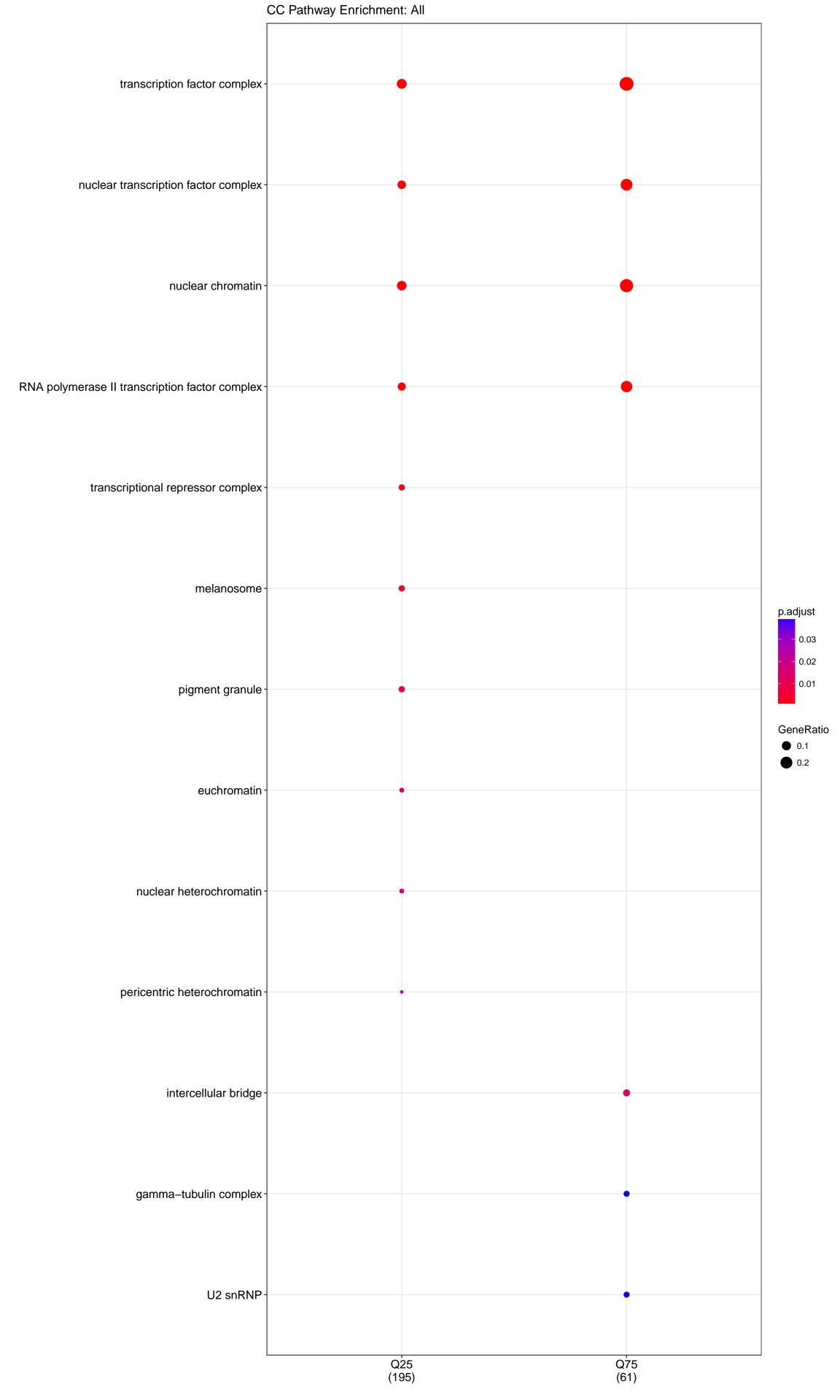
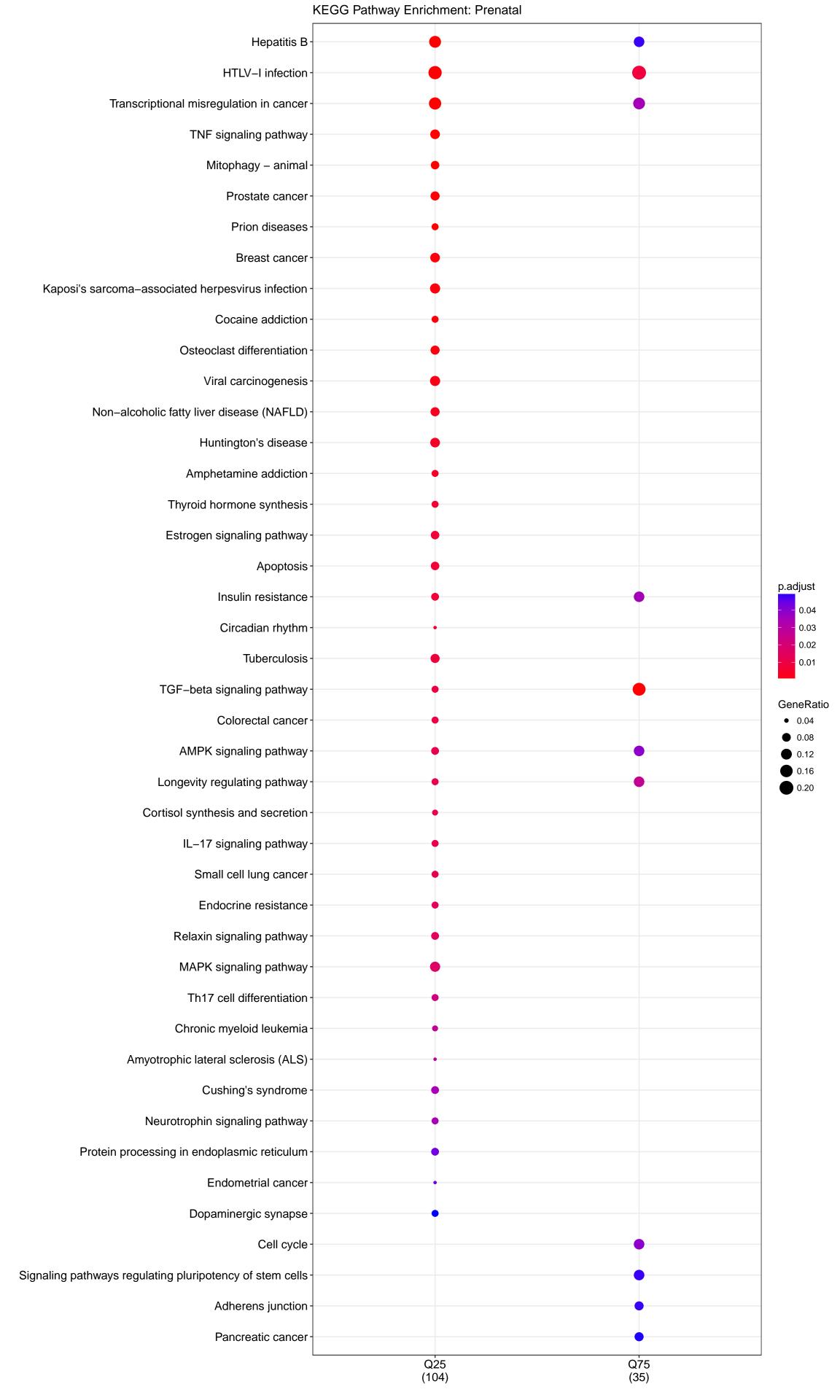
KEGG Pathway Enrichment: All Hepatitis B HTLV-I infection Transcriptional misregulation in cancer TNF signaling pathway Mitophagy - animal Prostate cancer Prion diseases Breast cancer Kaposi's sarcoma-associated herpesvirus infection Cocaine addiction Osteoclast differentiation Viral carcinogenesis Non-alcoholic fatty liver disease (NAFLD) Huntington's disease Amphetamine addiction Thyroid hormone synthesis Estrogen signaling pathway Apoptosis Insulin resistance Circadian rhythm **Tuberculosis** TGF-beta signaling pathway GeneRatio Colorectal cancer • 0.05 AMPK signaling pathway 0.10 Longevity regulating pathway Cortisol synthesis and secretion p.adjust IL-17 signaling pathway 0.04 Small cell lung cancer 0.03 Endocrine resistance 0.02 0.01 Relaxin signaling pathway MAPK signaling pathway Th17 cell differentiation Chronic myeloid leukemia Amyotrophic lateral sclerosis (ALS) Cushing's syndrome Neurotrophin signaling pathway Protein processing in endoplasmic reticulum Endometrial cancer Dopaminergic synapse Cell cycle Non-small cell lung cancer Pancreatic cancer Bladder cancer Gastric cancer Cellular senescence Glioma Melanoma PI3K-Akt signaling pathway Hepatocellular carcinoma Aldosterone synthesis and secretion MicroRNAs in cancer Thyroid cancer Q25 (104) Q75 (33)







0.03

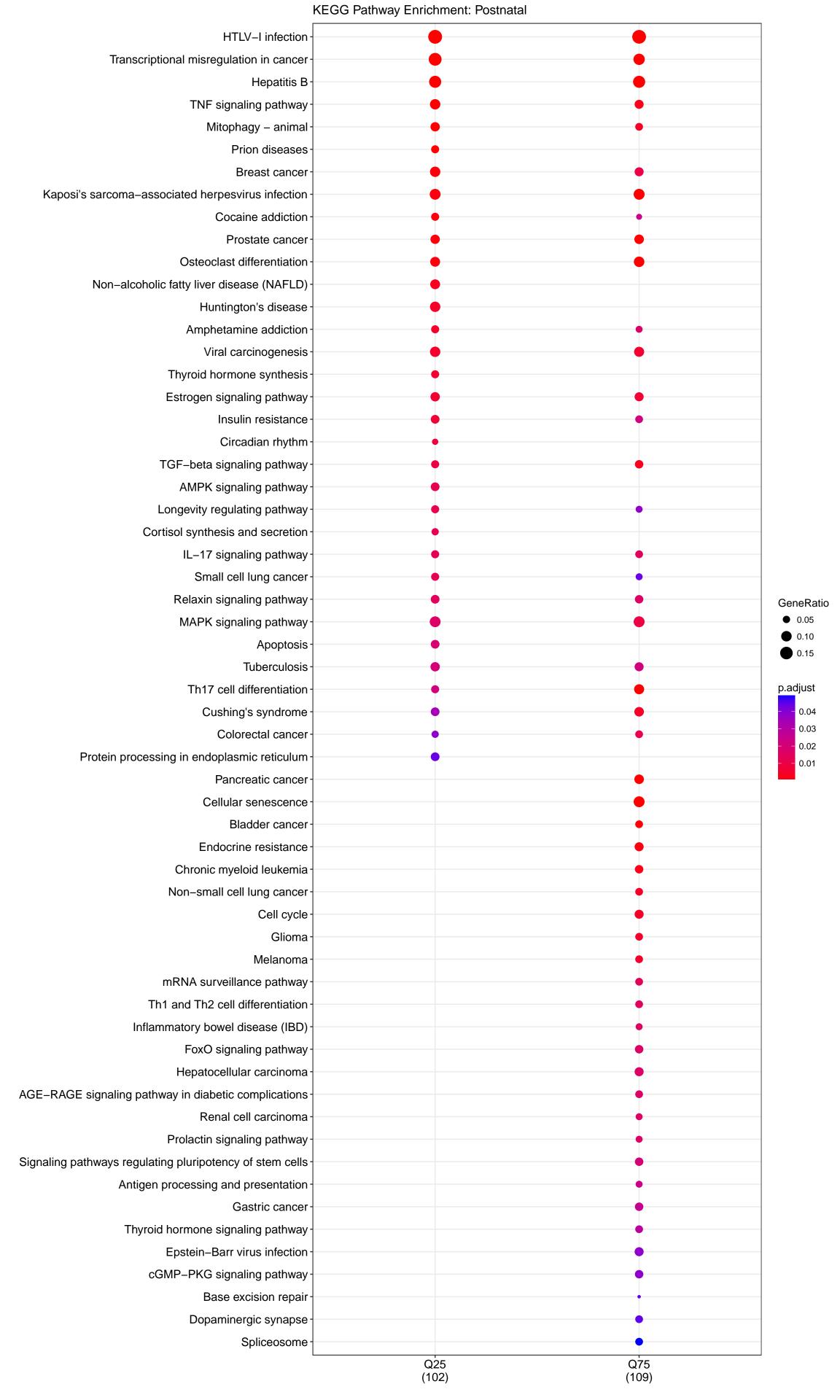
0.02

0.01

(198)

(65)

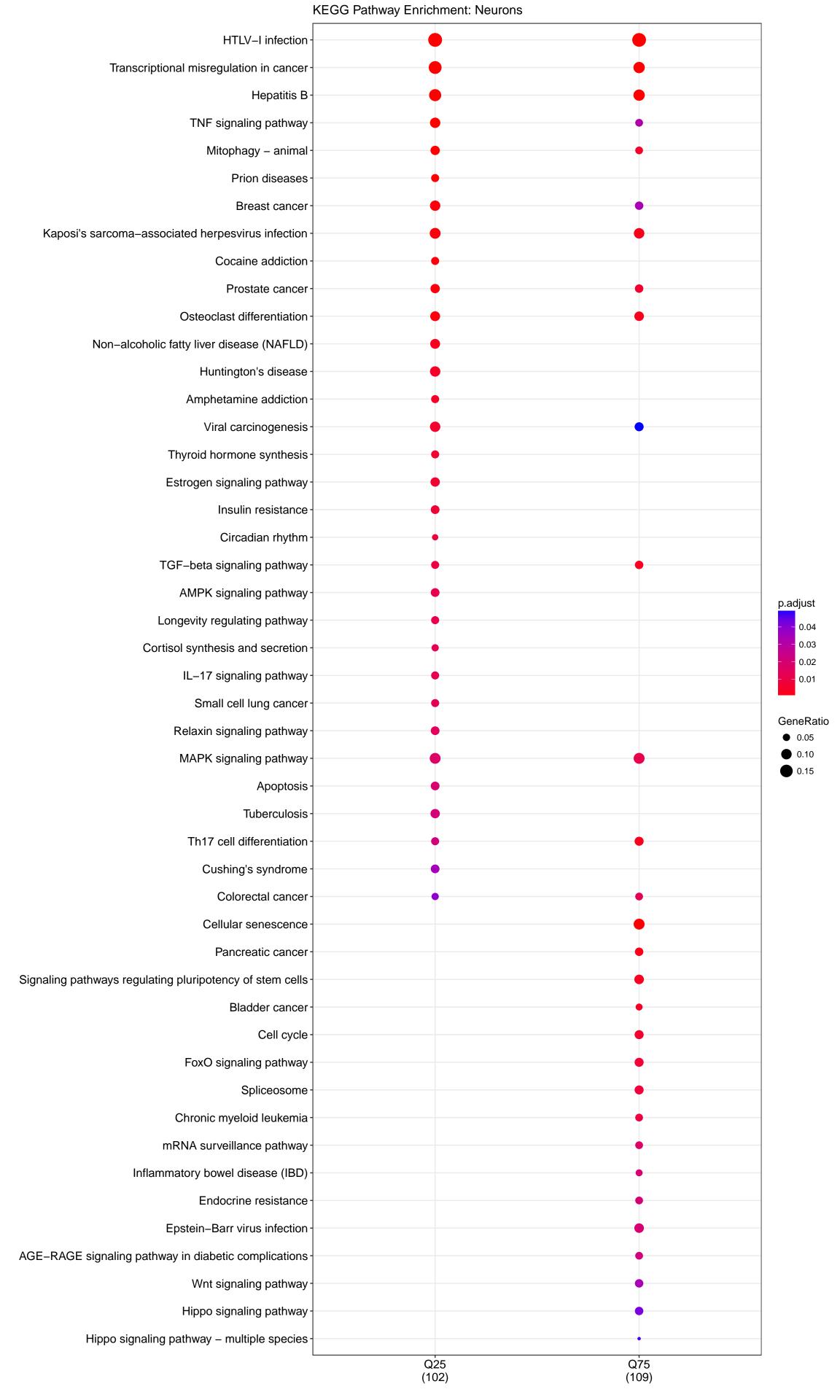
CC Pathway Enrichment: Prenatal transcription factor complex nuclear transcription factor complexnuclear chromatin RNA polymerase II transcription factor complextranscriptional repressor complex-GeneRatio 0.1 melanosome 0.2 p.adjust 0.04 0.03 pigment granule 0.02 0.01 euchromatin nuclear heterochromatin pericentric heterochromatin intercellular bridge U2 snRNP Q25 (197) Q75 (64)



(196)

(225)

CC Pathway Enrichment: Postnatal transcription factor complex nuclear transcription factor complexnuclear chromatin RNA polymerase II transcription factor complextranscriptional repressor complexmelanosome pigment granule GeneRatio 0.05 0.10 0.15 p.adjust euchromatin · 0.04 0.03 0.02 0.01 nuclear periphery protein-DNA complex nuclear matrix histone methyltransferase complex nucleolar part spliceosomal complexintercellular bridge Q25 (195) Q75 (227)



CC Pathway Enrichment: Neurons transcription factor complexnuclear transcription factor complexnuclear chromatin RNA polymerase II transcription factor complextranscriptional repressor complexeuchromatin melanosome p.adjust 0.02 0.01 pigment granule GeneRatio • 0.05 0.10 protein-DNA complex nuclear periphery spliceosomal complex histone methyltransferase complex nuclear euchromatin nuclear matrix methyltransferase complex Q75 (230) Q25 (194)

KEGG Pathway Enrichment: Glia HTLV-I infection Transcriptional misregulation in cancer Hepatitis B TNF signaling pathway Mitophagy – animal Prion diseases Viral carcinogenesis Breast cancer Kaposi's sarcoma-associated herpesvirus infection Prostate cancer Cocaine addiction Osteoclast differentiation Non-alcoholic fatty liver disease (NAFLD) Amphetamine addiction Thyroid hormone synthesis Estrogen signaling pathway Insulin resistance Circadian rhythm TGF-beta signaling pathway Huntington's disease AMPK signaling pathway Longevity regulating pathway IL–17 signaling pathway Small cell lung cancer Cortisol synthesis and secretion Relaxin signaling pathway MAPK signaling pathway **Tuberculosis** Th17 cell differentiation Cushing's syndrome Neurotrophin signaling pathway Colorectal cancer GeneRatio Dopaminergic synapse 0.05 Endocrine resistance Cellular senescence Pancreatic cancer p.adjust FoxO signaling pathway Chronic myeloid leukemia AGE-RAGE signaling pathway in diabetic complications Signaling pathways regulating pluripotency of stem cells Acute myeloid leukemia Wnt signaling pathway Hepatocellular carcinoma **Endometrial cancer** Epstein-Barr virus infection Human papillomavirus infection Bladder cancer-Thyroid hormone signaling pathway Inflammatory bowel disease (IBD) Non-small cell lung cancer Cell cycle Renal cell carcinoma Prolactin signaling pathway Adherens junction Gastric cancer Thyroid cancer Hippo signaling pathway mRNA surveillance pathway Th1 and Th2 cell differentiation B cell receptor signaling pathway Chagas disease (American trypanosomiasis) Melanoma Platinum drug resistance Leishmaniasis Herpes simplex infection Toxoplasmosis -Legionellosis cAMP signaling pathway cGMP-PKG signaling pathway Base excision repair Hepatitis C Spliceosome Measles Q⁷⁵ (113) Q25 (98)

0.10

0.15

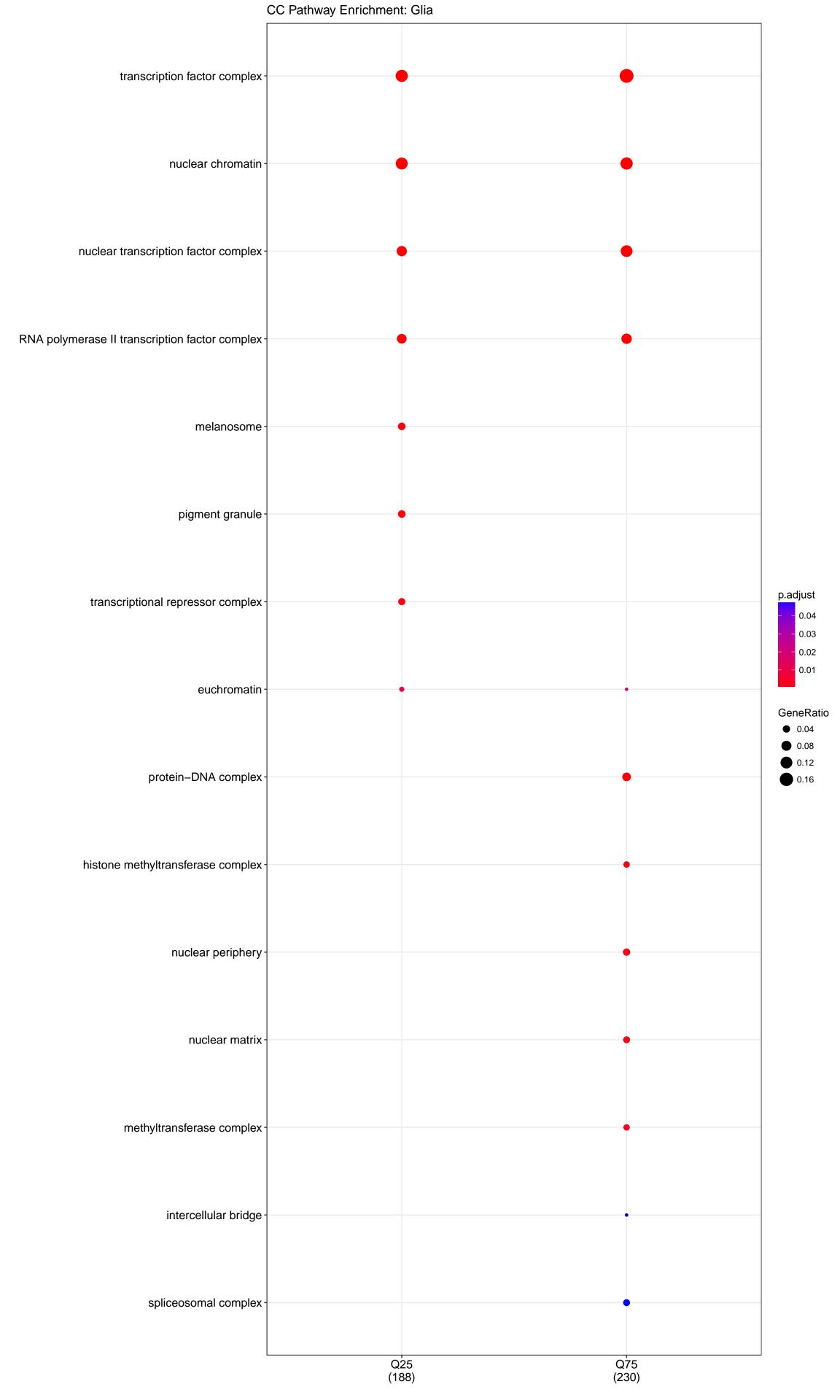
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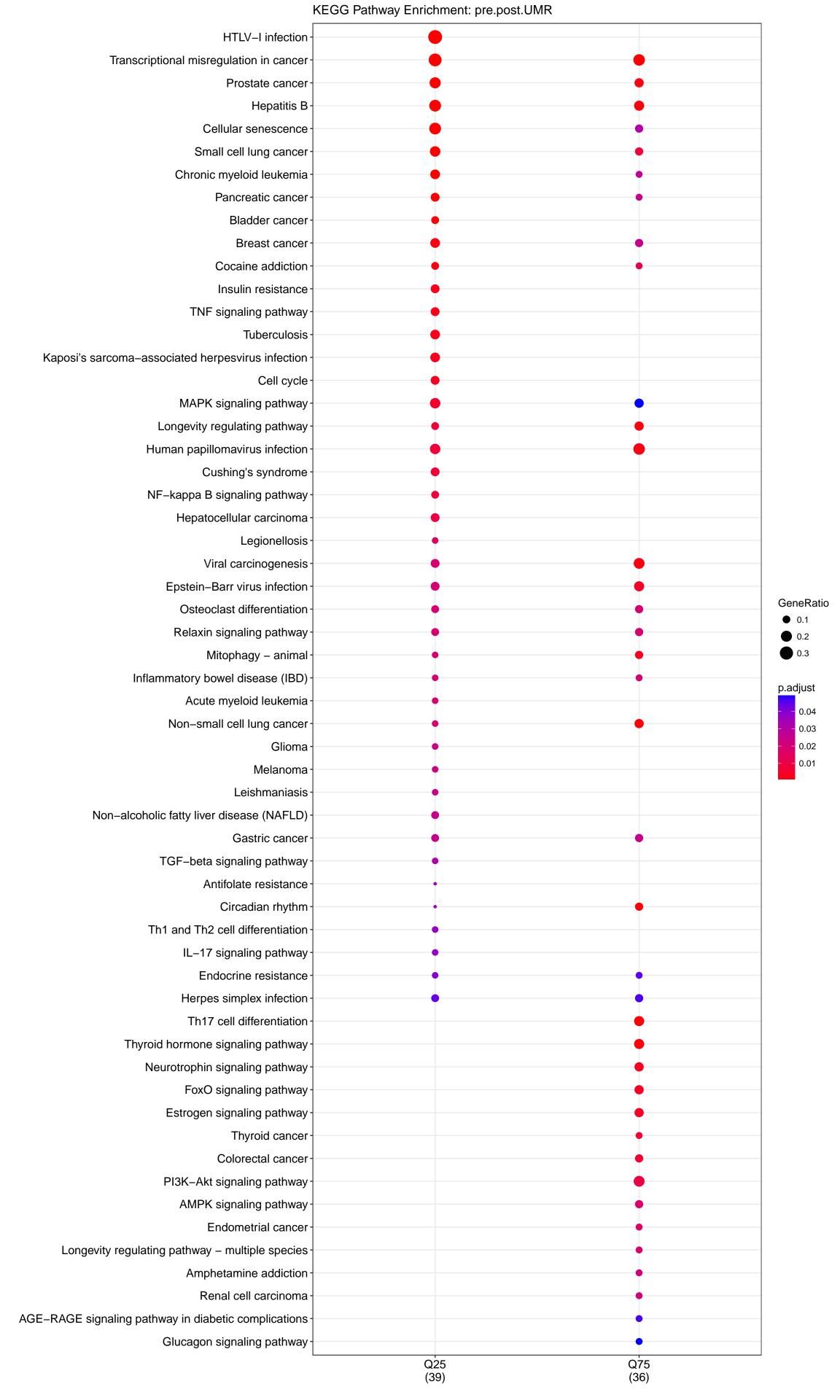
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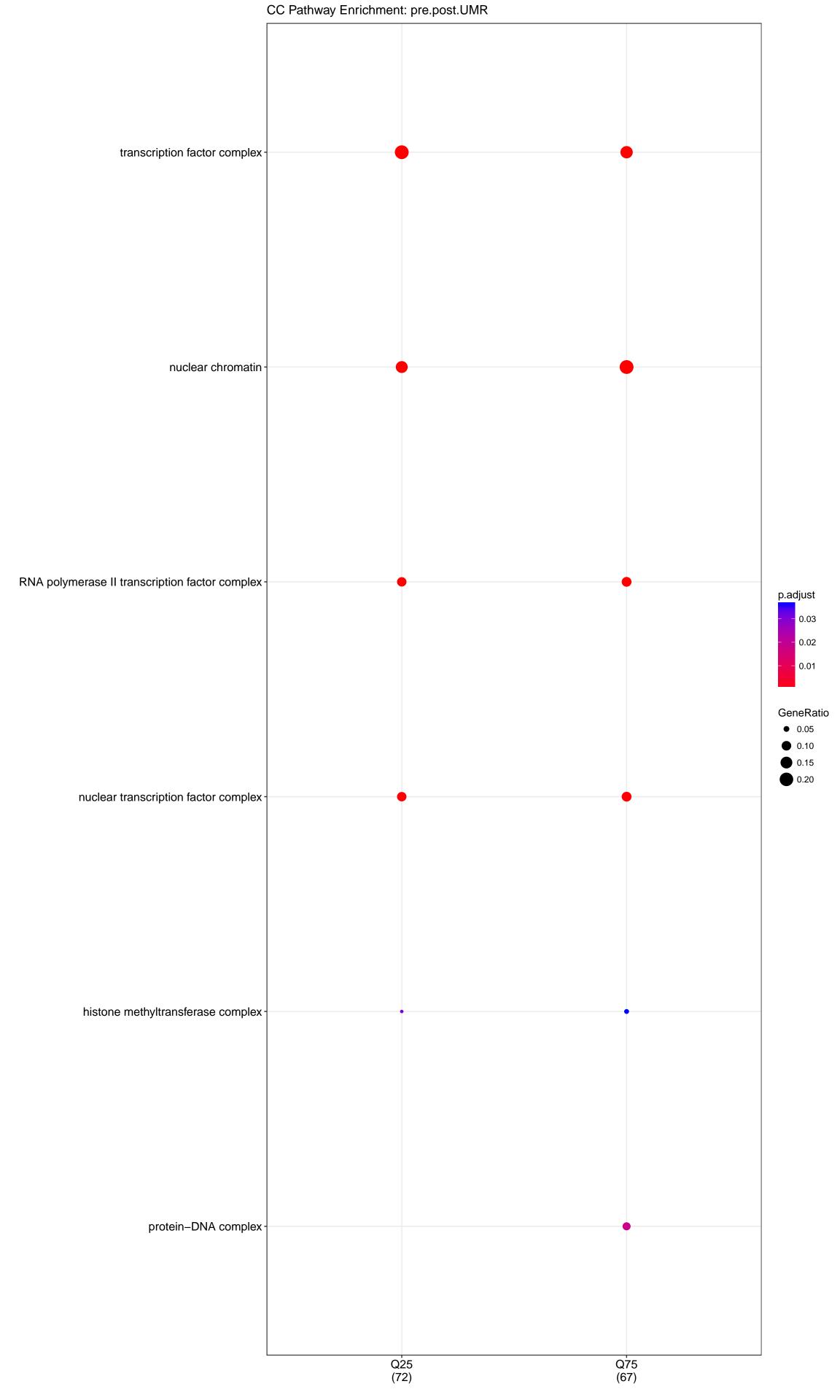
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0.01







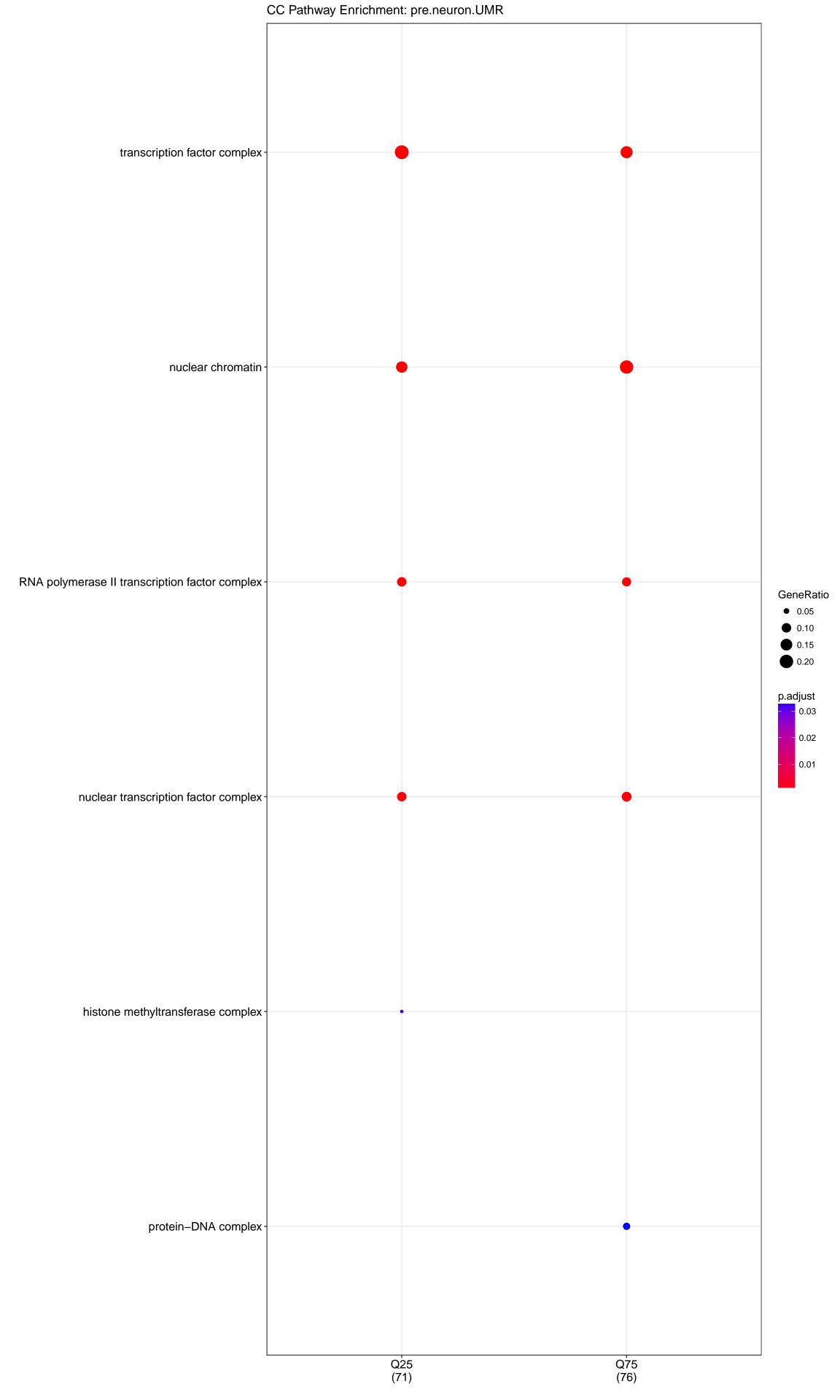


KEGG Pathway Enrichment: pre.neuron.UMR Transcriptional misregulation in cancer Prostate cancer HTLV-I infection Hepatitis B Cellular senescence Small cell lung cancer Pancreatic cancer Chronic myeloid leukemia Cocaine addiction TNF signaling pathway Tuberculosis Human papillomavirus infection Longevity regulating pathway Cushing's syndrome Bladder cancer Insulin resistance Kaposi's sarcoma-associated herpesvirus infection Cell cycle Relaxin signaling pathway Mitophagy – animal Inflammatory bowel disease (IBD) Non-small cell lung cancer Glioma Melanoma Leishmaniasis Breast cancer Hepatocellular carcinoma p.adjust Antifolate resistance 0.04 Th1 and Th2 cell differentiation 0.03 IL-17 signaling pathway 0.02 NF-kappa B signaling pathway 0.01 Endocrine resistance Herpes simplex infection GeneRatio 0.10 Circadian rhythm 0.15 Viral carcinogenesis 0.20 Epstein-Barr virus infection 0.25 Th17 cell differentiation Thyroid hormone signaling pathway Osteoclast differentiation Neurotrophin signaling pathway Thyroid cancer Colorectal cancer PI3K-Akt signaling pathway MAPK signaling pathway Endometrial cancer Acute myeloid leukemia FoxO signaling pathway Estrogen signaling pathway Gastric cancer AGE-RAGE signaling pathway in diabetic complications Legionellosis AMPK signaling pathway cAMP signaling pathway Longevity regulating pathway – multiple species Hepatitis C Amphetamine addiction Adipocytokine signaling pathway Renal cell carcinoma-Prolactin signaling pathway Apoptosis · Wnt signaling pathway Hippo signaling pathway ErbB signaling pathway Q75 (42) Q25 (37)

Q25

(71)

Q75 (76)



KEGG Pathway Enrichment: pre.glia.UMR Transcriptional misregulation in cancer HTLV-I infection Cellular senescence Prostate cancer Hepatitis B Small cell lung cancer Chronic myeloid leukemia Pancreatic cancer Cell cycle Bladder cancer Longevity regulating pathway Cocaine addiction MAPK signaling pathway Th17 cell differentiation TNF signaling pathway Mitophagy – animal Inflammatory bowel disease (IBD) Acute myeloid leukemia Non-small cell lung cancer **Tuberculosis** Neurotrophin signaling pathway Kaposi's sarcoma-associated herpesvirus infection Epstein–Barr virus infection Breast cancer IL-17 signaling pathway Cushing's syndrome Human papillomavirus infection GeneRatio • 0.05 Hepatocellular carcinoma 0.10 Insulin resistance 0.15 Legionellosis PI3K–Akt signaling pathway 0.25 **Endometrial cancer** p.adjust Viral carcinogenesis Osteoclast differentiation Relaxin signaling pathway Measles Prolactin signaling pathway Glioma Estrogen signaling pathway Melanoma Leishmaniasis Antigen processing and presentation Gastric cancer TGF-beta signaling pathway Antifolate resistance Circadian rhythm Th1 and Th2 cell differentiation Thyroid hormone signaling pathway Thyroid cancer Colorectal cancer AGE-RAGE signaling pathway in diabetic complications Herpes simplex infection cAMP signaling pathway Hepatitis C FoxO signaling pathway **Apoptosis** Amphetamine addiction Adipocytokine signaling pathway Renal cell carcinoma Non-alcoholic fatty liver disease (NAFLD) Endocrine resistance Chagas disease (American trypanosomiasis) Glucagon signaling pathway Q₇₅ (35) Q25 (45)

0.04

0.03

0.02

0.01

Q25

(89)

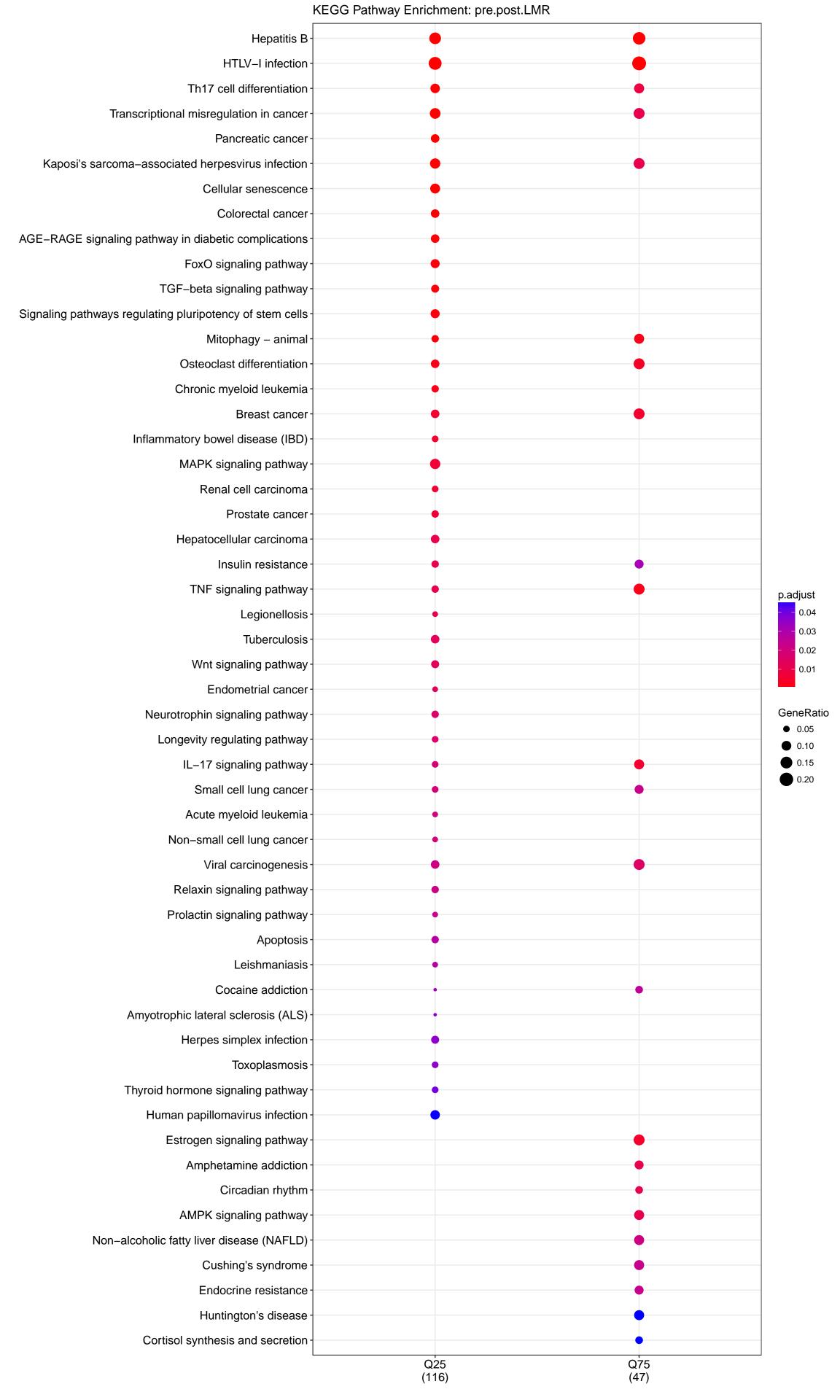
Q75 (54)

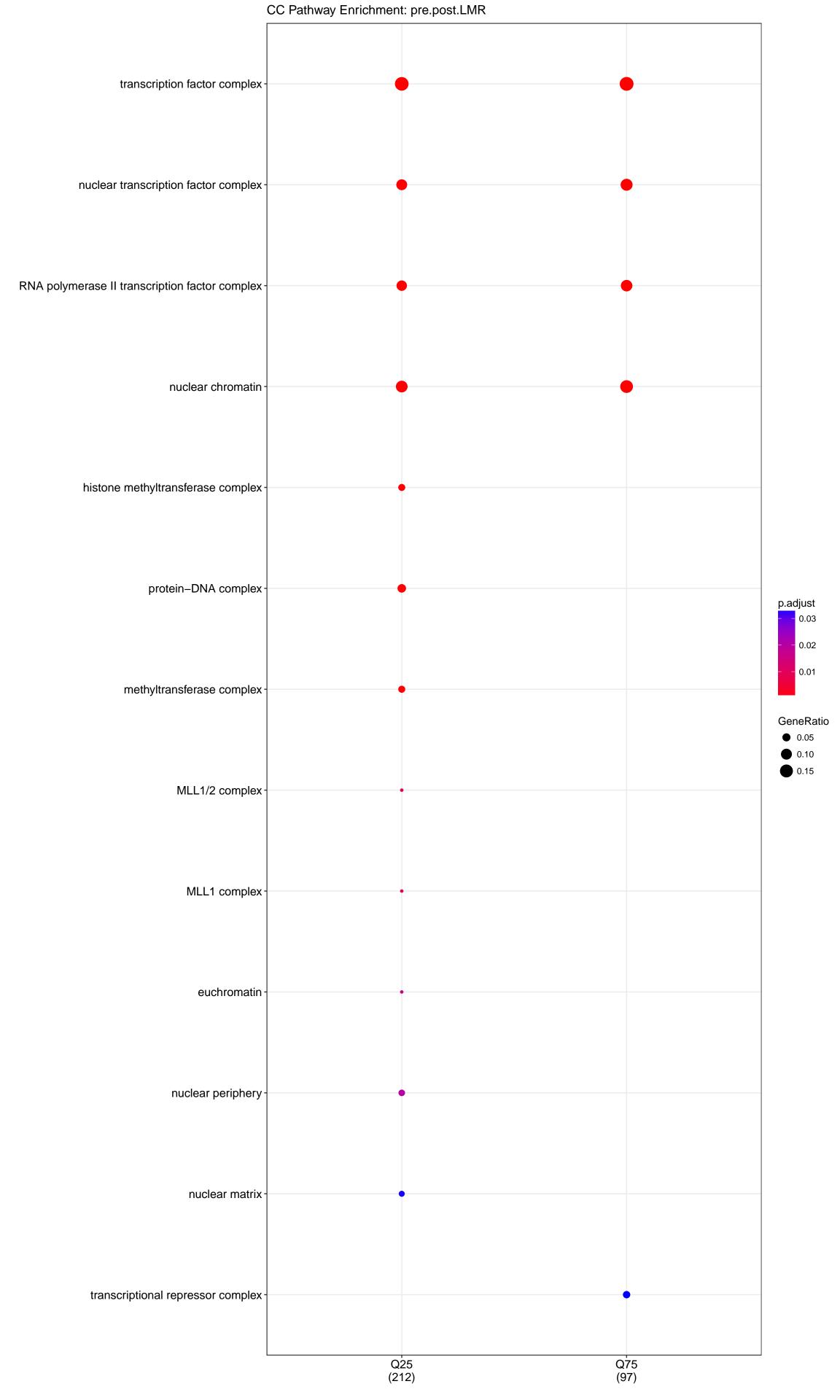
CC Pathway Enrichment: pre.glia.UMR transcription factor complexnuclear chromatin RNA polymerase II transcription factor complexnuclear transcription factor complexp.adjust 0.04 0.03 0.02 0.01 protein-DNA complex-GeneRatio • 0.04 80.0 0.12 0.16 transcriptional repressor complex nuclear euchromatin PML body euchromatin Q25 (89) Q75 (54)

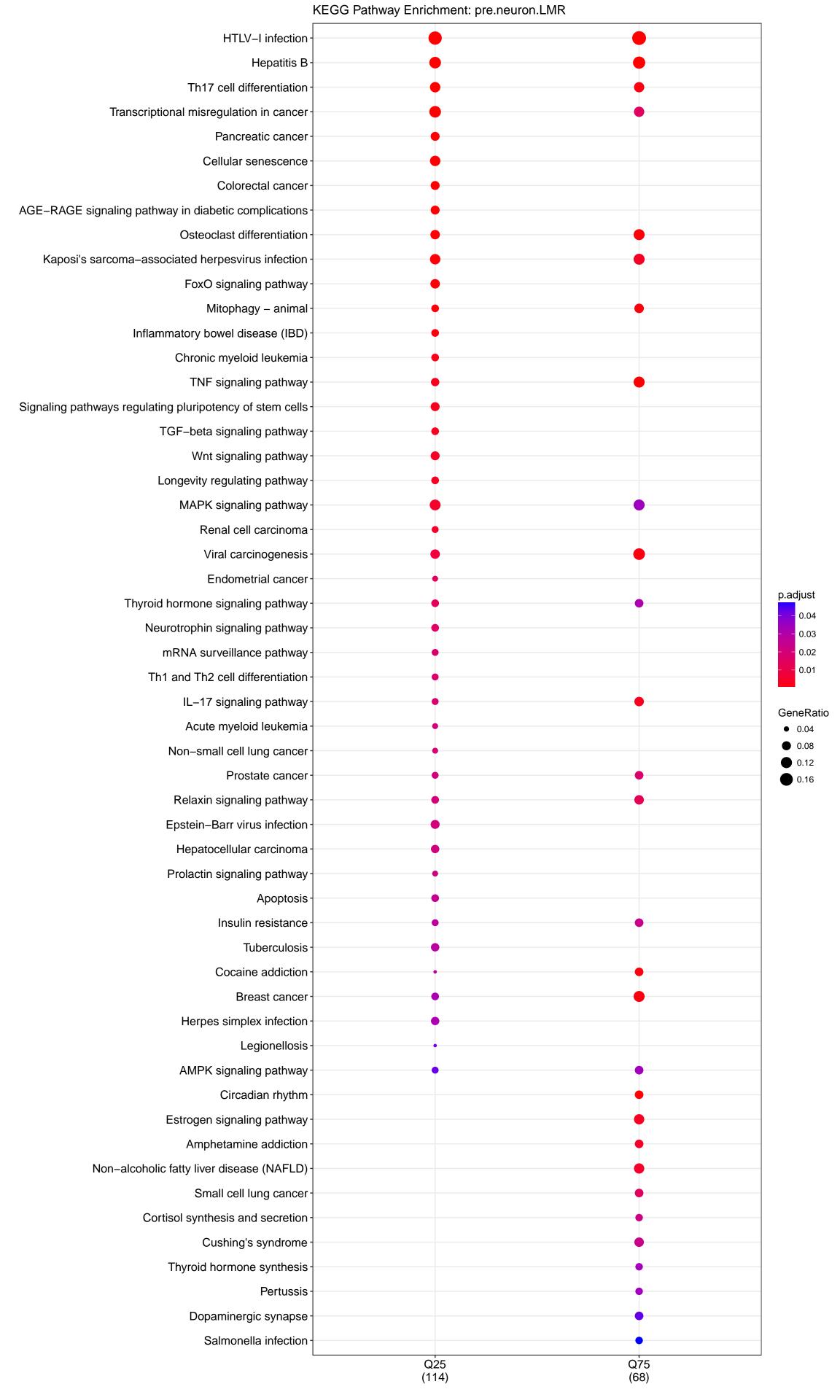
KEGG Pathway Enrichment: neuron.glia.UMR Cellular senescence Transcriptional misregulation in cancer Epstein-Barr virus infection Neurotrophin signaling pathway Hepatitis B HTLV-I infection Viral carcinogenesis Th17 cell differentiation Chronic myeloid leukemia Osteoclast differentiation Longevity regulating pathway Small cell lung cancer Prostate cancer Mitophagy – animal Inflammatory bowel disease (IBD) Acute myeloid leukemia Thyroid hormone signaling pathway MAPK signaling pathway Pancreatic cancer Colorectal cancer Cocaine addiction PI3K-Akt signaling pathway Legionellosis · AGE-RAGE signaling pathway in diabetic complications Endometrial cancer Non-small cell lung cancer Prolactin signaling pathway Herpes simplex infection Cell cycle Relaxin signaling pathway Hepatitis C FoxO signaling pathway GeneRatio Measles • 0.05 Thyroid cancer 0.10 **Apoptosis** 0.15 Wnt signaling pathway 0.20 Breast cancer IL-17 signaling pathway p.adjust NF-kappa B signaling pathway 0.04 Chagas disease (American trypanosomiasis) 0.03 Human papillomavirus infection 0.02 Insulin resistance 0.01 TNF signaling pathway **Tuberculosis** Toxoplasmosis Kaposi's sarcoma-associated herpesvirus infection Sphingolipid signaling pathway Longevity regulating pathway - multiple species cAMP signaling pathway Epithelial cell signaling in Helicobacter pylori infection Adipocytokine signaling pathway Renal cell carcinoma B cell receptor signaling pathway Estrogen signaling pathway Leishmaniasis Fluid shear stress and atherosclerosis **Pertussis** Antigen processing and presentation Non-alcoholic fatty liver disease (NAFLD) Gastric cancer Ras signaling pathway TGF-beta signaling pathway Antifolate resistance Hippo signaling pathway ErbB signaling pathway Salmonella infection Th1 and Th2 cell differentiation Circadian rhythm Cushing's syndrome Bladder cancer Dopaminergic synapse Glioma Melanoma Endocrine resistance Vasopressin–regulated water reabsorption Q25 Q75 (29)(48)



CC Pathway Enrichment: neuron.glia.UMR transcription factor complexnuclear chromatin nuclear transcription factor complex-RNA polymerase II transcription factor complex-GeneRatio • 0.05 0.10 histone methyltransferase complexp.adjust 0.015 0.010 0.005 protein-DNA complex methyltransferase complexchromatoid body transcriptional repressor complex Q25 (89) Q75 (51)







retinoic acid binding

Q25

(219)

Q75

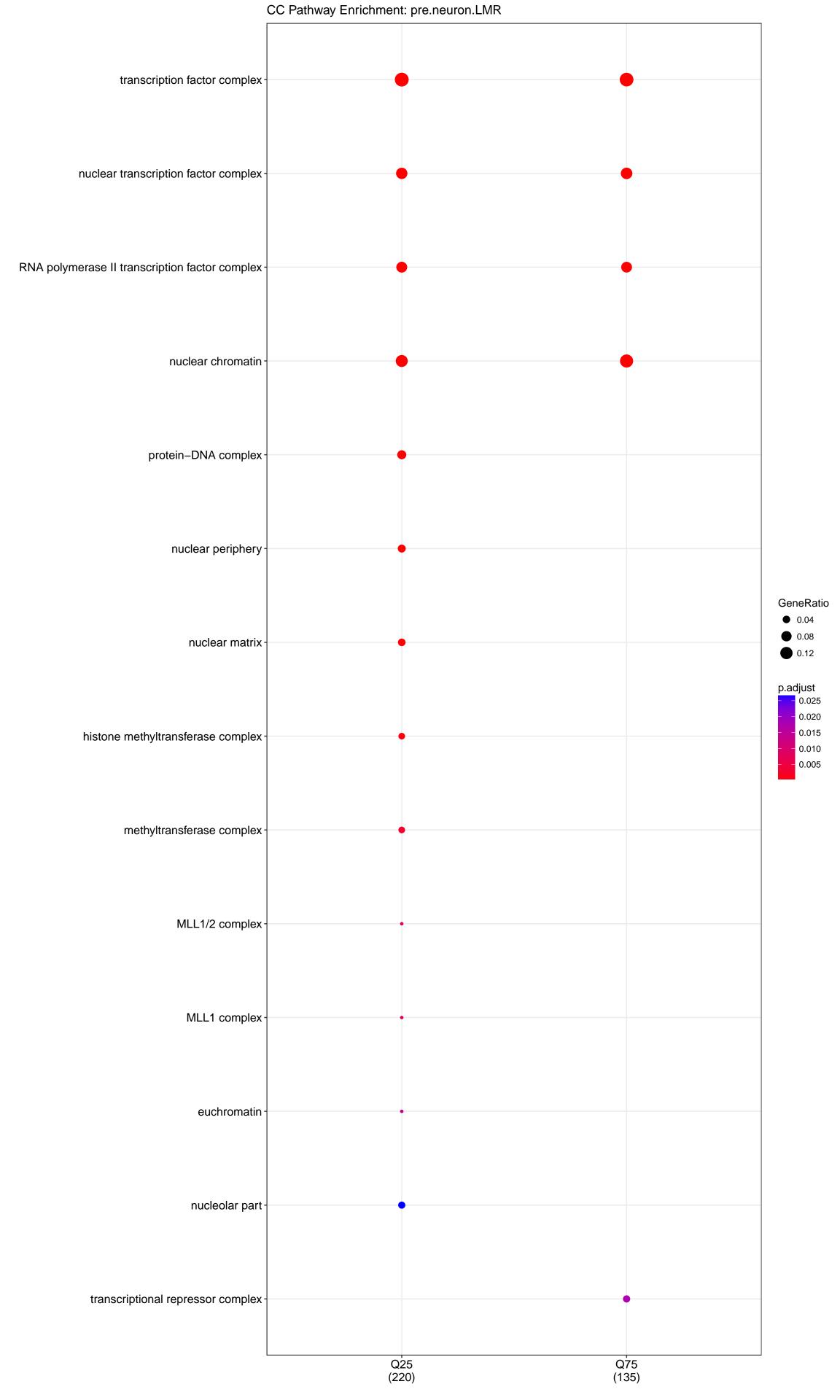
(135)

0.04

0.03

0.02

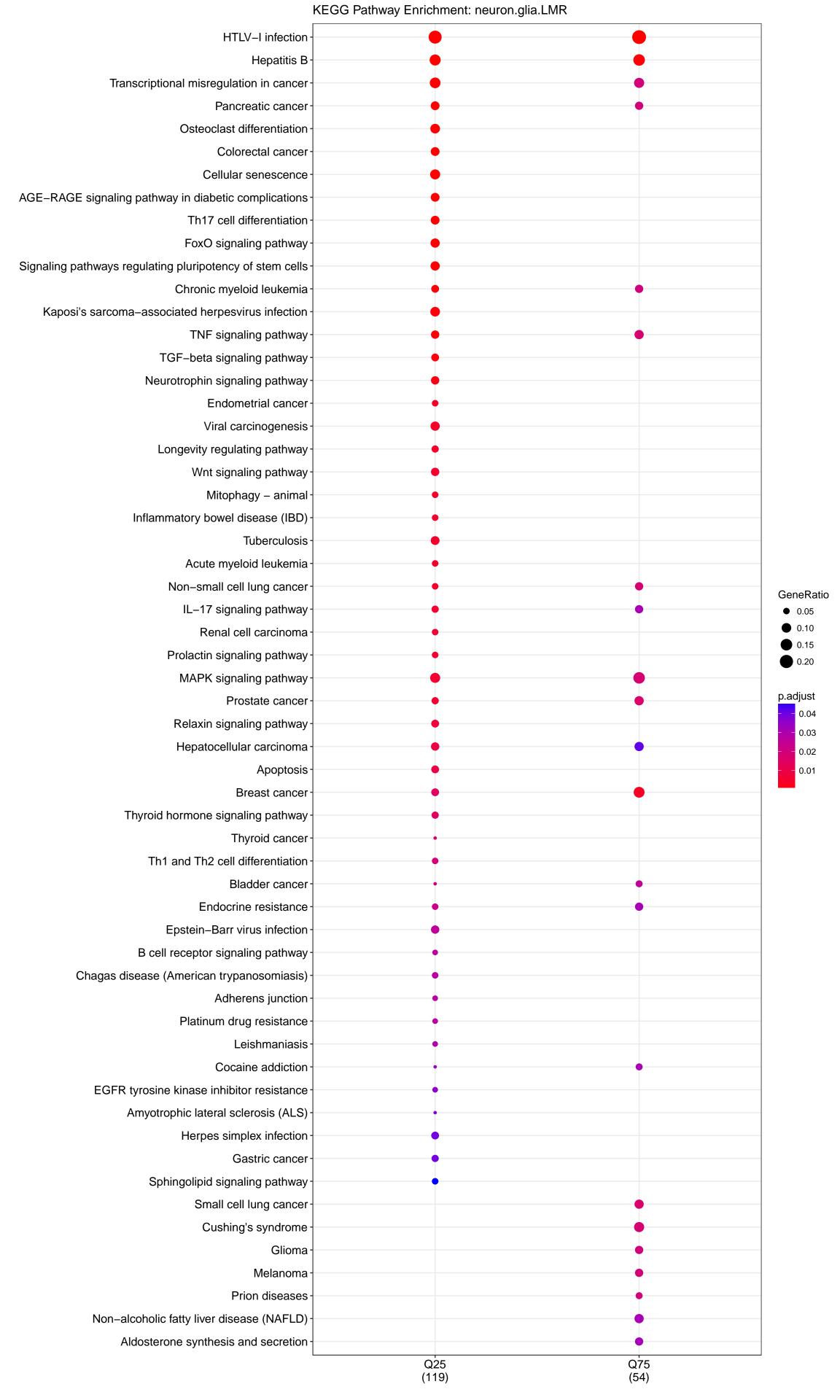
0.01



KEGG Pathway Enrichment: pre.glia.LMR HTLV-I infection -Hepatitis B Osteoclast differentiation Transcriptional misregulation in cancer Pancreatic cancer Th17 cell differentiation FoxO signaling pathway Cellular senescence Colorectal cancer AGE-RAGE signaling pathway in diabetic complications TGF-beta signaling pathway Signaling pathways regulating pluripotency of stem cells Kaposi's sarcoma-associated herpesvirus infection Chronic myeloid leukemia TNF signaling pathway Wnt signaling pathway Mitophagy – animal Inflammatory bowel disease (IBD) Acute myeloid leukemia IL-17 signaling pathway MAPK signaling pathway Renal cell carcinoma Prolactin signaling pathway Prostate cancer Relaxin signaling pathway **Tuberculosis Endometrial cancer** GeneRatio • 0.05 Thyroid hormone signaling pathway 0.10 Neurotrophin signaling pathway 0.15 Longevity regulating pathway Th1 and Th2 cell differentiation p.adjust Non-small cell lung cancer 0.04 Viral carcinogenesis 0.03 Epstein-Barr virus infection 0.02 Hepatocellular carcinoma 0.01 Spliceosome B cell receptor signaling pathway Chagas disease (American trypanosomiasis) Adherens junction **Apoptosis** Leishmaniasis -Antigen processing and presentation Cocaine addiction Breast cancer Herpes simplex infection Toxoplasmosis Legionellosis · cAMP signaling pathway Estrogen signaling pathway Circadian rhythm -Amphetamine addiction Non-alcoholic fatty liver disease (NAFLD) Cushing's syndrome Insulin resistance Cortisol synthesis and secretion AMPK signaling pathway Thyroid hormone synthesis **Pertussis** Dopaminergic synapse Salmonella infection Endocrine resistance Glucagon signaling pathway Q25 Q75 (56)(115)

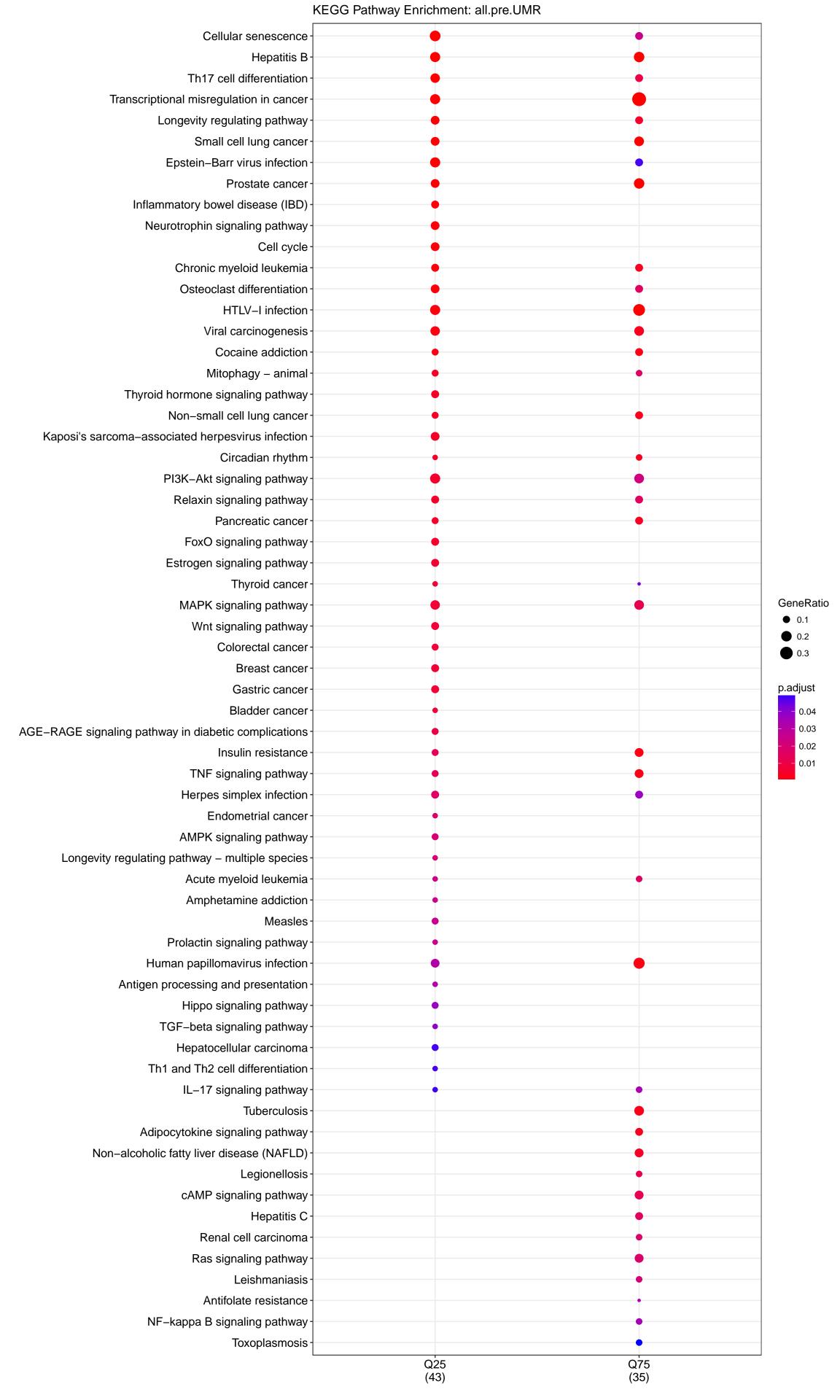


CC Pathway Enrichment: pre.glia.LMR transcription factor complexnuclear transcription factor complex-RNA polymerase II transcription factor complexnuclear chromatin histone methyltransferase complexmethyltransferase complex-GeneRatio 0.05 0.10 protein-DNA complexp.adjust 0.03 nuclear periphery 0.01 nuclear matrix MLL1/2 complex MLL1 complex spliceosomal complex euchromatin transcriptional repressor complex Q25 (216) Q75 (109)





CC Pathway Enrichment: neuron.glia.LMR transcription factor complexnuclear transcription factor complex-RNA polymerase II transcription factor complex nuclear chromatin protein-DNA complexhistone methyltransferase complex GeneRatio 0.05 0.10 0.15 0.20 methyltransferase complexp.adjust 0.012 0.009 0.006 0.003 nuclear periphery nuclear matrix MLL1/2 complex MLL1 complex spliceosomal complex euchromatin Q25 (217) Q75 (93)



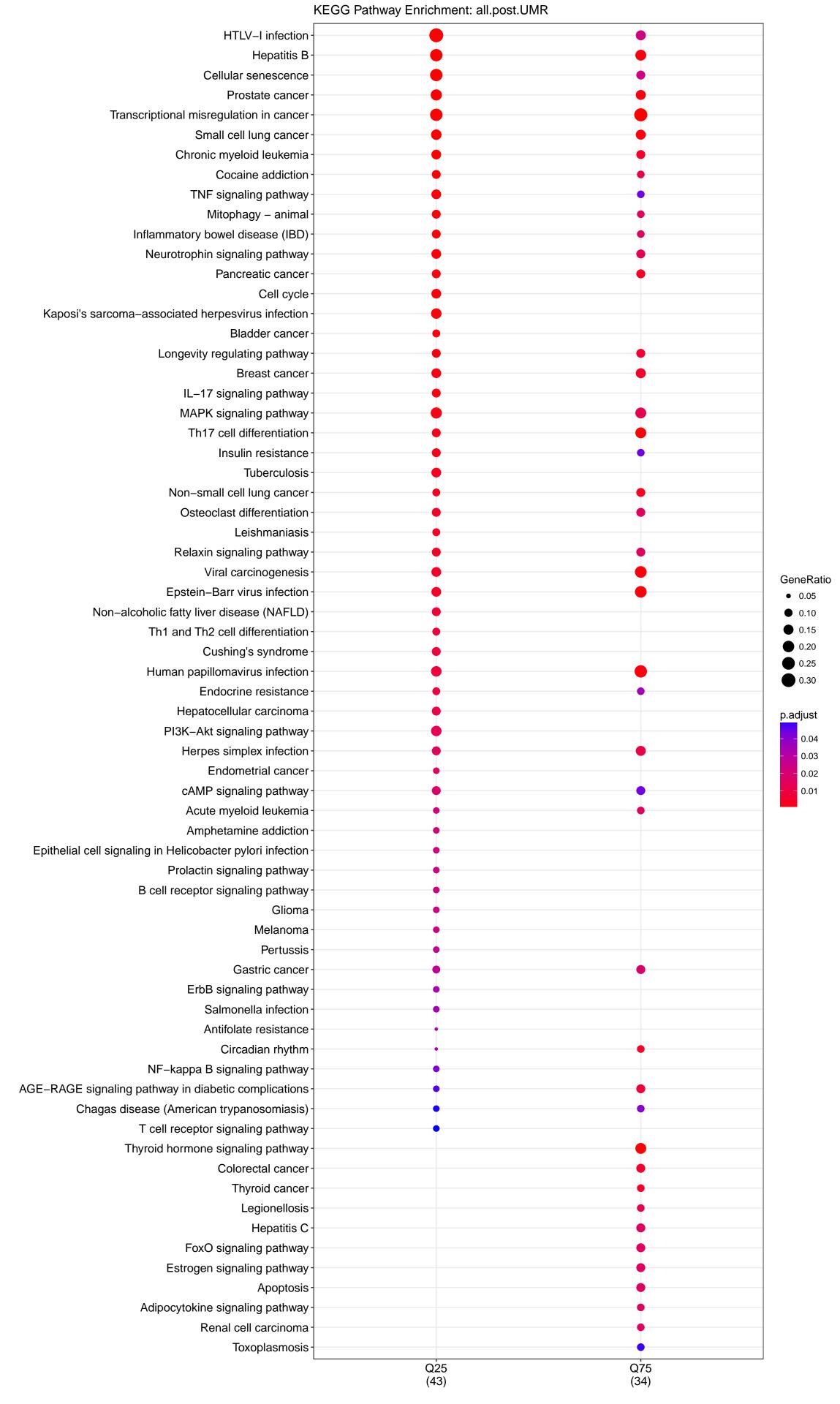
actinin binding

Q25

(83)

Q75 (52)

CC Pathway Enrichment: all.pre.UMR transcription factor complexnuclear chromatin RNA polymerase II transcription factor complexnuclear transcription factor complexp.adjust 0.03 0.02 0.01 nuclear euchromatin-GeneRatio • 0.05 0.10 0.20 histone methyltransferase complex euchromatin methyltransferase complexpericentric heterochromatin Q25 (83) Q75 (53)



monocarboxylic acid binding

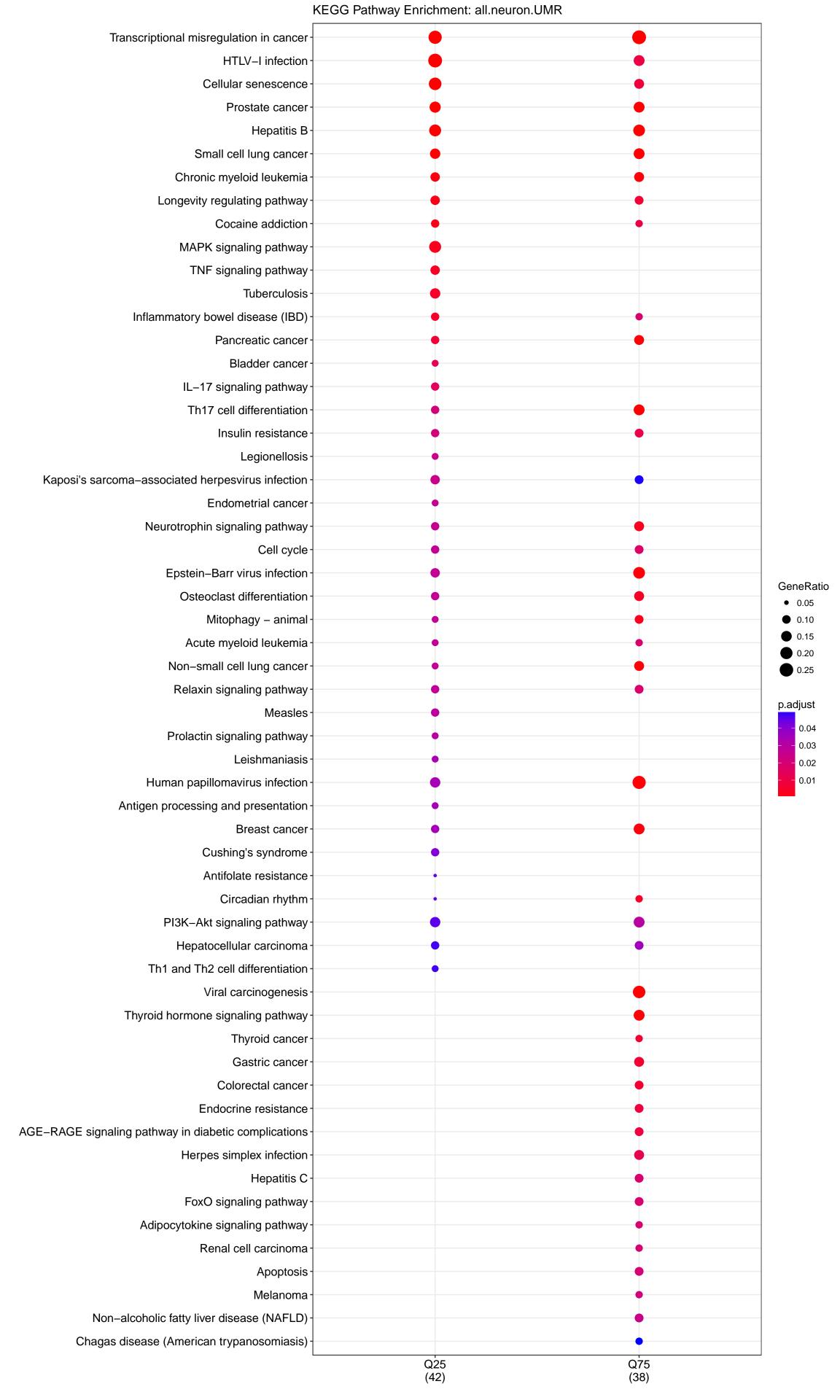
Q25

(81)

Q75 (51)

transcriptional activator activity, RNA polymerase II transcription factor binding

CC Pathway Enrichment: all.post.UMR transcription factor complex nuclear chromatin RNA polymerase II transcription factor complexnuclear transcription factor complex-GeneRatio • 0.05 nuclear euchromatin 0.10 0.20 p.adjust 0.03 0.02 euchromatin 0.01 protein-DNA complex histone methyltransferase complextranscriptional repressor complex PML body Q25 (81) Q75 (52)

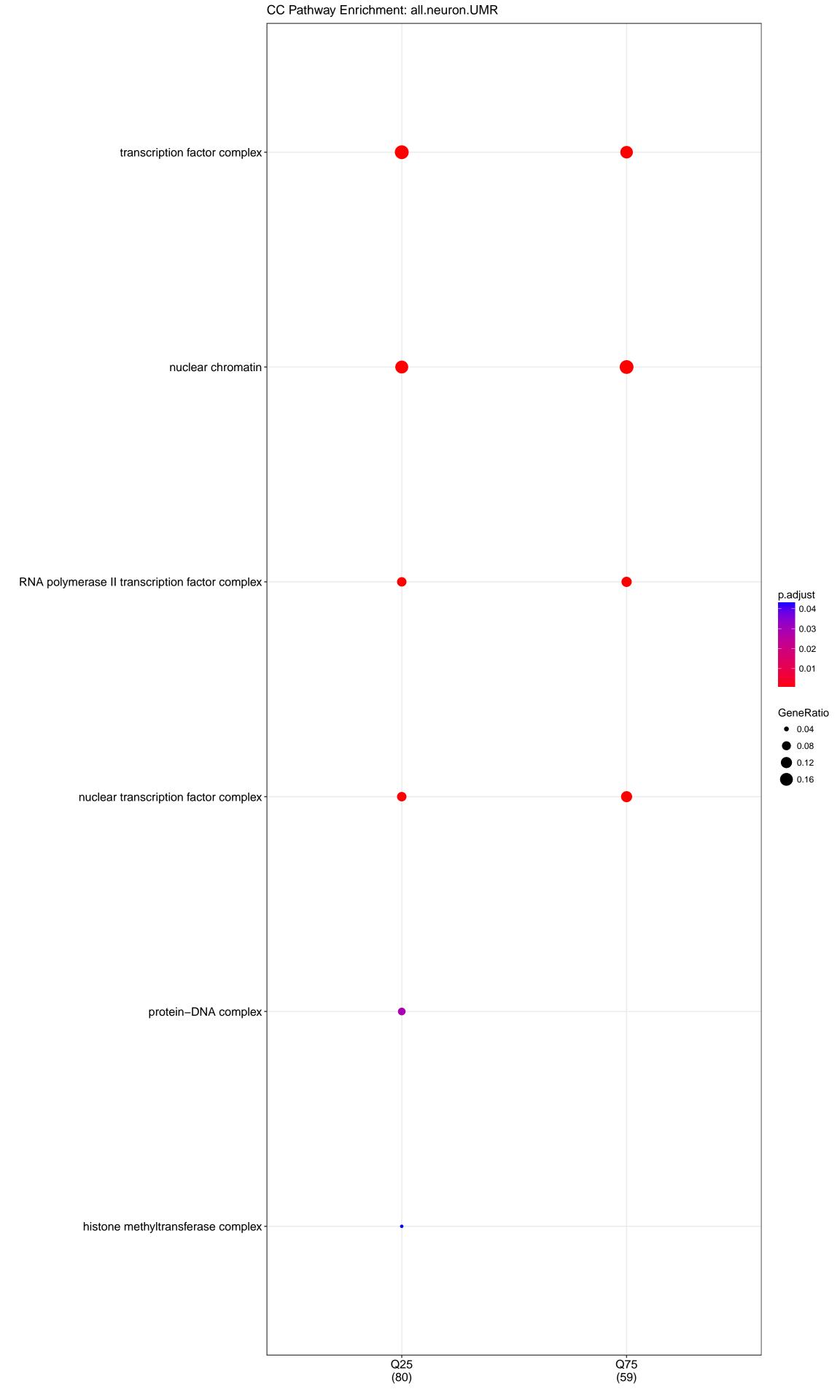


monocarboxylic acid binding

Q75

(58)

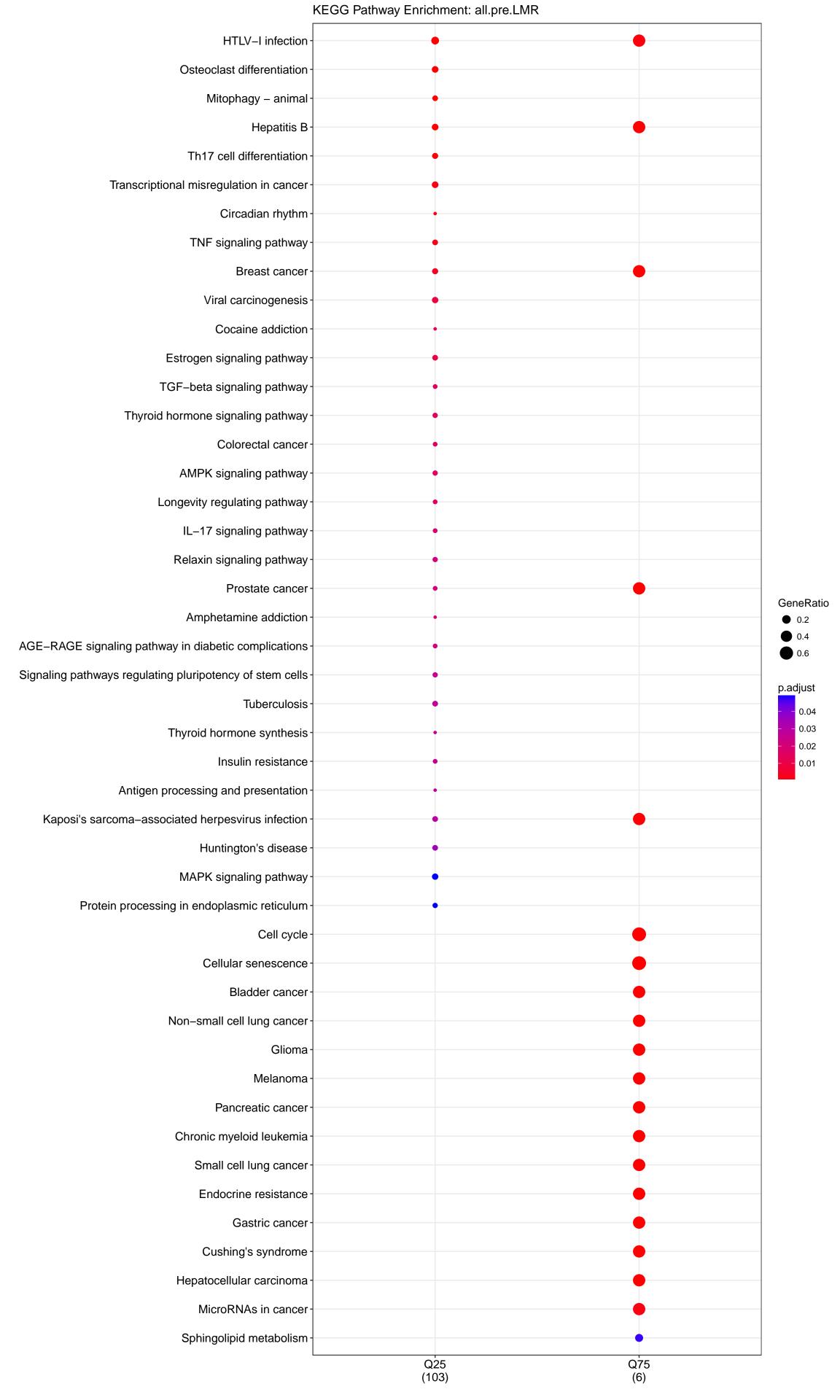
Q25 (80)



KEGG Pathway Enrichment: all.glia.UMR Transcriptional misregulation in cancer Cellular senescence Hepatitis B Prostate cancer HTLV-I infection Small cell lung cancer Th17 cell differentiation Chronic myeloid leukemia Longevity regulating pathway Inflammatory bowel disease (IBD) Pancreatic cancer Epstein-Barr virus infection Neurotrophin signaling pathway Cocaine addiction Cell cycle MAPK signaling pathway Mitophagy – animal Non-small cell lung cancer Viral carcinogenesis TNF signaling pathway Bladder cancer Osteoclast differentiation Relaxin signaling pathway Kaposi's sarcoma-associated herpesvirus infection IL-17 signaling pathway Breast cancer AGE-RAGE signaling pathway in diabetic complications p.adjust Gastric cancer **Endometrial cancer** 0.04 0.03 Insulin resistance 0.02 PI3K-Akt signaling pathway 0.01 Acute myeloid leukemia Hepatocellular carcinoma GeneRatio Thyroid hormone signaling pathway 0.10 Prolactin signaling pathway 0.15 Leishmaniasis 0.20 0.25 Tuberculosis Thyroid cancer Herpes simplex infection Human papillomavirus infection FoxO signaling pathway-Measles Estrogen signaling pathway Colorectal cancer Wnt signaling pathway Th1 and Th2 cell differentiation Endocrine resistance Cushing's syndrome Chagas disease (American trypanosomiasis) Legionellosis · Longevity regulating pathway - multiple species Sphingolipid signaling pathway-AMPK signaling pathway Amphetamine addiction Epithelial cell signaling in Helicobacter pylori infection -Adipocytokine signaling pathway Renal cell carcinoma B cell receptor signaling pathway Glioma Melanoma cAMP signaling pathway Hepatitis C Circadian rhythm Non-alcoholic fatty liver disease (NAFLD) Q25 Q75 (24) (58)



CC Pathway Enrichment: all.glia.UMR transcription factor complexnuclear chromatin RNA polymerase II transcription factor complexnuclear transcription factor complexp.adjust 0.04 0.03 0.02 0.01 nuclear euchromatin-GeneRatio • 0.05 0.10 0.20 euchromatin transcriptional repressor complexnuclear matrix protein-DNA complex Q25 (105) Q75 (40)



(22)

(195)



CC Pathway Enrichment: all.pre.LMR transcription factor complexnuclear transcription factor complex-RNA polymerase II transcription factor complexnuclear chromatin GeneRatio • 0.1 0.2 p.adjust transcriptional repressor complex-0.04 0.03 0.02 0.01 melanosome pigment granule protein-DNA complexextrinsic component of organelle membrane Q25 (193) Q75 (22)



carboxy-lyase activity

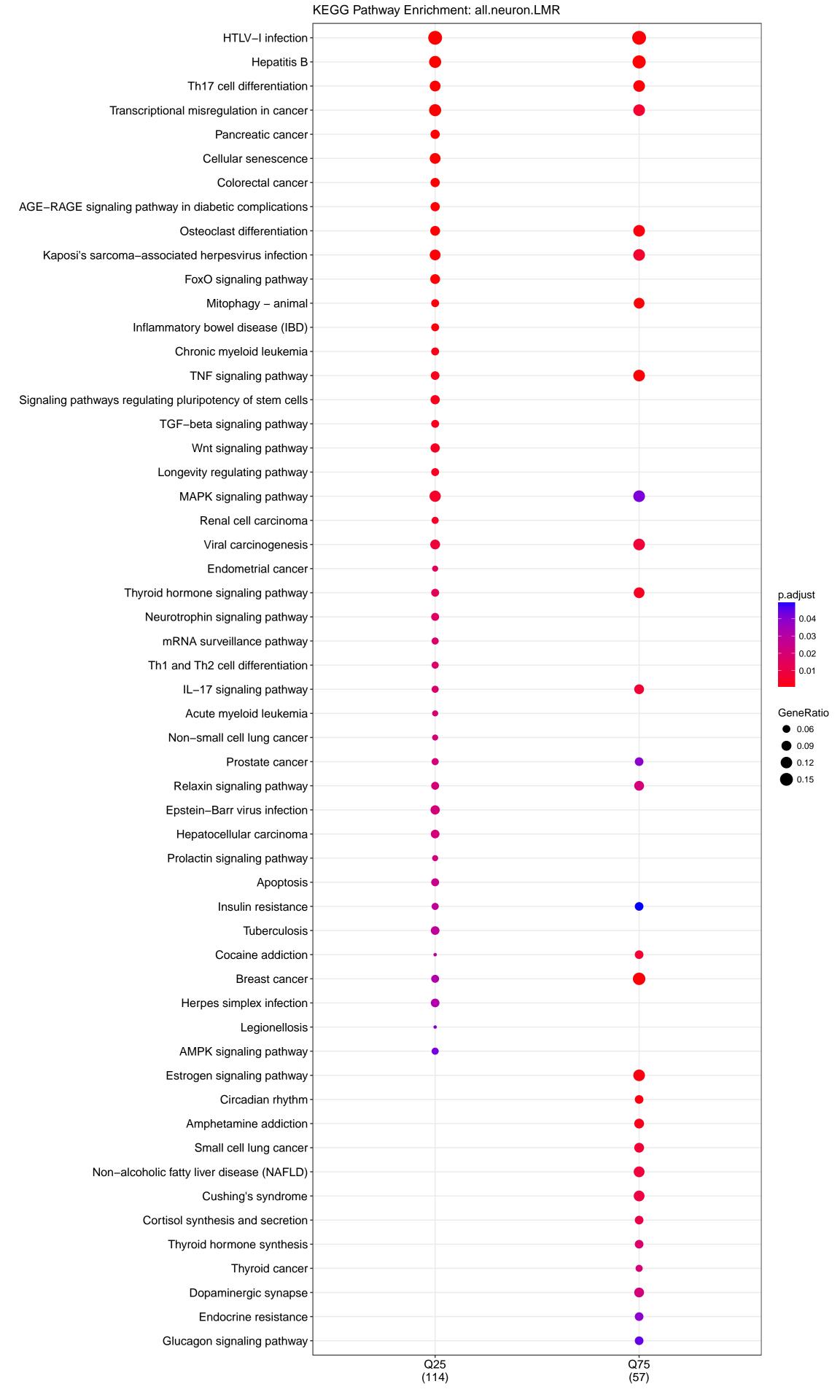
Q25

(212)

Q75

(77)

CC Pathway Enrichment: all.post.LMR transcription factor complexnuclear transcription factor complex-RNA polymerase II transcription factor complex nuclear chromatin histone methyltransferase complexprotein-DNA complex GeneRatio • 0.05 0.10 0.15 p.adjust methyltransferase complex-0.03 0.02 0.01 MLL1/2 complex -MLL1 complex euchromatin nuclear periphery nuclear matrix transcriptional repressor complex-Q75 (76) Q25 (212)



ligand-dependent nuclear receptor binding

TBP-class protein binding

Q25

(219)

Q75

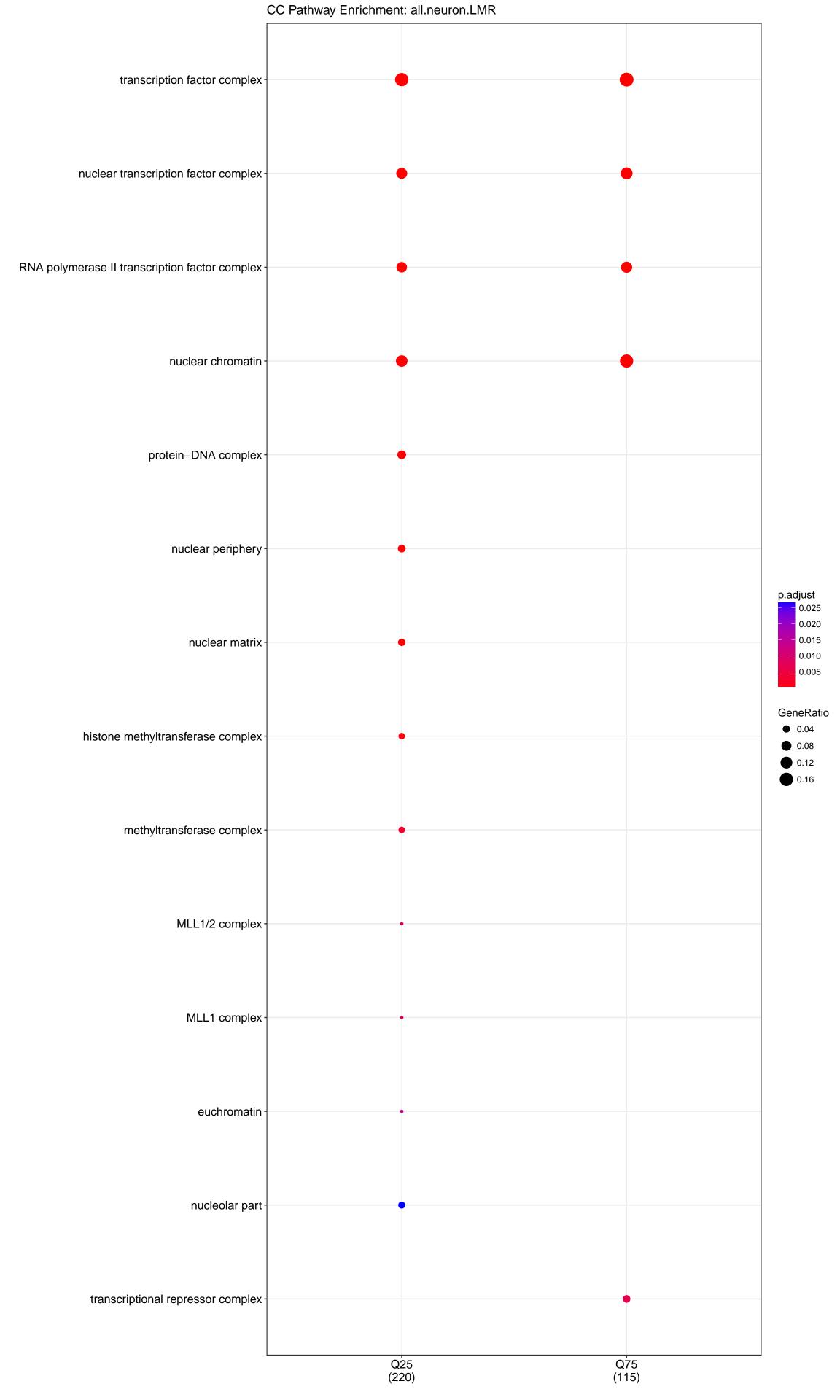
(115)

0.04

0.03

0.02

0.01



KEGG Pathway Enrichment: all.glia.LMR HTLV-I infection Hepatitis B Osteoclast differentiation Transcriptional misregulation in cancer Pancreatic cancer Th17 cell differentiation FoxO signaling pathway Cellular senescence Colorectal cancer AGE-RAGE signaling pathway in diabetic complications TGF-beta signaling pathway Signaling pathways regulating pluripotency of stem cells Kaposi's sarcoma-associated herpesvirus infection Chronic myeloid leukemia TNF signaling pathway Wnt signaling pathway Mitophagy – animal Inflammatory bowel disease (IBD) Acute myeloid leukemia IL-17 signaling pathway MAPK signaling pathway Renal cell carcinoma Prolactin signaling pathway Prostate cancer Relaxin signaling pathway **Tuberculosis Endometrial cancer** Thyroid hormone signaling pathway Neurotrophin signaling pathway GeneRatio Longevity regulating pathway • 0.05 Th1 and Th2 cell differentiation Non-small cell lung cancer Viral carcinogenesis 0.20 Epstein-Barr virus infection p.adjust Hepatocellular carcinoma Spliceosome B cell receptor signaling pathway Chagas disease (American trypanosomiasis) Adherens junction Apoptosis Leishmaniasis Antigen processing and presentation Cocaine addiction Herpes simplex infection Toxoplasmosis Legionellosis cAMP signaling pathway Cushing's syndrome Small cell lung cancer Estrogen signaling pathway Endocrine resistance Cortisol synthesis and secretion Amphetamine addiction Non-alcoholic fatty liver disease (NAFLD) Circadian rhythm Cell cycle Thyroid hormone synthesis Dopaminergic synapse Bladder cancer Gastric cancer Aldosterone synthesis and secretion Glucagon signaling pathway Insulin resistance Cholinergic synapse AMPK signaling pathway Huntington's disease PI3K-Akt signaling pathway Q25 Q75 (53) (115)

0.10

0.15

0.04 0.03

0.02

0.01



CC Pathway Enrichment: all.glia.LMR transcription factor complexnuclear transcription factor complex-RNA polymerase II transcription factor complexnuclear chromatin histone methyltransferase complexmethyltransferase complex-GeneRatio • 0.05 0.10 protein-DNA complex-0.20 p.adjust 0.0125 0.0100 nuclear periphery 0.0075 0.0050 0.0025 nuclear matrix MLL1/2 complex MLL1 complex spliceosomal complex euchromatin transcriptional repressor complex Q25 (216) Q75 (106)