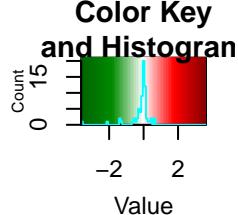
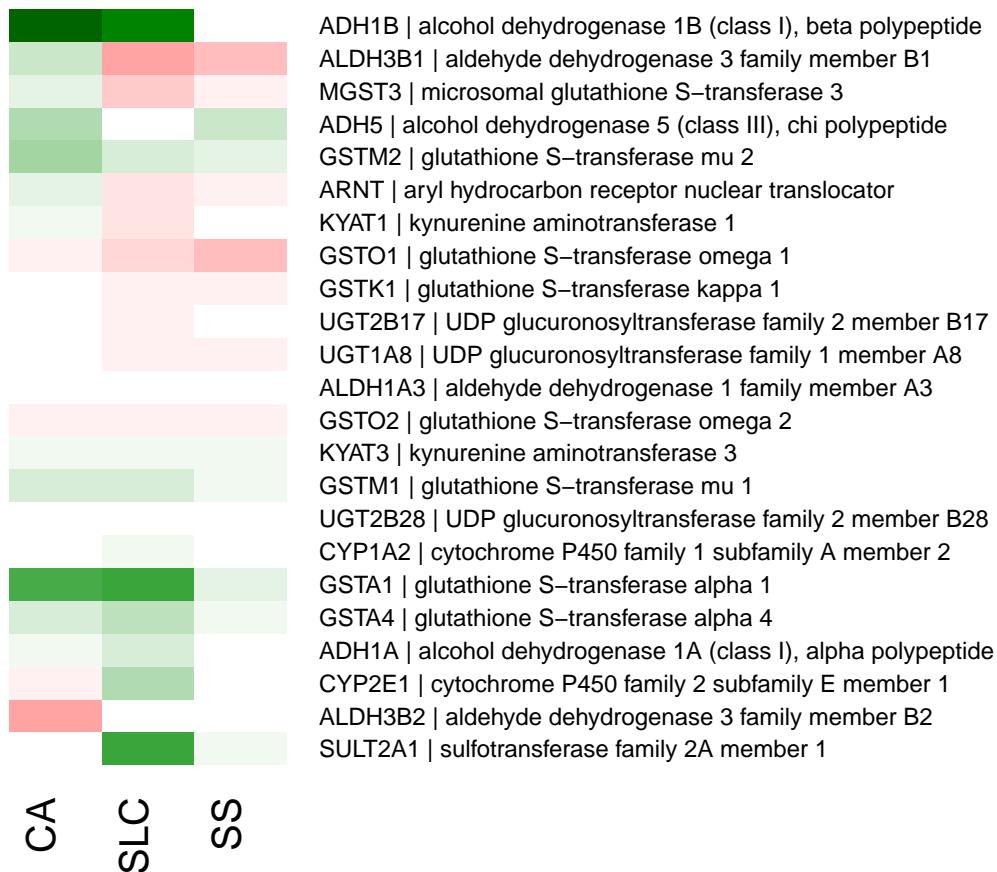


Gene-level heatmap for 66 pathways

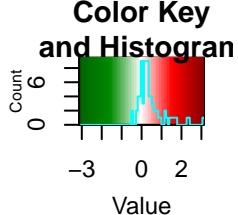


Chemical carcinogenesis

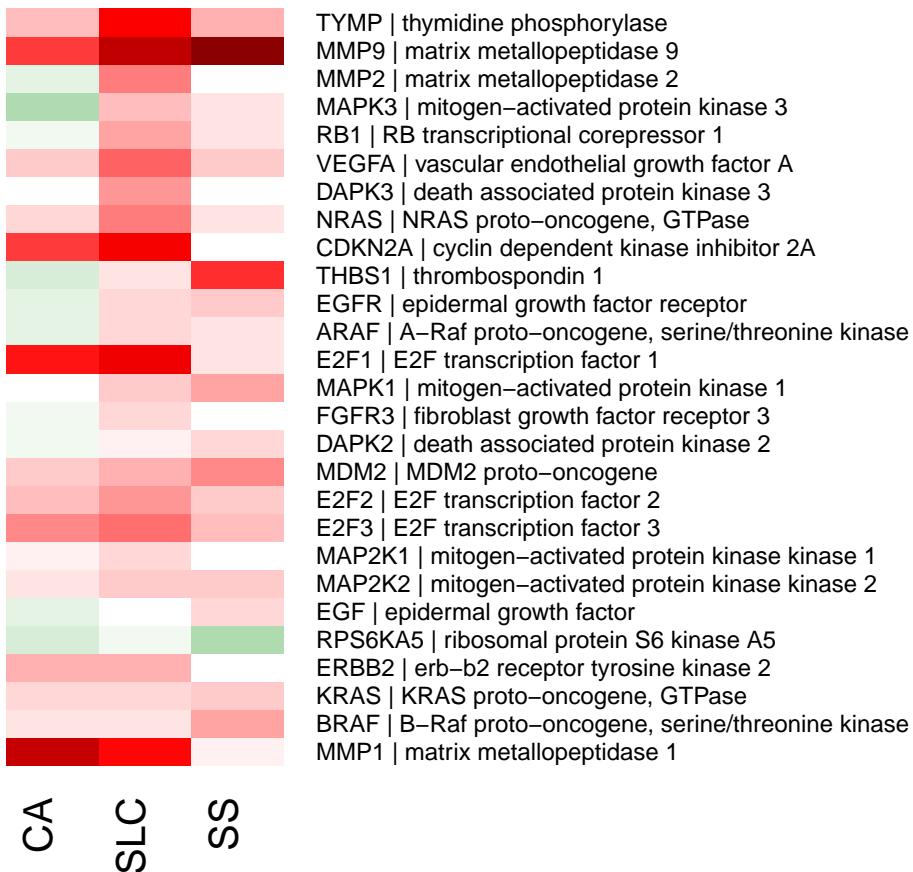
hsa05204



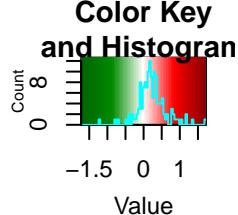
Cancer



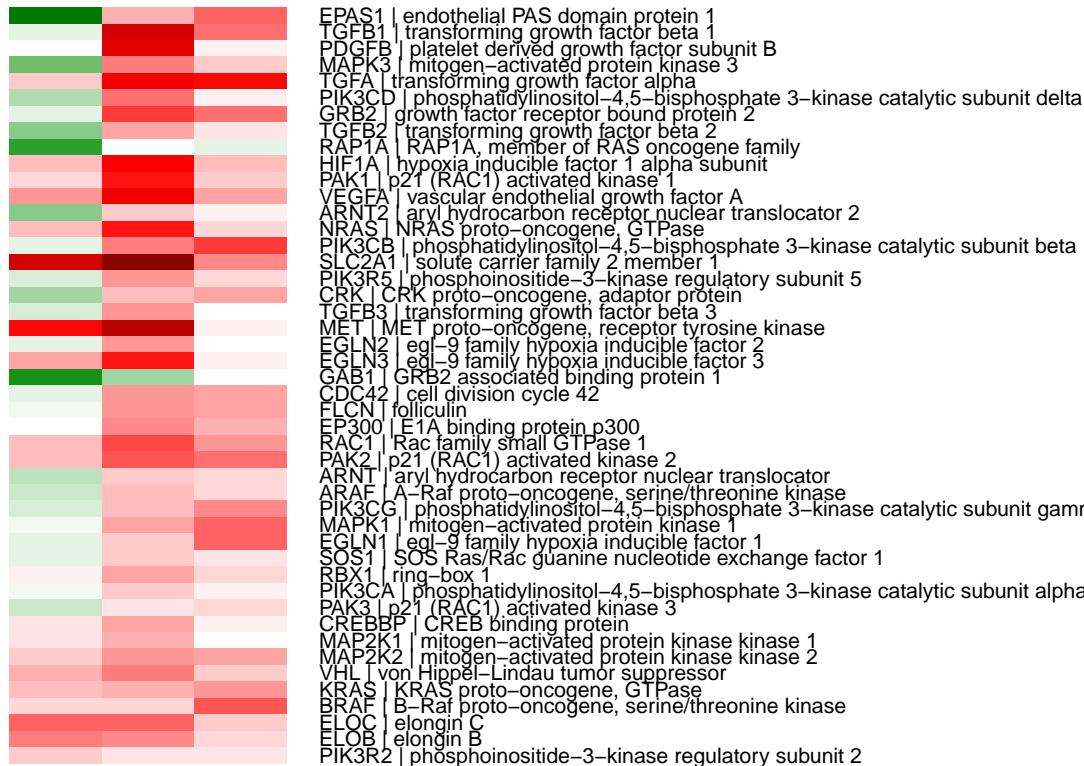
Bladder cancer hsa05219



Cancer



Renal cell carcinoma hsa05211

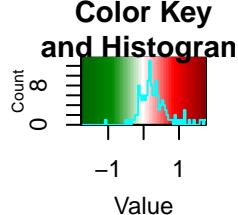


CA

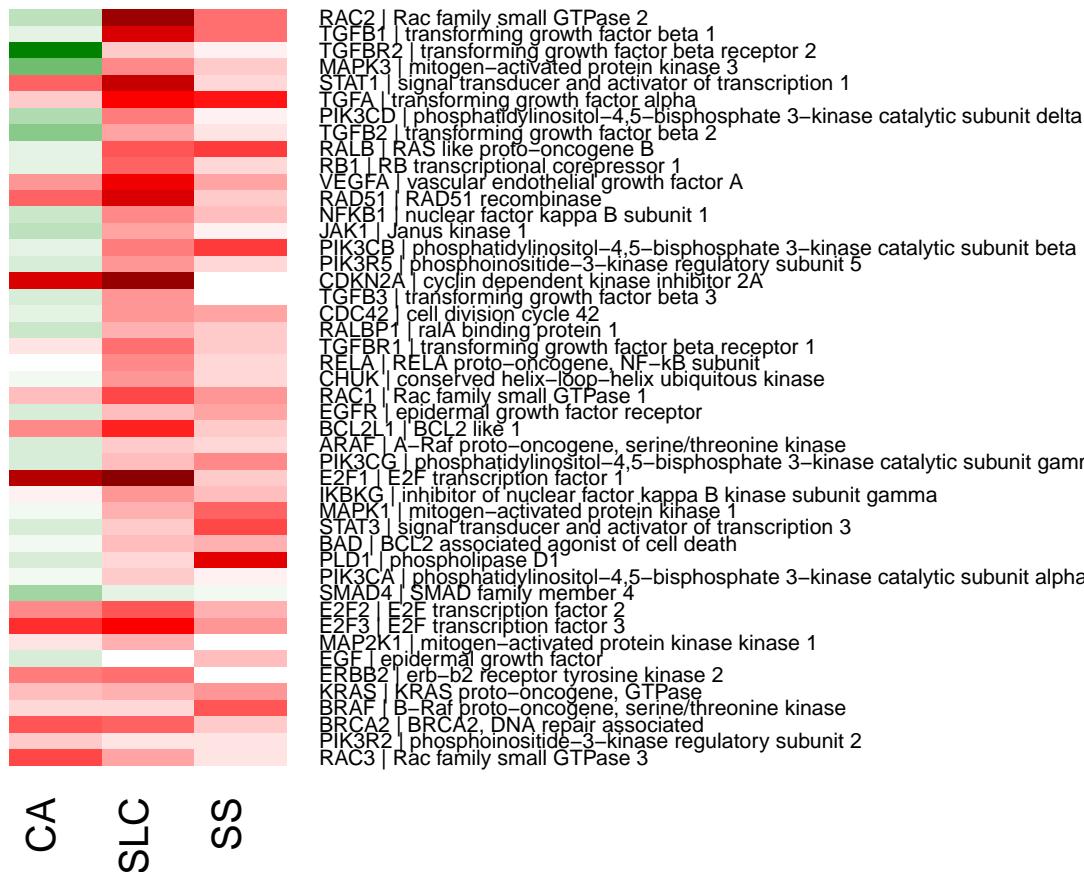
SLC

SS

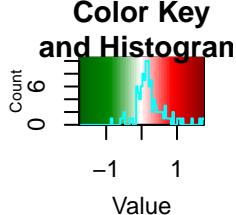
Cancer



Pancreatic cancer hsa05212



Cancer

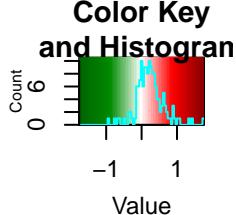


Glioma hsa05214



PDGFB | platelet derived growth factor subunit B
 PRKCB | protein kinase C beta
 MAPK3 | mitogen-activated protein kinase 3
 SHC1 | SHC adaptor protein 1
 TGFA | transforming growth factor alpha
 PIK3CD | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta
 GRB2 | growth factor receptor bound protein 2
 PLCG2 | phospholipase C gamma 2
 CAMK2G | calcium/calmodulin dependent protein kinase II gamma
 RB1 | RB transcriptional corepressor 1
 NRAS | NRAS proto-oncogene, GTPase
 PIK3CB | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
 PIK3R5 | phosphoinositide-3-kinase regulatory subunit 5
 CDKN2A | cyclin dependent kinase inhibitor 2A
 EGFR | epidermal growth factor receptor
 ARAF | A-Raf proto-oncogene, serine/threonine kinase
 PIK3CG | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
 PTEN | phosphatase and tensin homolog
 E2F1 | E2F transcription factor 1
 MAPK1 | mitogen-activated protein kinase 1
 SOS1 | SOS Ras/Rac guanine nucleotide exchange factor 1
 PIK3CA | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha
 MDM2 | MDM2 proto-oncogene
 E2F2 | E2F transcription factor 2
 SHC3 | SHC adaptor protein 3
 E2F3 | E2F transcription factor 3
 MAP2K1 | mitogen-activated protein kinase kinase 1
 MAP2K2 | mitogen-activated protein kinase kinase 2
 EGF | epidermal growth factor
 SHC2 | SHC adaptor protein 2
 SHC4 | SHC adaptor protein 4
 PRKCG | protein kinase C gamma
 KRAS | KRAS proto-oncogene, GTPase
 BRAF | B-Raf proto-oncogene, serine/threonine kinase
 PIK3R2 | phosphoinositide-3-kinase regulatory subunit 2
 CALML3 | calmodulin like 3

Cancer



Prostate cancer hsa05215



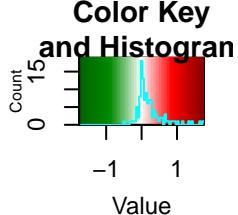
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SLC

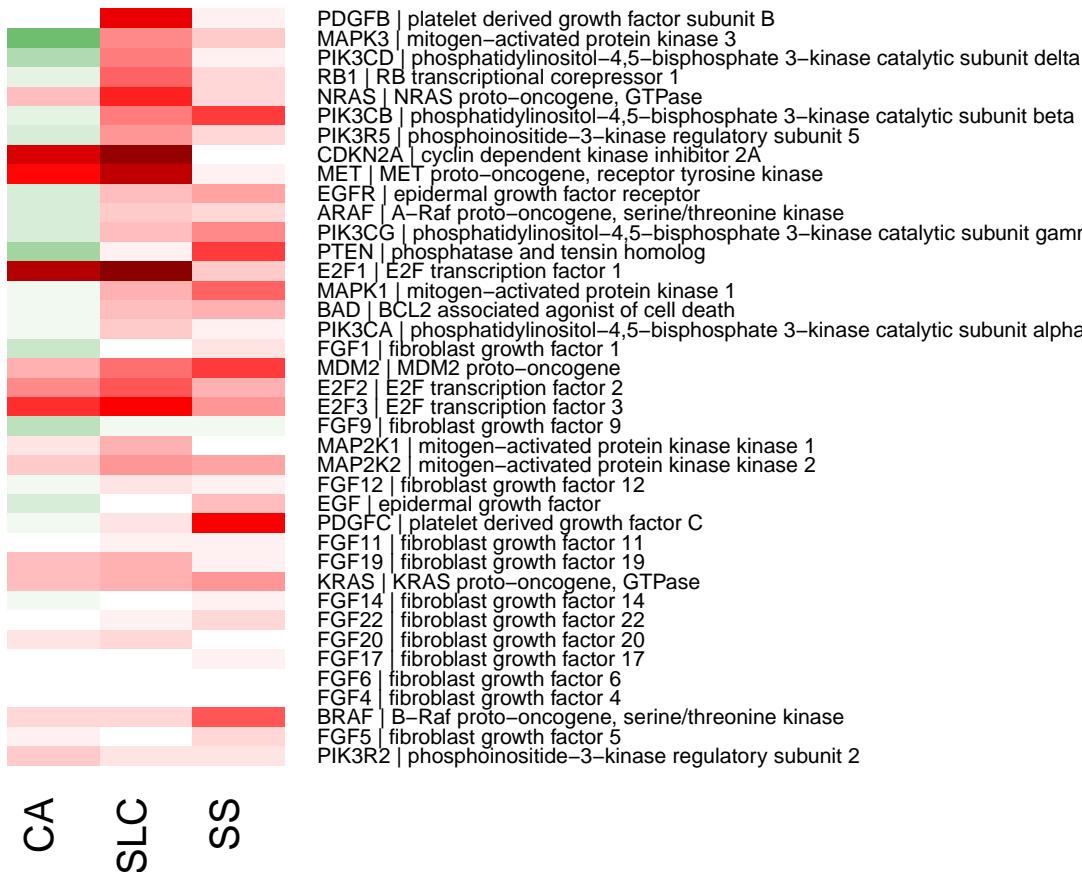
SS

TCF7L1 | transcription factor 7 like 1
 PDGFB | platelet derived growth factor subunit B
 NFKB1A | NF-kB inhibitor alpha
 MAPK3 | mitogen-activated protein kinase 3
 TGF- α | transforming growth factor alpha
 BCL2 | BCL2, apoptosis regulator
 PIK3CD | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta
 CTNBB1 | catenin beta 1
 GRB2 | growth factor receptor bound protein 2
 TCF7L2 | transcription factor 7 like 2
 POU1F1 | POU class 1 transcriptional corepressor 1
 NFKB1 | nuclear factor kappa B subunit 1
 NRAS | NRAS proto-oncogene, GTPase
 PIK3CB | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
 PIK3R5 | phosphoinositide-3-kinase regulatory subunit 5
 CREB3 | cAMP responsive element binding protein 3
 CREB3L2 | cAMP responsive element binding protein 3 like 2
 RELA | RELA proto-oncogene, NF-kB subunit
 E1A | E1A binding protein p300
 CHUK | conserved helix-loop-helix ubiquitous kinase
 EGFR | epidermal growth factor receptor
 ARAF | A-Raf proto-oncogene, serine/threonine kinase
 PIK3CG | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
 PTEN | phosphatase and tensin homolog
 E2F1 | E2F transcription factor 1
 IKKKG | inhibitor of nuclear factor kappa B kinase subunit gamma
 FOXO1 | forkhead box O1
 MAPK1 | mitogen-activated protein kinase 1
 SOS1 | SOS Ras/Rac guanine nucleotide exchange factor 1
 BAD | BCL2 associated agonist of cell death
 CCNE1 | cyclin E1
 CDK2 | cyclin dependent kinase 2
 PIK3CA | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha
 CREB5 | cAMP responsive element binding protein 5
 MDM2 | MDM2 proto-oncogene
 E2F2 | E2F transcription factor 2
 E2F3 | E2F transcription factor 3
 GSK3B | glycogen synthase kinase 3 beta
 PIK3R4 | phosphoinositide dependent protein kinase 1
 OREBP | CREB binding protein
 E2F3L | E2F transcription factor 3L
 MAP2K1 | mitogen-activated protein kinase kinase 1
 MAP2K2 | mitogen-activated protein kinase kinase 2
 EGF | epidermal growth factor
 PDGFC | platelet derived growth factor C
 ERBB2 | erb-b2 receptor tyrosine kinase 2
 CCNE2 | cyclin E2
 KRAS | KRAS proto-oncogene, GTPase
 BRAF | B-Raf proto-oncogene, serine/threonine kinase
 PIK3R2 | phosphoinositide-3-kinase regulatory subunit 2

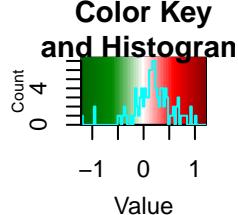
Cancer



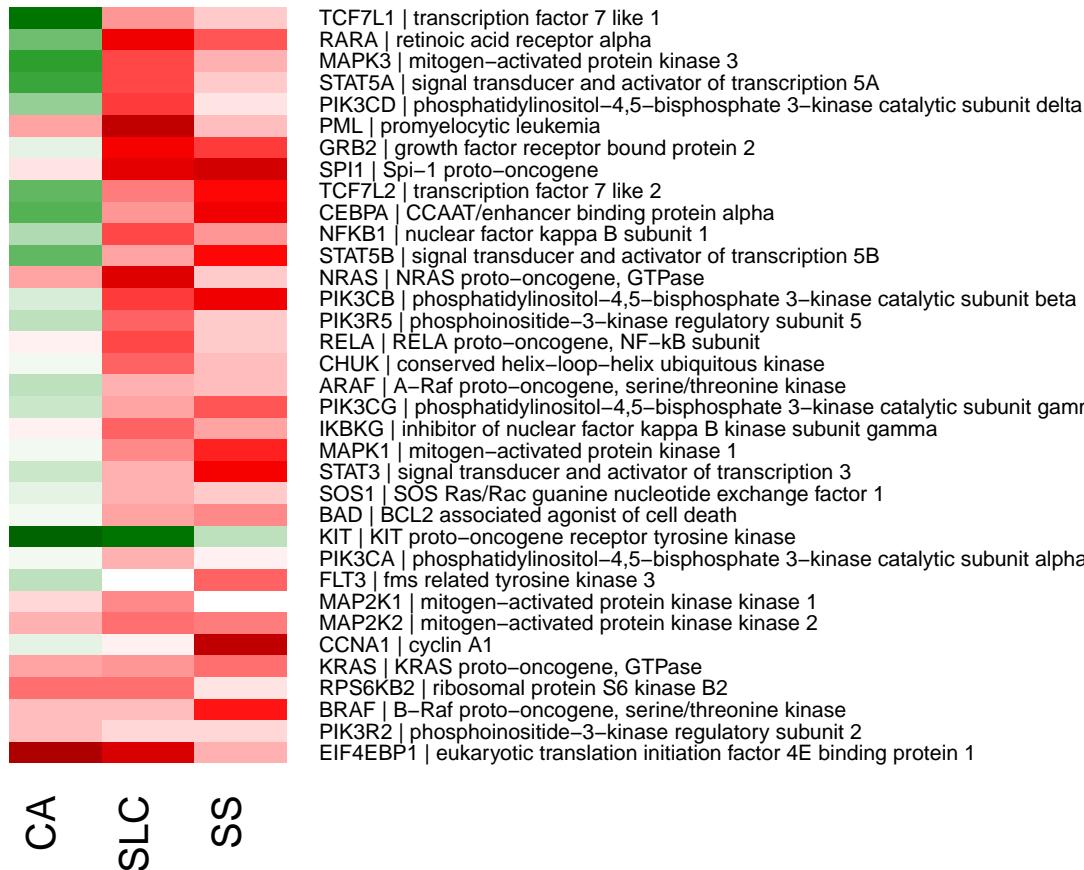
Melanoma hsa05218



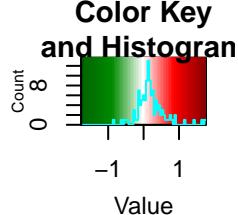
Cancer



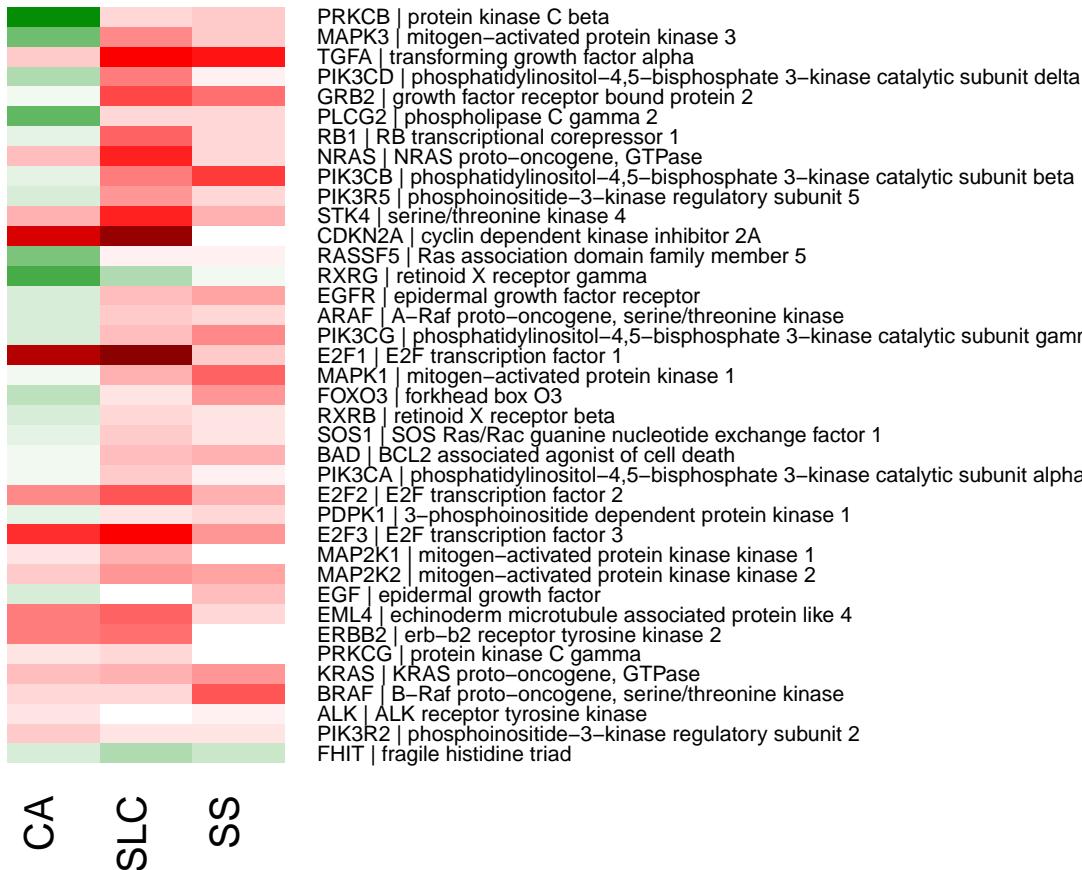
Acute myeloid leukemia hsa05221



Cancer



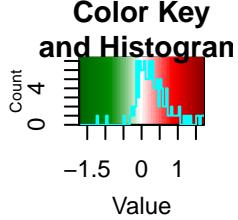
Non-small cell lung cancer hsa05223



Cancer

Central carbon metabolism in cancer

hsa05230



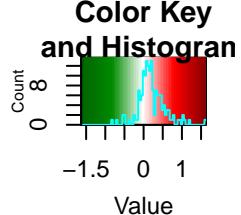
CA

SLC

SS

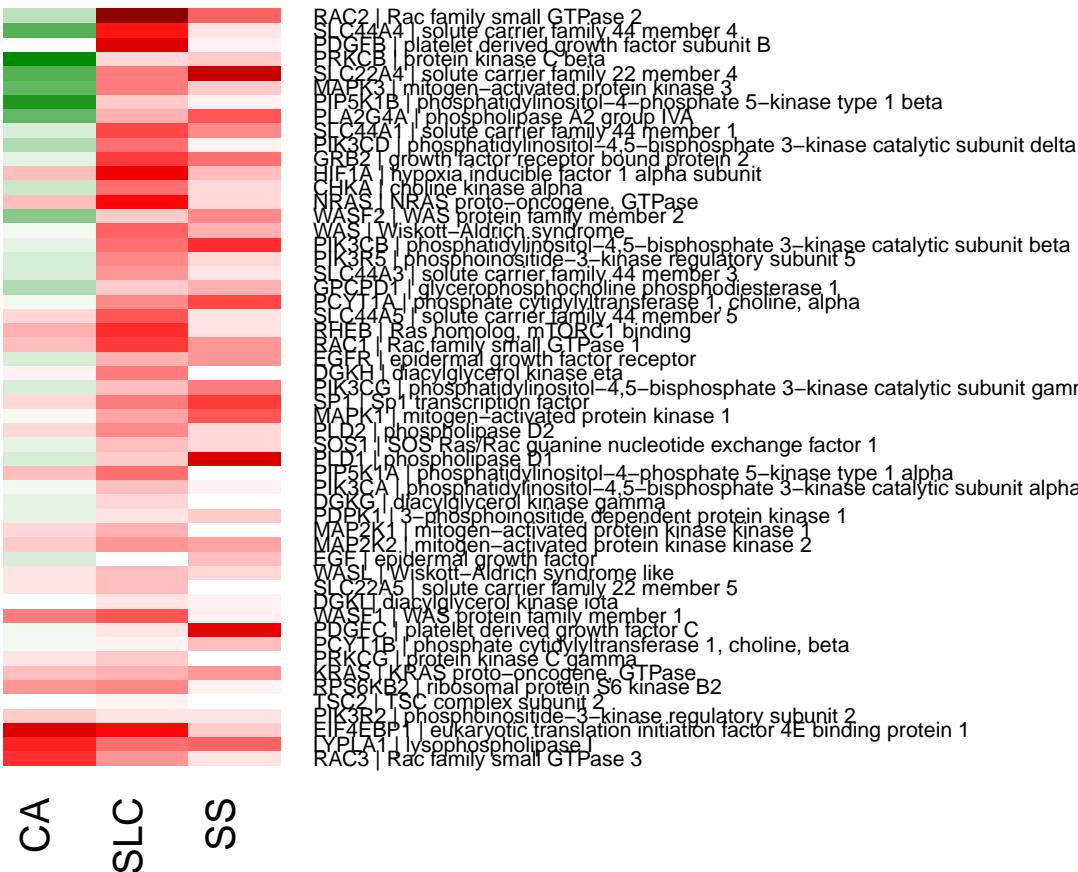
HKDC1 | hexokinase domain containing 1
 MAPK3 | mitogen-activated protein kinase 3
 PIK3CD | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta
 HIF1A | hypoxia inducible factor 1 alpha subunit
 SLC1A5 | solute carrier family 1 member 5
 SLC16A3 | solute carrier family 16 member 3
 NRAS | NRAS proto-oncogene, GTPase
 PIK3CB | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
 SLC2A1 | solute carrier family 2 member 1
 HK2 | hexokinase 2
 PIK3R5 | phosphoinositide-3-kinase regulatory subunit 5
 MET | MET proto-oncogene, receptor tyrosine kinase
 EGFR | epidermal growth factor receptor
 SIRT6 | sirtuin 6
 PIK3CG | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
 PTEN | phosphatase and tensin homolog
 G6PD | glucose-6-phosphate dehydrogenase
 TIGAR | TP53 induced glycolysis regulatory phosphatase
 MAPK1 | mitogen-activated protein kinase 1
 FGFR3 | fibroblast growth factor receptor 3
 HK3 | hexokinase 3
 KIT | KIT proto-oncogene receptor tyrosine kinase
 PIK3CA | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha
 PKM | pyruvate kinase M1/2
 SCO2 | SCO2, cytochrome c oxidase assembly protein
 FLT3 | fms related tyrosine kinase 3
 PGAM1 | phosphoglycerate mutase 1
 MAP2K1 | mitogen-activated protein kinase kinase 1
 MAP2K2 | mitogen-activated protein kinase kinase 2
 NTRK3 | neurotrophic receptor tyrosine kinase 3
 PFKM | phosphofructokinase, muscle
 SIRT3 | sirtuin 3
 ERBB2 | erb-b2 receptor tyrosine kinase 2
 LDHA | lactate dehydrogenase A
 KRAS | KRAS proto-oncogene, GTPase
 IDH1 | isocitrate dehydrogenase (NADP(+)) 1, cytosolic
 PIK3R2 | phosphoinositide-3-kinase regulatory subunit 2
 PDHA1 | pyruvate dehydrogenase E1 alpha 1 subunit
 PDHB | pyruvate dehydrogenase E1 beta subunit
 GLS2 | glutaminase 2
 SLC7A5 | solute carrier family 7 member 5

Cancer

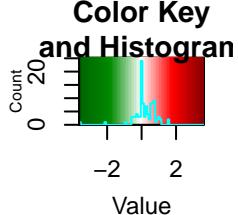


Choline metabolism in cancer

hsa05231

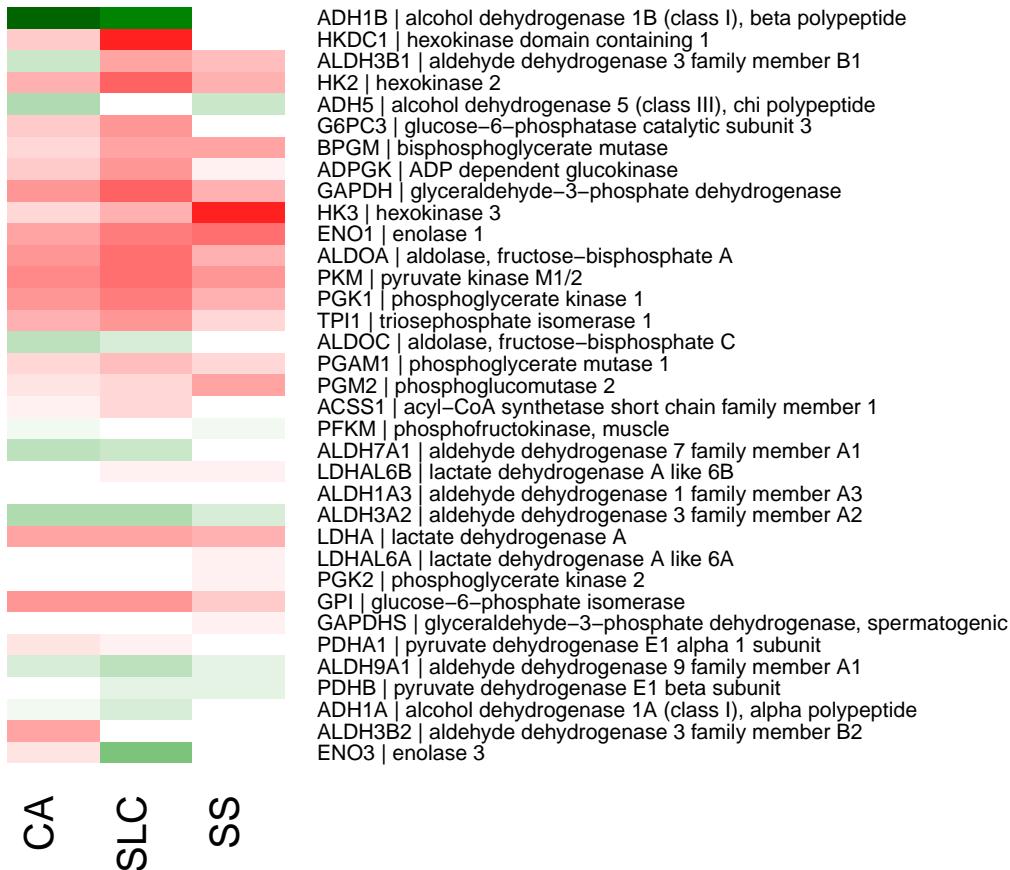


Cancer

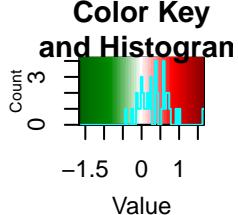


Glycolysis / Gluconeogenesis

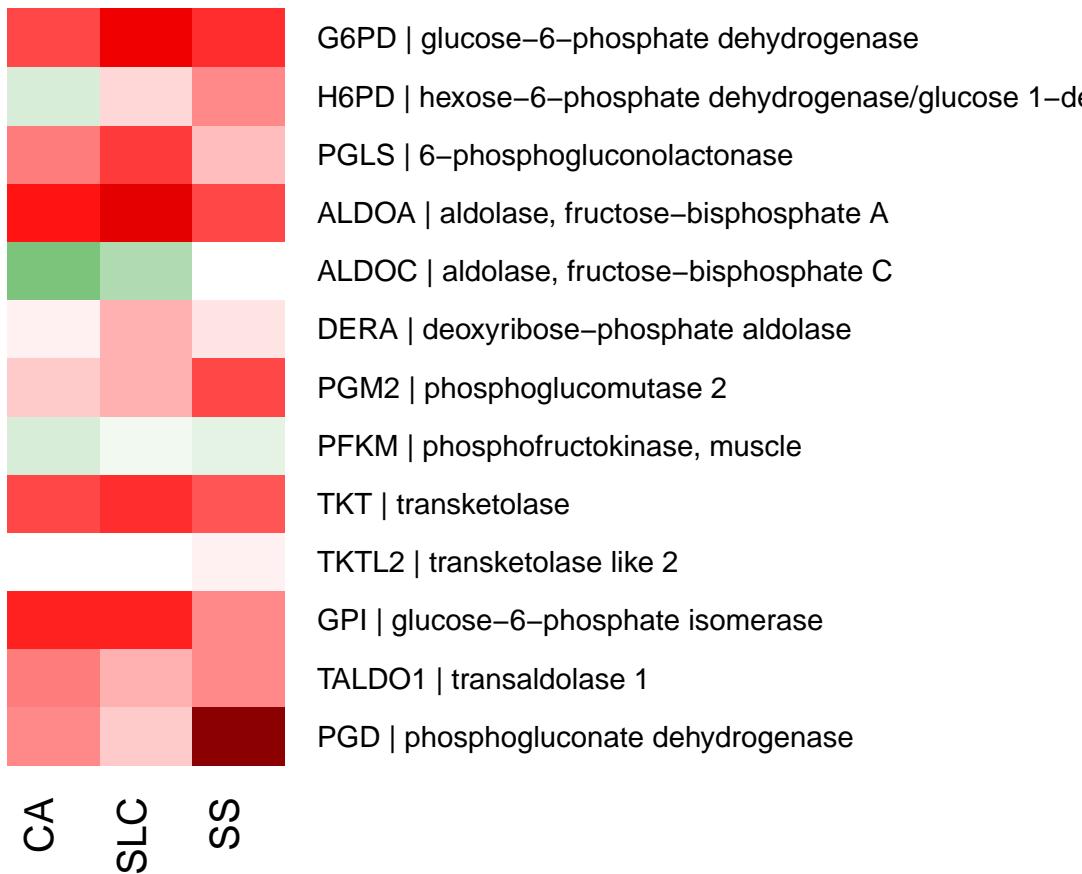
hsa00010



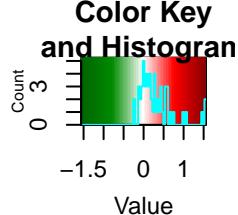
Carbohydrate metabolism



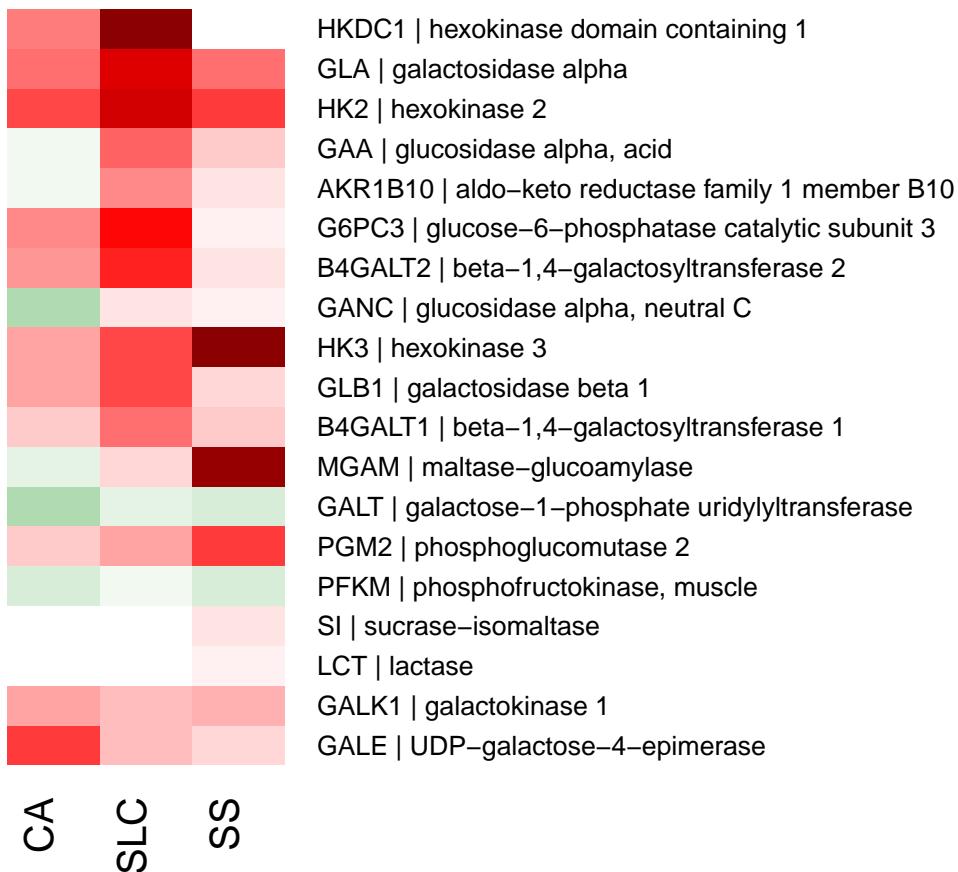
Pentose phosphate pathway hsa00030



Carbohydrate metabolism

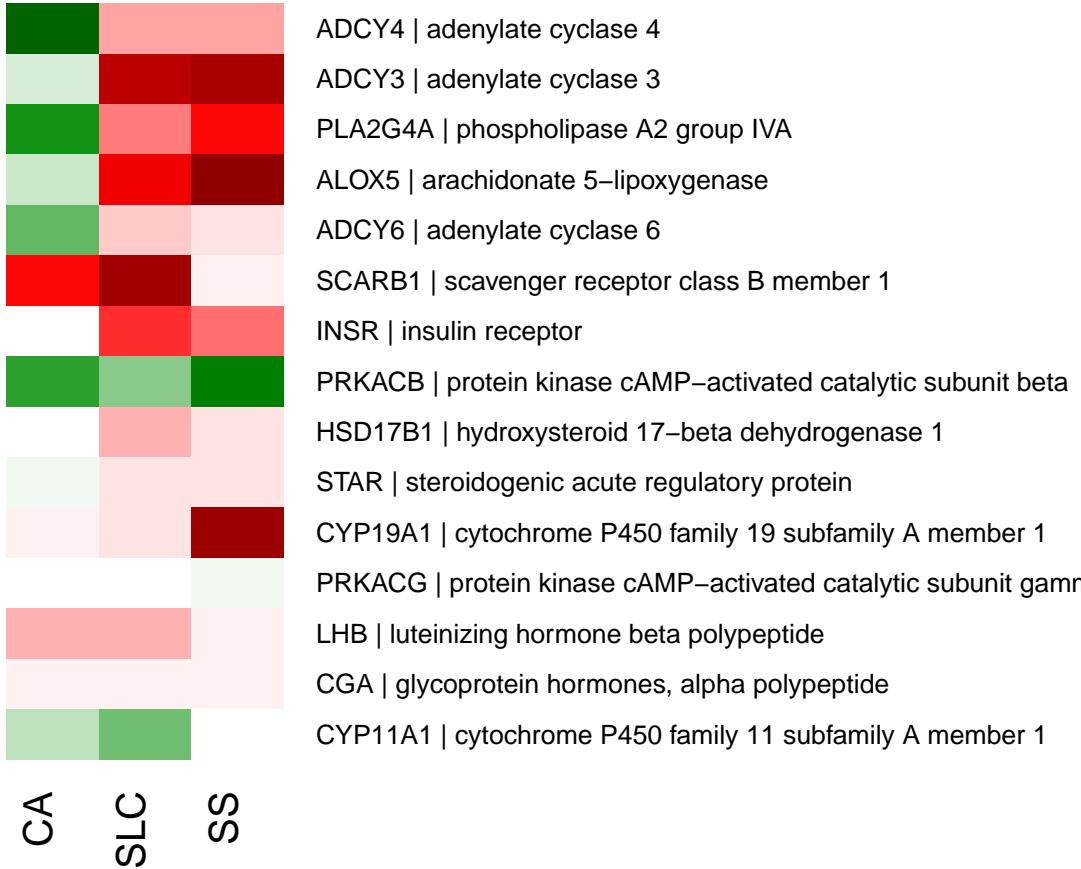
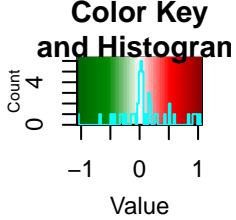


Galactose metabolism hsa00052

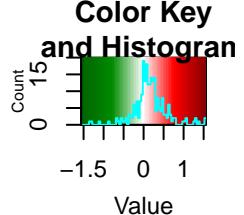


Carbohydrate metabolism

Ovarian steroidogenesis hsa04913

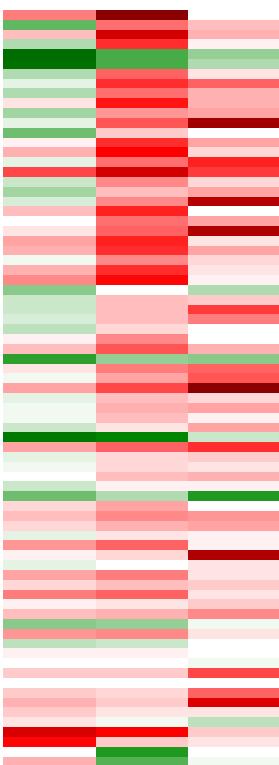


Endocrine system



Insulin signaling pathway

hsa04910



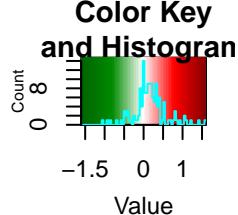
CA

SLC

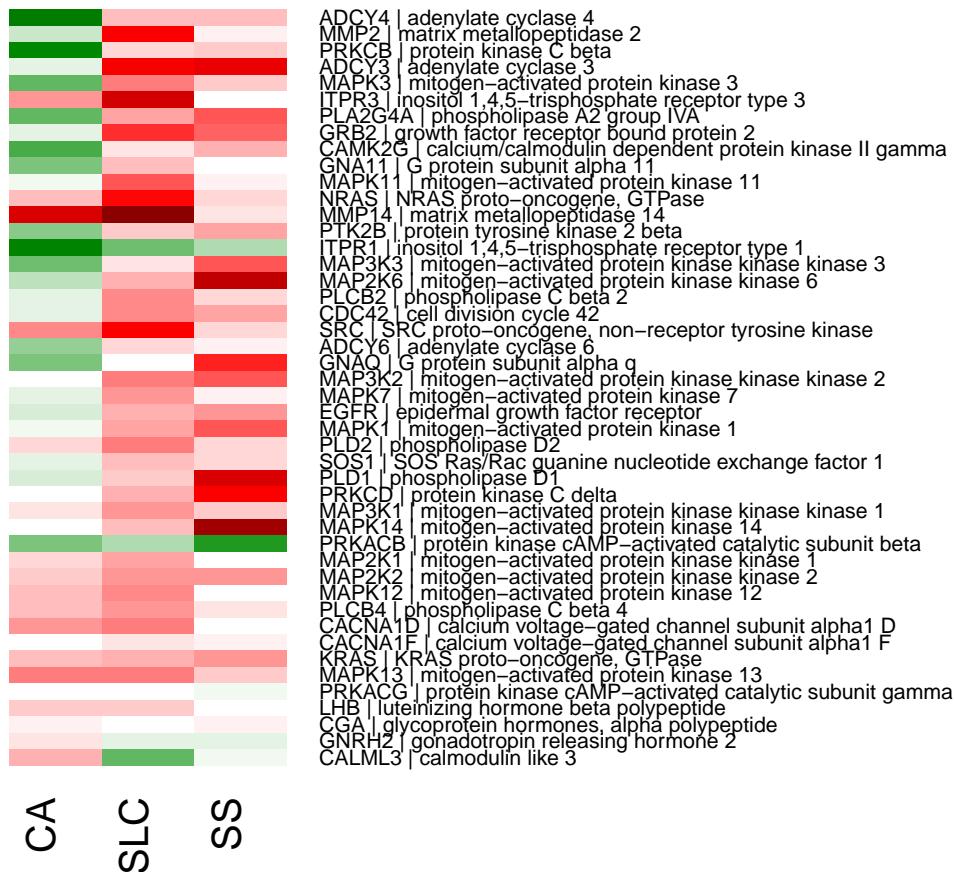
SS

HKDC1 | hexokinase domain containing 1
 IAPPK3 | insulin activated protein kinase 3
 SH3BP1 | sh3 domain binding protein 1
 SH3BP2 | sh3 domain binding protein 2
 SH3BP4 | sh3 domain binding protein 4
 SH3BP5 | sh3 domain binding protein 5
 SH3BP6 | sh3 domain binding protein 6
 SH3BP7 | sh3 domain binding protein 7
 SH3BP8 | sh3 domain binding protein 8
 SH3BP9 | sh3 domain binding protein 9
 SH3BP10 | sh3 domain binding protein 10
 SH3BP11 | sh3 domain binding protein 11
 SH3BP12 | sh3 domain binding protein 12
 SH3BP13 | sh3 domain binding protein 13
 SH3BP14 | sh3 domain binding protein 14
 SH3BP15 | sh3 domain binding protein 15
 SH3BP16 | sh3 domain binding protein 16
 SH3BP17 | sh3 domain binding protein 17
 SH3BP18 | sh3 domain binding protein 18
 SH3BP19 | sh3 domain binding protein 19
 SH3BP20 | sh3 domain binding protein 20
 SH3BP21 | sh3 domain binding protein 21
 SH3BP22 | sh3 domain binding protein 22
 SH3BP23 | sh3 domain binding protein 23
 SH3BP24 | sh3 domain binding protein 24
 SH3BP25 | sh3 domain binding protein 25
 SH3BP26 | sh3 domain binding protein 26
 SH3BP27 | sh3 domain binding protein 27
 SH3BP28 | sh3 domain binding protein 28
 SH3BP29 | sh3 domain binding protein 29
 SH3BP30 | sh3 domain binding protein 30
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 SH3BP36 | sh3 domain binding protein 36
 SH3BP37 | sh3 domain binding protein 37
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 SH3BP41 | sh3 domain binding protein 41
 SH3BP42 | sh3 domain binding protein 42
 SH3BP43 | sh3 domain binding protein 43
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 SH3BP95 | sh3 domain binding protein 95
 SH3BP96 | sh3 domain binding protein 96
 SH3BP97 | sh3 domain binding protein 97
 SH3BP98 | sh3 domain binding protein 98
 SH3BP99 | sh3 domain binding protein 99
 SH3BP100 | sh3 domain binding protein 100

Endocrine system



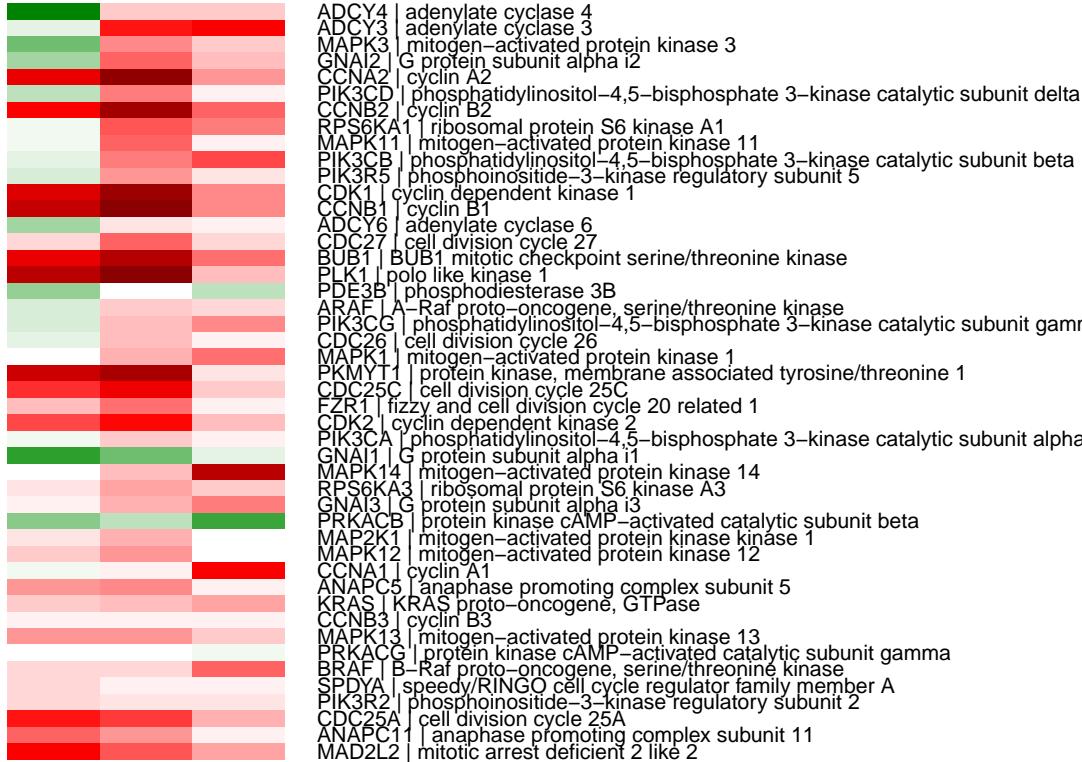
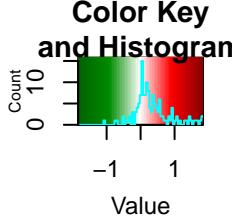
GnRH signaling pathway hsa04912



Endocrine system

Progesterone-mediated oocyte maturation

hsa04914

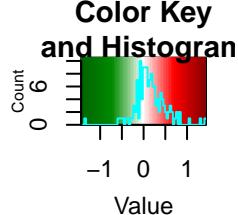


CA

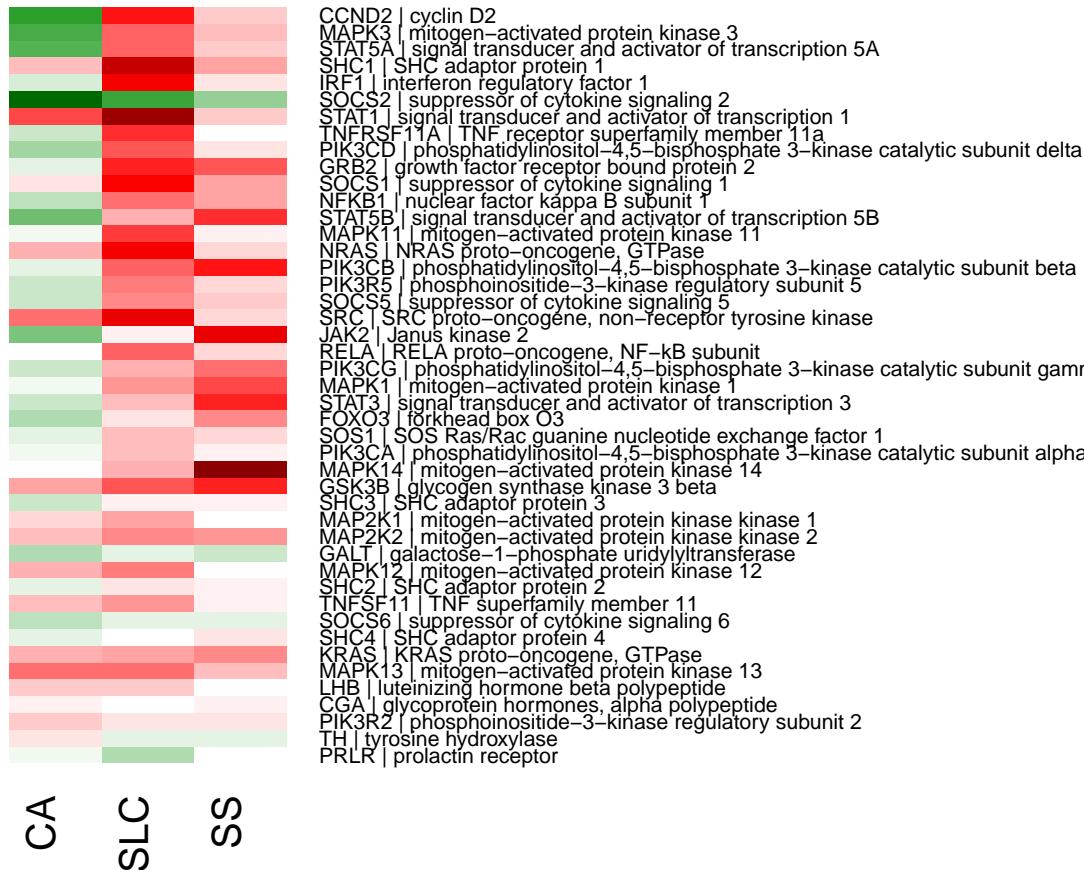
SLC

SS

Endocrine system



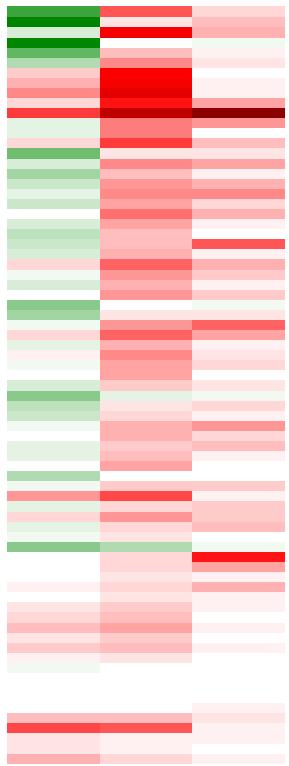
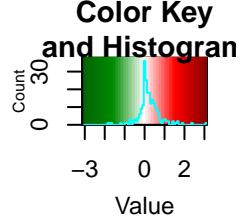
Prolactin signaling pathway hsa04917



Endocrine system

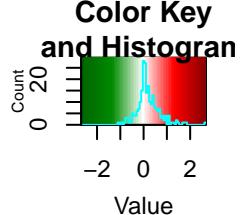
Leukocyte transendothelial migration

hsa04670



CA
SLC
SS

- PECAM1 platelet and endothelial cell adhesion molecule 1
- MYL5 myosin light chain 5
- RAC1 RAC family small GTPase 2
- VCAM1 endothelial cell adhesion molecule
- MOES1 moesin
- CLDN7 claudin 7
- ITGB1 integrin subunit beta 1
- ICAM1 intercellular surface antigen molecule 1
- MMP9 matrix metalloproteinase 9
- MMP2 matrix metalloproteinase 2
- CD34 cluster of differentiation 34 alpha chain
- VASP vasodilator stimulated phosphoprotein
- VCAM2 vascular cell adhesion molecule 2
- ITGB2 integrin subunit beta 2
- ITGA11 integrin alpha 11
- ITGA2 integrin alpha 2
- ITGA10 integrin alpha 10
- ITGA9 integrin alpha 9
- ITGA8 integrin alpha 8
- ITGA7 integrin alpha 7
- ITGA6 integrin alpha 6
- ITGA5 integrin alpha 5
- ITGA4 integrin alpha 4
- ITGA3 integrin alpha 3
- ITGA2B integrin alpha 2B
- ITGA2A integrin alpha 2A
- ITGA1 integrin alpha 1
- ITGA12B integrin alpha 12B
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- ITGA12 integrin alpha 12
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Platelet activation hsa04611



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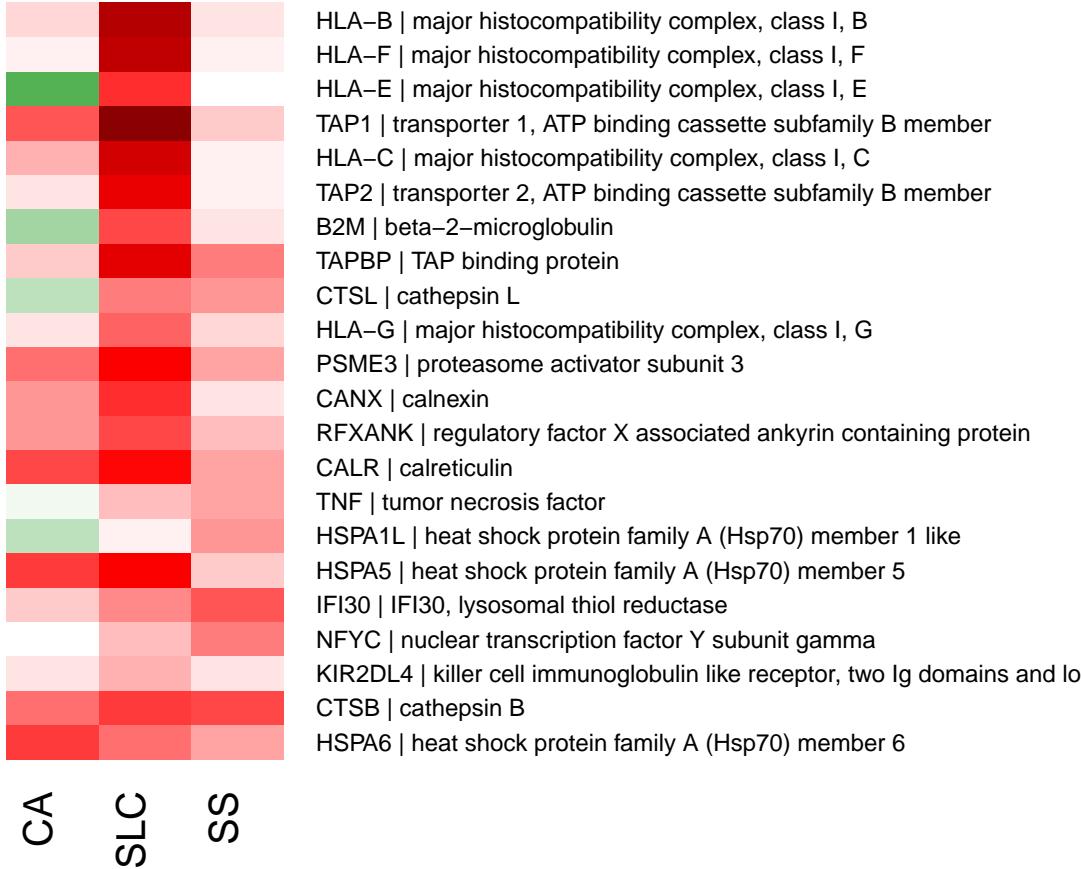
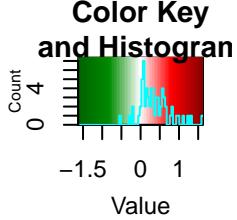
SS

COL1A2 | collagen type I alpha 2 chain
 ADP1A1 | adenosine diphosphate
 COL1A1 | collagen type I alpha 1 chain
 A2M | apolipoprotein A2
 A2M1P | amyloid beta precursor protein family B member 1 interacting protein
 VAPB | vasodilator stimulated phosphoprotein
 MAP3K3 | mitogen-activated protein kinase 3
 GDI1 | G-protein subunit alpha 1 chain
 PLEKHA7 | plexin family member 7
 PLEKHA3 | plexin family member 3
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Immune system

Antigen processing and presentation

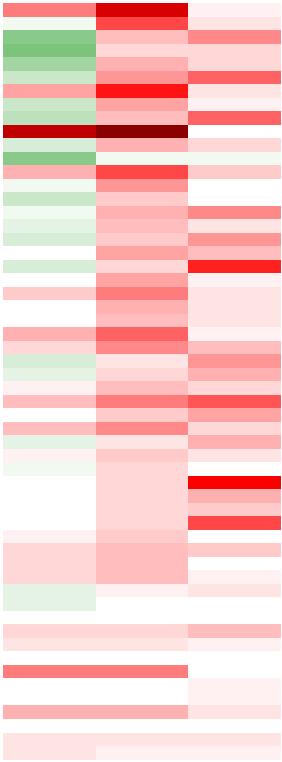
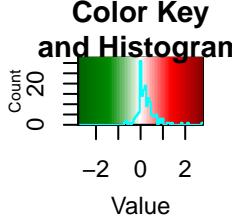
hsa04612



Immune system

Toll-like receptor signaling pathway

hsa04620



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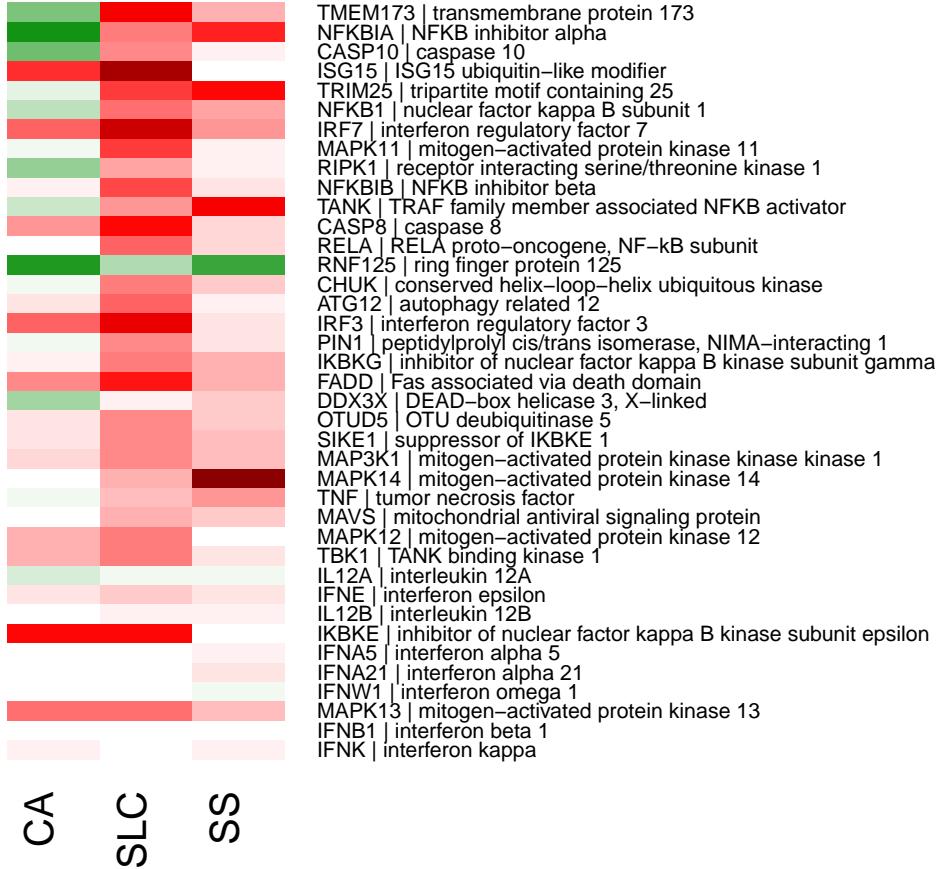
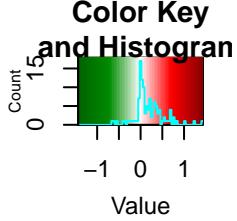
SS

- CXCL9 | C-X-C motif chemokine ligand 9
- NF- κ B1 | nuclear factor kappa B
- MAP3K8 | mitogen-activated protein kinase kinase kinase 8
- MAP3K3 | mitogen-activated protein kinase kinase 3
- LY96 | lymphocyte antigen 96
- STAT1 | signal transducer and activator of transcription 1
- PIK3CD | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta
- SPP1 | secreted phosphoprotein 1
- NFKB1 | nuclear factor kappa B subunit 1
- TLR3 | toll like receptor 3
- IRF7 | interferon regulatory factor 7
- MAPK11 | mitogen-activated protein kinase 11
- PIK3CB | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
- PIK3R5 | phosphoinositide-3-kinase regulatory subunit 5
- IL1B | interleukin 1 beta
- IFNA2 | interferon alpha and beta receptor subunit 2
- MAP2K6 | mitogen-activated protein kinase kinase 6
- CICAP1 | toll like receptor adaptor molecule 1
- CASP8 | caspase 8
- RELA | RELA proto-oncogene, NF- κ B subunit
- CBLIK1 | conserved helix-loop-helix ubiquitous kinase
- IRF3 | interferon regulatory factor 3
- RAC1 | Rac family small GTPase 1
- TLR1 | toll like receptor 1
- PIK3CG | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
- IKK γ | inhibitor of nuclear factor kappa B kinase subunit gamma
- TLR2 | toll like receptor 2
- MAPK1 | mitogen-activated protein kinase 1
- FADD | Fas associated via death domain
- IFNA1 | interferon alpha and beta receptor subunit 1
- CD80 | CD80 molecule
- MAP3A | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha
- MAPK14 | mitogen-activated protein kinase 14
- ILR6 | toll like receptor 6
- TNF | tumor necrosis factor
- TLR8 | toll like receptor 8
- MAP2K2 | mitogen-activated protein kinase kinase 2
- MAPK12 | mitogen-activated protein kinase 12
- TAK1 | TAK1 binding kinase 1
- TIRAP | TIR domain containing adaptor protein
- IL12A | interleukin 12A
- IL12B | interleukin 12B
- MYD88 | myeloid differentiation primary response 88
- IRAK4 | interleukin 1 receptor associated kinase 4
- TLR9 | toll like receptor 9
- IKK ϵ | inhibitor of nuclear factor kappa B kinase subunit epsilon
- IFNA5 | interferon alpha 5
- IFNA21 | interferon alpha 21
- MAPK13 | mitogen-activated protein kinase 13
- IL1B | interleukin beta
- CD14 | lipopolysaccharide binding protein
- PIK3R2 | phosphoinositide-3-kinase regulatory subunit 2

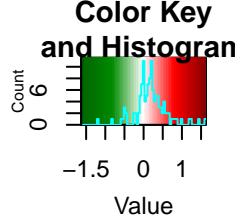
Immune system

RIG-I-like receptor signaling pathway

hsa04622

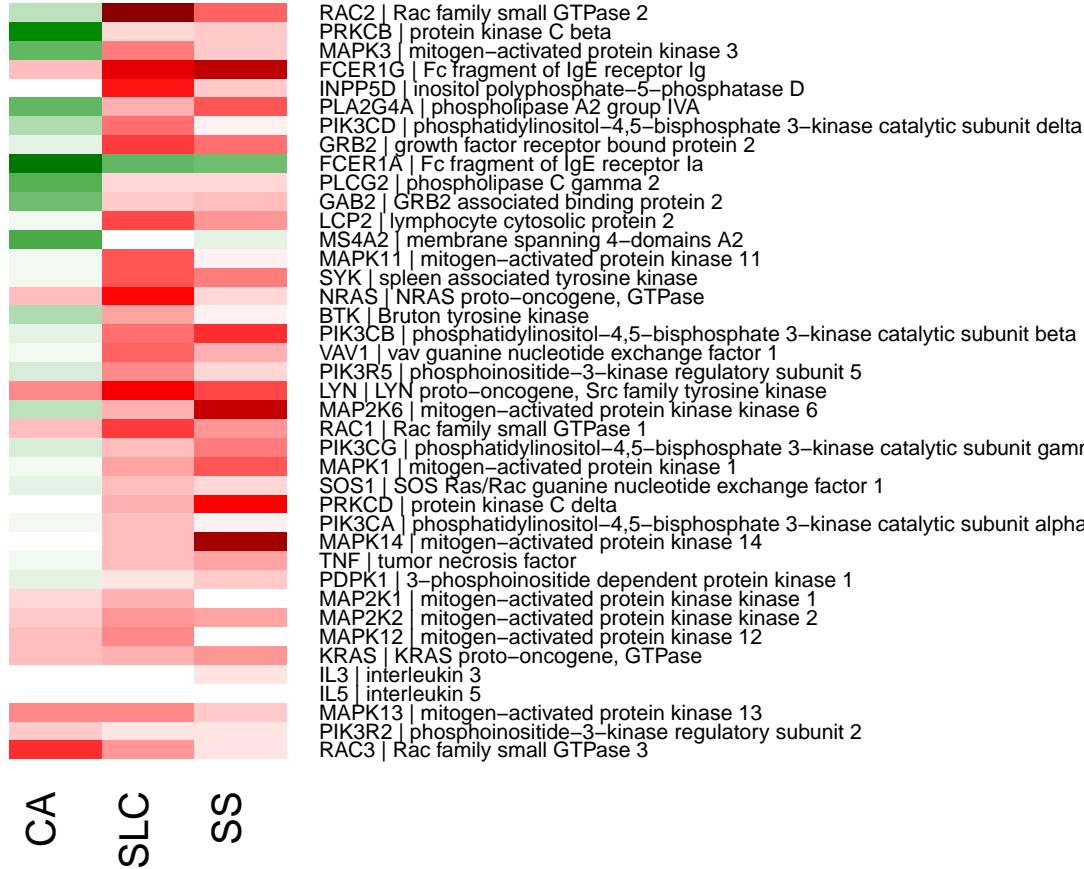


Immune system



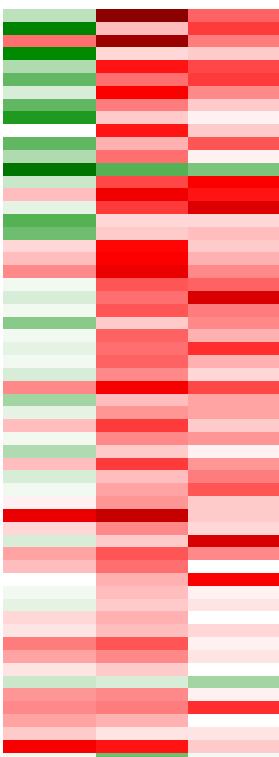
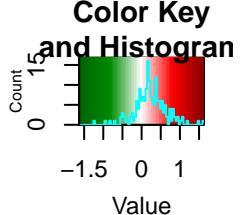
Fc epsilon RI signaling pathway

hsa04664



Immune system

Fc gamma R-mediated phagocytosis hsa04666



CA

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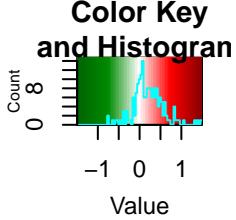
SS

RAC2 | Rac family small GTPase 2
 VSPB | vesicle binding protein
 BRKCCB | protein kinase C beta
 VASP | vasodilator stimulated phosphoprotein
 PTPN22 | protein tyrosine phosphatase, receptor type C
 MAP3K3 | actin related protein 2/3 complex subunit 5
 MAP3K1B | mitogen-activated protein kinase 3
 INPP5D | inositol polyphosphate 5-phosphatase D
 A2G4A | phospholipase A2 group IVA
 PIK3CD | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta
 HCK | HCK proto-oncogene, Src family tyrosine kinase
 ASAP1 | ANKAP with SH3 domain, ankyrin repeat and PH domain 1
 MAP3K5 | myristoylated alanine rich protein kinase C substrate
 GABG2 | GAB2 associated binding protein 2
 BAK1 | p21 (RAC1) activated kinase 1
 ARPC1A | actin related protein 2/3 complex subunit 1A
 CEP350 | cofilin 1
 LIMK2 | actin related protein 2/3 complex subunit 4
 SYK | spleen associated tyrosine kinase
 WASF2 | WAS protein family member 2
 PIK3CB | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
 VAV3 | vav guanine nucleotide exchange factor 1
 PIK3R5 | phosphoinositide-3-kinase regulatory subunit 5
 LYN | LYN proto-oncogene, Src family tyrosine kinase
 CRK | CRK proto-oncogene, adaptor protein
 CRPC3 | cell division cycle 42
 DNMT3 | actin related protein 2/3 complex subunit 3
 DOCK2 | mediator of cytoplasmic 2
 BAC | Rac family small GTPase 5
 MAP3K1 | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
 MAP3K1 | mitogen-activated protein kinase 1
 ARPC2 | actin related protein 2/3 complex subunit 2
 LIMK1 | LIM domain kinase 1
 BLD2 | phospholipase D1
 CGR1 | C1 fragment of IgG receptor Ia
 BPRK1A | phosphatidylinositol-4-phosphate 5-kinase type 1 alpha
 BPRKCD | protein kinase C delta
 PIK3CA | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha
 MAP2K1 | sphingosine kinase
 WASL | Wiskott-Aldrich syndrome protein kinase kinase 1
 WASF1 | WAS protein family member 1
 INPP1 | inositol polyphosphate phosphatase like 1
 PTPN22 | protein kinase C gamma
 RPL56 | ribosomal protein S6 kinase B2
 MYO10 | myosin X
 ARF6 | ADP ribosylation factor 6
 PIK3R2 | phosphoinositide-3-kinase regulatory subunit 2
 SH3BP1 | sphingosine kinase 1
 SCIN | scierdin

Immune system

Bacterial invasion of epithelial cells

hsa05100



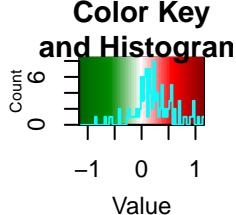
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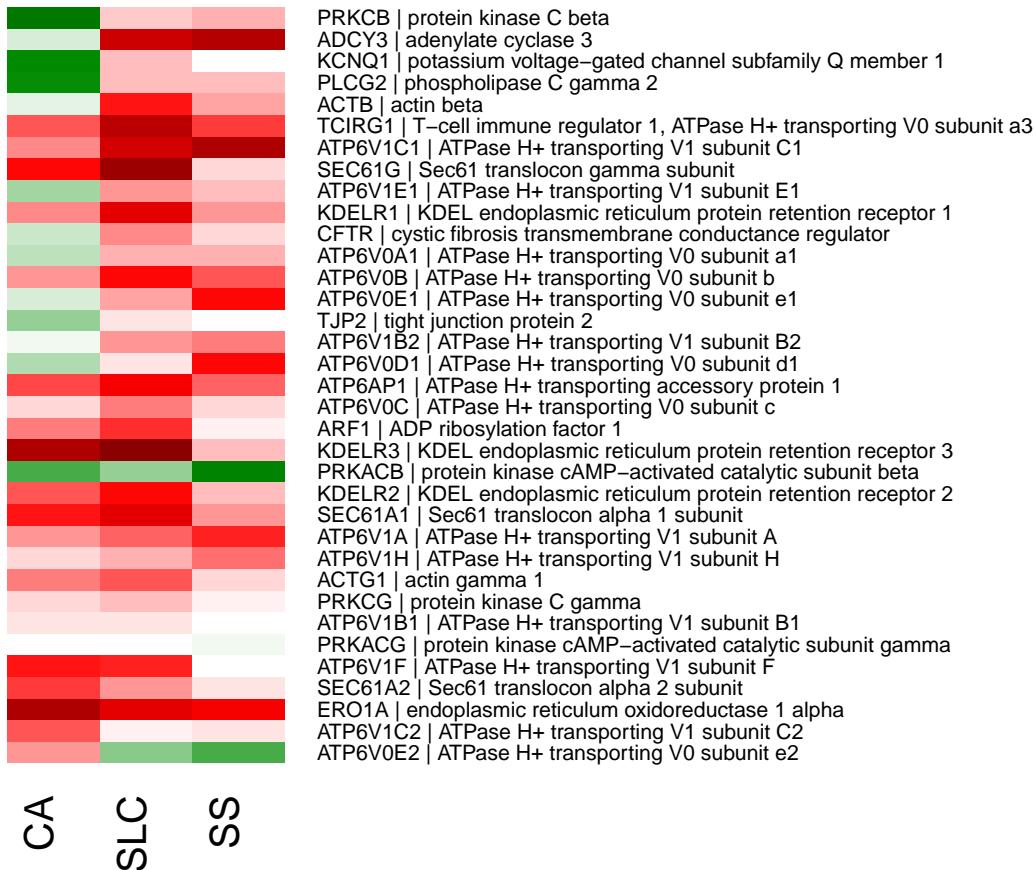
SS

ITGA5 | integrin subunit alpha 5
 PAV1 | pavelin
 ARPC1B | actin related protein 2/3 complex subunit 1B
 VCL | vinculin
 PXN | paxillin
 ARPC5 | actin related protein 2/3 complex subunit 5
 SHC1 | SHC adaptor protein 1
 LK | integrin linked kinase
 EN1 | fibronectin 1
 PIK3CD | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta
 CENPB | catenin beta 1
 DONN1 | mediator of cytokinesis 1
 ARPC1A | actin related protein 2/3 complex subunit 1A
 ACTB | actin beta
 ARPC4 | actin related protein 2/3 complex subunit 4
 WASF2 | WAS protein family member 2
 WASL | Wiskott-Aldrich syndrome
 PIK3CB | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
 LIC3B | hematopoietic cell-specific Lyn substrate 1
 PIK3B5 | phosphoinositide-3-kinase regulatory subunit 5
 BCAR1 | BCAR1, Cas family scaffolding protein
 CEK1 | CEK proto-oncogene, adaptor protein
 MEK1 | MEK1 proto-oncogene, receptor tyrosine kinase
 SEPT2 | septin 2
 GAB1 | GRB2 associated binding protein 1
 CDC42 | cell division cycle 42
 SRC | SRC proto-oncogene, non-receptor tyrosine kinase
 ARPC3 | actin related protein 2/3 complex subunit 3
 DNMC3 | dynamin 2
 HOA1 | ras homolog family member A
 BACT1 | Rac family small GTPase 1
 PIK3CG | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
 CNM1 | dynamin 1
 CLIP1 | clathrin light chain B
 CLTB | clathrin light chain B
 CLTC | clathrin heavy chain
 ARPC2 | actin related protein 2/3 complex subunit 2
 PIK3CA | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha
 SHCN1 | catenin alpha
 SHC3 | SHC adaptor protein 3
 LMO2 | engulfment and cell motility 2
 WASL | Wiskott-Aldrich syndrome like
 ARHGAP10 | Rho GTPase activating protein 10
 DNMC3 | SHC adaptor protein 2
 CNM3 | dynamin 3
 CLTA | clathrin light chain A
 WASF1 | WAS protein family member 1
 SHC4 | SHC adaptor protein 4
 ALPG3 | actin gamma 1
 CEV3 | septin 3
 SEPT12 | septin 12
 CLTCL1 | clathrin heavy chain like 1
 PIK3R2 | phosphoinositide-3-kinase regulatory subunit 2
 LMO3 | engulfment and cell motility 3
 MAO3 | mitotic arrest deficient 2 like 2
 SEPT3 | septin 3

Infectious disease



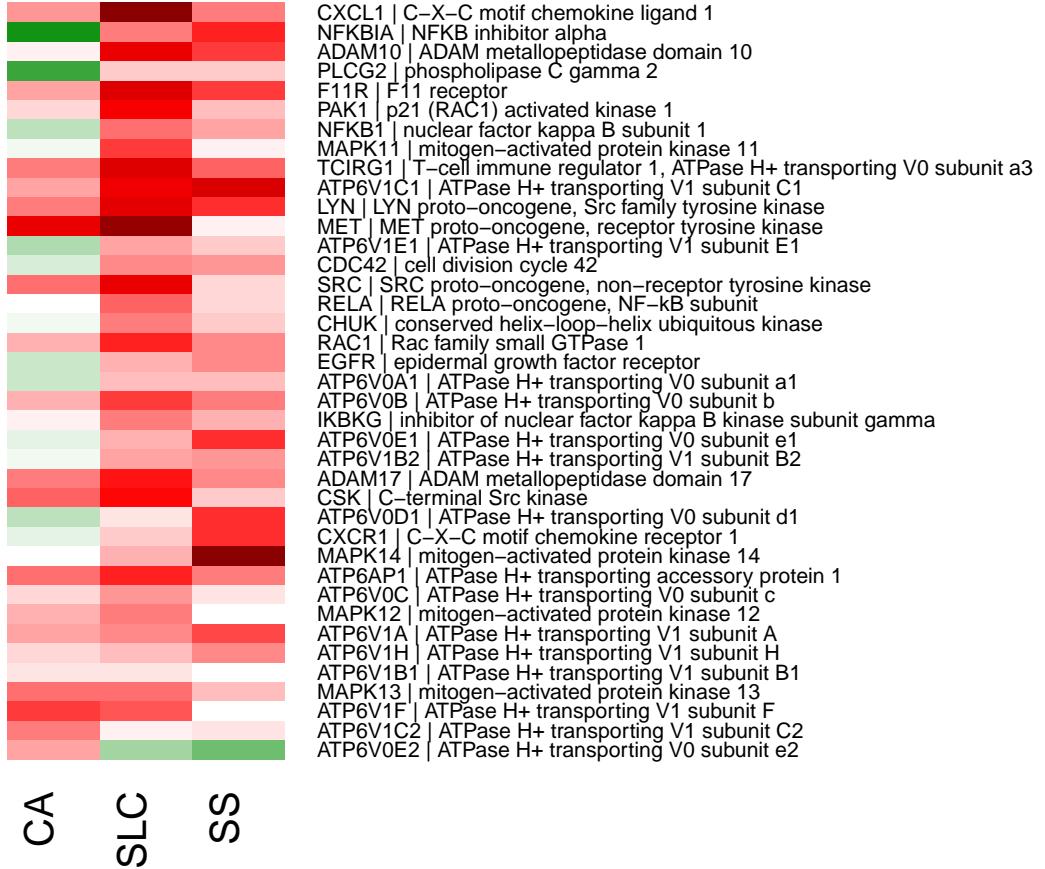
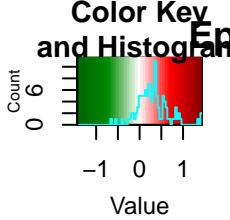
Vibrio cholerae infection hsa05110



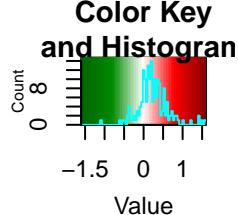
Infectious disease

Epithelial cell signaling in *Helicobacter pylori* infection

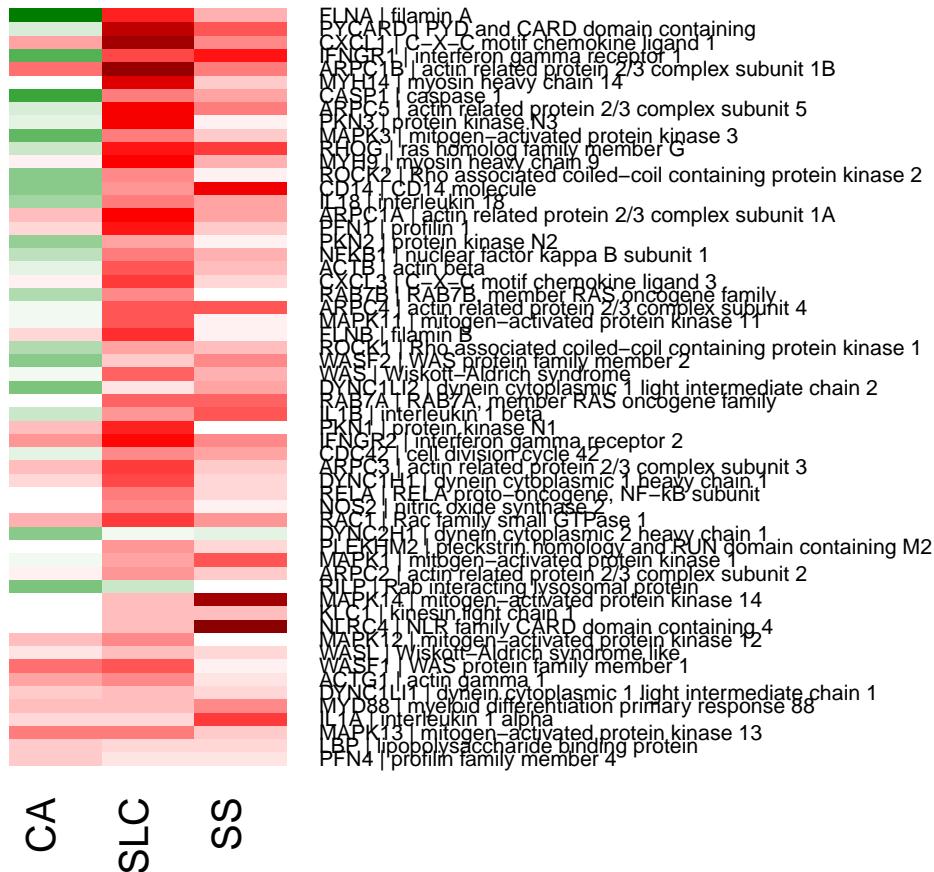
hsa05120



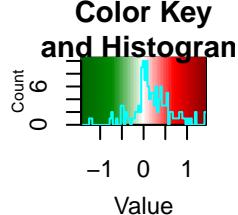
Infectious disease



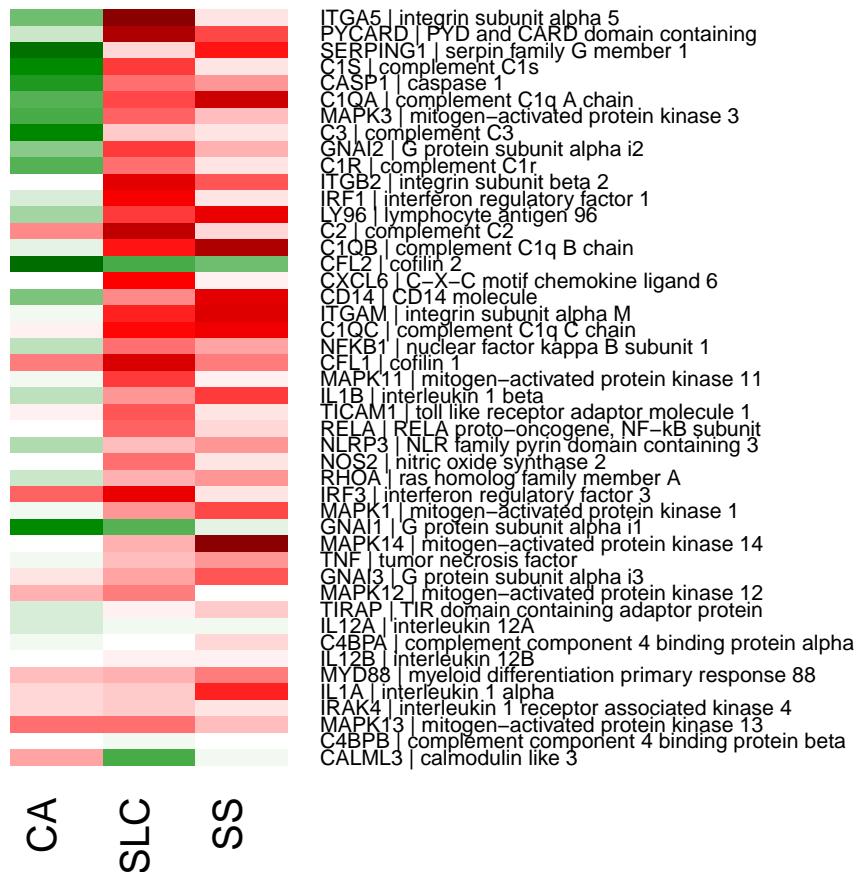
Salmonella infection hsa05132



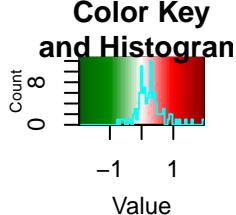
Infectious disease



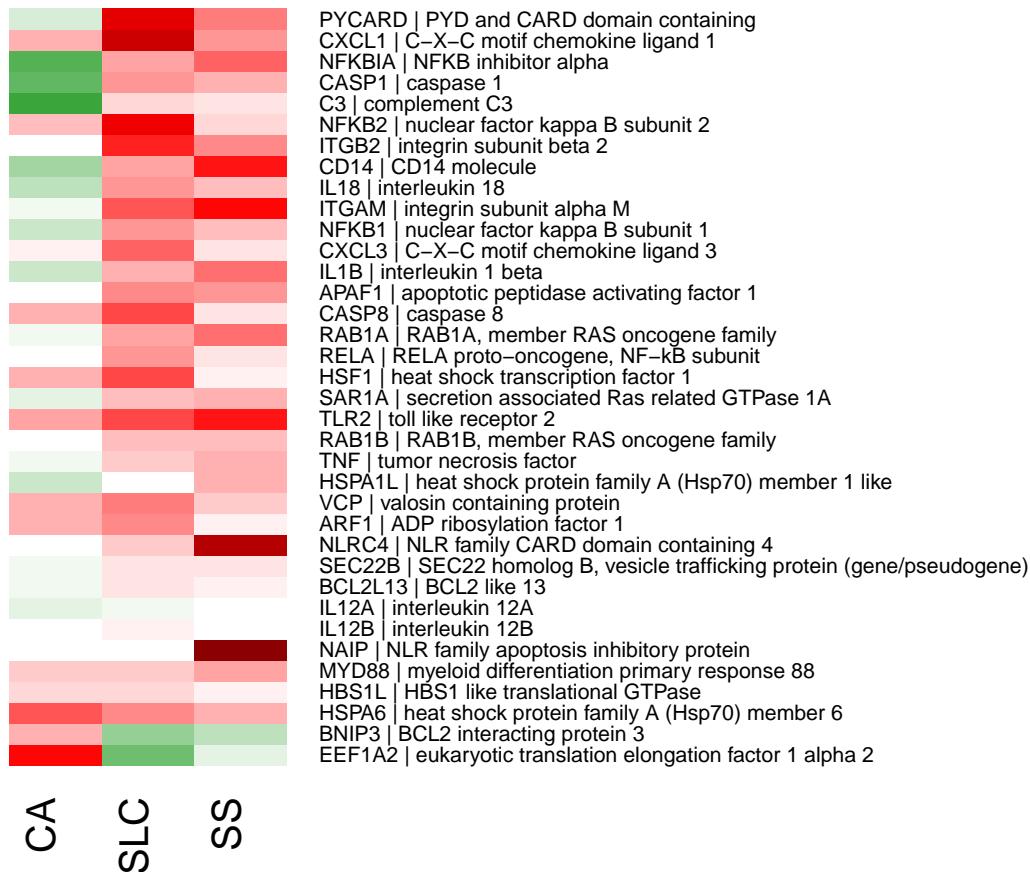
Pertussis hsa05133



Infectious disease



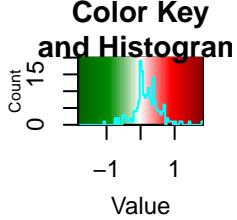
Legionellosis hsa05134



Infectious disease

Chagas disease (American trypanosomiasis)

hsa05142



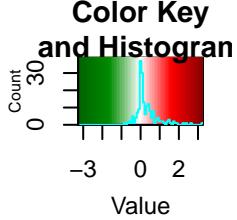
CA

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SS

SERPINE1 | serpin family E member 1
 LGFBP2 | transforming growth factor beta receptor 2
 IFNGR1 | interferon gamma receptor 1
 NFKBIA | NF-kB inhibitor alpha
 ACE1 | angiotensin I converting enzyme
 MAPK3 | mitogen-activated protein kinase 3
 C3 | complement C3
 GNAI2 | G protein subunit alpha i2
 C1QB | complement C1q B chain
 LGFBP1 | transforming growth factor beta receptor 1
 C1QC | complement C1q C chain
 GNAI1 | G protein subunit alpha i1
 NFKB1 | nuclear factor kappa B subunit 1
 INRSF1A | TNF receptor subfamily member 1A
 FAS | Fas cell surface death receptor
 UHRF1 | CASP8 and FADD like apoptosis regulator
 UHRF1BP1 | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
 PPP2CB | protein phosphatase 2 catalytic subunit beta
 LGFBP3 | transforming growth factor beta 3
 IL12RB1 | interleukin 12 beta
 IL12RB2 | interleukin gamma receptor 2
 PLCB2 | phospholipase beta
 TICAM1 | toll like receptor adaptor molecule 1
 CASP8 | caspase 8
 GNAI3 | G protein subunit alpha i3
 LGFBP1 | transforming growth factor beta receptor 1
 RELA | RELA proto-oncogene, NF-kB subunit
 NOS2 | nitric oxide synthase 2
 UHRF1 | conserved helix-loop-helix ubiquitous kinase
 UHRF1BP1 | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
 IKKKG | inhibitor of nuclear factor kappa B kinase subunit gamma
 IL12R2 | toll like receptor
 MAPK1 | mitogen-activated protein kinase 1
 FADD | Fas associated via death domain
 UHRF1BP1 | protein phosphatase 2 catalytic subunit alpha
 UHRF1BP1 | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha
 GNAI1 | G protein subunit alpha i1
 MAPK14 | mitogen-activated protein kinase 14
 C1QA | C1q A chain
 TNF | tumor necrosis factor
 GNAI3 | G protein subunit alpha i3
 MAPK12 | mitogen-activated protein kinase 12
 IL12B | interleukin 12 beta
 PLCB4 | phospholipase C beta 4
 IL12B | interleukin 12 beta
 MYD88 | myeloid differentiation primary response, 88
 IRAK1 | interleukin 1 receptor associated kinase 4
 IL12R1 | interleukin 12 receptor
 MAPK13 | mitogen-activated protein kinase 13
 IFNG | interferon gamma
 UHRF1BP1 | phosphatidylinositol-4,5-bisphosphate 3-kinase regulatory subunit 2
 GNAI2 | G protein subunit alpha i2
 PPP2R2C | protein phosphatase 2 regulatory subunit Bgamma

Infectious disease



Amoebiasis hsa05146



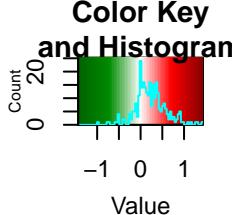
CA

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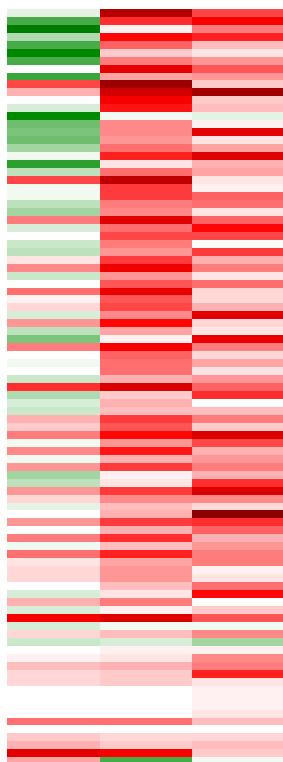
SS

COL4A2 collagen type IV alpha 2 chain
 LAMC1 laminin subunit gamma 1
 LAMC2 laminin subunit gamma 2
 LAMC3 laminin subunit gamma 3
 COL1A2 collagen type I alpha 2 chain
 COL1A1 collagen type I alpha 1 chain
 COL1A3 collagen type I alpha 3 chain
 COL1A2-AS1 collagen type I alpha 2 chain alternative splicing 1
 COL1A3-AS1 collagen type I alpha 3 chain alternative splicing 1
 LAMC1-AS1 laminin subunit gamma 1 alternative splicing 1
 ACTN1 actinin alpha 1
 VCKKB protein kinase C beta
 VCKKB-AS1 protein kinase C beta alternative splicing 1
 LAMB1 laminin subunit beta 1
 CDG2A integrin subunit beta 2
 COL17A1 collagen type XVII alpha 1 chain
 FN1 fibronectin
 RAB5C RAB5C, member RAS oncogene family
 PI3KCD phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta
 SERPINC1 serpin family C member 1
 ACTN4 actinin alpha 4
 CP140 CP140 molecule
 COL1B2 transforming growth factor beta 2
 COL1B3 transforming growth factor beta 3
 COL1A4 integrin subunit alpha IV
 COL1A4-AS1 collagen type I alpha 4 chain alternative splicing 1
 COL1A4-AS2 collagen type I alpha 4 chain alternative splicing 2
 COL1A4-AS3 collagen type I alpha 4 chain alternative splicing 3
 GPC3 G protein subunit alpha 3
 NFKB1 nuclear factor kappa B subunit 1
 KIF7B kinesin family B member 7
 PI3KCB phosphatidylinositol-3-kinase catalytic subunit beta
 PI3KCA phosphatidylinositol-3-kinase catalytic subunit alpha
 RAB7A RAB7A, member RAS oncogene family
 PI3KSG phosphoinositide 3-kinase regulatory subunit 5
 LIG3 interlocking helix
 LIG3-AS1 transforming growth factor beta 3 alternative splicing 1
 LIG3-AS2 transforming growth factor beta 3 alternative splicing 2
 PHOSPHO phospholipase C beta 2
 GPC2 G protein subunit alpha 2
 LIG4 integrin subunit alpha 4
 RFX5 RFX5, protein family B (small) member 1
 NFKB1-AS1 RelA subunit, NF-kB subunit alternative splicing 1
 NOS2 nitric oxide synthase 2
 PI3KCG phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
 ILK2L integrin receptor 2
 PI3KCA-AS1 phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha alternative splicing 1
 TNF superfamily member 1
 COL2A1 collagen type II alpha 1 chain
 IL2A interleukin 2A
 PI3KCG-AS1 phospholipase C beta 4 alternative splicing 1
 PI3KCG-AS2 phospholipase C beta 4 alternative splicing 2
 LIG3B integrin kinase C gamma
 RAB5A RAB5A, member RAS oncogene family
 LAMC3-AS1 laminin subunit gamma 3 (gene pseudogene) alternative splicing 1
 LAMC3-AS2 laminin subunit gamma 3 (gene pseudogene) alternative splicing 2
 PI3KSG-AS1 phosphoinositide-3-kinase regulatory subunit 2 alternative splicing 1
 C3G complement C3 gamma chain
 COL2A1-AS1 collagen type II alpha 1 chain alternative splicing 1

Infectious disease



Tuberculosis hsa05152



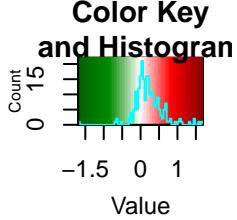
CA

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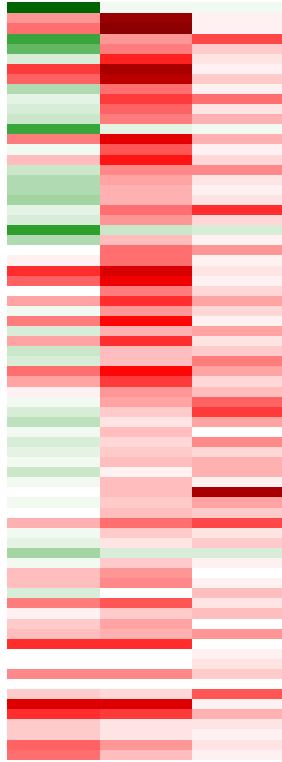
SS

TGFB1 | transforming growth factor beta 1
 TNFR1 | tumor necrosis factor receptor 1
 TNFR2 | tumor necrosis factor receptor 2
 TNFR3 | tumor necrosis factor receptor 3
 TNFR4 | tumor necrosis factor receptor 4
 TNFR5 | tumor necrosis factor receptor 5
 TNFR6 | tumor necrosis factor receptor 6
 TNFR7 | tumor necrosis factor receptor 7
 TNFR8 | tumor necrosis factor receptor 8
 TNFR9 | tumor necrosis factor receptor 9
 TNFR10 | tumor necrosis factor receptor 10
 TNFR11 | tumor necrosis factor receptor 11
 TNFR12 | tumor necrosis factor receptor 12
 TNFR13 | tumor necrosis factor receptor 13
 TNFR14 | tumor necrosis factor receptor 14
 TNFR15 | tumor necrosis factor receptor 15
 TNFR16 | tumor necrosis factor receptor 16
 TNFR17 | tumor necrosis factor receptor 17
 TNFR18 | tumor necrosis factor receptor 18
 TNFR19 | tumor necrosis factor receptor 19
 TNFR20 | tumor necrosis factor receptor 20
 TNFR21 | tumor necrosis factor receptor 21
 TNFR22 | tumor necrosis factor receptor 22
 TNFR23 | tumor necrosis factor receptor 23
 TNFR24 | tumor necrosis factor receptor 24
 TNFR25 | tumor necrosis factor receptor 25
 TNFR26 | tumor necrosis factor receptor 26
 TNFR27 | tumor necrosis factor receptor 27
 TNFR28 | tumor necrosis factor receptor 28
 TNFR29 | tumor necrosis factor receptor 29
 TNFR30 | tumor necrosis factor receptor 30
 TNFR31 | tumor necrosis factor receptor 31
 TNFR32 | tumor necrosis factor receptor 32
 TNFR33 | tumor necrosis factor receptor 33
 TNFR34 | tumor necrosis factor receptor 34
 TNFR35 | tumor necrosis factor receptor 35
 TNFR36 | tumor necrosis factor receptor 36
 TNFR37 | tumor necrosis factor receptor 37
 TNFR38 | tumor necrosis factor receptor 38
 TNFR39 | tumor necrosis factor receptor 39
 TNFR40 | tumor necrosis factor receptor 40
 TNFR41 | tumor necrosis factor receptor 41
 TNFR42 | tumor necrosis factor receptor 42
 TNFR43 | tumor necrosis factor receptor 43
 TNFR44 | tumor necrosis factor receptor 44
 TNFR45 | tumor necrosis factor receptor 45
 TNFR46 | tumor necrosis factor receptor 46
 TNFR47 | tumor necrosis factor receptor 47
 TNFR48 | tumor necrosis factor receptor 48
 TNFR49 | tumor necrosis factor receptor 49
 TNFR50 | tumor necrosis factor receptor 50
 TNFR51 | tumor necrosis factor receptor 51
 TNFR52 | tumor necrosis factor receptor 52
 TNFR53 | tumor necrosis factor receptor 53
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 TNFR91 | tumor necrosis factor receptor 91
 TNFR92 | tumor necrosis factor receptor 92
 TNFR93 | tumor necrosis factor receptor 93
 TNFR94 | tumor necrosis factor receptor 94
 TNFR95 | tumor necrosis factor receptor 95
 TNFR96 | tumor necrosis factor receptor 96
 TNFR97 | tumor necrosis factor receptor 97
 TNFR98 | tumor necrosis factor receptor 98
 TNFR99 | tumor necrosis factor receptor 99
 TNFR100 | tumor necrosis factor receptor 100

Infectious disease



Hepatitis C hsa05160



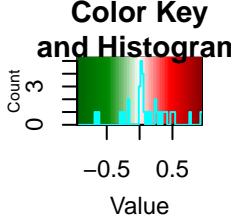
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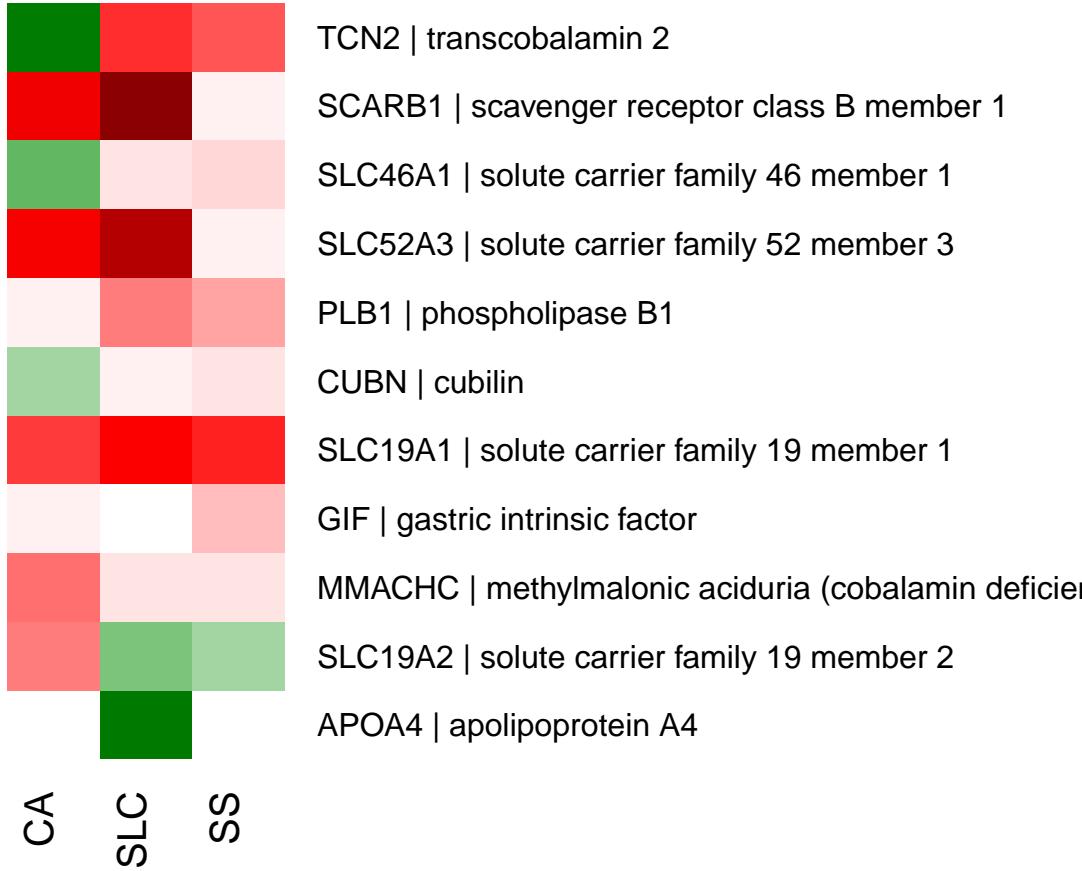
SS

- CLDN5 | claudin 5
- CLDN9 | claudin 9
- MAP3K1 | mitogen-activated protein kinase 3
- OSY1 | ornithine decarboxylase 1
- OSY2 | ornithine decarboxylase 2
- OSY3 | ornithine decarboxylase 3
- OSY4 | ornithine decarboxylase 4
- OSY5 | ornithine decarboxylase 5
- OSY6 | ornithine decarboxylase 6
- OSY7 | ornithine decarboxylase 7
- OSY8 | ornithine decarboxylase 8
- OSY9 | ornithine decarboxylase 9
- OSY10 | ornithine decarboxylase 10
- OSY11 | ornithine decarboxylase 11
- OSY12 | ornithine decarboxylase 12
- OSY13 | ornithine decarboxylase 13
- OSY14 | ornithine decarboxylase 14
- OSY15 | ornithine decarboxylase 15
- OSY16 | ornithine decarboxylase 16
- OSY17 | ornithine decarboxylase 17
- OSY18 | ornithine decarboxylase 18
- OSY19 | ornithine decarboxylase 19
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- OSY22 | ornithine decarboxylase 22
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- OSY27 | ornithine decarboxylase 27
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- OSY29 | ornithine decarboxylase 29
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- OSY57 | ornithine decarboxylase 57
- OSY58 | ornithine decarboxylase 58
- OSY59 | ornithine decarboxylase 59
- OSY60 | ornithine decarboxylase 60
- OSY61 | ornithine decarboxylase 61
- OSY62 | ornithine decarboxylase 62
- OSY63 | ornithine decarboxylase 63
- OSY64 | ornithine decarboxylase 64
- OSY65 | ornithine decarboxylase 65
- OSY66 | ornithine decarboxylase 66
- OSY67 | ornithine decarboxylase 67
- OSY68 | ornithine decarboxylase 68
- OSY69 | ornithine decarboxylase 69
- OSY70 | ornithine decarboxylase 70
- OSY71 | ornithine decarboxylase 71
- OSY72 | ornithine decarboxylase 72
- OSY73 | ornithine decarboxylase 73
- OSY74 | ornithine decarboxylase 74
- OSY75 | ornithine decarboxylase 75
- OSY76 | ornithine decarboxylase 76
- OSY77 | ornithine decarboxylase 77
- OSY78 | ornithine decarboxylase 78
- OSY79 | ornithine decarboxylase 79
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- OSY81 | ornithine decarboxylase 81
- OSY82 | ornithine decarboxylase 82
- OSY83 | ornithine decarboxylase 83
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- OSY85 | ornithine decarboxylase 85
- OSY86 | ornithine decarboxylase 86
- OSY87 | ornithine decarboxylase 87
- OSY88 | ornithine decarboxylase 88
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- OSY90 | ornithine decarboxylase 90
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- OSY93 | ornithine decarboxylase 93
- OSY94 | ornithine decarboxylase 94
- OSY95 | ornithine decarboxylase 95
- OSY96 | ornithine decarboxylase 96
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- OSY99 | ornithine decarboxylase 99
- OSY100 | ornithine decarboxylase 100

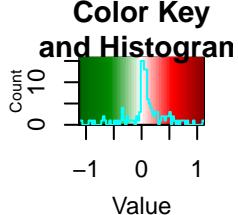
Infectious disease



Vitamin digestion and absorption hsa04977

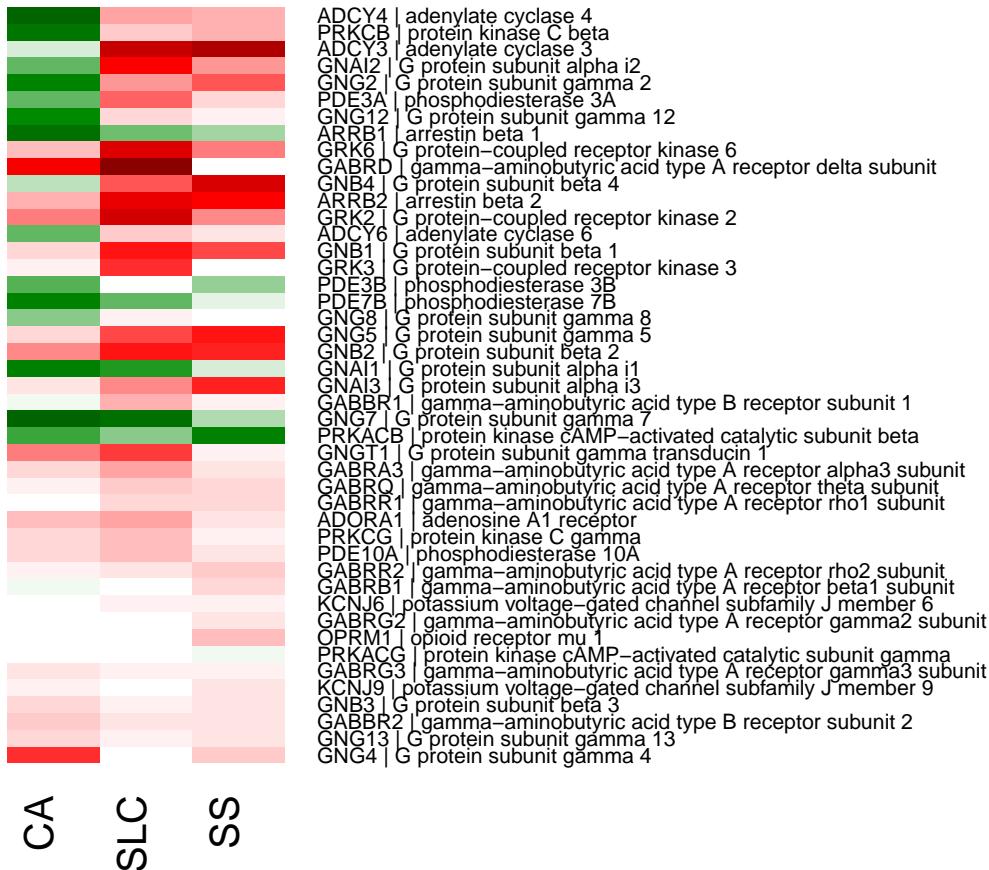


Other



Morphine addiction

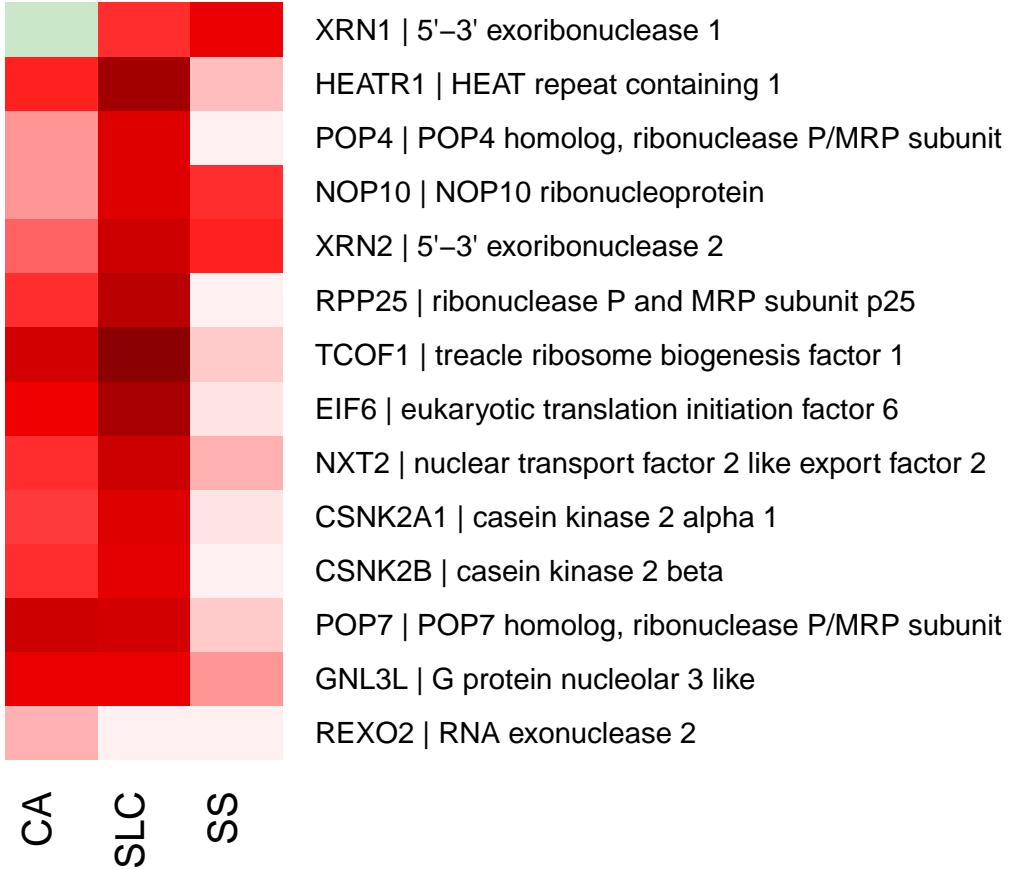
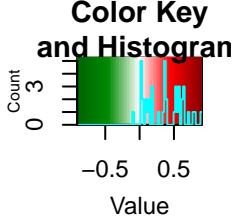
hsa05032



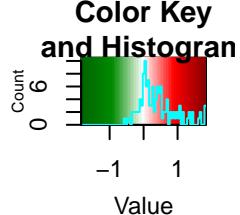
Other

Ribosome biogenesis in eukaryotes

hsa03008

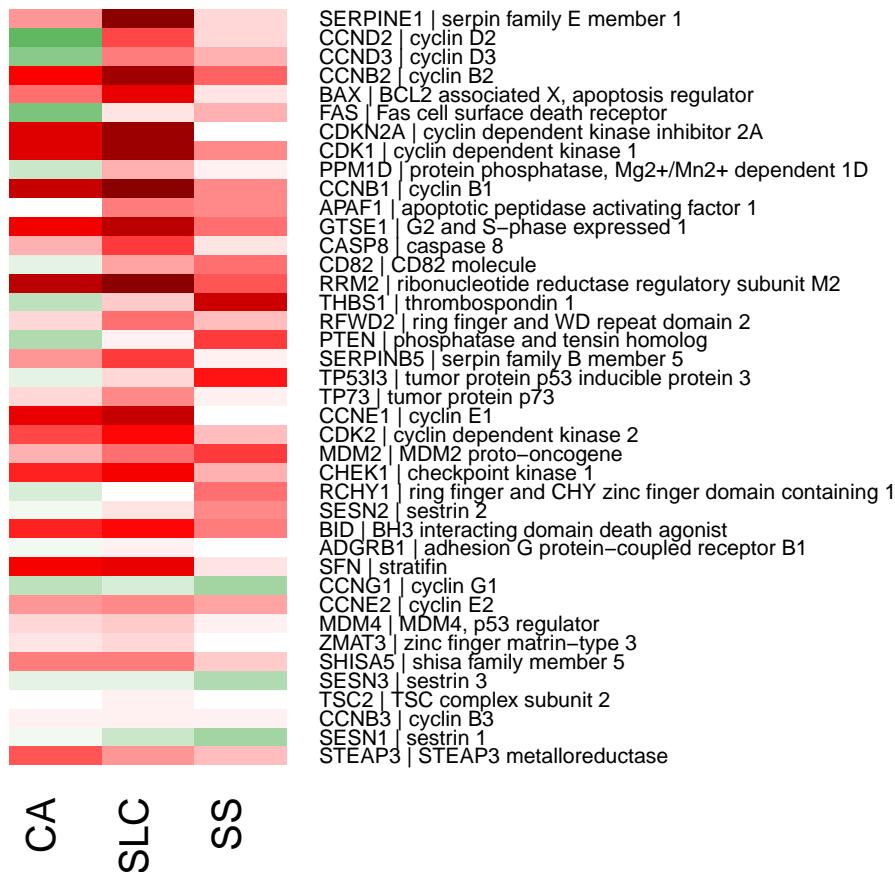


Other

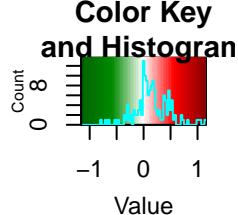


p53 signaling pathway

hsa04115

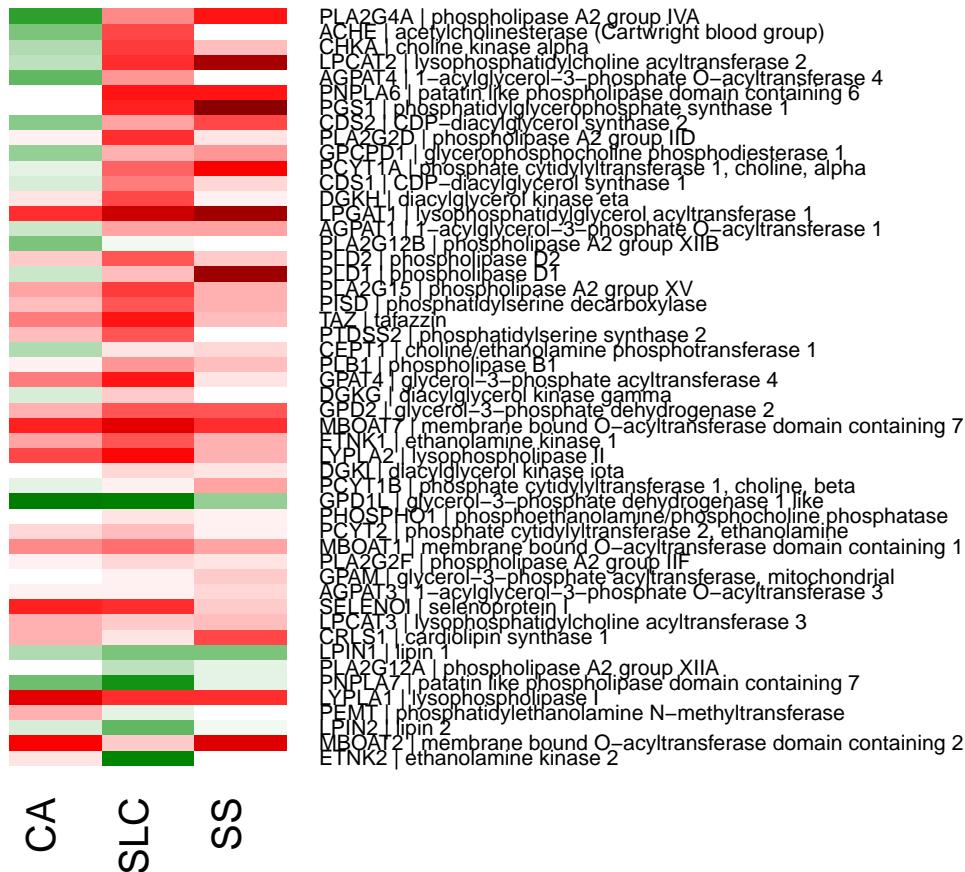


Other

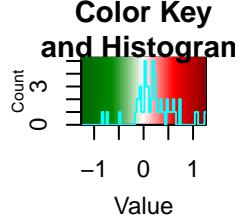


Glycerophospholipid metabolism

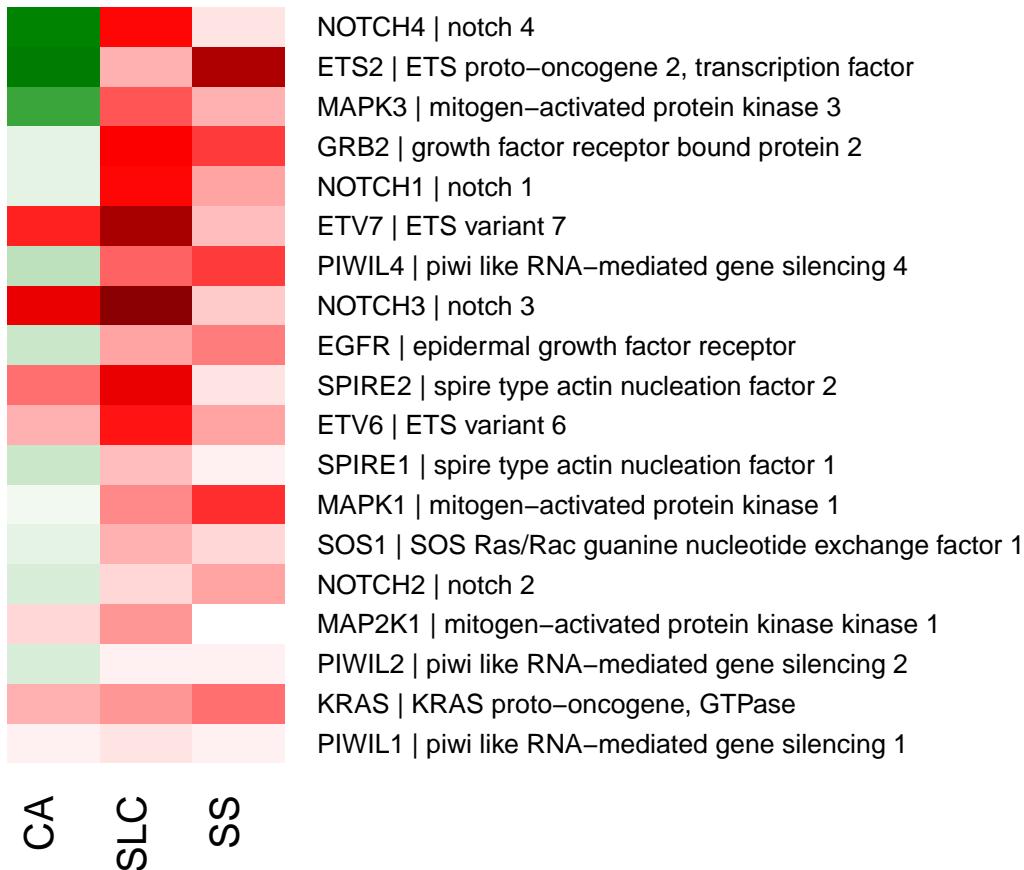
hsa00564



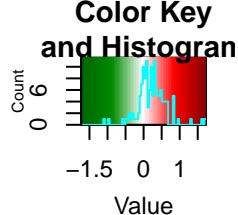
Other



Dorso-ventral axis formation hsa04320

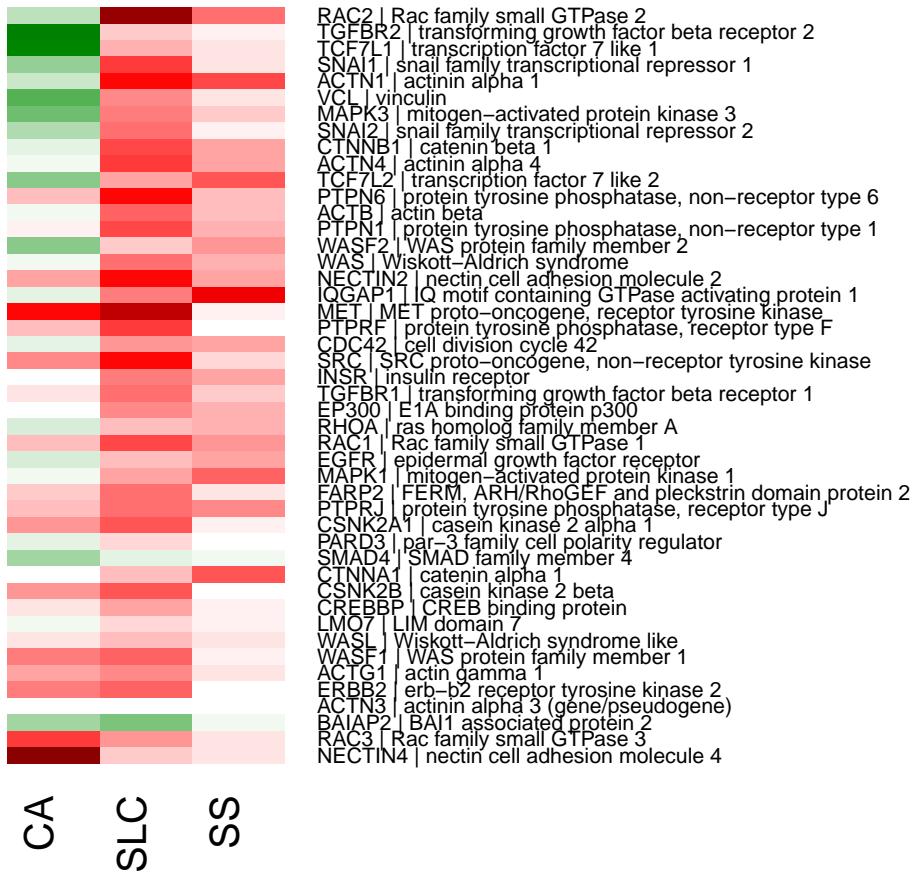


Other

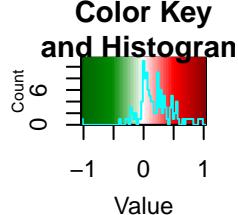


Adherens junction

hsa04520

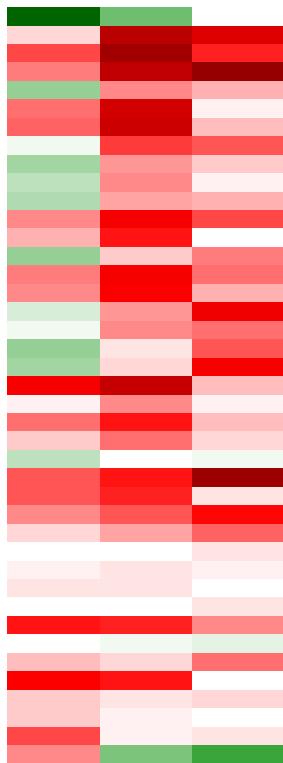


Other



Synaptic vesicle cycle

hsa04721



CA

SLC

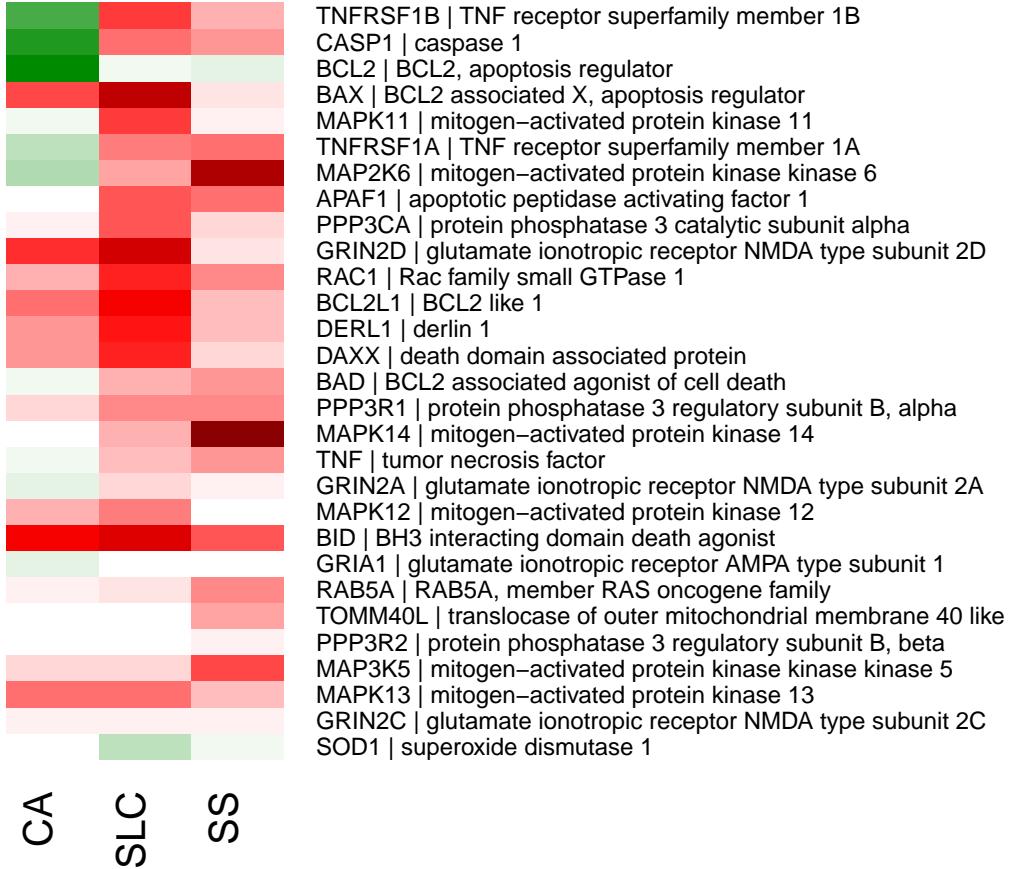
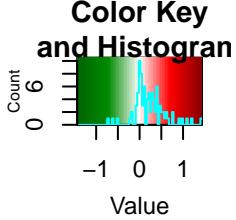
SS

- VAMP2 | vesicle associated membrane protein 2
- AP2B1 | adaptor related protein complex 2 beta 1 subunit
- TCIRG1 | T-cell immune regulator 1, ATPase H+ transporting V0 subunit a3
- ATP6V1C1 | ATPase H+ transporting V1 subunit C1
- ATP6V1E1 | ATPase H+ transporting V1 subunit E1
- CPLX1 | complexin 1
- AP2M1 | adaptor related protein complex 2 mu 1 subunit
- DNM2 | dynamin 2
- SYT1 | synaptotagmin 1
- AP2A2 | adaptor related protein complex 2 alpha 2 subunit
- ATP6V0A1 | ATPase H+ transporting V0 subunit a1
- ATP6V0B | ATPase H+ transporting V0 subunit b
- DNM1 | dynamin 1
- CLTB | clathrin light chain B
- CLTC | clathrin heavy chain
- AP2A1 | adaptor related protein complex 2 alpha 1 subunit
- ATP6V0E1 | ATPase H+ transporting V0 subunit e1
- ATP6V1B2 | ATPase H+ transporting V1 subunit B2
- NAPA | NSF attachment protein alpha
- ATP6V0D1 | ATPase H+ transporting V0 subunit d1
- STX1A | syntaxin 1A
- SNAP25 | synaptosome associated protein 25
- AP2S1 | adaptor related protein complex 2 sigma 1 subunit
- ATP6V0C | ATPase H+ transporting V0 subunit c
- DNM3 | dynamin 3
- STX3 | syntaxin 3
- CLTA | clathrin light chain A
- ATP6V1A | ATPase H+ transporting V1 subunit A
- ATP6V1H | ATPase H+ transporting V1 subunit H
- SLC18A1 | solute carrier family 18 member A1
- STX1B | syntaxin 1B
- ATP6V1B1 | ATPase H+ transporting V1 subunit B1
- SLC17A6 | solute carrier family 17 member 6
- NSF | N-ethylmaleimide sensitive factor, vesicle fusing ATPase
- RIMS1 | regulating synaptic membrane exocytosis 1
- CLTCL1 | clathrin heavy chain like 1
- ATP6V1F | ATPase H+ transporting V1 subunit F
- UNC13A | unc-13 homolog A
- SLC18A3 | solute carrier family 18 member A3
- ATP6V1C2 | ATPase H+ transporting V1 subunit C2
- ATP6V0E2 | ATPase H+ transporting V0 subunit e2

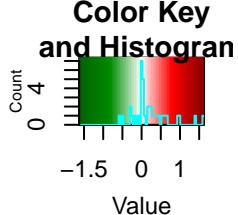
Other

Amyotrophic lateral sclerosis (ALS)

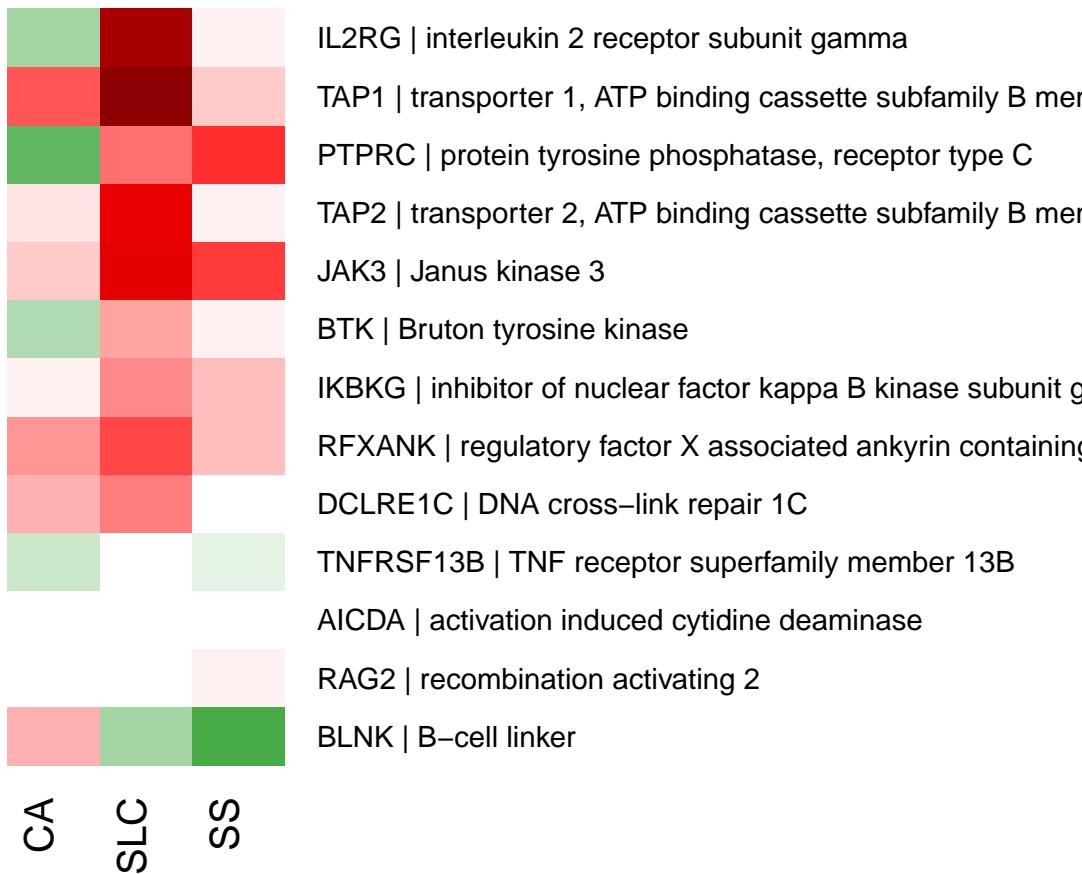
hsa05014



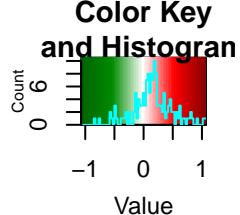
Other



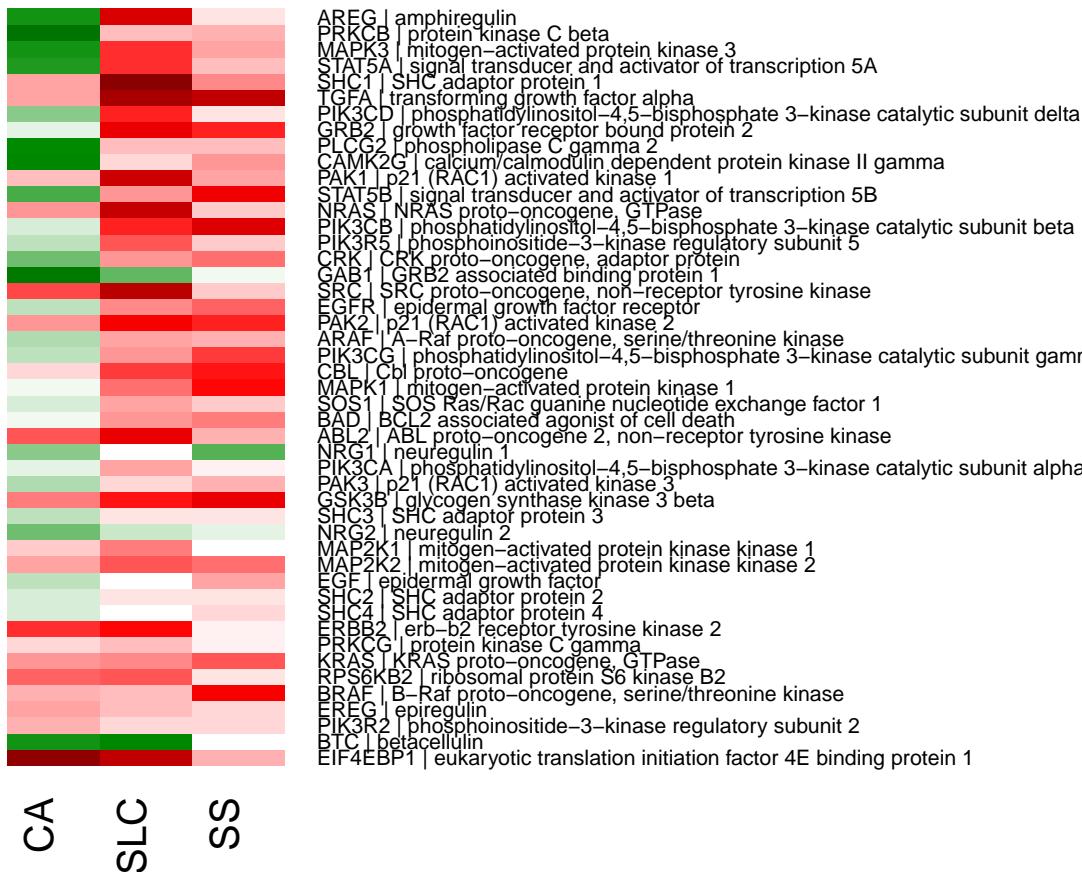
Primary immunodeficiency hsa05340



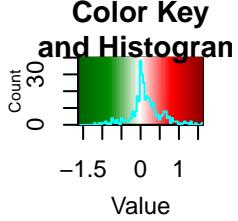
Other



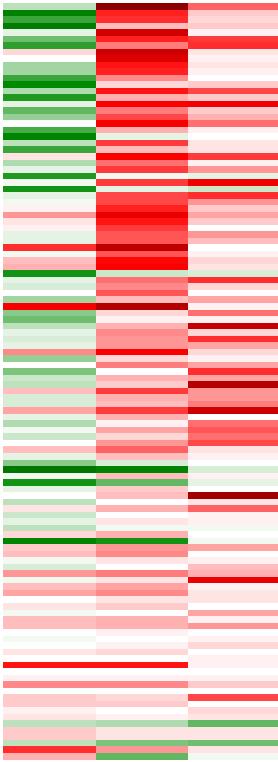
ErbB signaling pathway hsa04012



Signal transduction



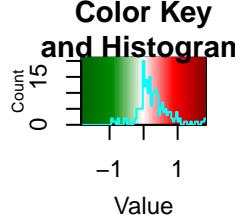
Rap1 signaling pathway hsa04015



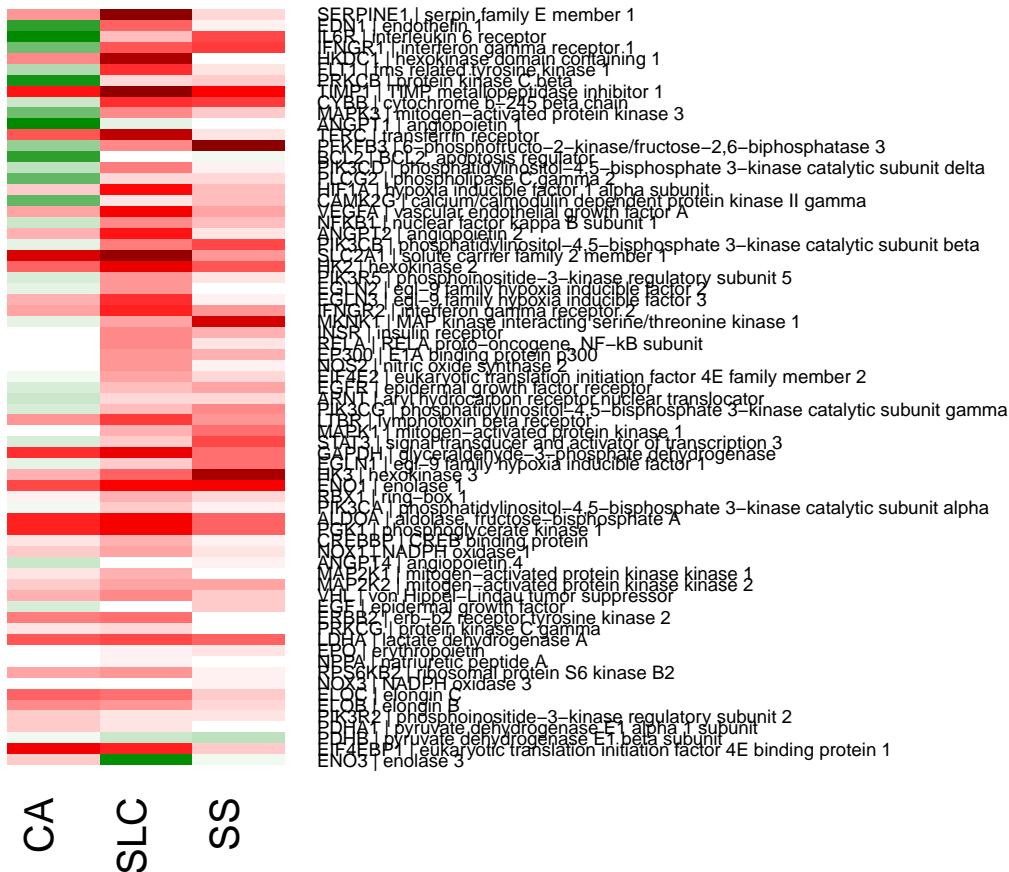
CA
SLC
SS

- RAC2 | Rac family small GTPase 2
- GRB2 | Ras guanine nucleotide exchange factor 2
- SHC1 | Src homology 2 domain, ankyrin repeat and PH domain 3
- PIP3K1A | Phosphoinositide 3-kinase class I alpha
- PLC1 | Phospholipase C class 1
- PLC2 | Phospholipase C class 2
- PLC3 | Phospholipase C class 3
- PLC4 | Phospholipase C class 4
- PLC5 | Phospholipase C class 5
- PLC6 | Phospholipase C class 6
- PLC7 | Phospholipase C class 7
- PLC8 | Phospholipase C class 8
- PLC9 | Phospholipase C class 9
- PLC10 | Phospholipase C class 10
- PLC11 | Phospholipase C class 11
- PLC12 | Phospholipase C class 12
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- PLC96 | Phospholipase C class 96
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- PLC100 | Phospholipase C class 100

Signal transduction



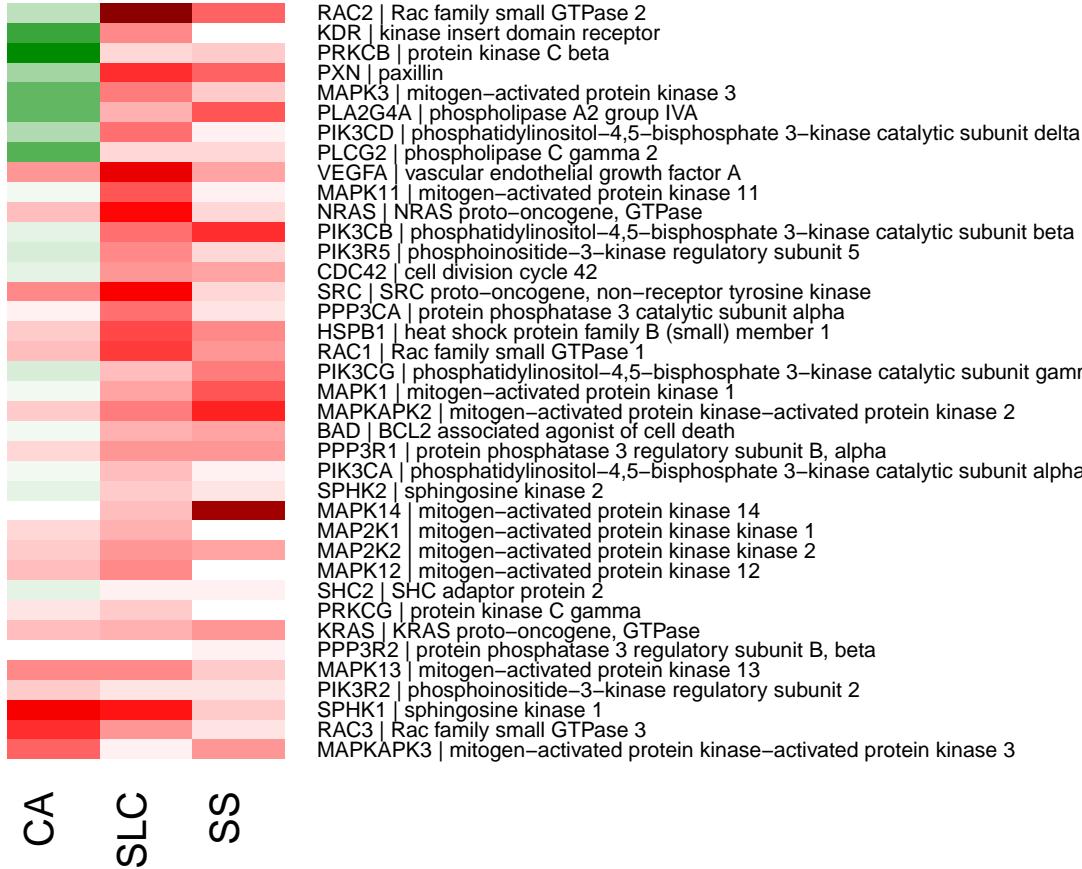
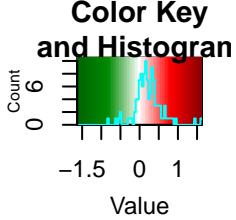
HIF-1 signaling pathway hsa04066



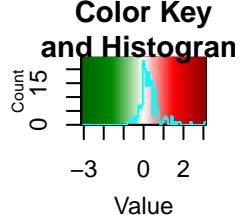
Signal transduction

VEGF signaling pathway

hsa04370

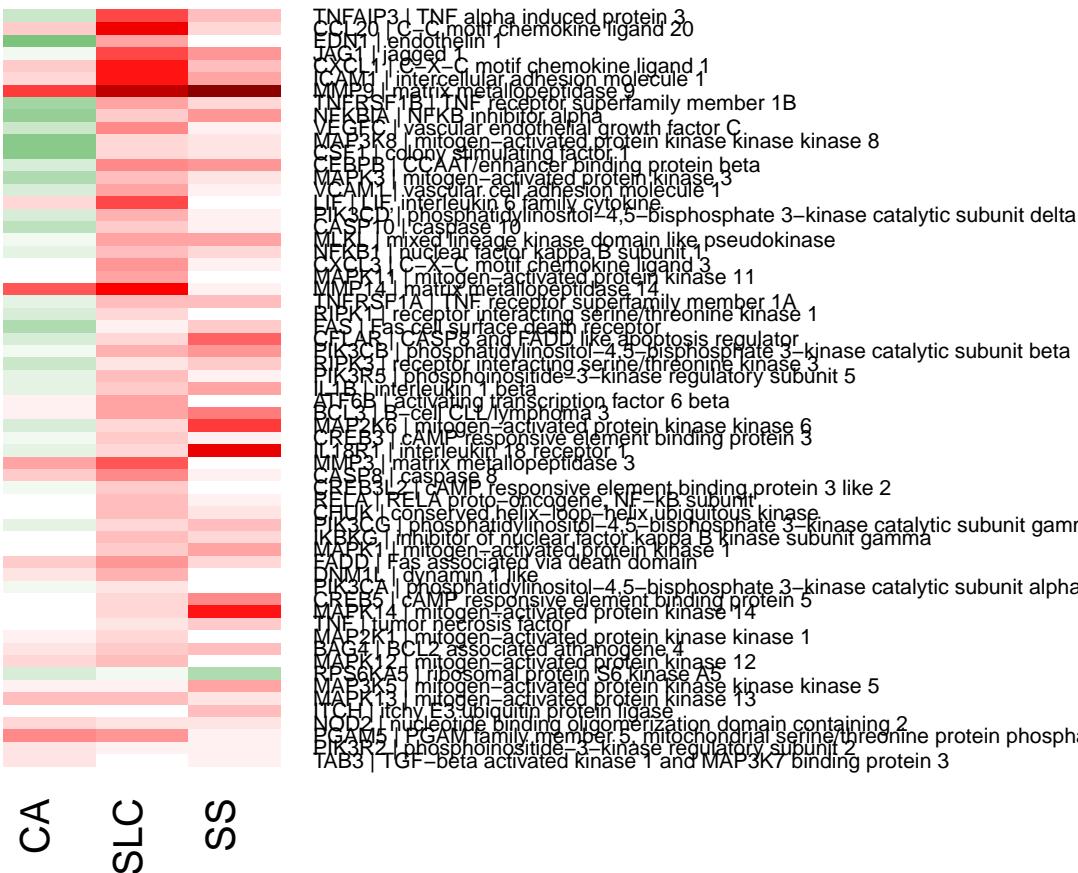


Signal transduction



TNF signaling pathway

hsa04668



Signal transduction

