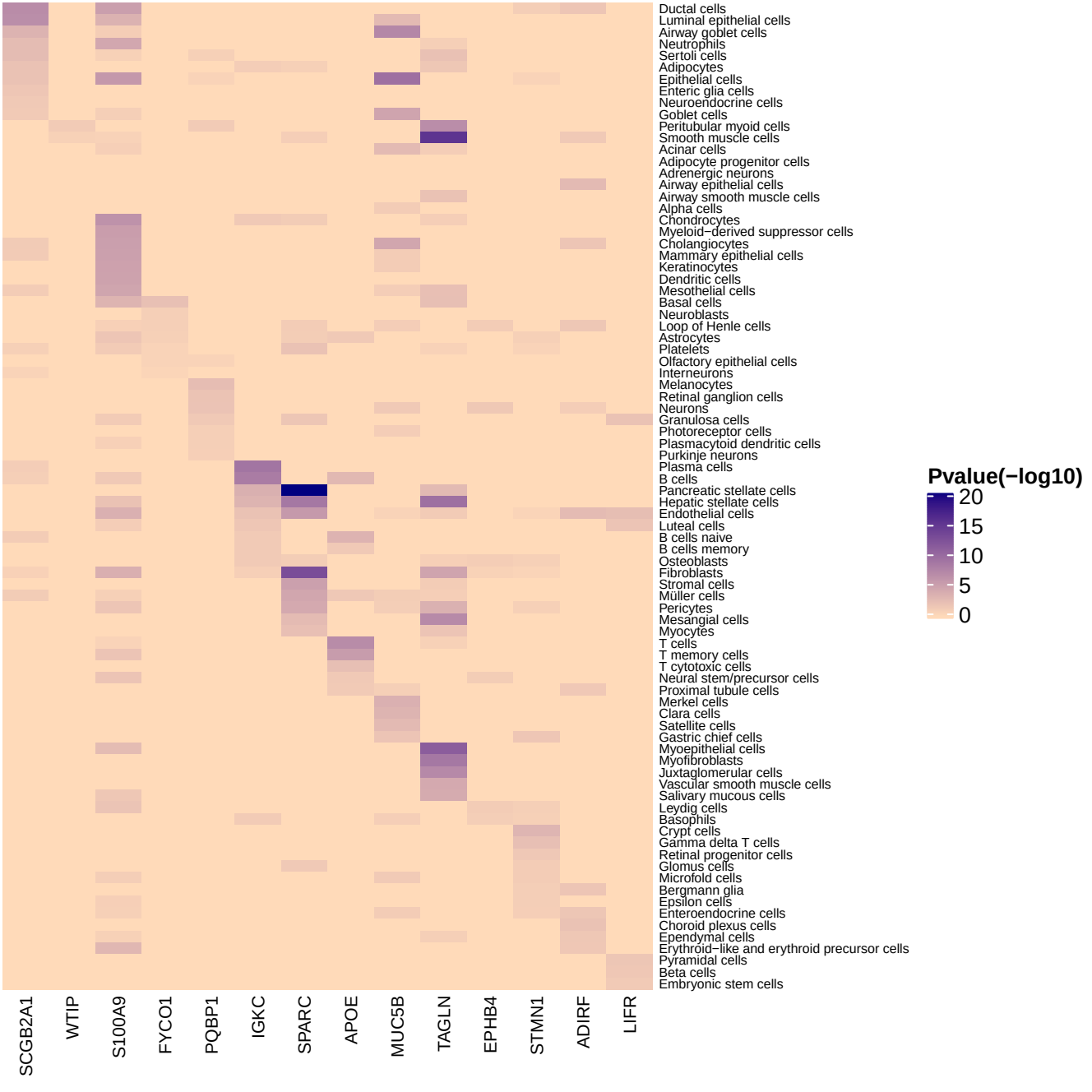
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Luminal epithelial cells
Airway goblet cells
Neutrophils
Sertoli cells
Adipocytes
Epithelial cells
Enteric glia cells
Neuroendocrine cells
Goblet cells
Peritubular myoid cells
Smooth muscle cells
Acinar cells
Adipocyte progenitor cells
Adrenergic neurons
Airway epithelial cells
Airway smooth muscle cells
Alpha cells
Chondrocytes
Myeloid−derived suppressor cells
Cholangiocytes
Mammary epithelial cells
Keratinocytes
Dendritic cells
Mesothelial cells
Basal cells
Neuroblasts
Loop of Henle cells
Astrocytes
Platelets
Olfactory epithelial cells
Interneurons
Melanocytes
Retinal ganglion cells
Neurons
Granulosa cells
Photoreceptor cells
Plasmacytoid dendritic cells
Purkinje neurons
Plasma cells
B cells
Pancreatic stellate cells
Hepatic stellate cells
Endothelial cells
Luteal cells
B cells naive
B cells memory
Osteoblasts
Fibroblasts
Stromal cells
Müller cells
Pericytes
Mesangial cells
Myocytes
T cells
T memory cells
T cytotoxic cells
Neural stem/precursor cells
Proximal tubule cells
Merkel cells
Clara cells
Satellite cells
Gastric chief cells
Myoepithelial cells
Myofibroblasts
Juxtaglomerular cells
Vascular smooth muscle cells
Salivary mucous cells
Leydig cells
Basophils
Crypt cells
Gamma delta T cells
Retinal progenitor cells
Glomus cells
Microfold cells
Bergmann glia
Epsilon cells
Enteroendocrine cells
Choroid plexus cells
Ependymal cells
Erythroid−like and erythroid precursor cells
Pyramidal cells
Beta cells
Embryonic stem cells
SCGB2A1
WTIP
S100A9
FYCO1
PQBP1
IGKC
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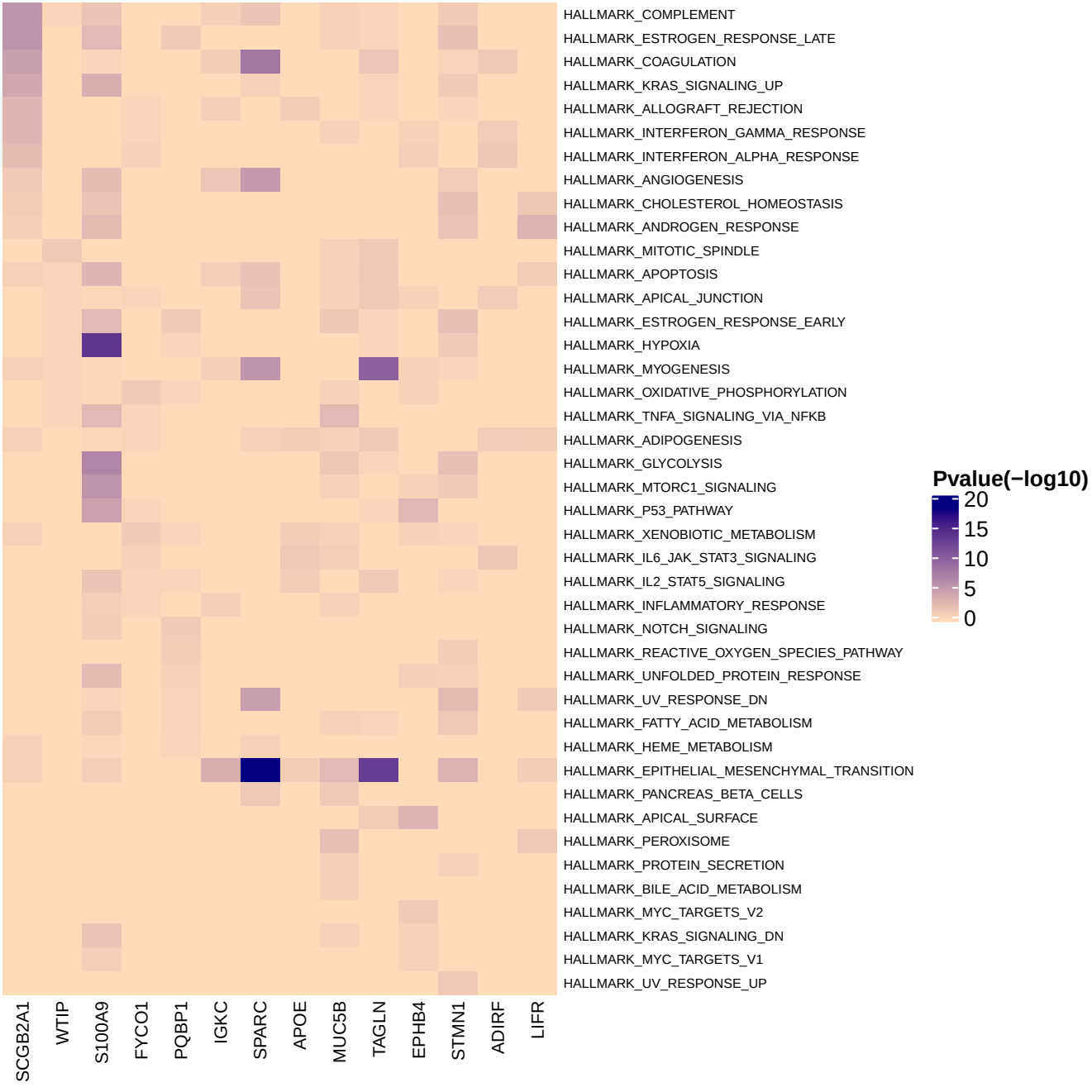
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HALLMARK_COAGULATION
HALLMARK_KRAS_SIGNALING_UP
HALLMARK_ALLOGRAFT_REJECTION
HALLMARK_INTERFERON_GAMMA_RESPONSE
HALLMARK_INTERFERON_ALPHA_RESPONSE
HALLMARK_ANGIOGENESIS
HALLMARK_CHOLESTEROL_HOMEOSTASIS
HALLMARK_ANDROGEN_RESPONSE
HALLMARK_MITOTIC_SPINDLE
HALLMARK_APOPTOSIS
HALLMARK_APICAL_JUNCTION
HALLMARK_ESTROGEN_RESPONSE_EARLY
HALLMARK_HYPOXIA
HALLMARK_MYOGENESIS
HALLMARK_OXIDATIVE_PHOSPHORYLATION
HALLMARK_TNFA_SIGNALING_VIA_NFKB
HALLMARK_ADIPOGENESIS
HALLMARK_GLYCOLYSIS
HALLMARK_MTORC1_SIGNALING
HALLMARK_P53_PATHWAY
HALLMARK_XENOBIOTIC_METABOLISM
HALLMARK_IL6_JAK_STAT3_SIGNALING
HALLMARK_IL2_STAT5_SIGNALING
HALLMARK_INFLAMMATORY_RESPONSE
HALLMARK_NOTCH_SIGNALING
HALLMARK_REACTIVE_OXYGEN_SPECIES_PATHWAY
HALLMARK_UNFOLDED_PROTEIN_RESPONSE
HALLMARK_UV_RESPONSE_DN
HALLMARK_FATTY_ACID_METABOLISM
HALLMARK_HEME_METABOLISM
HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
HALLMARK_PANCREAS_BETA_CELLS
HALLMARK_APICAL_SURFACE
HALLMARK_PEROXISOME
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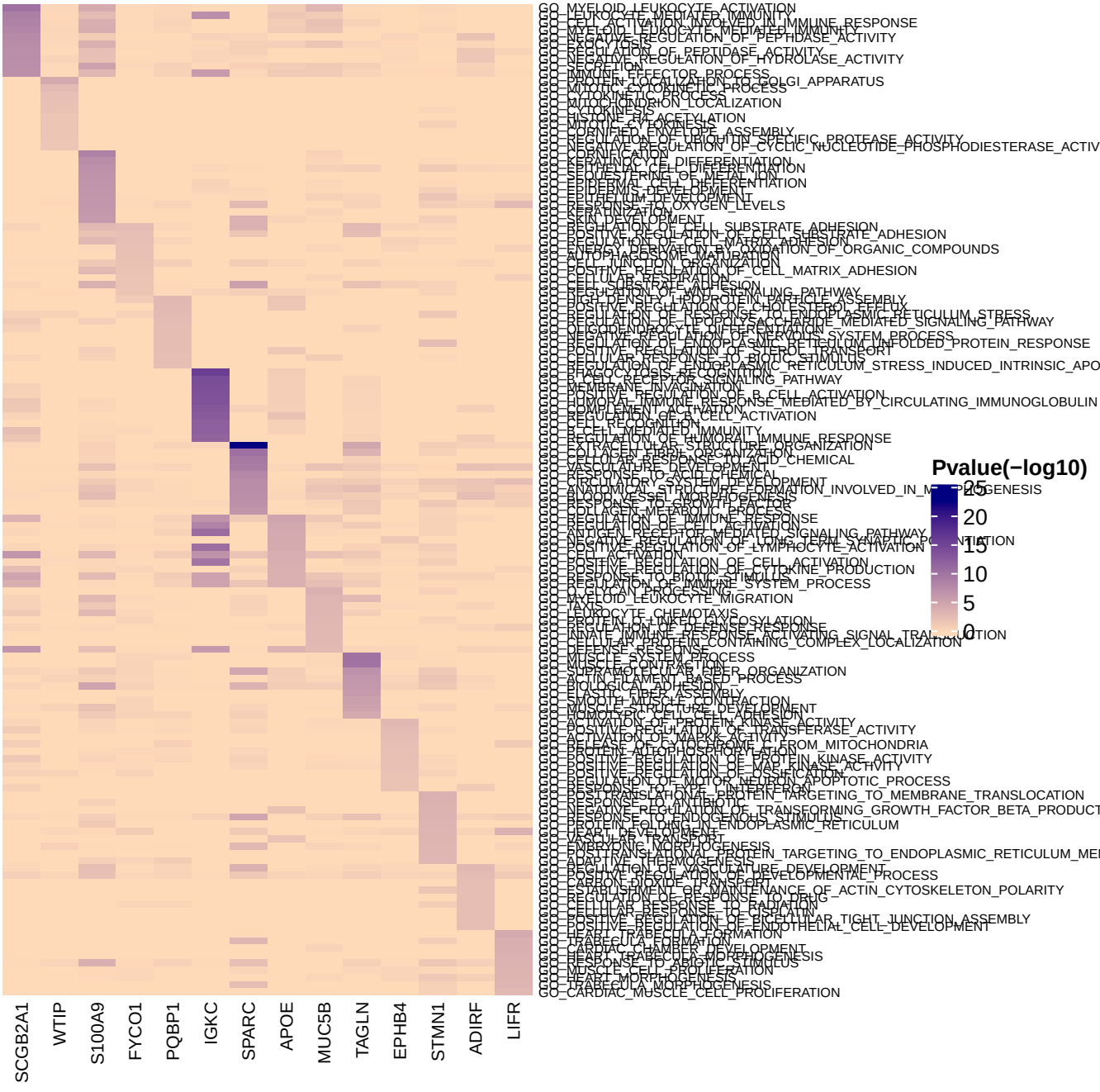
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LIFR
GO_MYELOID_LEUKOCYTE_ACTIVATION
GO_LEUKOCYTE_MEDIATED_IMMUNITY
GO_CELL_ACTIVATION_INVOLVED_IN_IMMUNE_RESPONSE
GO_MYELOID_LEUKOCYTE_MEDIATED_IMMUNITY
GO_NEGATIVE_REGULATION_OF_PEPTIDASE_ACTIVITY
GO_PHAGOCYTOSIS
GO_REGULATION_OF_PEPTIDASE_ACTIVITY
GO_NEGATIVE_REGULATION_OF_HYDROLASE_ACTIVITY
GO_SECRETION
GO_IMMUNE_EFFECTOR_PROCESS
GO_PROTEIN_LOCALIZATION_TO_GOLGI_APPARATUS
GO_MITOTIC_CYTOKINETIC_PROCESS
GO_CYTOKINETIC_PROCESS
GO_MITOCHONDRION_LOCALIZATION
GO_CYTOKINESIS
GO_HISTONE_H4_ACETYLATION
GO_MITOTIC_CYTOKINESIS
GO_CORNIFIED_ENVELOPE_ASSEMBLY
GO_REGULATION_OF_UBIQUITIN_SPECIFIC_PROTEASE_ACTIVITY
GO_NEGATIVE_REGULATION_OF_CYCLIC_NUCLEOTIDE_PHOSPHODIESTERASE_ACTIV
GO_DIFFERENTIATION
GO_KERATINOCYTE_DIFFERENTIATION
GO_EPITHELIAL_CELL_DIFFERENTIATION
GO_SEQUESTERING_OF_METAL_IONS
GO_EPIDERMAL_CELL_DIFFERENTIATION
GO_EPIDERMIS_DEVELOPMENT
GO_EPITHELIUM_DEVELOPMENT
GO_RESPONSE_TO_OXYGEN_LEVELS
GO_KERATINIZATION
GO_SKIN_DEVELOPMENT
GO_REGULATION_OF_CELL_SUBSTRATE_ADHESION
GO_POSITIVE_REGULATION_OF_CELL_SUBSTRATE_ADHESION
GO_REGULATION_OF_CELL_MATRIX_ADHESION
GO_ENERGY_DERIVATION_BY_OXIDATION_OF_ORGANIC_COMPOUNDS
GO_AUTOPHAGOSOME_MATURATION
GO_CELL_JUNCTION_ORGANIZATION
GO_POSITIVE_REGULATION_OF_CELL_MATRIX_ADHESION
GO_CELLULAR_RESPIRATION
GO_CELL_SUBSTRATE_ADHESION
GO_REGULATION_OF_WNT_SIGNALING_PATHWAY
GO_HIGH_DENSITY_LIPOPROTEIN_PARTICLE_ASSEMBLY
GO_POSITIVE_REGULATION_OF_CHOLESTEROL_EFFLUX
GO_REGULATION_OF_RESPONSE_TO_ENDOPLASMIC_RETICULUM_STRESS
GO_REGULATION_OF_LIPOPOLYSACCHARIDE_MEDIATED_SIGNALING_PATHWAY
GO_OLIGODENDROCYTE_DIFFERENTIATION
GO_NEGATIVE_REGULATION_OF_NERVOUS_SYSTEM_PROCESS
GO_REGULATION_OF_ENDOPLASMIC_RETICULUM_UNFOLDED_PROTEIN_RESPONSE
GO_POSITIVE_REGULATION_OF_CHOLESTEROL_TRANSPORT
GO_CELLULAR_RESPONSE_TO_BIOTIC_STIMULUS
GO_REGULATION_OF_ENDOPLASMIC_RETICULUM_STRESS_INDUCED_INTRINSIC_APO
GO_PHAGOCYTOSIS_RECOGNITION
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GO_MEMBRANE_INVAGINATION
GO_POSITIVE_REGULATION_OF_B_CELL_ACTIVATION
GO_HUMORAL_IMMUNE_RESPONSE_MEDIATED_BY_CIRCULATING_IMMUNOGLOBULIN
GO_COMPLEMENT_ACTIVATION
GO_REGULATION_OF_B_CELL_ACTIVATION
GO_CELL_RECOGNITION
GO_ROOT_MEDIATED_IMMUNITY
GO_REGULATION_OF_HUMORAL_IMMUNE_RESPONSE
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GO_VASCULATURE_DEVELOPMENT
GO_RESPONSE_TO_ACID_CHEMICAL
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GO_ANATOMICAL_STRUCTURE_MORPHOGENESIS
GO_BLOOD_VESSEL_MORPHOGENESIS
GO_RESPONSE_TO_GROWTH_FACTOR
GO_CELLULAR_METABOLIC_PROCESS
GO_REGULATION_OF_IMMUNE_RESPONSE
GO_REGULATION_OF_CELL_ACTIVATION
GO_NATURAL_KILLER_CELL_MEDIATED_SIGNALING_PATHWAY
GO_NEGATIVE_REGULATION_OF_LONG_TERM_SYNAPTIC_POTENTIATION
GO_POSITIVE_REGULATION_OF_LYMPHOCYTE_ACTIVATION
GO_CELL_ACTIVATION
GO_POSITIVE_REGULATION_OF_CELL_ACTIVATION
GO_POSITIVE_REGULATION_OF_CYTOKINE_PRODUCTION
GO_RESPONSE_TO_BIOTIC_STIMULUS
GO_REGULATION_OF_IMMUNE_SYSTEM_PROCESS
GO_LIPOLYSIS_PROCESSING
GO_MYELOID_LEUKOCYTE_MIGRATION
GO_TAXIS
GO_LEUKOCYTE_CHEMOTAXIS
GO_PROTEIN_O_LINKED_GLYCOSYLATION
GO_REGULATION_OF_DEFENSE_RESPONSE
GO_INNATE_IMMUNE_RESPONSE_ACTIVATING_SIGNAL_TRANSDUCTION
GO_CELLULAR_PROTEIN_CONTAINING_COMPLEX_LOCALIZATION
GO_DEFENSE_RESPONSE
GO_MUSCLE_SYSTEM_PROCESS
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GO_ACTIN_FILAMENT_BASED_PROCESS
GO_BIOLOGICAL_ADHESION
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GO_POSITIVE_REGULATION_OF_TRANSFERASE_ACTIVITY
GO_ACTIVATION_OF_MAPKK_ACTIVITY
GO_RELEASE_OF_CYTOCHROME_C_FROM_MITOCHONDRIA
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GO_POSITIVE_REGULATION_OF_PROTEIN_KINASE_ACTIVITY
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GO_HEART_DEVELOPMENT
GO_VASCULAR_TRANSPORT
GO_EMBRYONIC_MORPHOGENESIS
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GO_ADAPTIVE_THERMOGENESIS
GO_REGULATION_OF_VASCULATURE_DEVELOPMENT
GO_POSITIVE_REGULATION_OF_DEVELOPMENTAL_PROCESS
GO_CARBOHYDRATE_TRANSMEMBRANE_TRANSPORT
GO_ESTABLISHMENT_OR_MAINTENANCE_OF_ACTIN_CYTOSKELETON_POLARITY
GO_REGULATION_OF_RESPONSE_TO_DRUG
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GO_CELLULAR_RESPONSE_TO_OXYGEN_LEVELS
GO_POSITIVE_REGULATION_OF_BICELLULAR_TIGHT_JUNCTION_ASSEMBLY
GO_POSITIVE_REGULATION_OF_ENDOTHELIAL_CELL_DEVELOPMENT
GO_HEART_TRABECULA_FORMATION
GO_TRABECULA_FORMATION
GO_CARDIAC_CHAMBER_DEVELOPMENT
GO_HEART_TRABECULA_MORPHOGENESIS
GO_RESPONSE_TO_ABIOTIC_STIMULUS
GO_MUSCLE_CELL_PROLIFERATION
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KEGG_GRAFT_VERSUS_HOST_DISEASE
KEGG_TYPE_I_DIABETES_MELLITUS
KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION
KEGG_AUTOIMMUNE_THYROID_DISEASE
KEGG_VIRAL_MYOCARDITIS
KEGG_LEISHMANIA_INFECTION
KEGG_CELL_ADHESION_MOLECULES_CAMS
KEGG_CIRCADIAN_RHYTHM_MAMMAL
KEGG_WNT_SIGNALING_PATHWAY
KEGG_SNARE_INTERACTIONS_IN_VESICULAR_TRANSPORT
KEGG_VASOPRESSIN_REGULATED_WATER_REABSORPTION
KEGG_AMYOTROPHIC_LATERAL_SCLEROSIS_ALS
KEGG_BASAL_CELL_CARCINOMA
KEGG_HEDGEHOG_SIGNALING_PATHWAY
KEGG_MELANOGENESIS
KEGG_ENDOCYTOSIS
KEGG_PATHWAYS_IN_CANCER
KEGG_GLYCOLYSIS_GLUCONEOGENESIS
KEGG_RENAL_CELL_CARCINOMA
KEGG_FOCAL_ADHESION
KEGG_BLADDER_CANCER
KEGG_MTOR_SIGNALING_PATHWAY
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KEGG_ENDOMETRIAL_CANCER
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KEGG_GLIOMA
KEGG_ADIPOCYTOKINE_SIGNALING_PATHWAY
KEGG_LONG_TERM_POTENTIATION
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KEGG_SPLICEOSOME
KEGG_CALCIUM_SIGNALING_PATHWAY
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KEGG_ALPHA_LINOLENIC_ACID_METABOLISM
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KEGG_LEUKOCYTE_TRANSENDOTHELIAL_MIGRATION
KEGG_REGULATION_OF_ACTIN_CYTOSKELETON
KEGG_ASTHMA
KEGG_GLUTATHIONE_METABOLISM
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KEGG_CHEMOKINE_SIGNALING_PATHWAY
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KEGG_DILATED_CARDIOMYOPATHY
KEGG_TIGHT_JUNCTION
KEGG_PROGESTERONE_MEDIATED_OOCYTE_MATURATION
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KEGG_PROTEIN_EXPORT
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KEGG_TGF_BETA_SIGNALING_PATHWAY
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KEGG_ASCORBATE_AND_ALDARATE_METABOLISM
KEGG_PENTOSE_AND_GLUCURONATE_INTERCONVERSIONS
KEGG_PROXIMAL_TUBULE_BICARBONATE_RECLAMATION
KEGG_ETHER_LIPID_METABOLISM
KEGG_JAK_STAT_SIGNALING_PATHWAY
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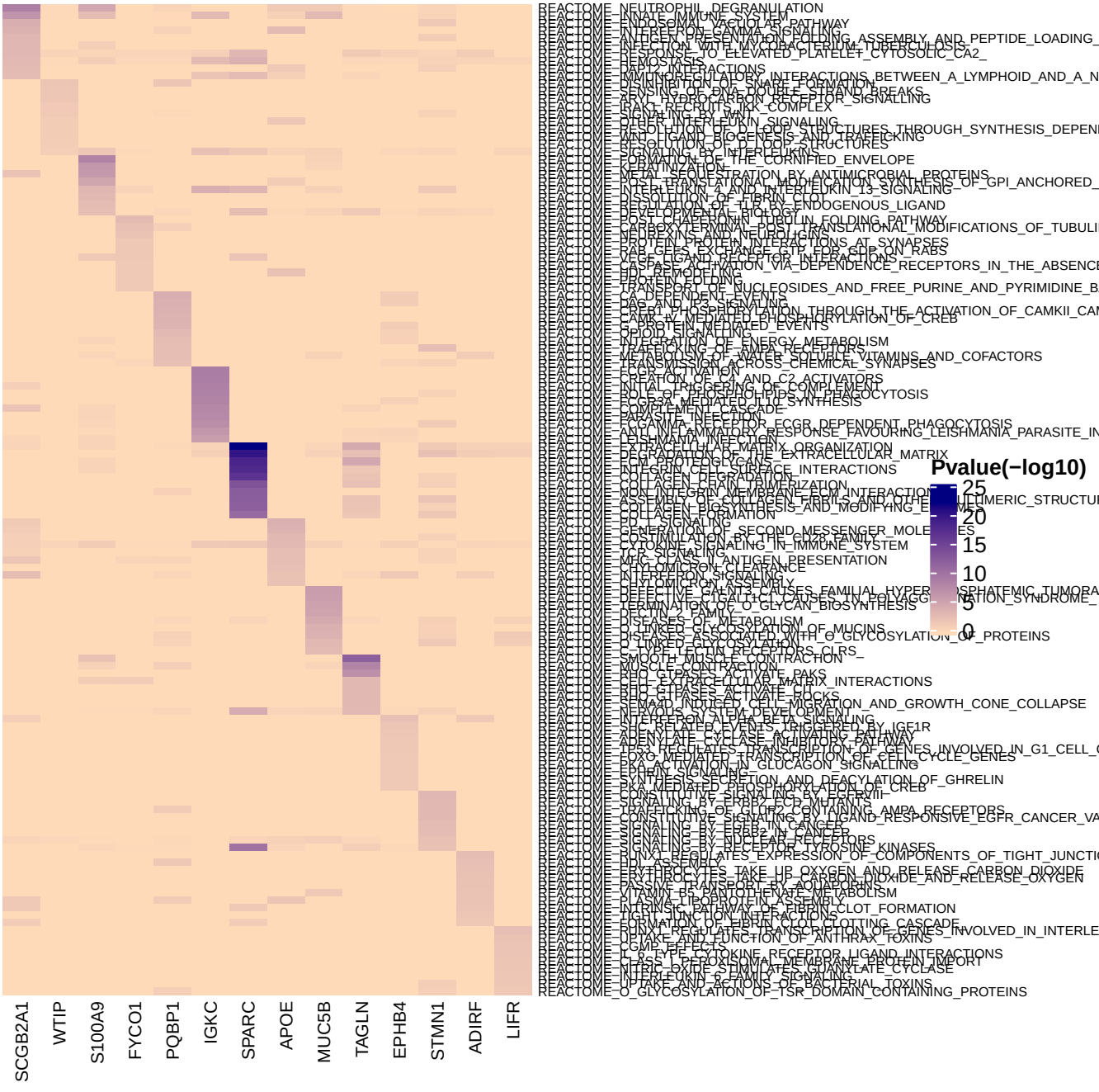
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LIFR
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REACTOME_INNATE_IMMUNE_SYSTEM
REACTOME_ENDOSOMAL_VACUOLAR_PATHWAY
REACTOME_INTERFERON_GAMMA_SIGNALING
REACTOME_ANTIGEN_PRESENTATION_FOLDING_ASSEMBLY_AND_PEPTIDE_LOADING_
REACTOME_INFECTION_WITH_MYCOBACTERIUM_TUBERCULOSIS_
REACTOME_RESPONSE_TO_ELEVATED_PLATELET_CYTOSOLIC_CA2_
REACTOME_DAP12_INTERACTIONS
REACTOME_IMMUNOREGULATORY_INTERACTIONS_BETWEEN_A_LYMPHOID_AND_A_N
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REACTOME_ARYL_HYDROCARBON_RECEPTOR_SIGNALLING
REACTOME_T_CELL_RECEPTOR_TCR_COMPLEX
REACTOME_SIGNALING_BY_WNT
REACTOME_OTHER_INTERLEUKIN_SIGNALING
REACTOME_REPLICATION_OF_DI_LOOP_STRUCTURES_THROUGH_SYNTHESIS_DEPEN
REACTOME_WNT_LIGAND_BIOGENESIS_AND_TRAFFICKING
REACTOME_REPLICATION_OF_DI_LOOP_STRUCTURES
REACTOME_SIGNALING_BY_INTERLEUKINS
REACTOME_FORMATION_OF_THE_CORNIFIED_ENVELOPE
REACTOME_KERATINIZATION
REACTOME_METAL_SEQUESTRATION_BY_ANTIMICROBIAL_PROTEINS
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REACTOME_DISSOLUTION_OF_FIBRIN_CLOT
REACTOME_REGULATION_OF_TLR_BY_ENDOGENOUS_LIGAND
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REACTOME_CARBOXYTERMINAL_POST_TRANSLATIONAL_MODIFICATIONS_OF_TUBULI
REACTOME_EPHRINS_AND_NEPHRINS
REACTOME_PROTEIN_PROTEIN_INTERACTIONS_AT_SYNAPSES
REACTOME_RAB_GEFS_EXCHANGE_GTP_FOR_GDP_ON_RABS
REACTOME_CASPASE_ACTIVATION_VIA_DEPENDENCE_RECEPTORS_IN_THE_ABSENCE
REACTOME_HDL_REMODELING
REACTOME_PROTEIN_FOLDING
REACTOME_TRANSPORT_OF_NUCLEOSIDES_AND_FREE_PURINE_AND_PYRIMIDINE_B
REACTOME_CA_DEPENDENT_EVENTS
REACTOME_RAS_AND_RAP_SIGNALING
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REACTOME_METABOLISM_OF_WATER_SOLUBLE_VITAMINS_AND_COFACTORS
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REACTOME_INITIAL_TRIGGERING_OF_COMPLEMENT
REACTOME_ROLE_OF_PHOSPHOLIPIDS_IN_PHAGOCYTOSIS
REACTOME_FCGR3A_MEDIATED_IL10_SYNTHESIS
REACTOME_COMPLEMENT_CASCADE
REACTOME_PARASITE_INFECTION
REACTOME_FCGAMMA_RECEPTOR_FCGR_DEPENDENT_PHAGOCYTOSIS
REACTOME_ANTI_INFLAMMATORY_RESPONSE_FAVOURING_LEISHMANIA_PARASITE_IN
REACTOME_LEISHMANIA_INFECTION
REACTOME_EXTRACELLULAR_MATRIX_ORGANIZATION
REACTOME_DEGRADATION_OF_THE_EXTRACELLULAR_MATRIX
REACTOME_GLYCOSAMINOGLYCANS
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REACTOME_COLLAGEN_DEGRADATION
REACTOME_COLLAGEN_CHAIN_TRIMERIZATION
REACTOME_NON_INTEGRIN_MEMBRANE_ECM_INTERACTIONS
REACTOME_ASSEMBLY_OF_COLLAGEN_FIBRILS_AND_OTHER_MULTIMERIC_STRUCTUR
REACTOME_COLLAGEN_BIOSYNTHESIS_AND_MODIFYING_ENZYMES
REACTOME_COLLAGEN_FORMATION
REACTOME_CD22_SIGNALING
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REACTOME_COSTIMULATION_BY_THE_CD28_FAMILY
REACTOME_CYTOKINE_SIGNALING_IN_IMMUNE_SYSTEM
REACTOME_TCR_SIGNALING
REACTOME_MHC_CLASS_II_ANTIGEN_PRESENTATION
REACTOME_CHYLOMICRON_CLEARANCE
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REACTOME_MUSCLE_CONTRACTION
REACTOME_RHO_GTPASES_ACTIVATE_PAKS
REACTOME_CELL_EXTRACELLULAR_MATRIX_INTERACTIONS
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REACTOME_RHO_GTPASES_ACTIVATE_PKNS
REACTOME_SEMA4D_INDUCED_CELL_MIGRATION_AND_GROWTH_CONE_COLLAPSE
REACTOME_NERVOUS_SYSTEM_DEVELOPMENT
REACTOME_INTERFERON_ALPHA_BETA_SIGNALING
REACTOME_SHC_RELATED_EVENTS_TRIGGERED_BY_IGF1R
REACTOME_ADENYLATE_CYCLASE_ACTIVATING_PATHWAY
REACTOME_ADENYLATE_CYCLASE_INHIBITORY_PATHWAY
REACTOME_TP53_REGULATES_TRANSCRIPTION_OF_GENES_INVOLVED_IN_G1_CELL_C
REACTOME_FOXO_MEDIATED_TRANSCRIPTION_OF_CELL_CYCLE_GENES
REACTOME_PKA_ACTIVATION_IN_GLUCAGON_SIGNALLING
REACTOME_EPHRIN_SIGNALING
REACTOME_SYNTHESIS_SECRETION_AND_DEACYLATION_OF_GHRELIN
REACTOME_PKA_MEDIATED_PHOSPHORYLATION_OF_CREB
REACTOME_CONSTITUTIVE_SIGNALING_BY_EGFRVIII
REACTOME_SIGNALING_BY_ERBB2_ECD_MUTANTS
REACTOME_TRAFFICKING_OF_GLUR2_CONTAINING_AMPA_RECEPTORS
REACTOME_CONSTITUTIVE_SIGNALING_BY_LIGAND_RESPONSIVE_EGFR_CANCER_VA
REACTOME_SIGNALING_BY_ERBB2_IN_CANCER
REACTOME_SIGNALING_BY_ERBB2_IN_CANCER
REACTOME_SIGNALING_BY_NUCLEAR_RECEPTORS
REACTOME_SIGNALING_BY_RHO_GTPASES_MIRO_RHOBTB_KINASES
REACTOME_RUNX1_REGULATES_EXPRESSION_OF_COMPONENTS_OF_TIGHT_JUNCTI
REACTOME_HDL_ASSEMBLY
REACTOME_ERYTHROCYTES_TAKE_UP_OXYGEN_AND_RELEASE_CARBON_DIOXIDE
REACTOME_ERYTHROCYTES_TAKE_UP_CARBON_DIOXIDE_AND_RELEASE_OXYGEN
REACTOME_PASSIVE_TRANSPORT_BY_AQUAPORINS
REACTOME_VITAMIN_B5_PANTOTHENATE_METABOLISM
REACTOME_VLDL_LIPOPROTEIN_ASSEMBLY
REACTOME_INTRINSIC_PATHWAY_OF_FIBRIN_CLOT_FORMATION
REACTOME_FUNCTION_OF_INTRACELLULAR_CLOTTING_CASCADE
REACTOME_FORMATION_OF_FIBRIN_CLOT_CLOTTING_CASCADE
REACTOME_RUNX1_REGULATES_TRANSCRIPTION_OF_GENES_INVOLVED_IN_INTERLE
REACTOME_UPTAKE_AND_FUNCTION_OF_ANTHRAX_TOXINS
REACTOME_CGMP_EFFECTS
REACTOME_IL_6_TYPE_CYTOKINE_RECEPTOR_LIGAND_INTERACTIONS
REACTOME_RAS_DEPENDENT_PROTEIN_MEMBRANE_PROTEIN_IMPORT
REACTOME_NITRIC_OXIDE_STIMULATES_GUANYLATE_CYCLASE
REACTOME_INTERLEUKIN_6_FAMILY_SIGNALING
REACTOME_UPTAKE_AND_FUNCTIONS_OF_BACTERIAL_TOXINS
REACTOME_O_GLYCOSYLATION_OF_TSR_DOMAIN_CONTAINING_PROTEINS
Pvalue(−log10)
25
20
15
10
5
0