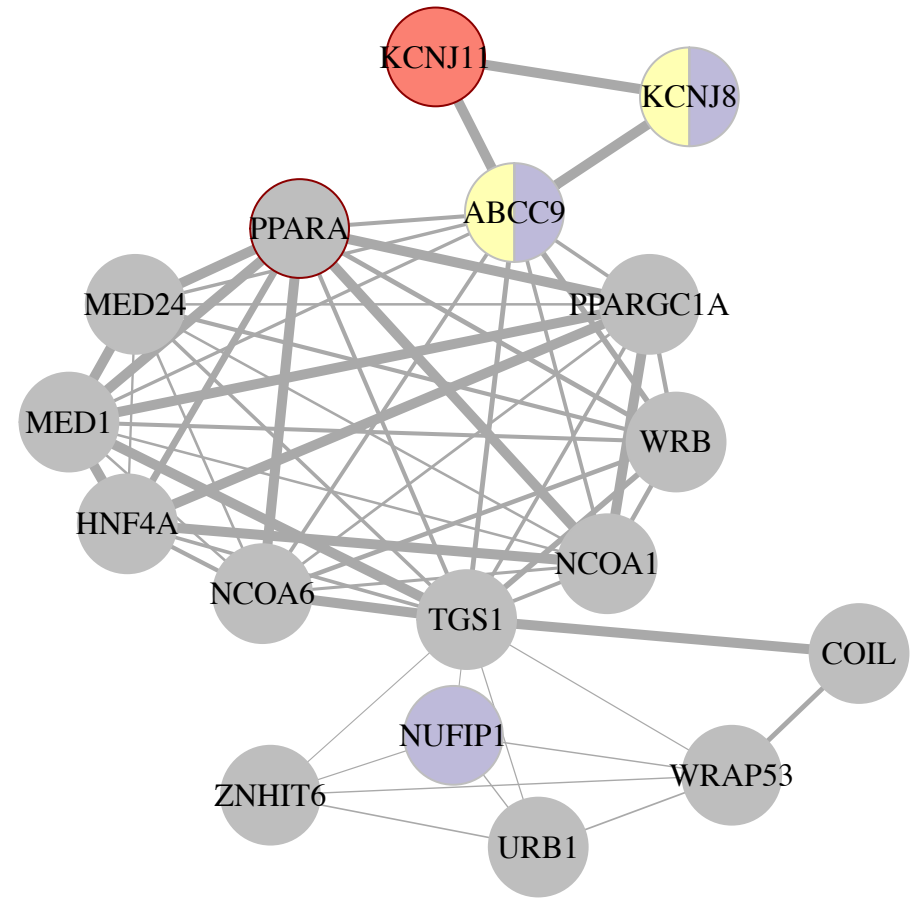
Emperical P-value: $1e-04$
Number of genes in complex: 18
Top coordinated expressed tissues: Stomach, Vagina, Colon
Node color based on: Islet biology gene sets

Complex-17



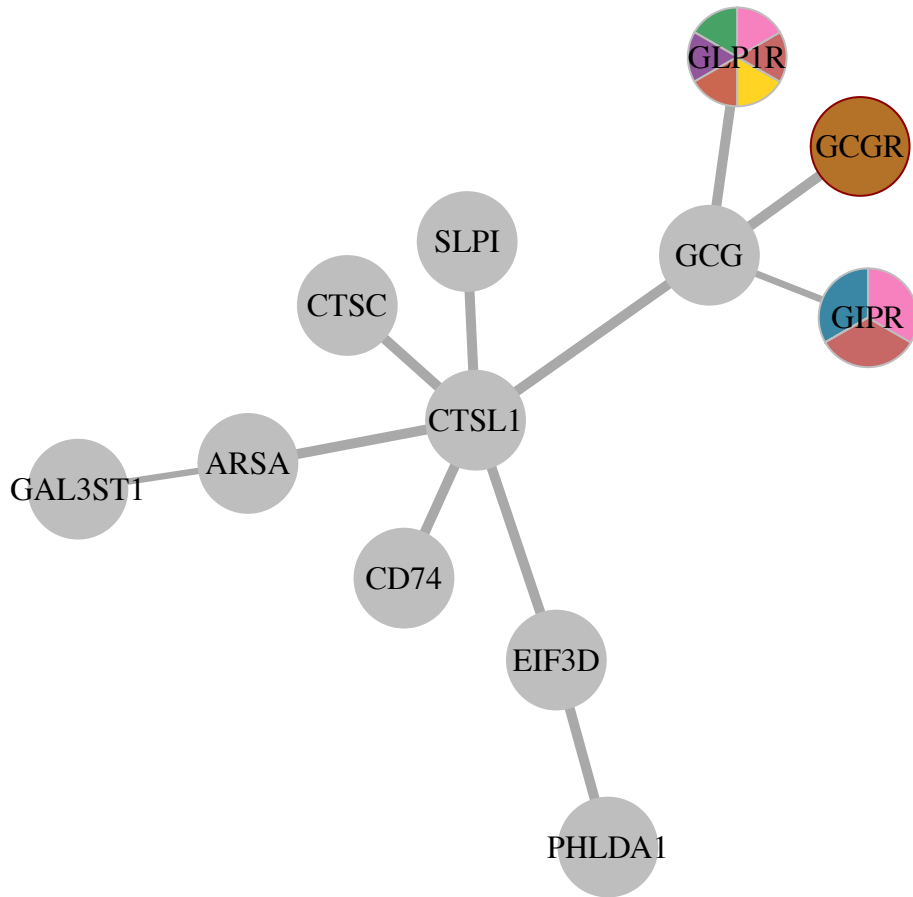
Emperical P-value: $1e-04$
Number of genes in complex: 17
Top coordinated expressed tissues: islet, Vagina, Cervix Uteri
Node color based on: Islet diabetic phenotype gene sets

Complex-17



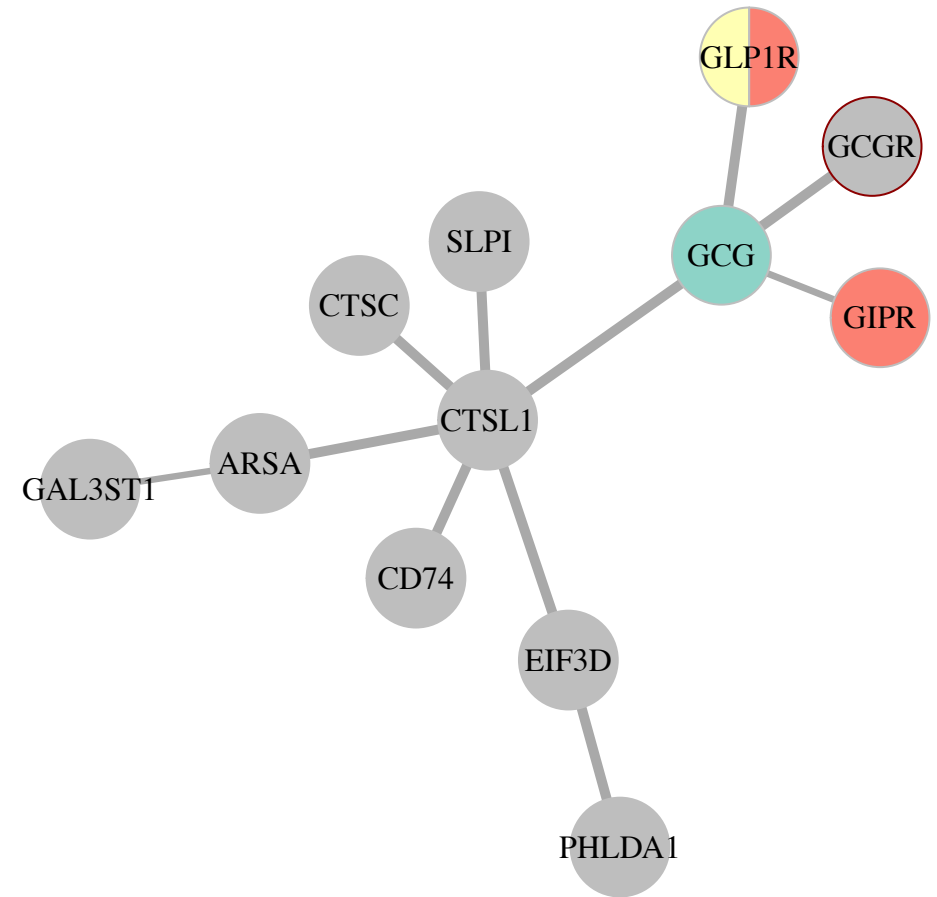
Emperical P-value: $1e-04$
Number of genes in complex: 17
Top coordinated expressed tissues: islet, Vagina, Cervix Uteri
Node color based on: Islet biology gene sets

Complex-18



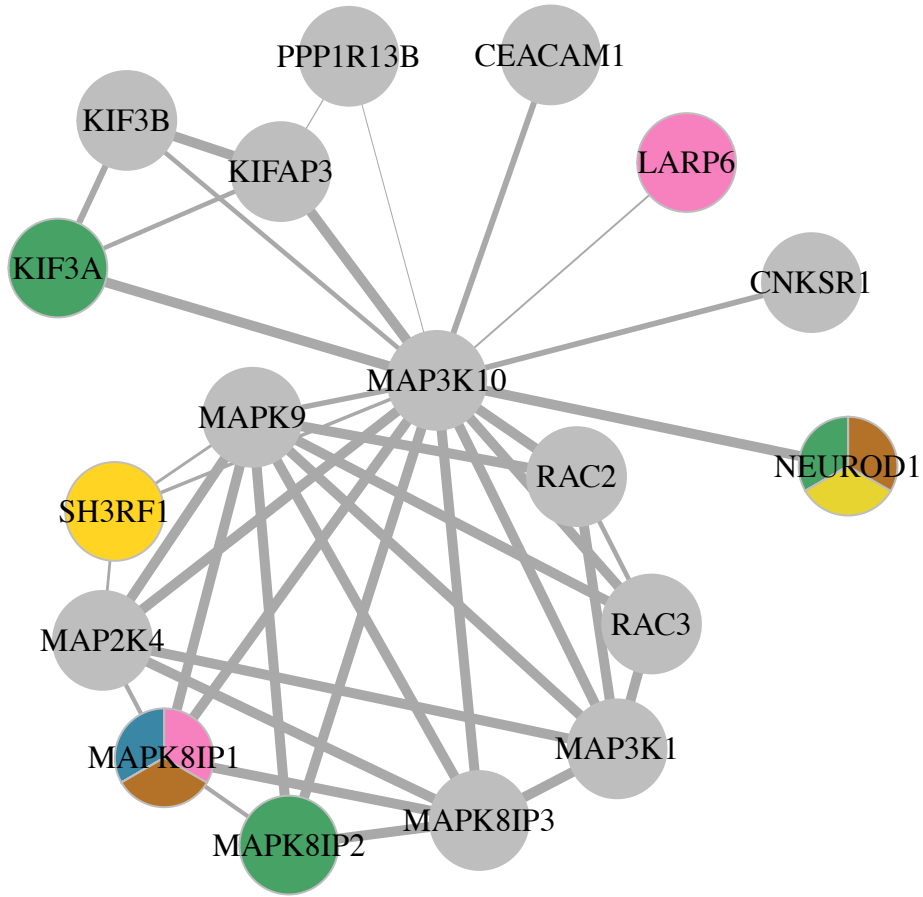
Emperical P-value: 0.00011
Number of genes in complex: 12
Top coordinated expressed tissues: Blood Vessel, Nerve, Thyroid
Node color based on: Islet diabetic phenotype gene sets

Complex-18



Emperical P-value: 0.00011
Number of genes in complex: 12
Top coordinated expressed tissues: Blood Vessel, Nerve, Thyroid
Node color based on: Islet biology gene sets

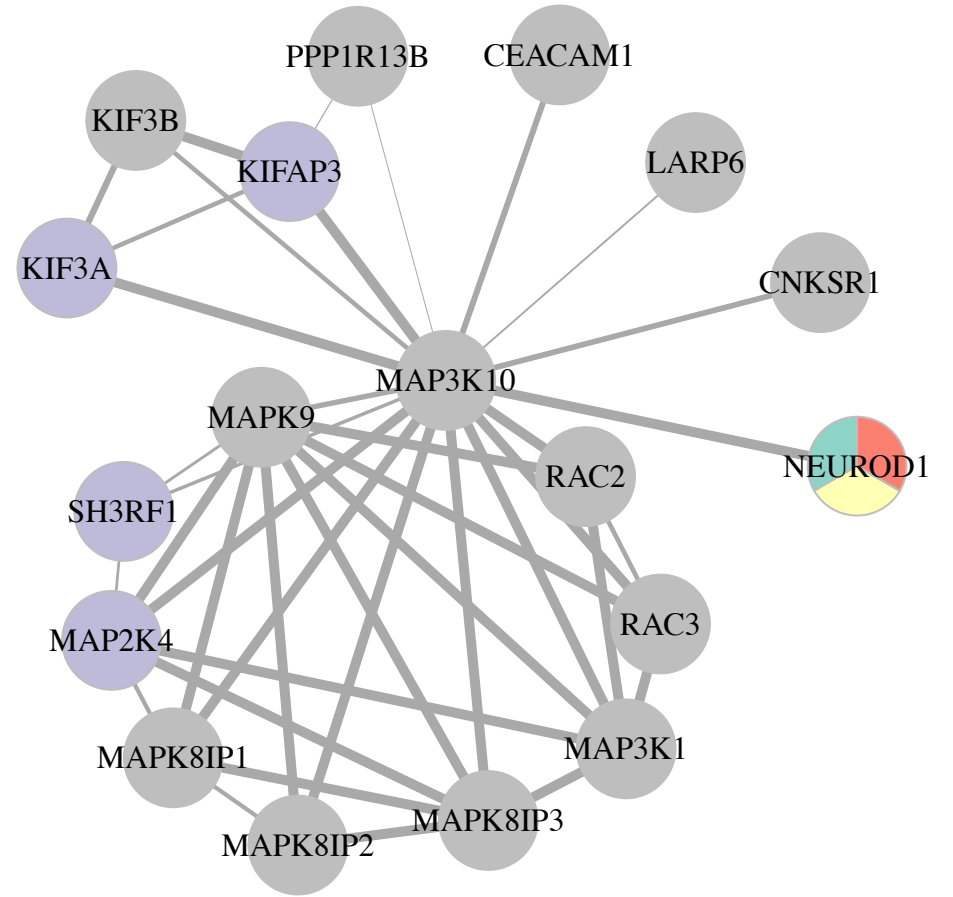
Complex-19



Emperical P-value: 0.00011
Number of genes in complex: 18
Top coordinated expressed tissues: Adrenal Gland, Prostate, Liver

Node color based on: Islet diabetic phenotype gene sets

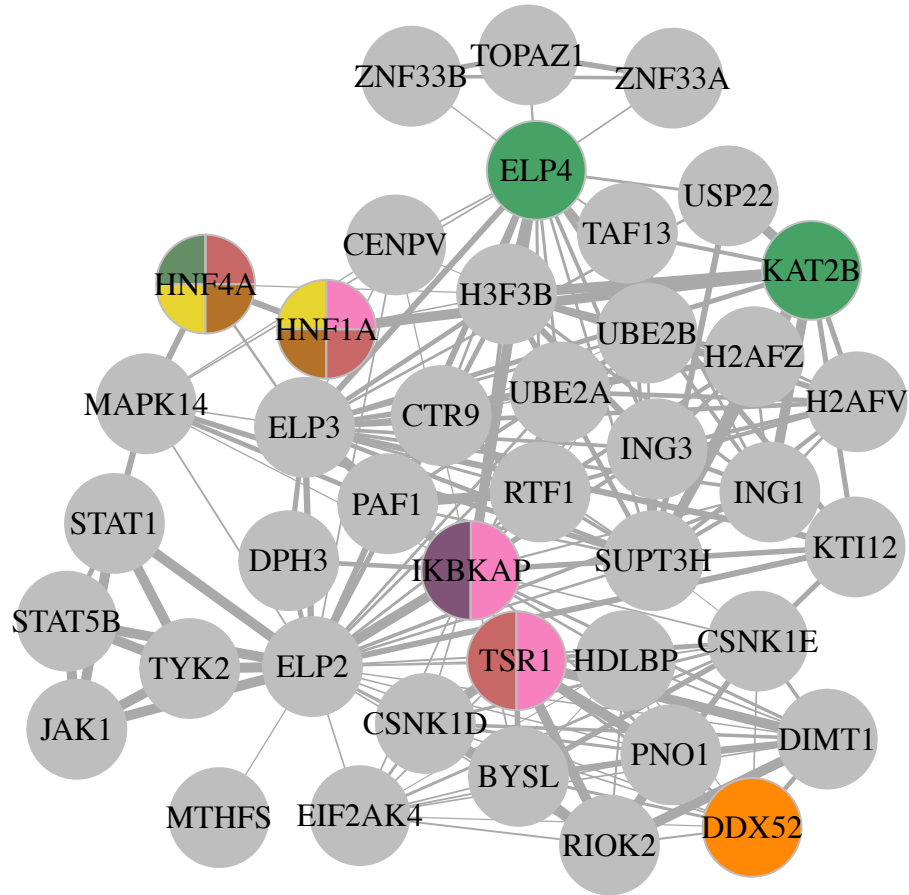
Complex-19



Emperical P-value: 0.00011
Number of genes in complex: 18
Top coordinated expressed tissues: Adrenal Gland, Prostate, Liver

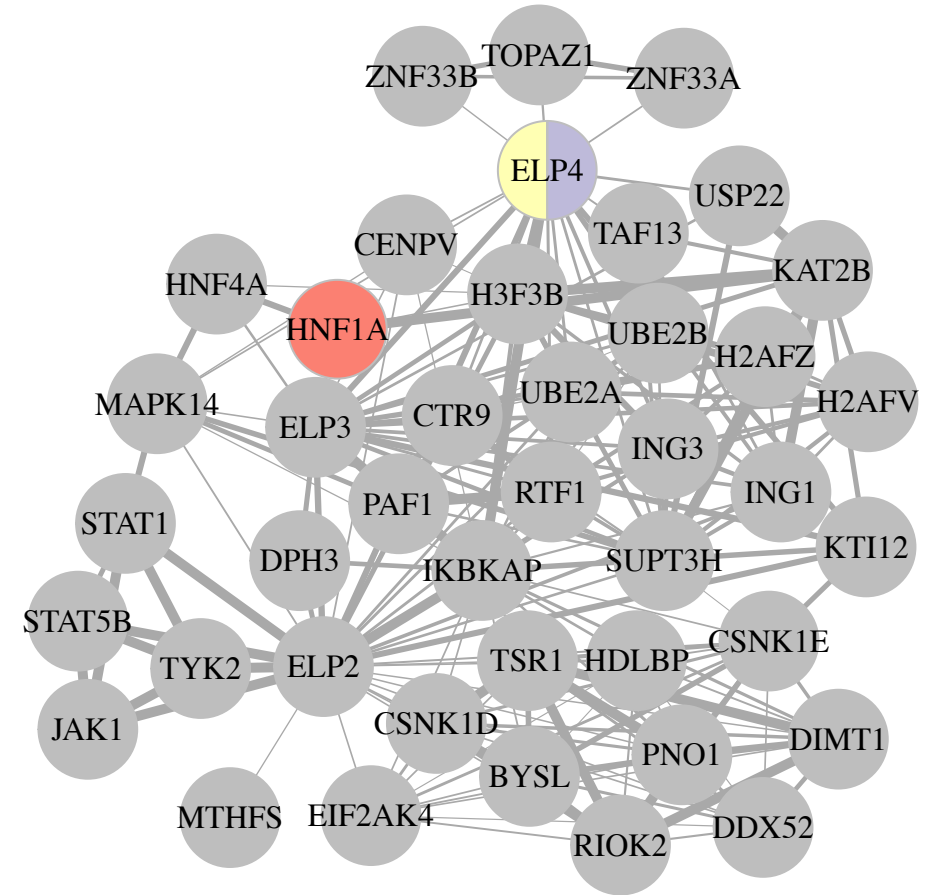
Node color based on: Islet biology gene sets

Complex-20



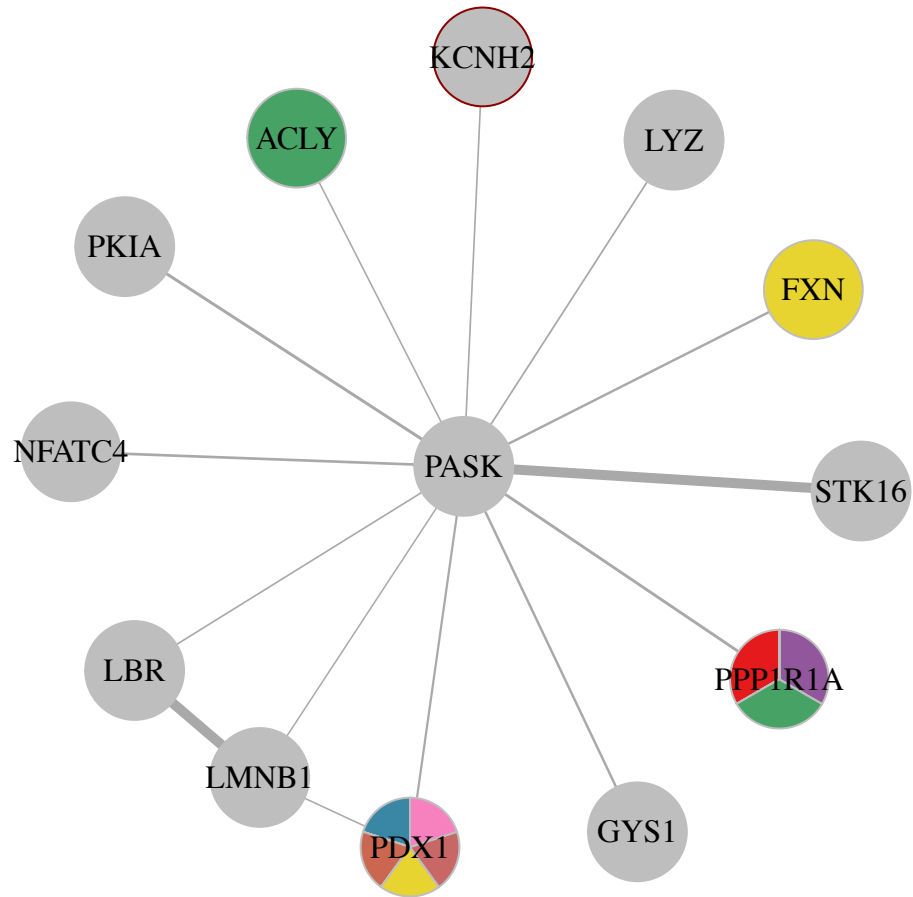
Emperical P-value: 0.00012
Number of genes in complex: 42
Top coordinated expressed tissues: Brain, Heart, Cervix Uteri
Node color based on: Islet diabetic phenotype gene sets

Complex-20



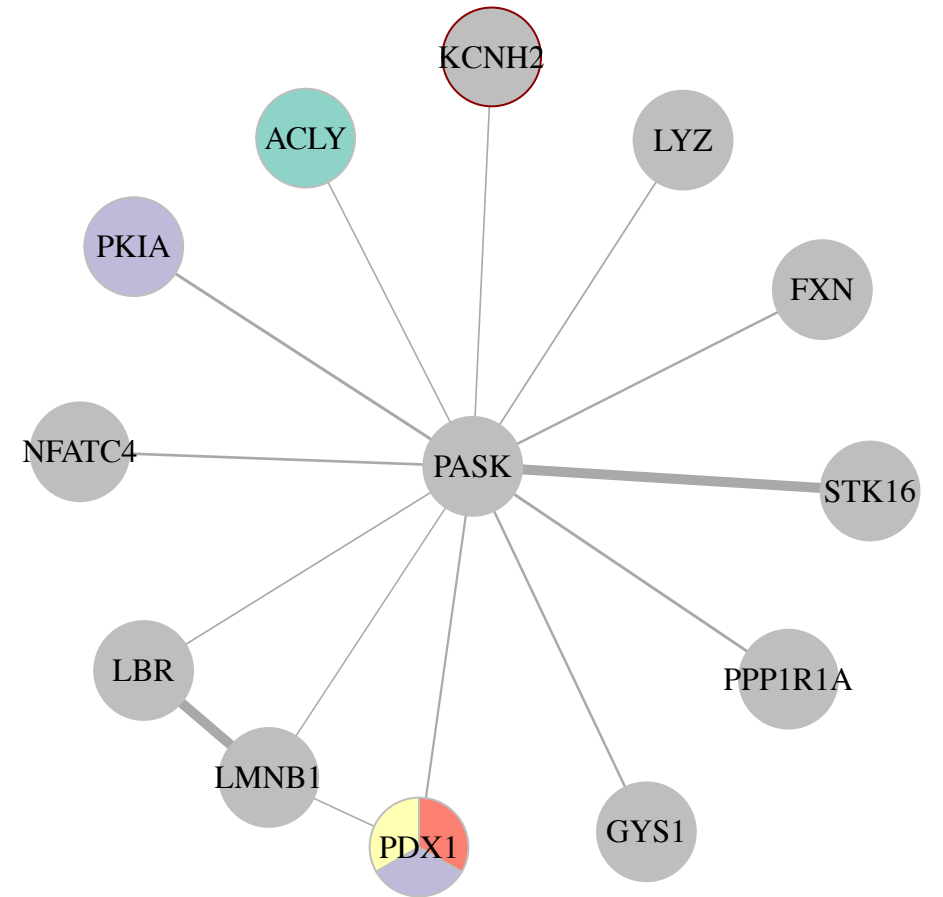
Emperical P-value: 0.00012
Number of genes in complex: 42
Top coordinated expressed tissues: Brain, Heart, Cervix Uteri
Node color based on: Islet biology gene sets

Complex-21



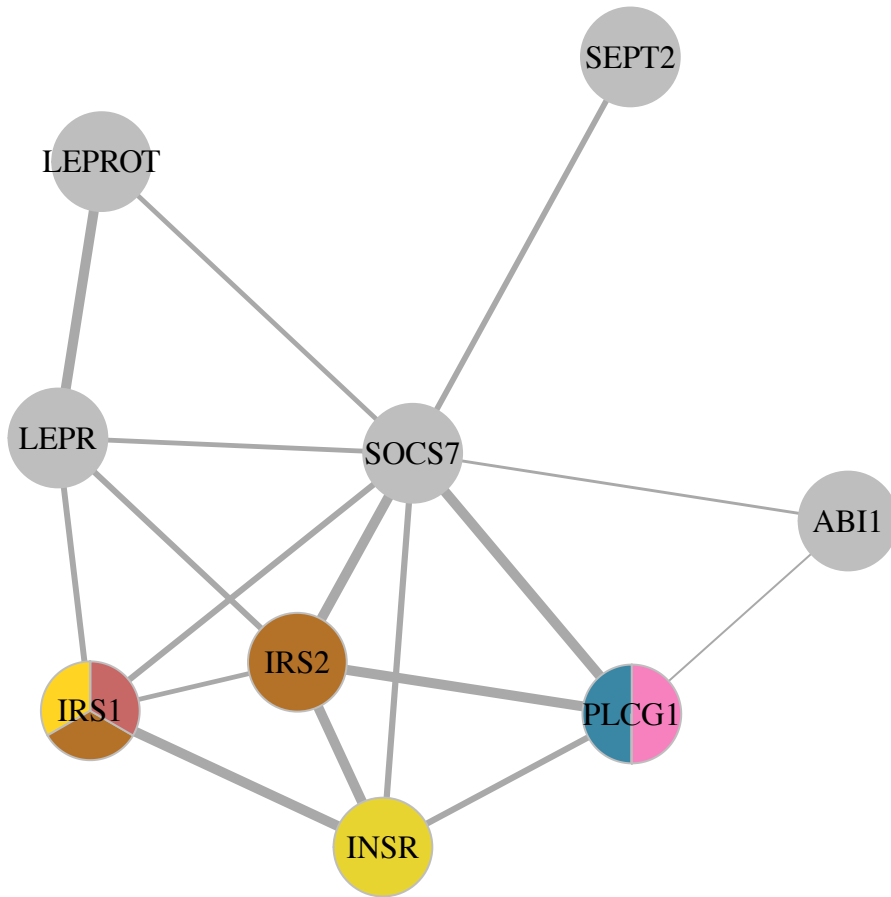
Emperical P-value: 0.00018
Number of genes in complex: 13
Top coordinated expressed tissues: Pituitary, Spleen, Liver
Node color based on: Islet diabetic phenotype gene sets

Complex-21



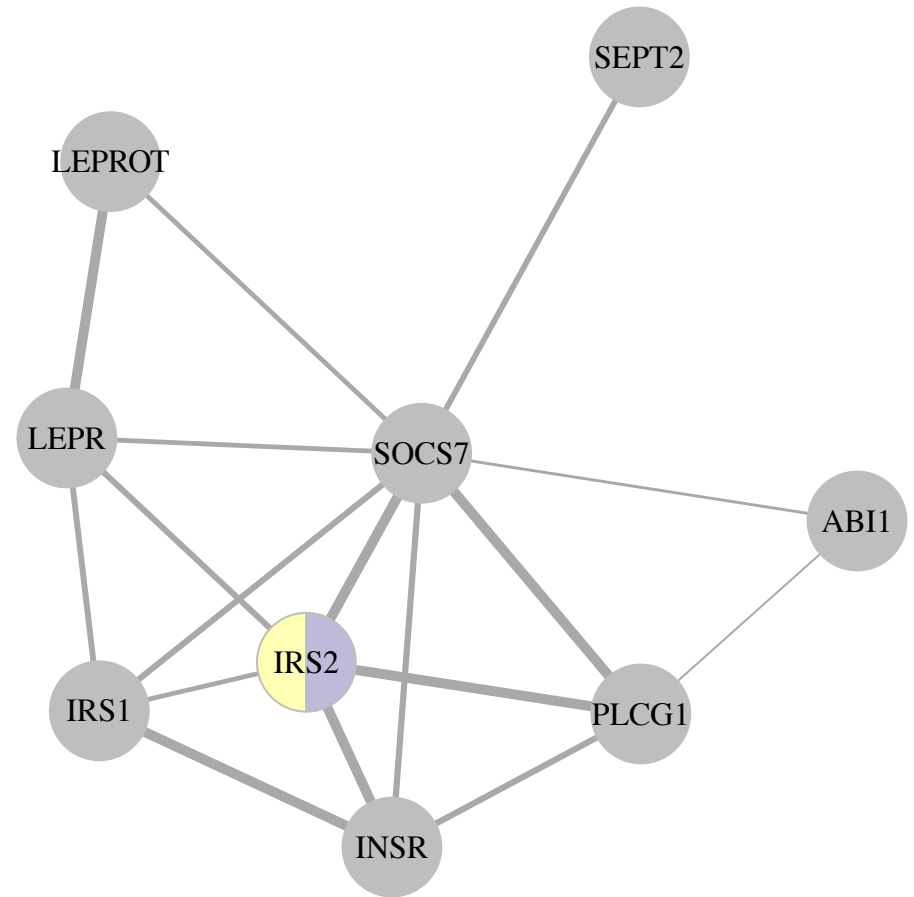
Emperical P-value: 0.00018
Number of genes in complex: 13
Top coordinated expressed tissues: Pituitary, Spleen, Liver
Node color based on: Islet biology gene sets

Complex-22



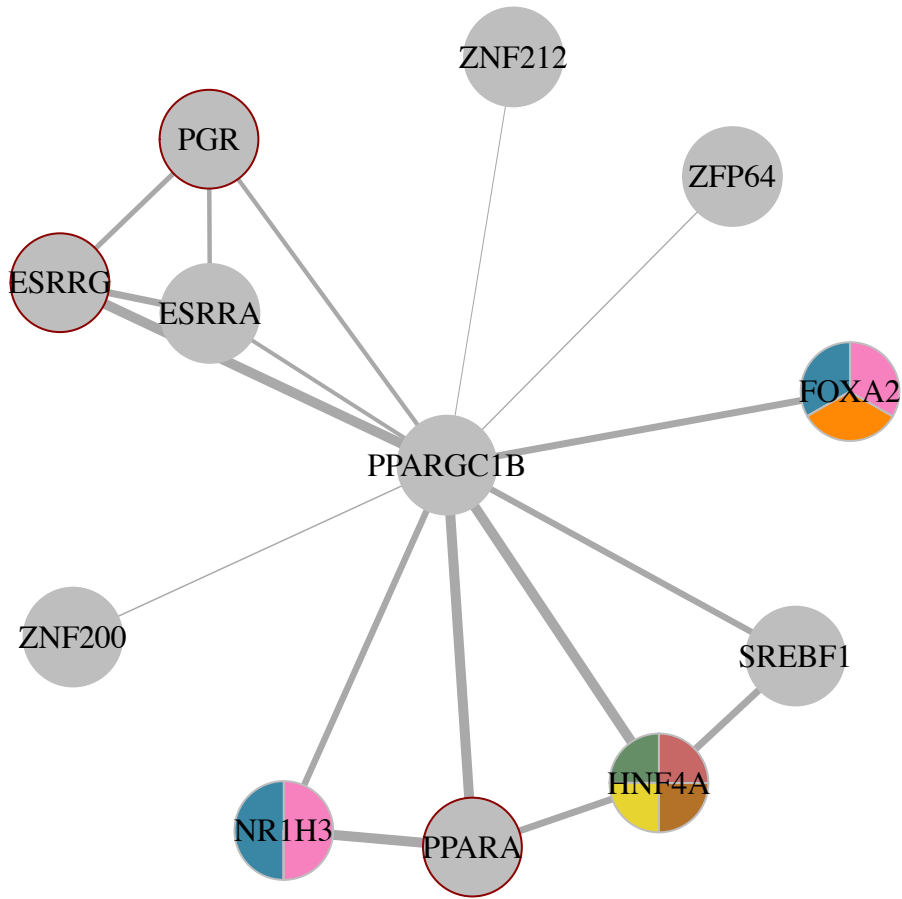
Emperical P-value: $2e-04$
Number of genes in complex: 9
Top coordinated expressed tissues: Ovary, nonbeta, Colon
Node color based on: Islet diabetic phenotype gene sets

Complex-22



Emperical P-value: $2e-04$
Number of genes in complex: 9
Top coordinated expressed tissues: Ovary, nonbeta, Colon
Node color based on: Islet biology gene sets

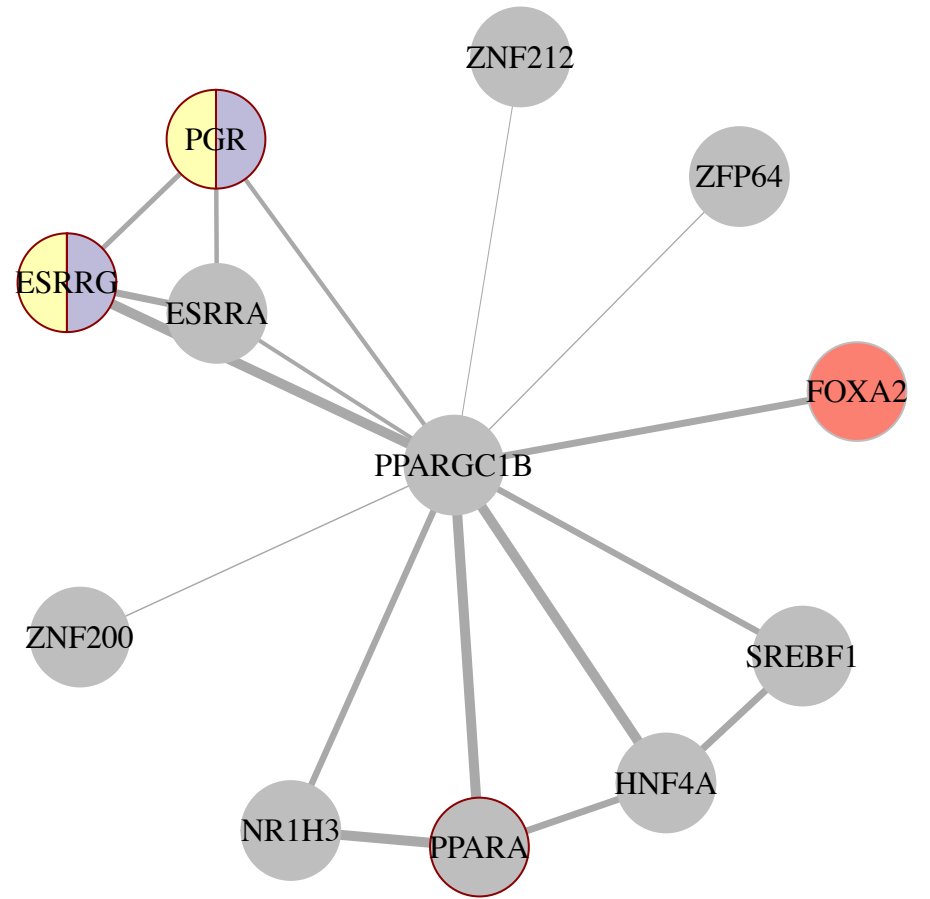
Complex-23



Emperical P-value: 0.00024
Number of genes in complex: 12
Top coordinated expressed tissues: Skin, beta, Colon

Node color based on: Islet diabetic phenotype gene sets

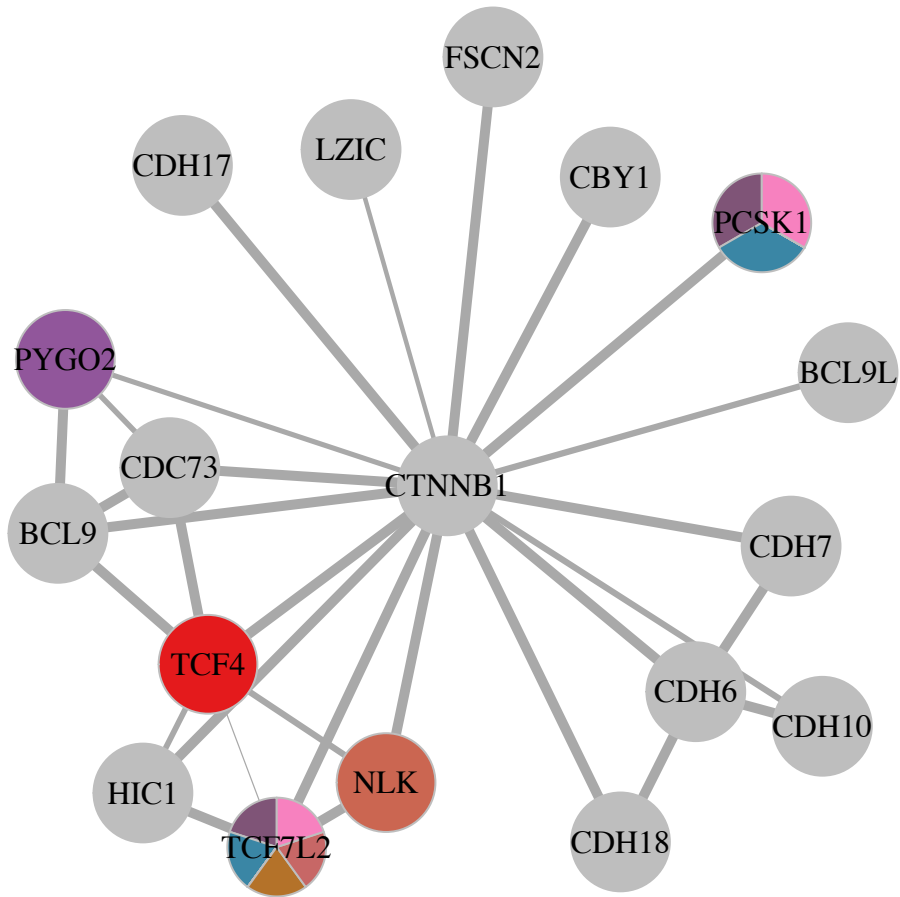
Complex-23



Emperical P-value: 0.00024
Number of genes in complex: 12
Top coordinated expressed tissues: Skin, beta, Colon

Node color based on: Islet biology gene sets

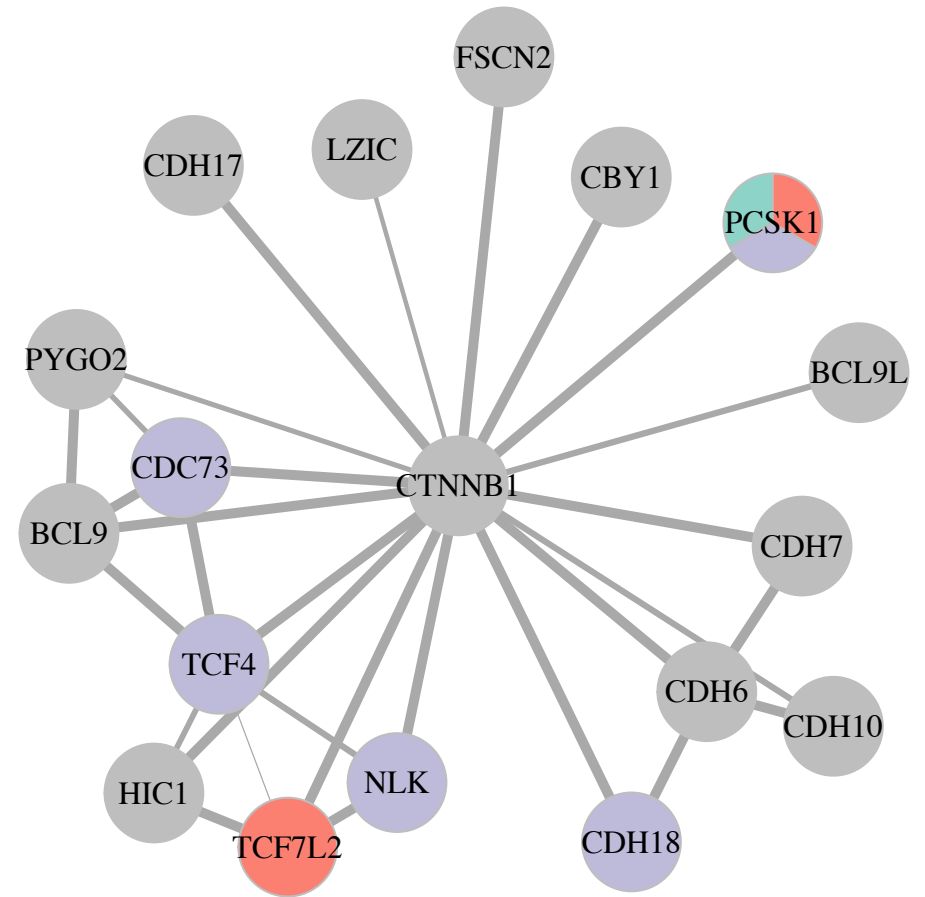
Complex-24



Emperical P-value: 0.00028
Number of genes in complex: 18
Top coordinated expressed tissues: Cervix Uteri, Vagina, Stomach

Node color based on: Islet diabetic phenotype gene sets

Complex-24



Emperical P-value: 0.00028
Number of genes in complex: 18
Top coordinated expressed tissues: Cervix Uteri, Vagina, Stomach

Node color based on: Islet biology gene sets