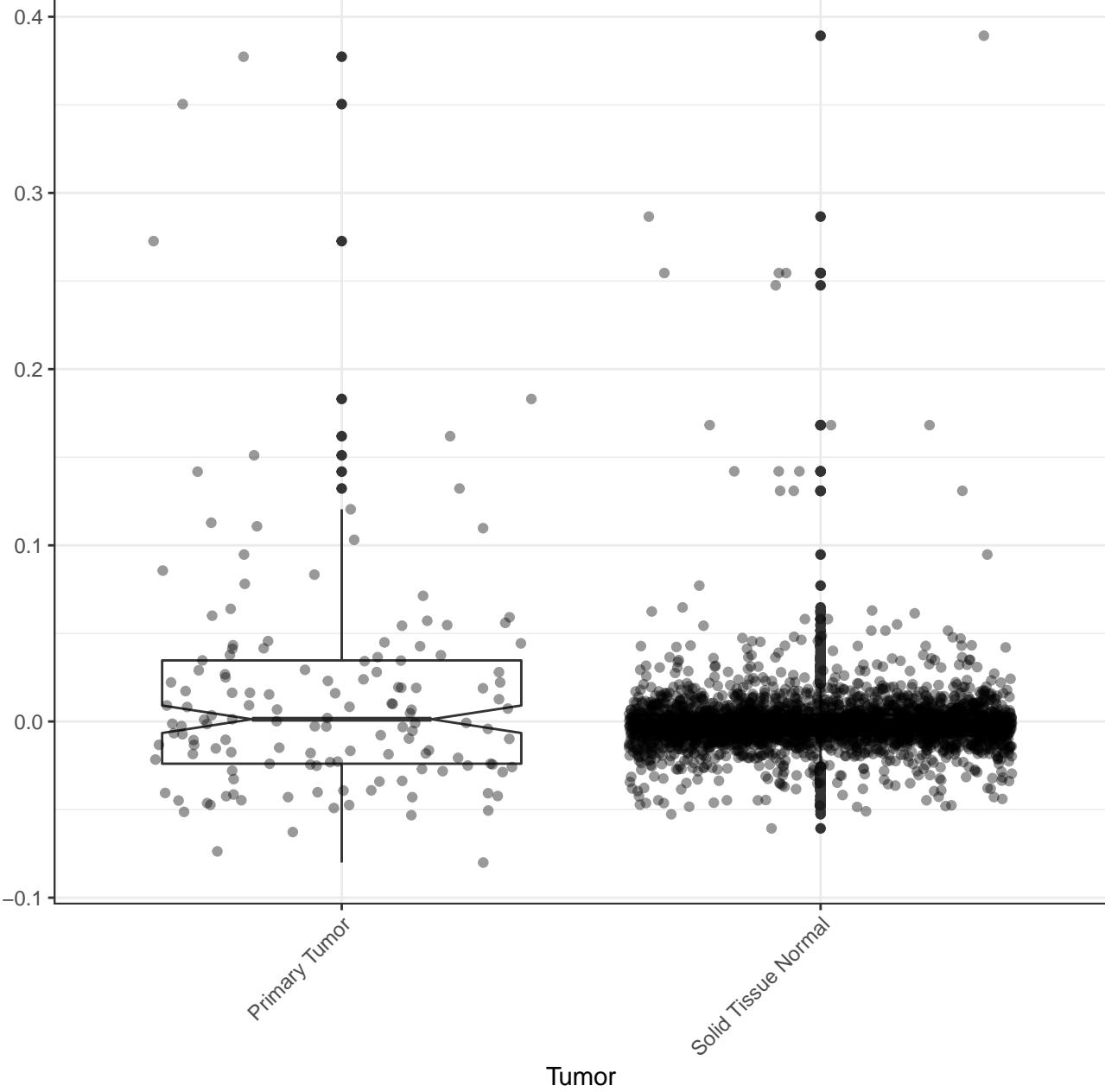
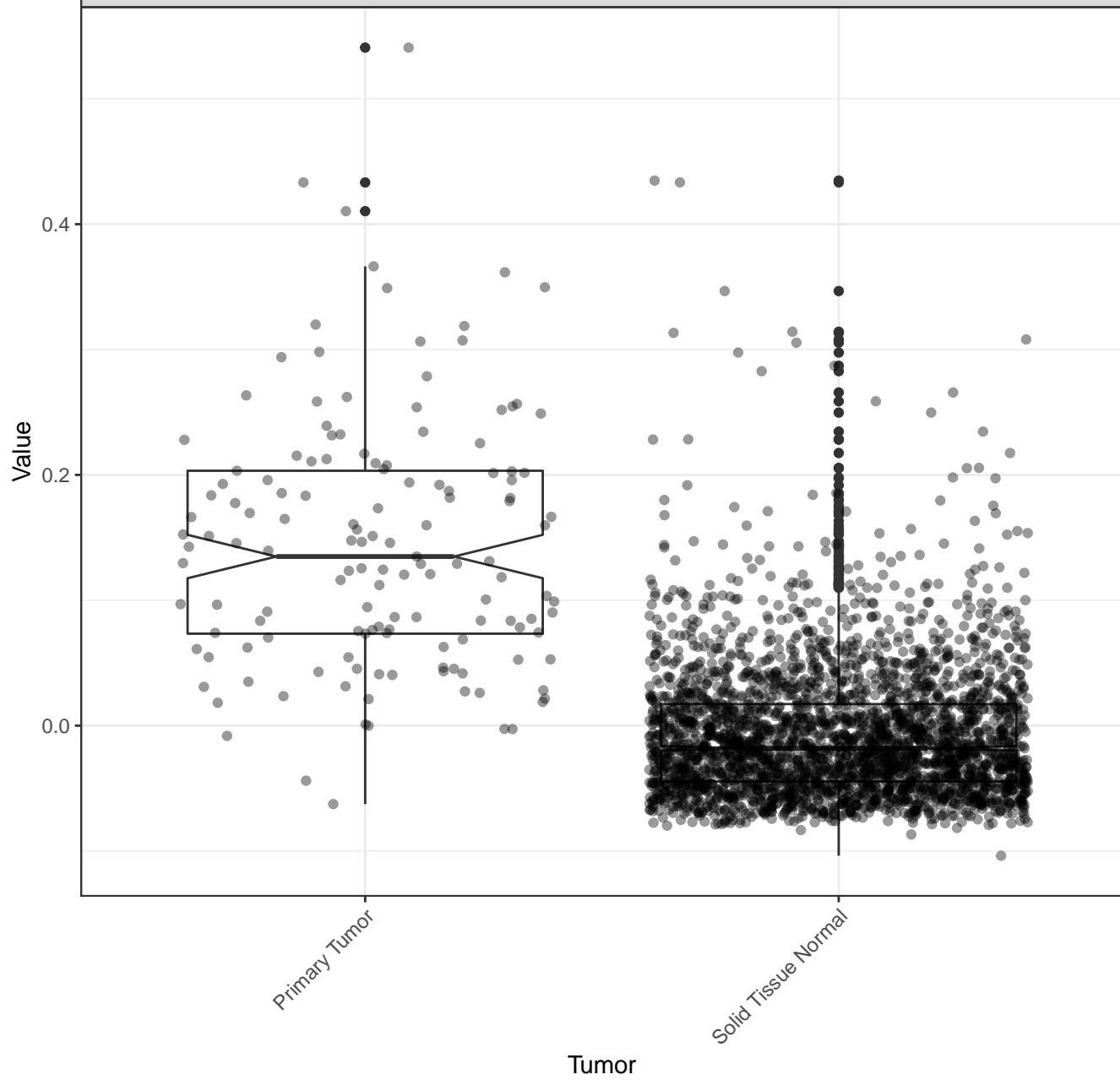


## 1,IRIS\_Monocyte–Day1

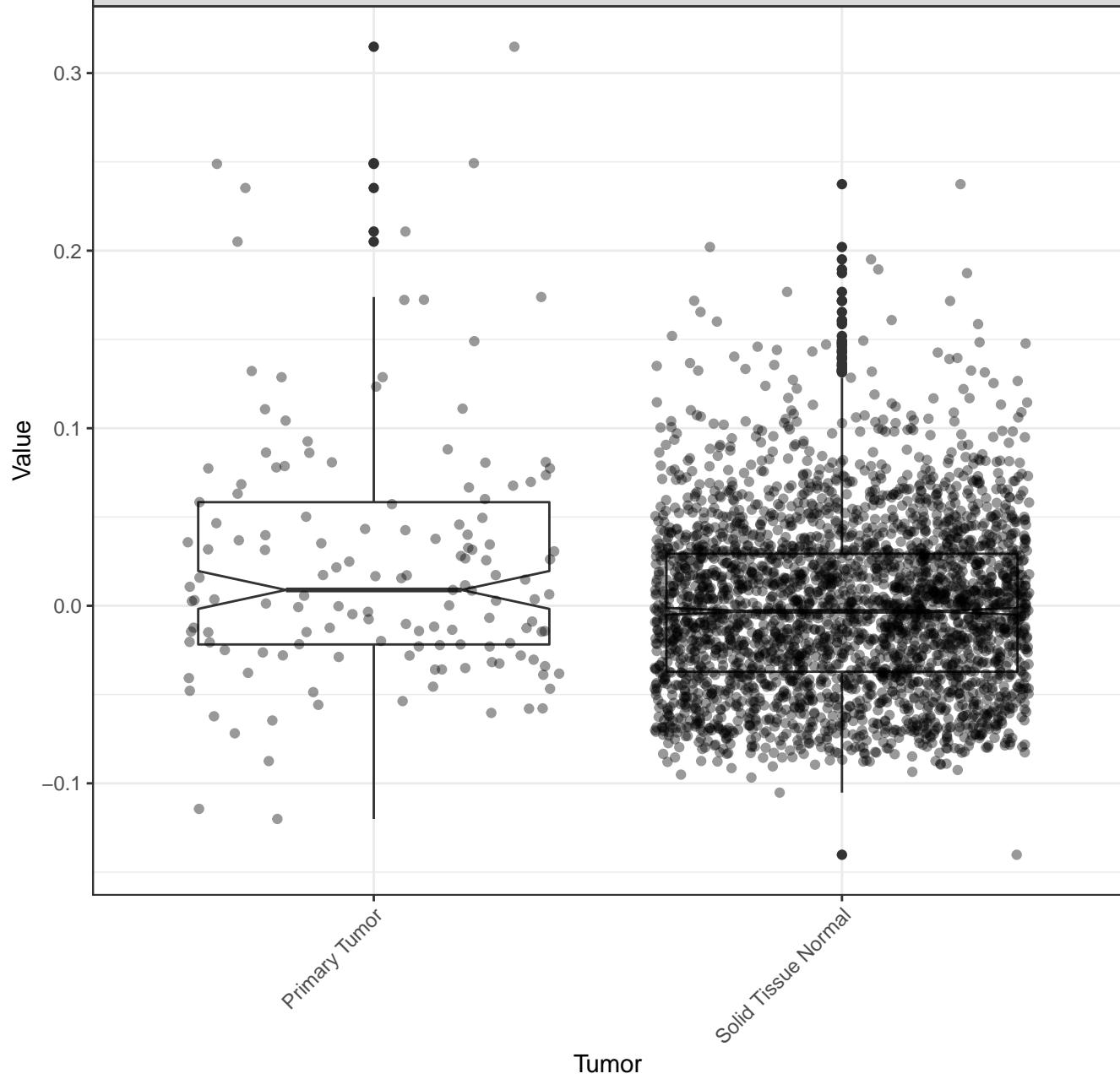
Value



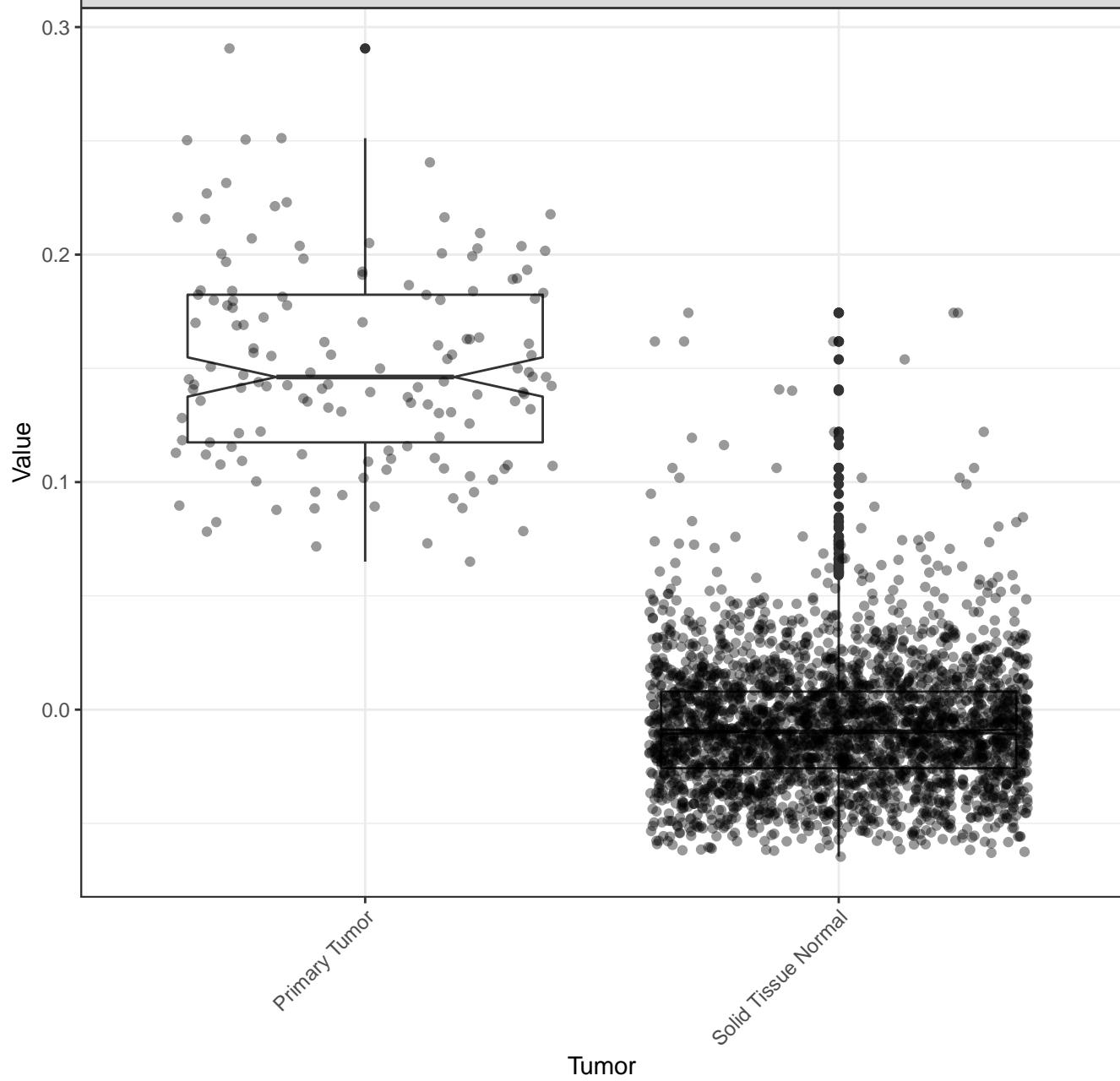
## 2,REACTOME\_DNA\_REPLICATION



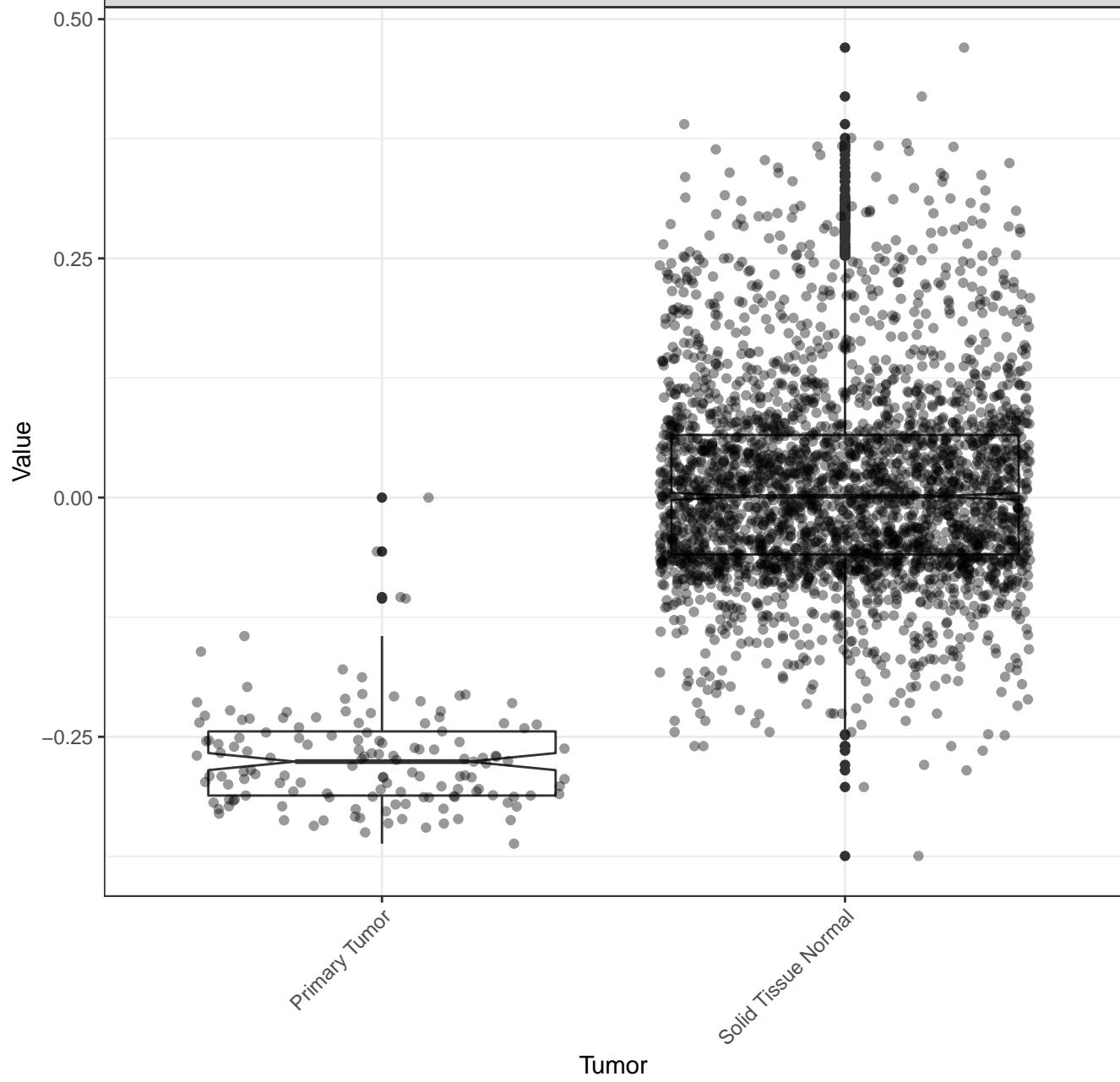
### 3,REACTOME\_TCA\_CYCLE\_AND\_RESPIRATORY\_ELECTRON\_TRANSPORT



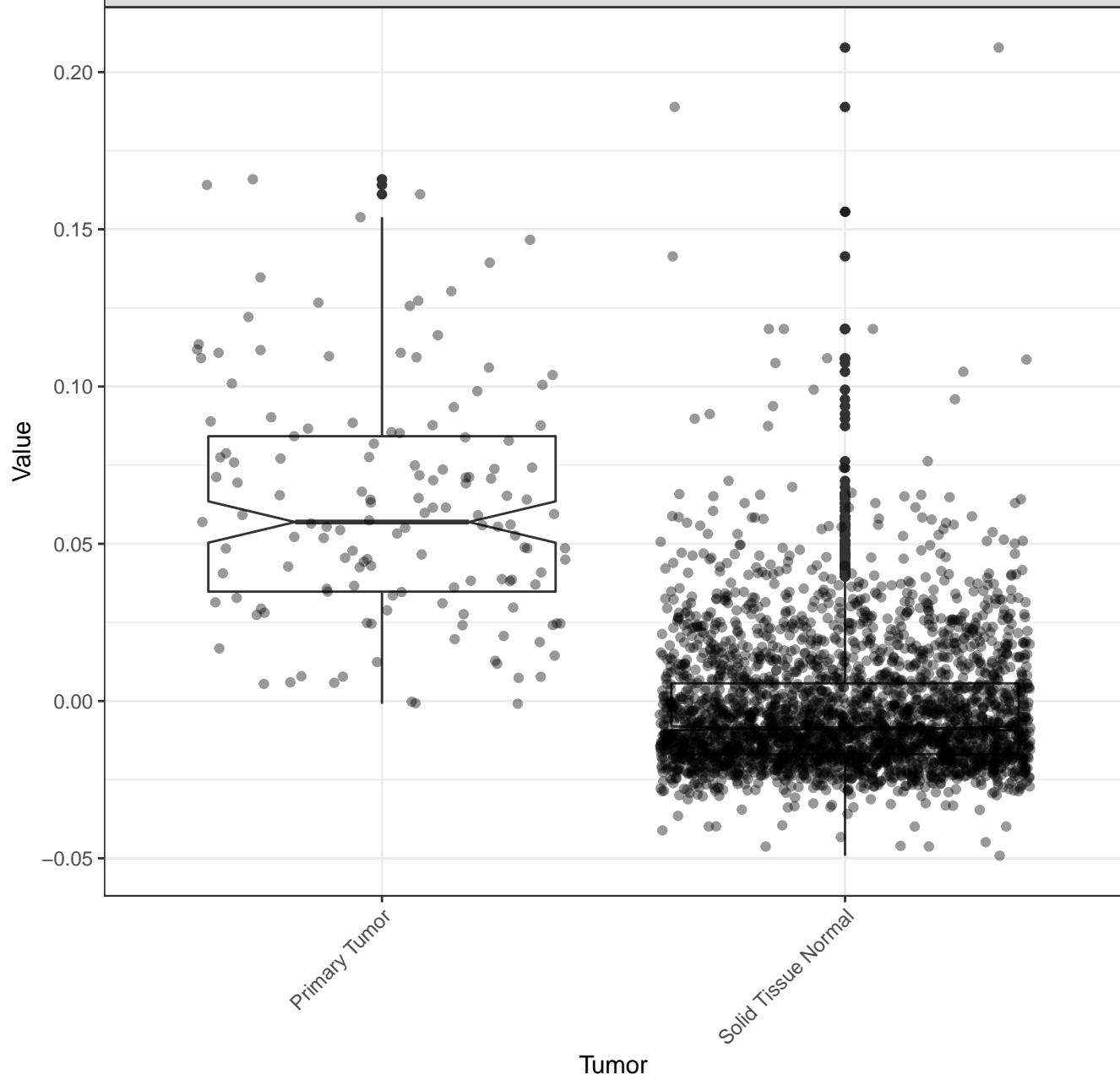
#### 4,REACTOME\_METABOLISM\_OF\_NUCLEOTIDES



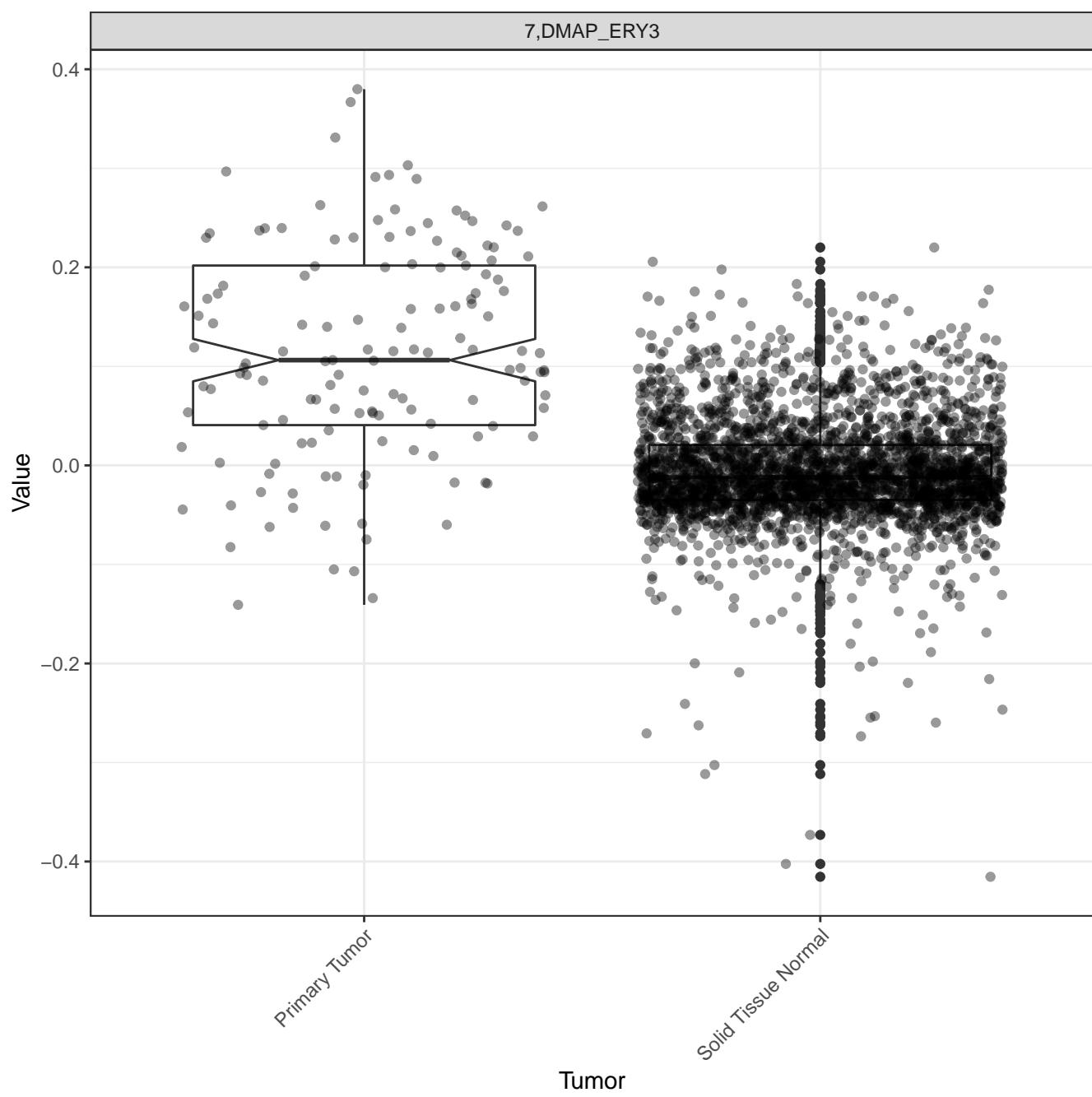
# 5,REACTOME\_NEURONAL\_SYSTEM



## 6,KEGG\_HEDGEHOG\_SIGNALING\_PATHWAY



## 7,DMAP\_ERY3



## 8,REACTOME\_INFLUENZA\_VIRAL\_RNA\_TRANSCRIPTION\_AND\_REPLICATION

Value

0.25

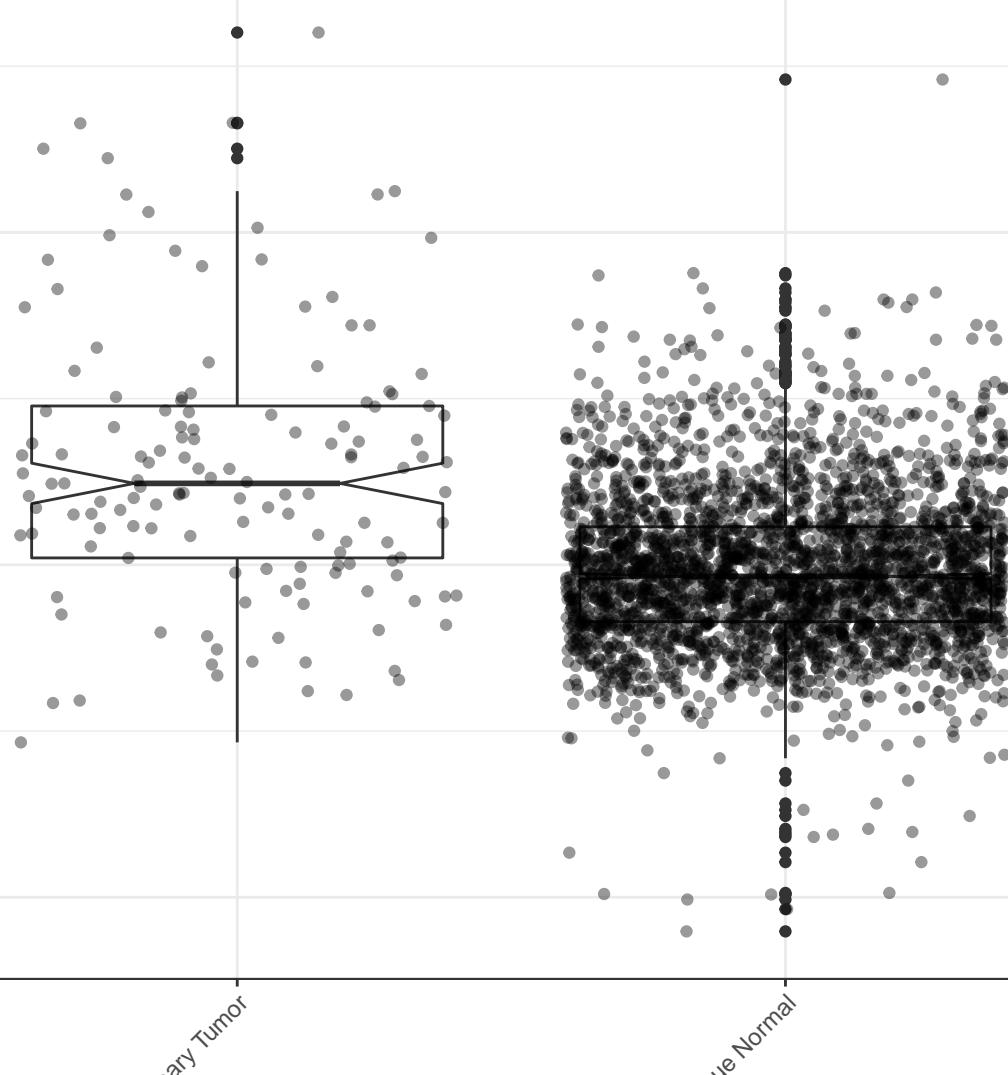
0.00

-0.25

Primary Tumor

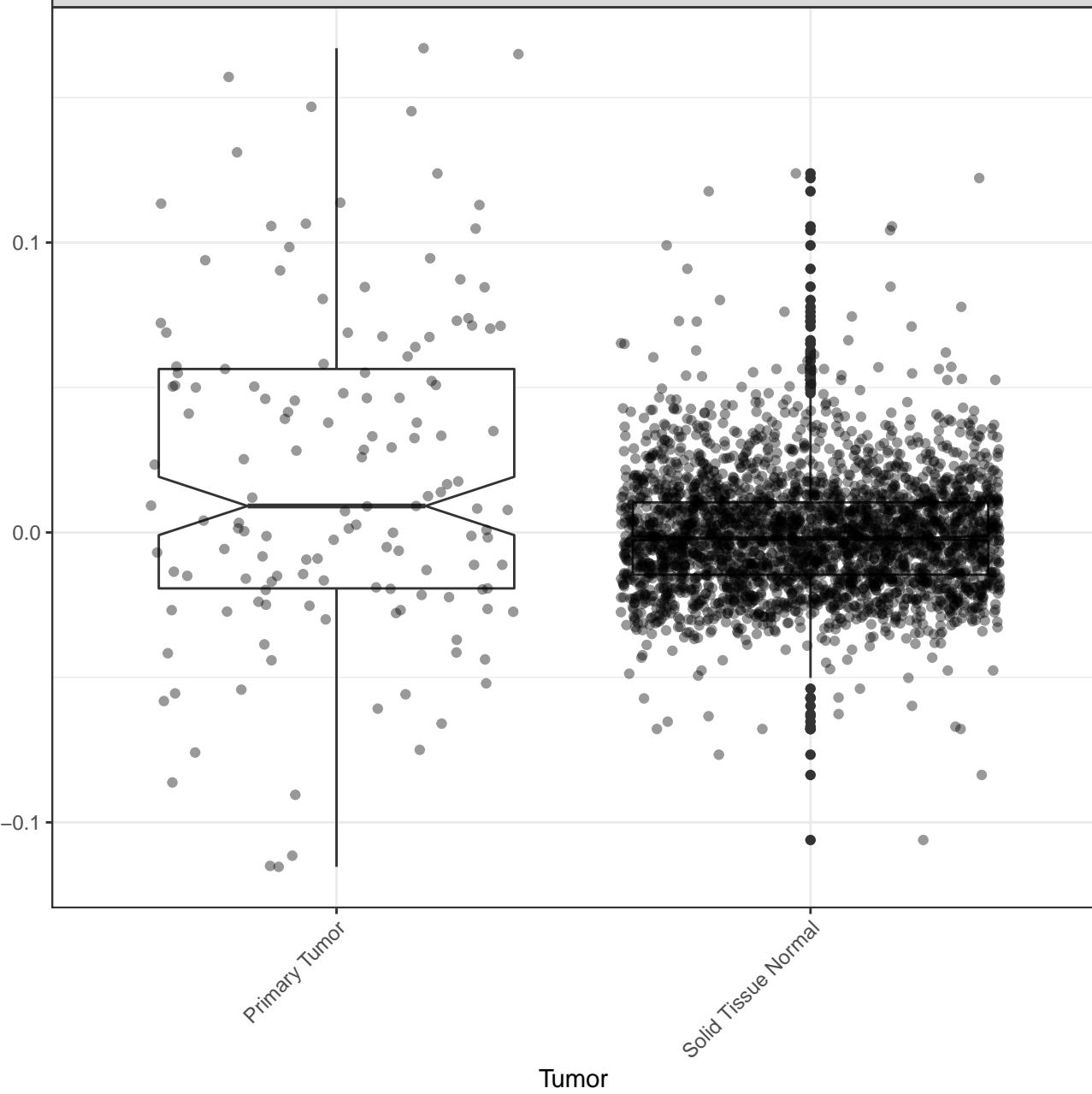
Solid Tissue Normal

Tumor

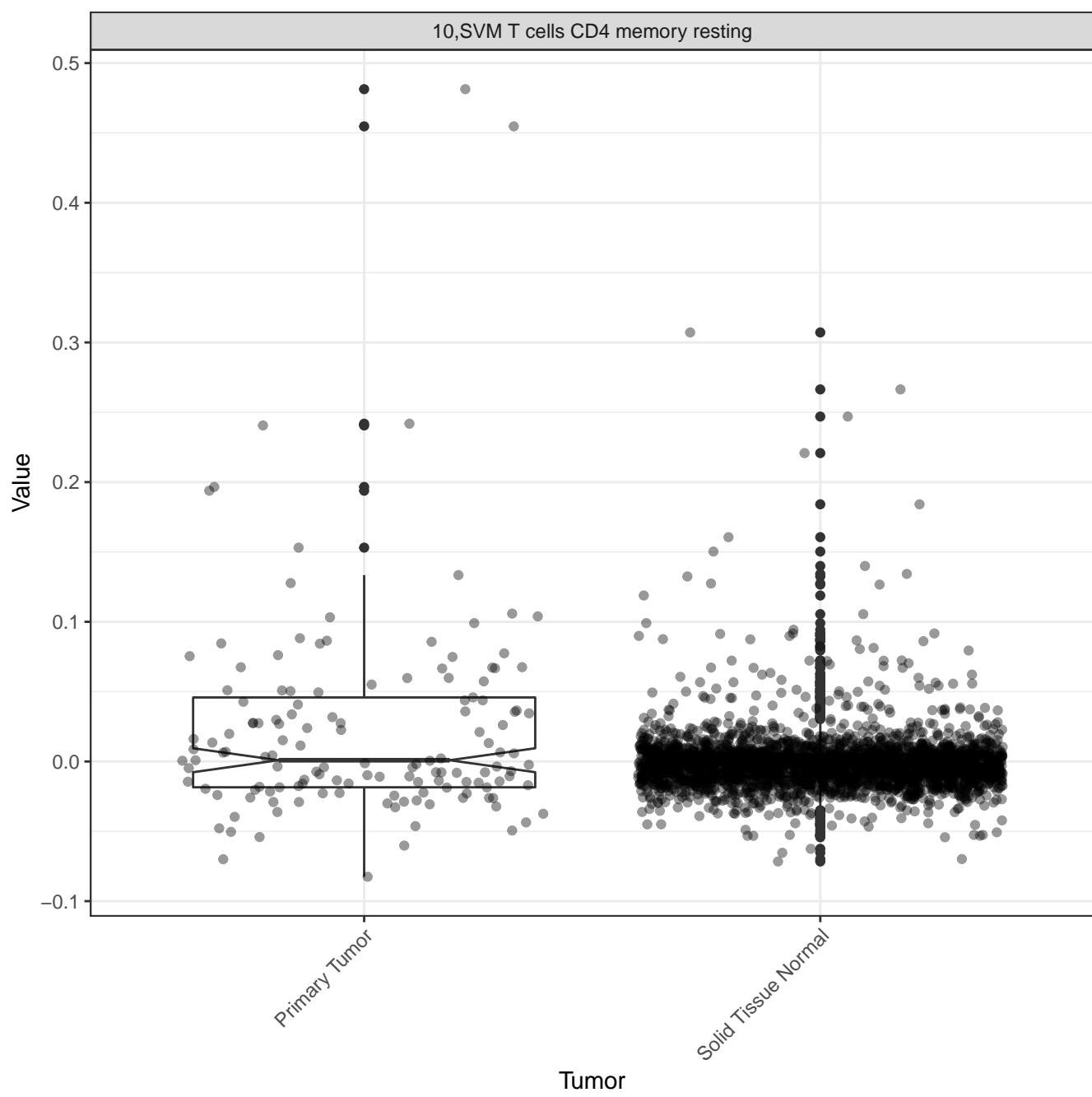


## 9,PID\_TCR\_PATHWAY

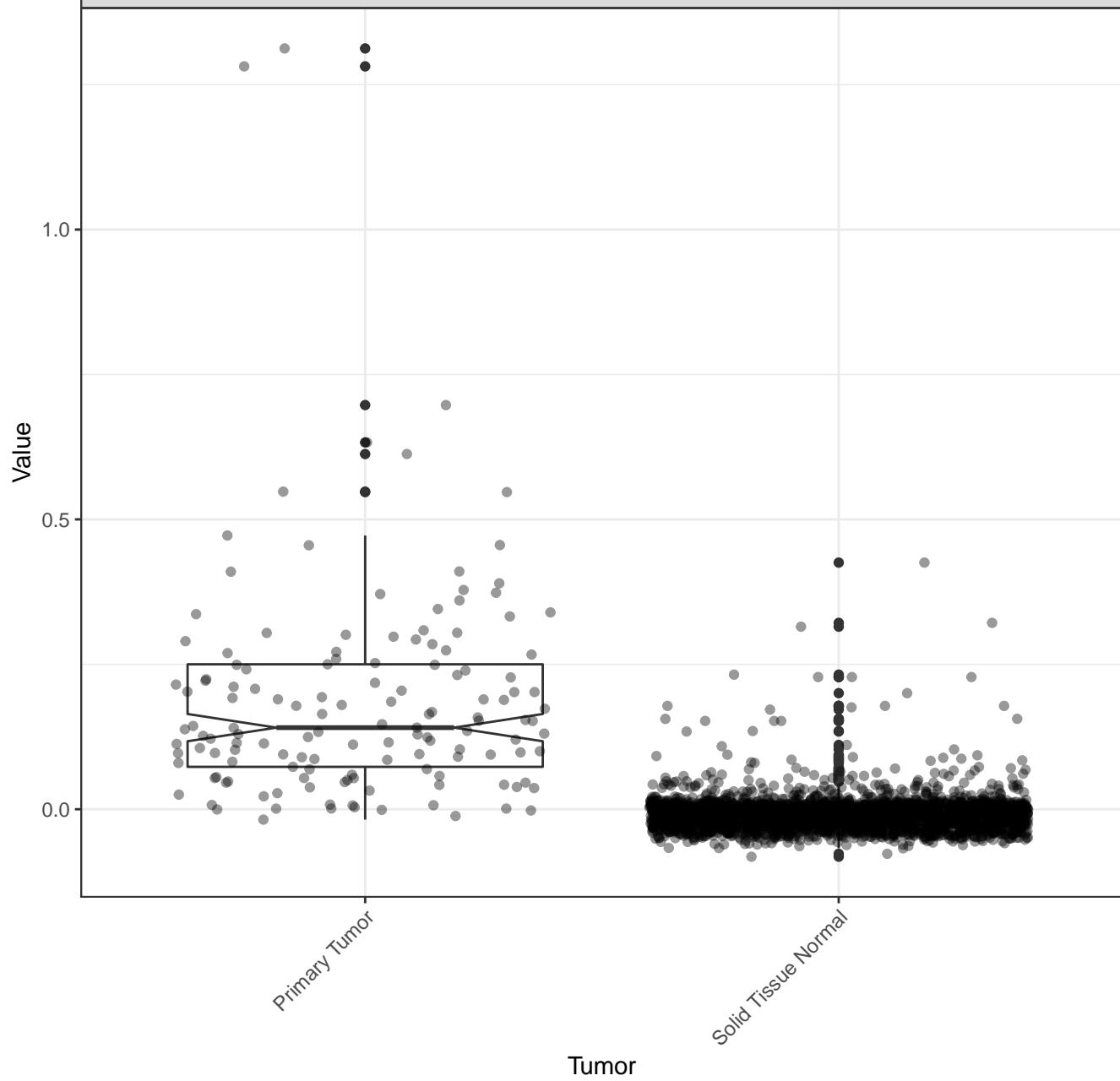
Value



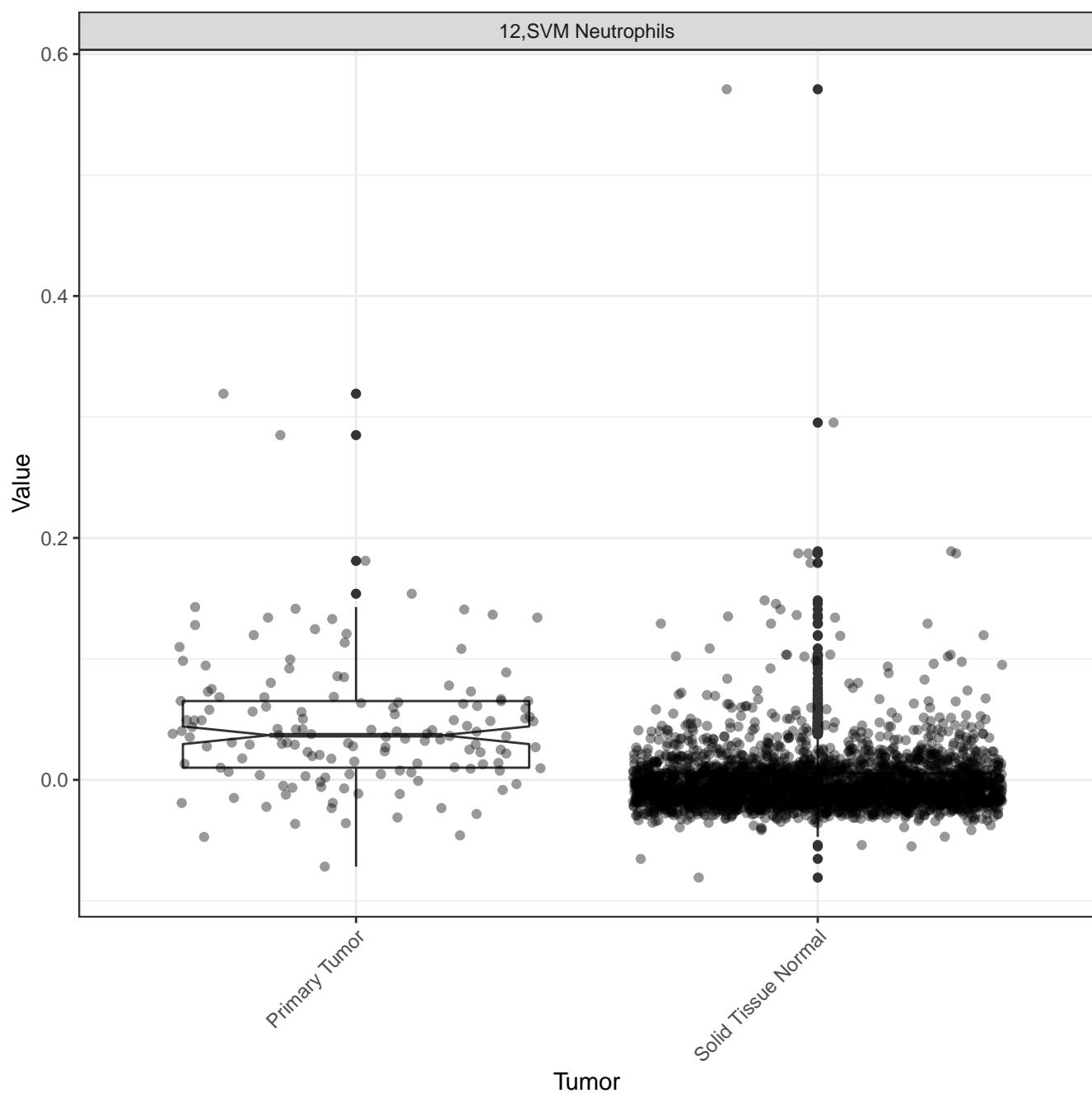
# 10,SVM T cells CD4 memory resting



## 11,IRIS\_DendriticCell-Control



### 12,SVM Neutrophils



### 13,REACTOME DEVELOPMENTAL\_BIOLOGY

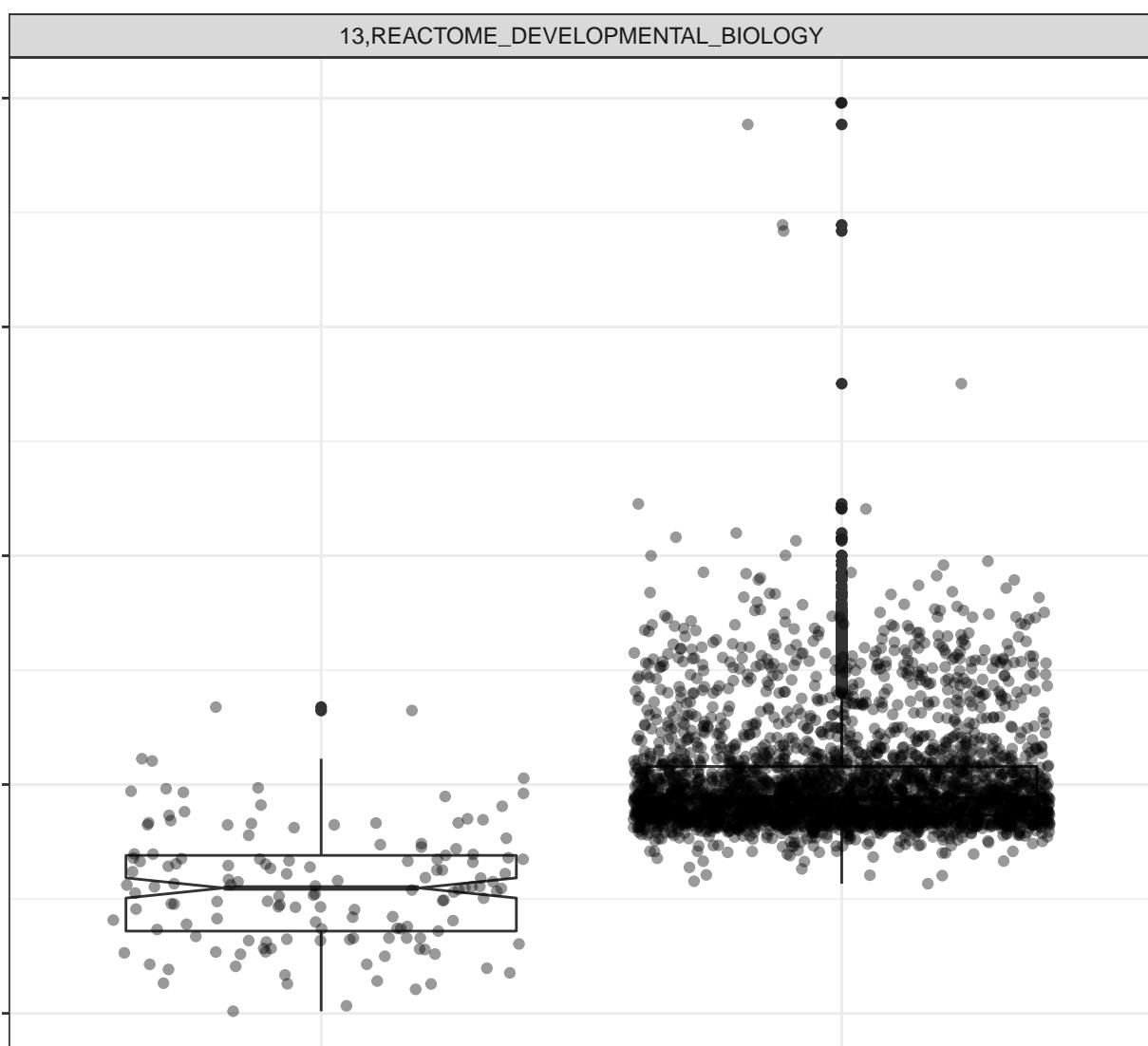
Value

0.75  
0.50  
0.25  
0.00  
-0.25

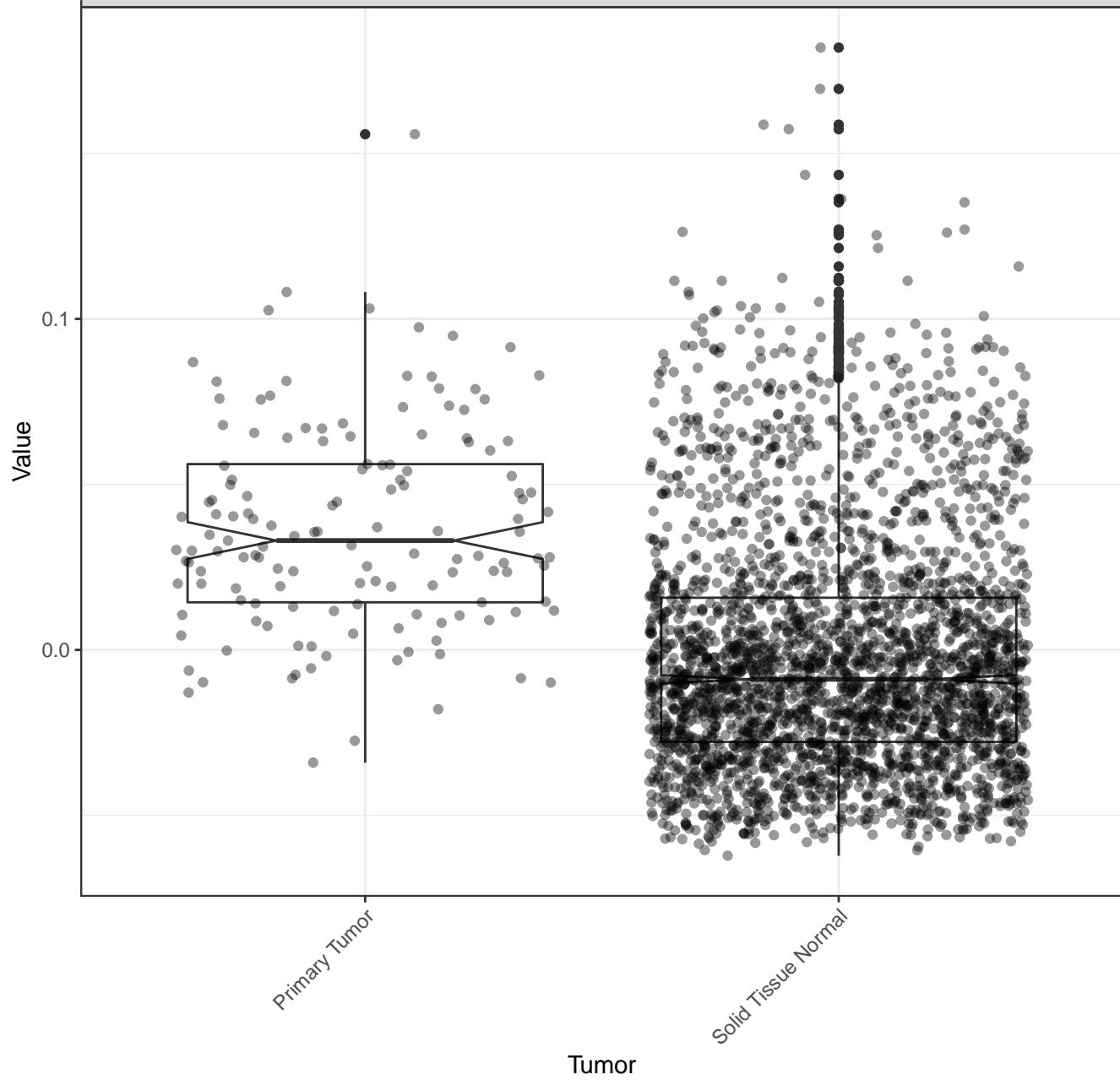
Primary Tumor

Solid Tissue Normal

Tumor

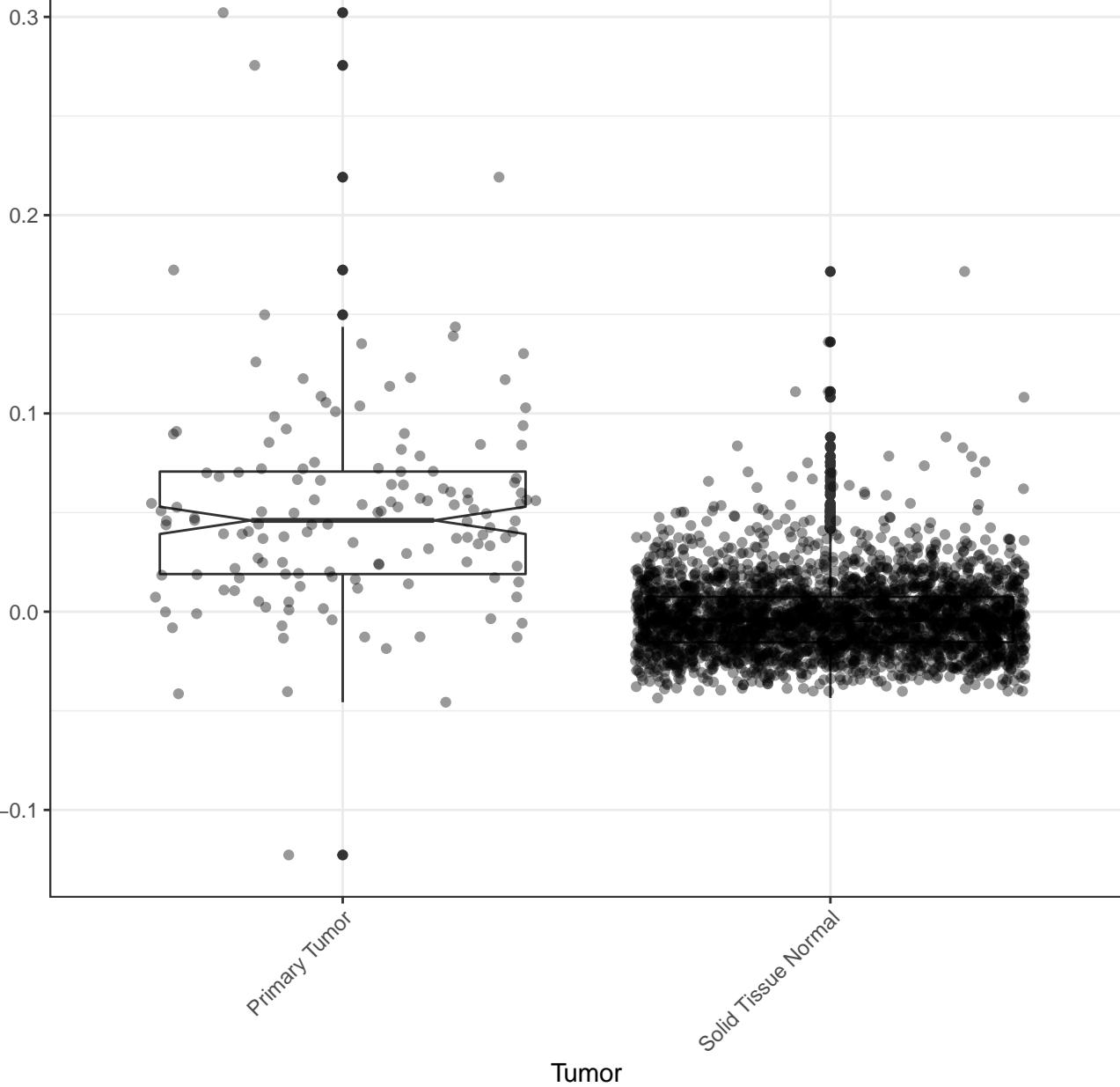


# 14,KEGG\_BASAL\_CELL\_CARCINOMA

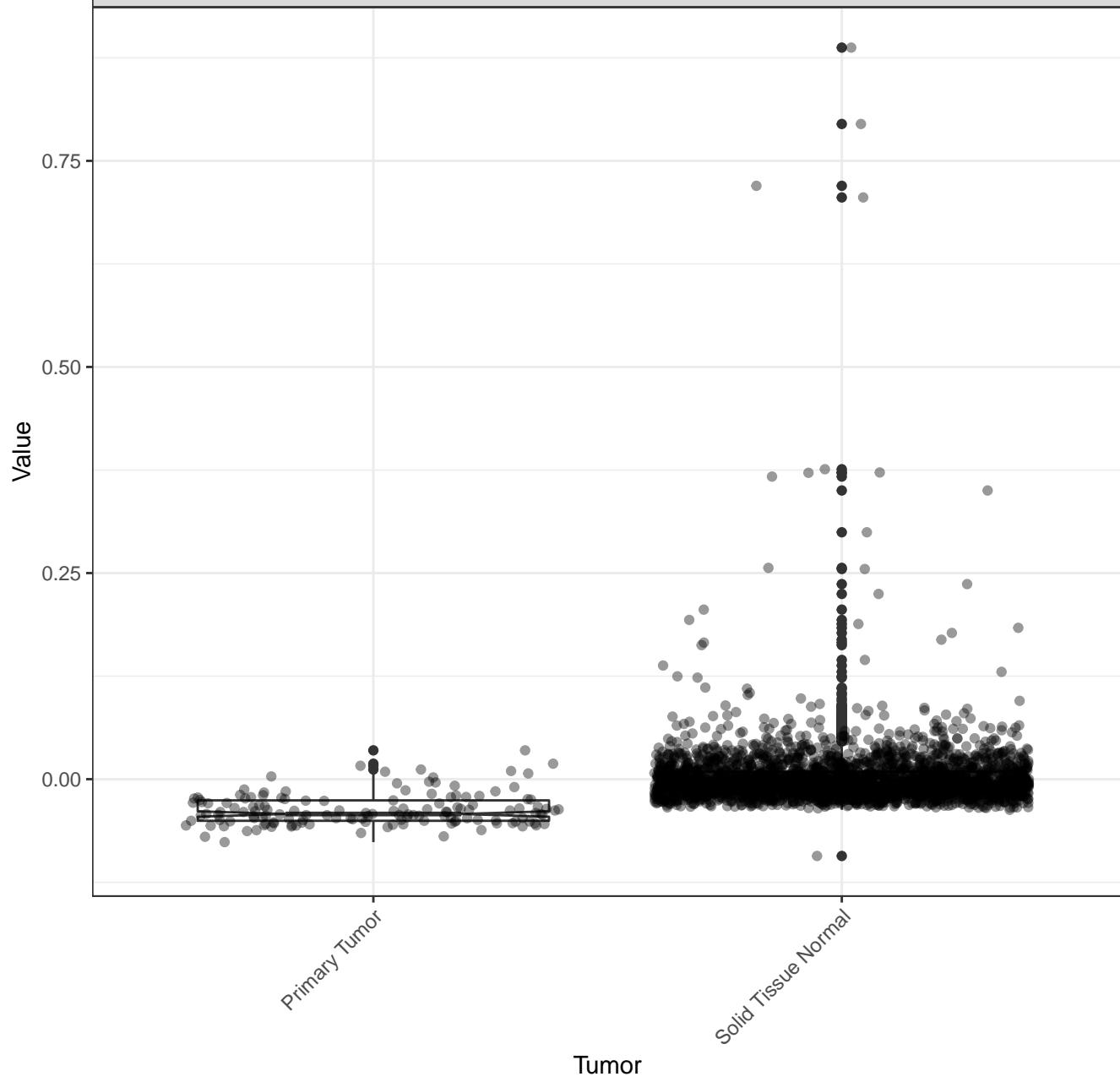


### 15,REACTOME\_METABOLISM\_OF\_AMINO\_ACIDS\_AND\_DERIVATIVES

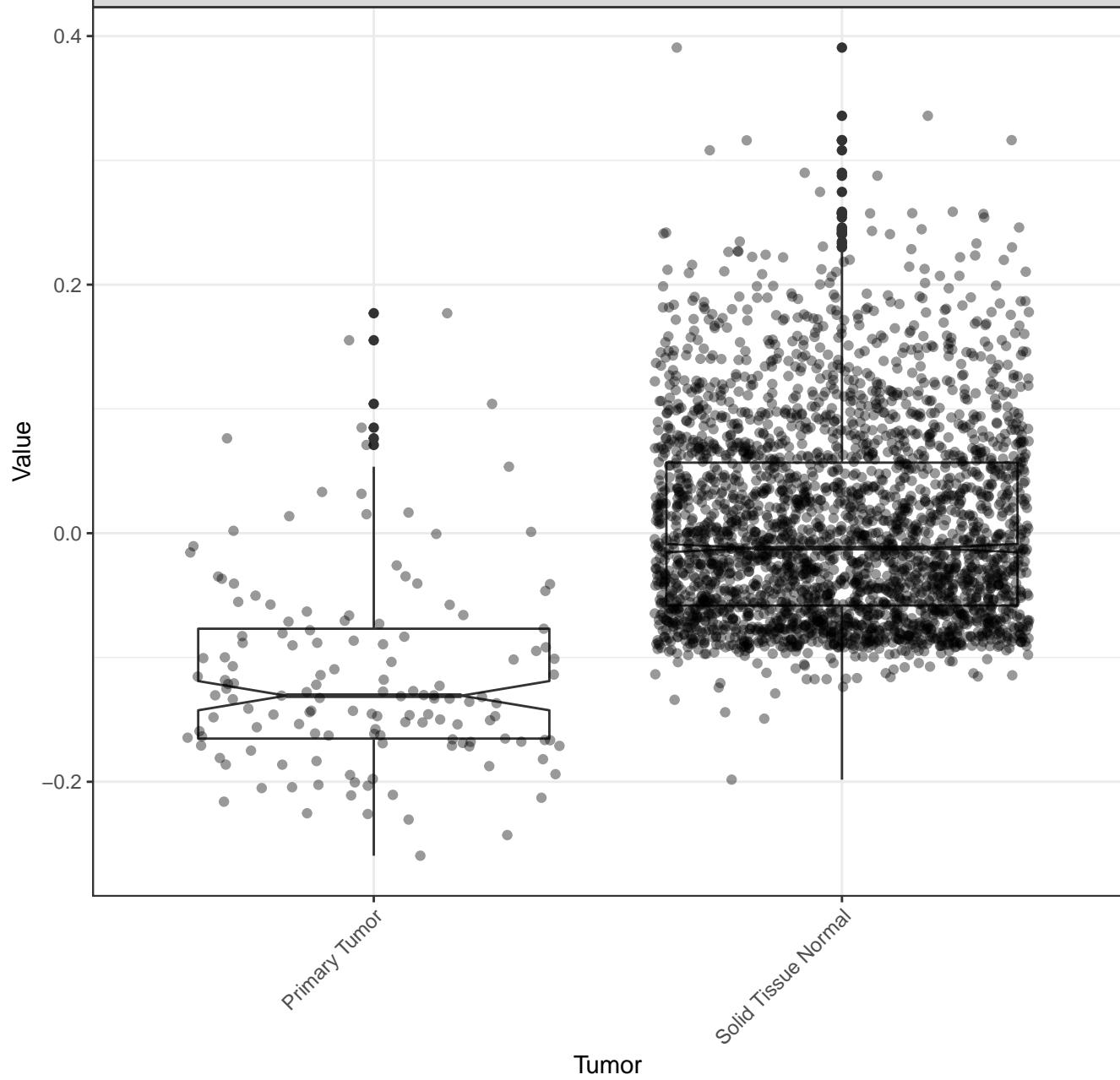
Value



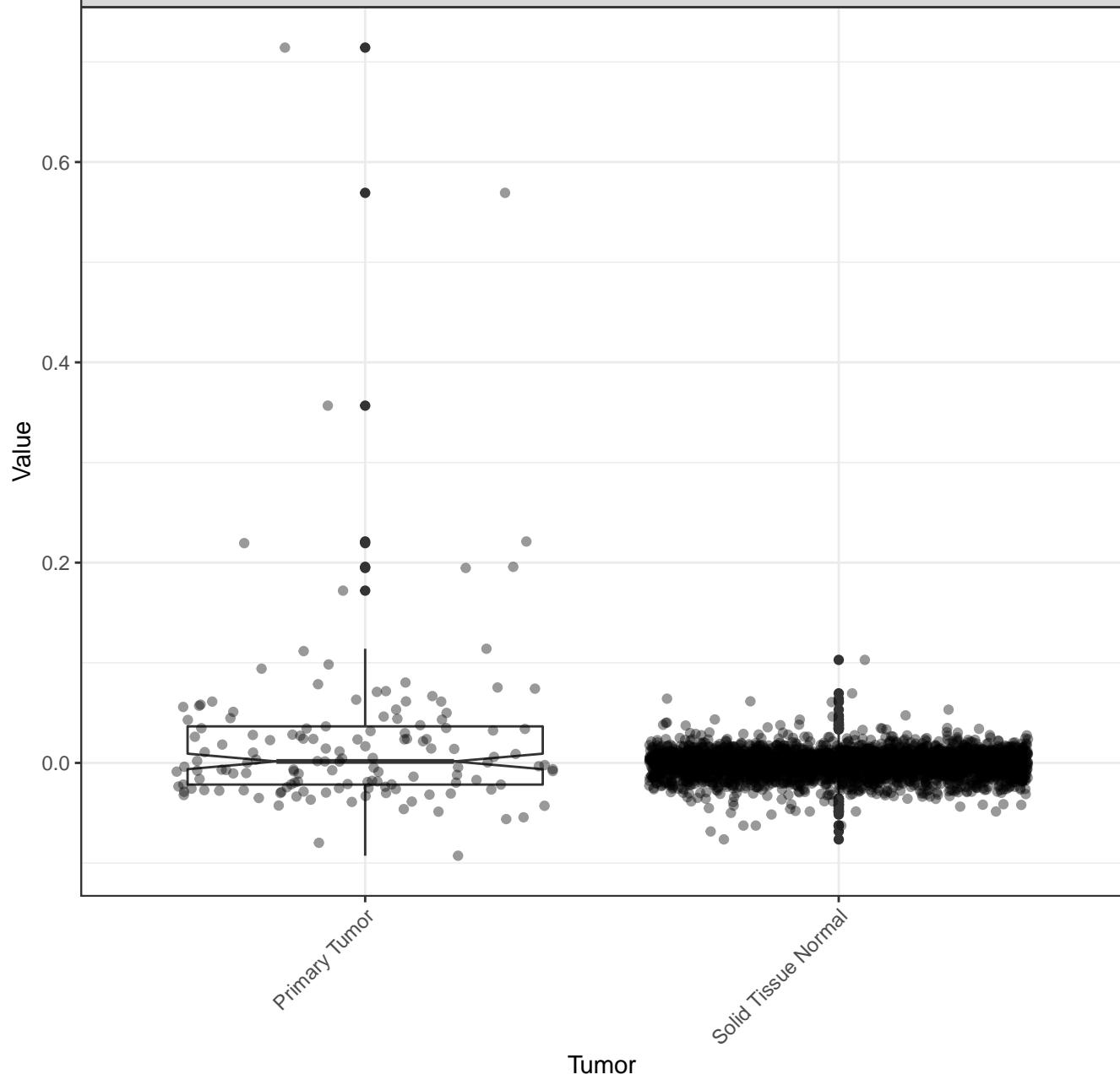
### 16.KEGG\_CALCIUM\_SIGNALING\_PATHWAY



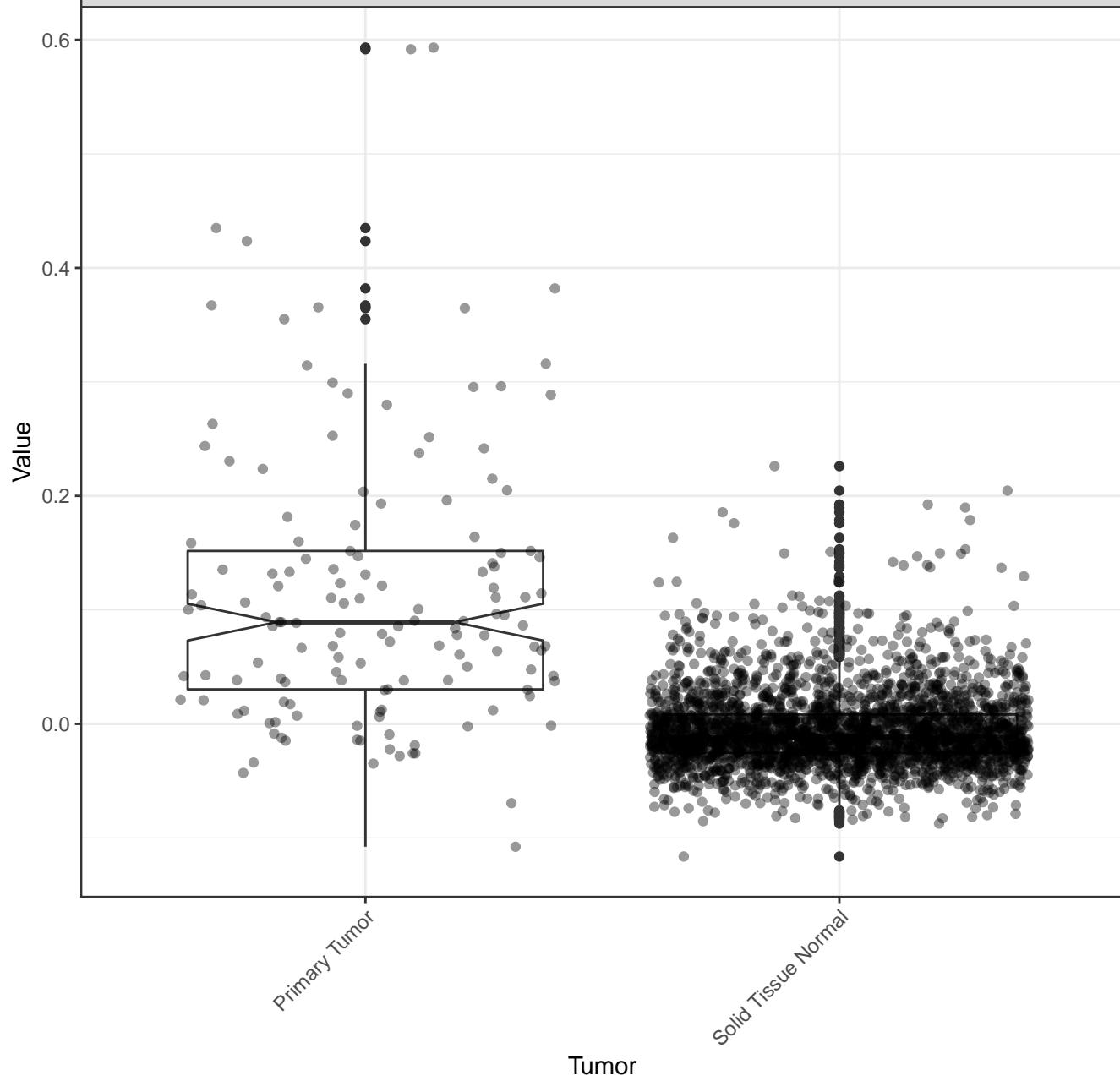
# 17,BIOCARTA\_CHREBP2\_PATHWAY



## 18,REACTOME\_COLLAGEN\_FORMATION



# 19,REACTOME\_PEPTIDE\_CHAIN\_ELONGATION



## 20,KEGG\_INTESTINAL\_IMMUNE\_NETWORK\_FOR\_IGA\_PRODUCTION

Value

0.4

0.3

0.2

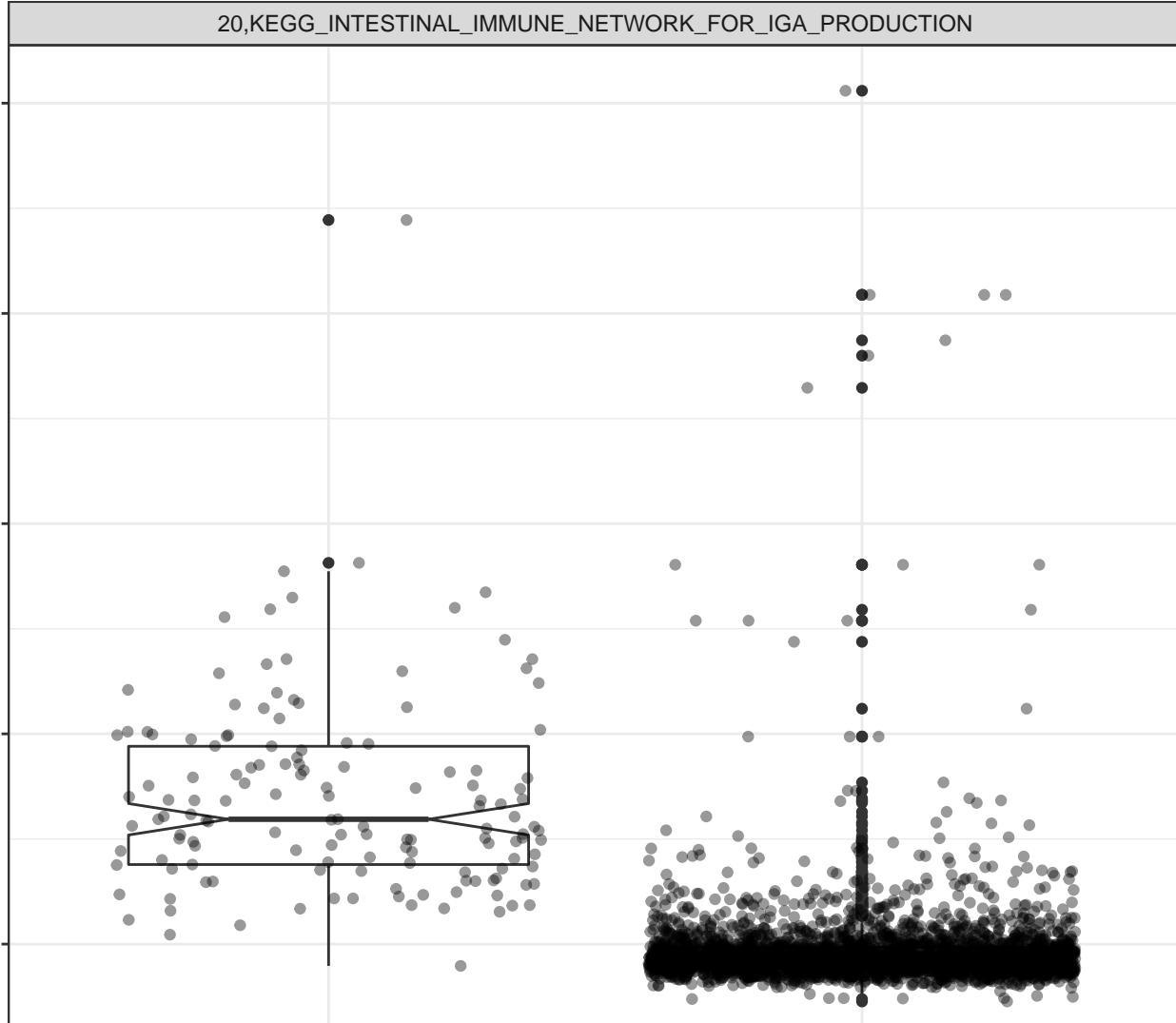
0.1

0.0

Primary Tumor

Solid Tissue Normal

Tumor



# 21,SVM Macrophages M1

Value

0.3

0.2

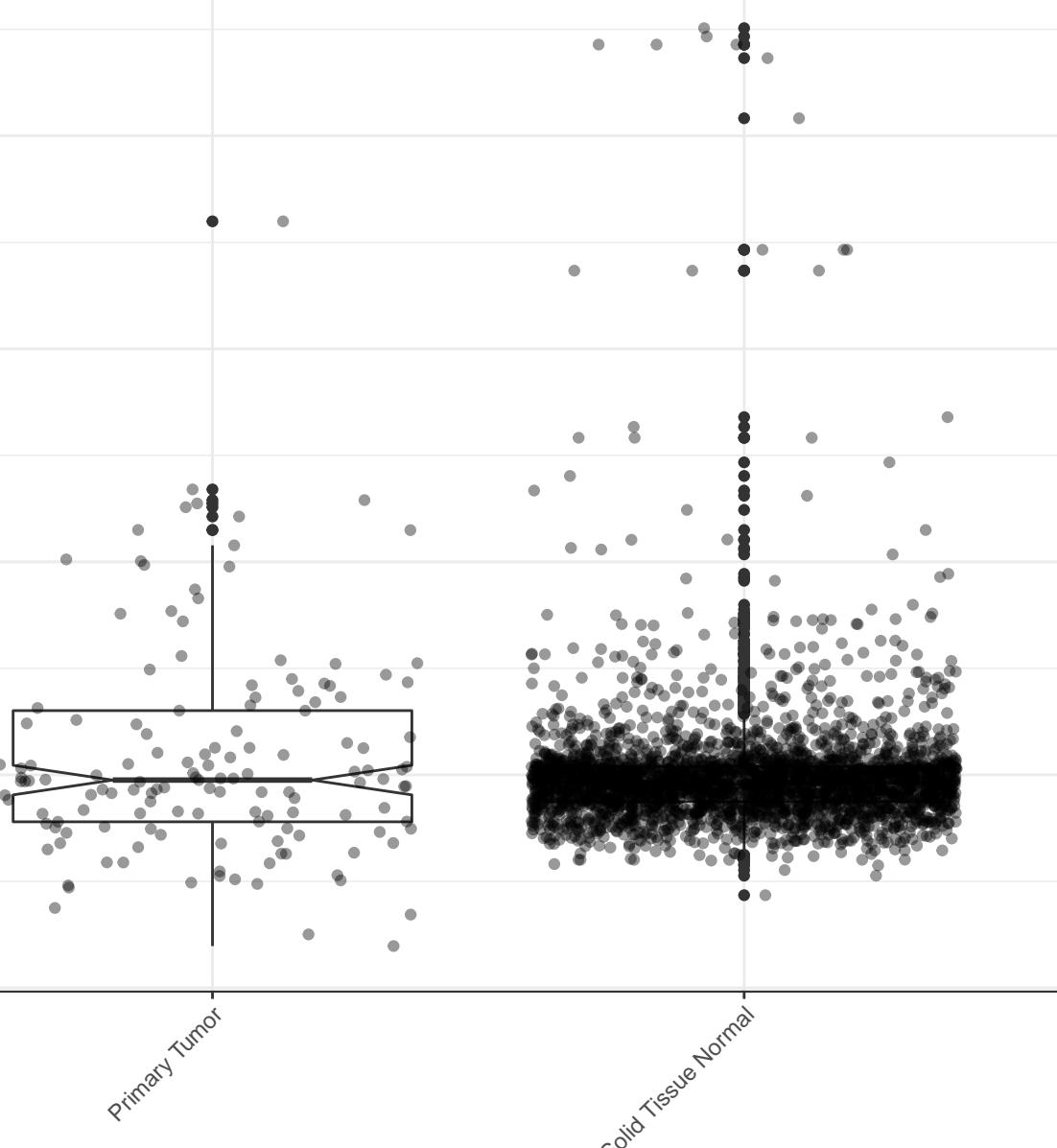
0.1

-0.1

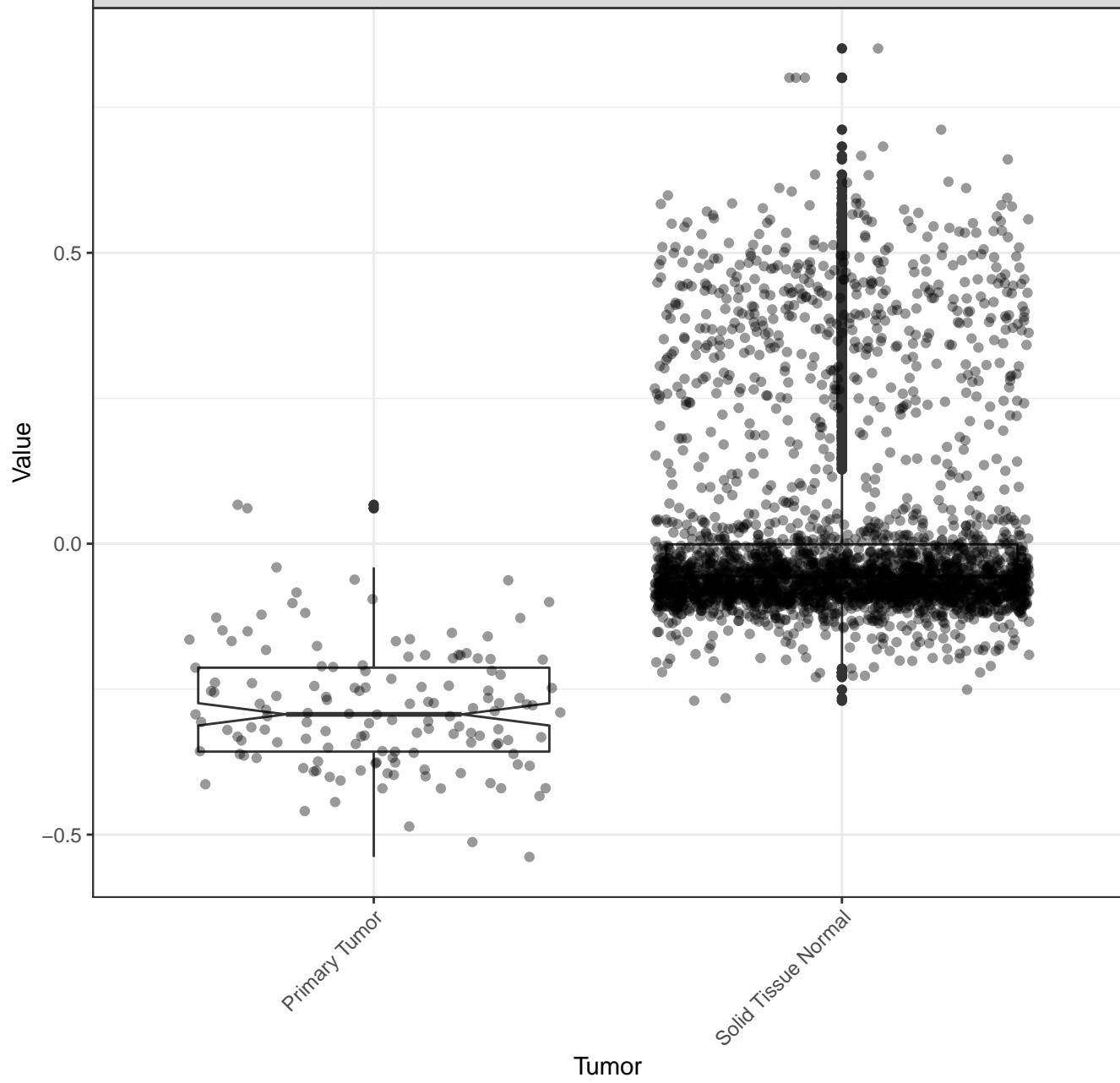
Primary Tumor

Solid Tissue Normal

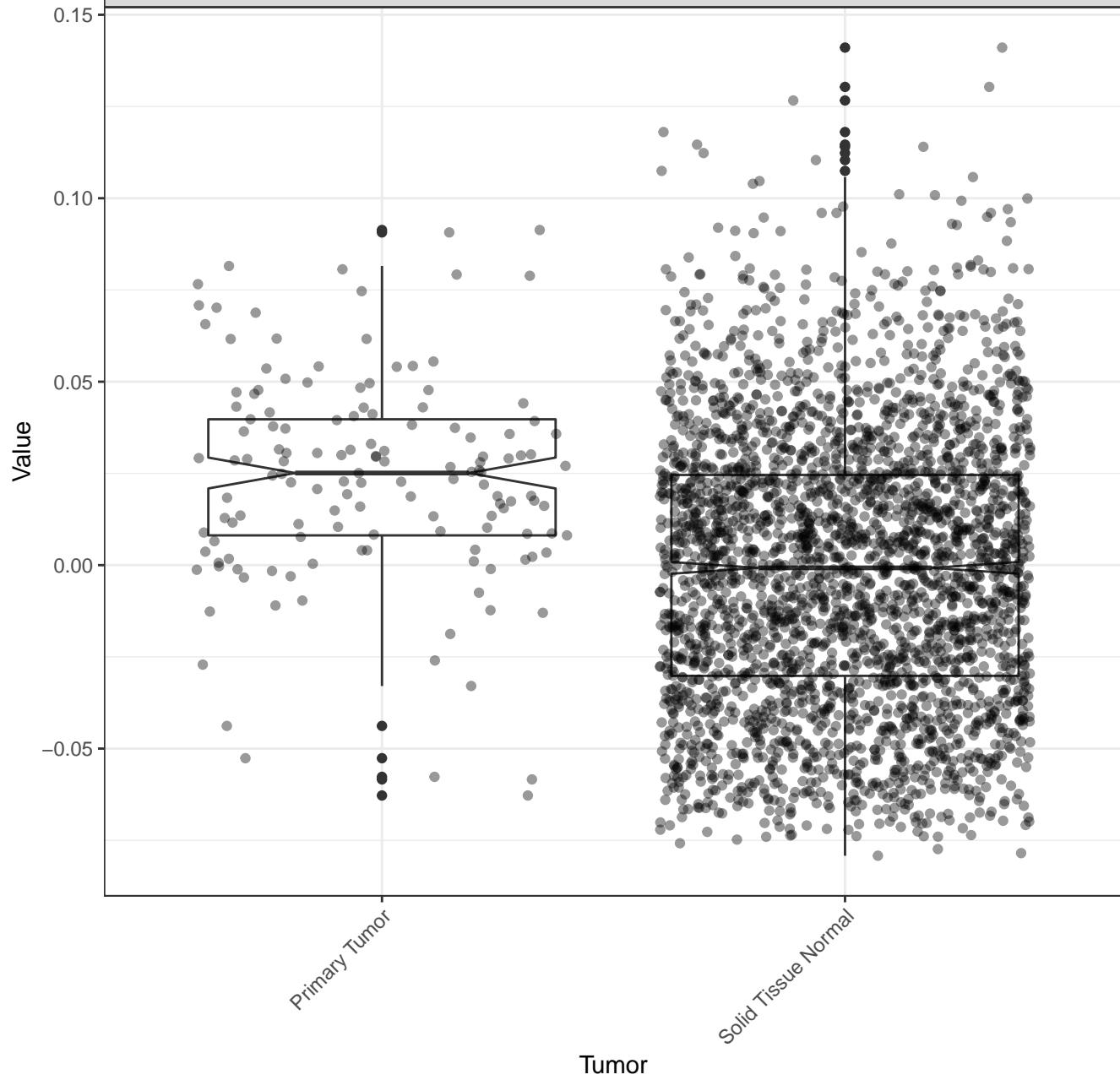
Tumor



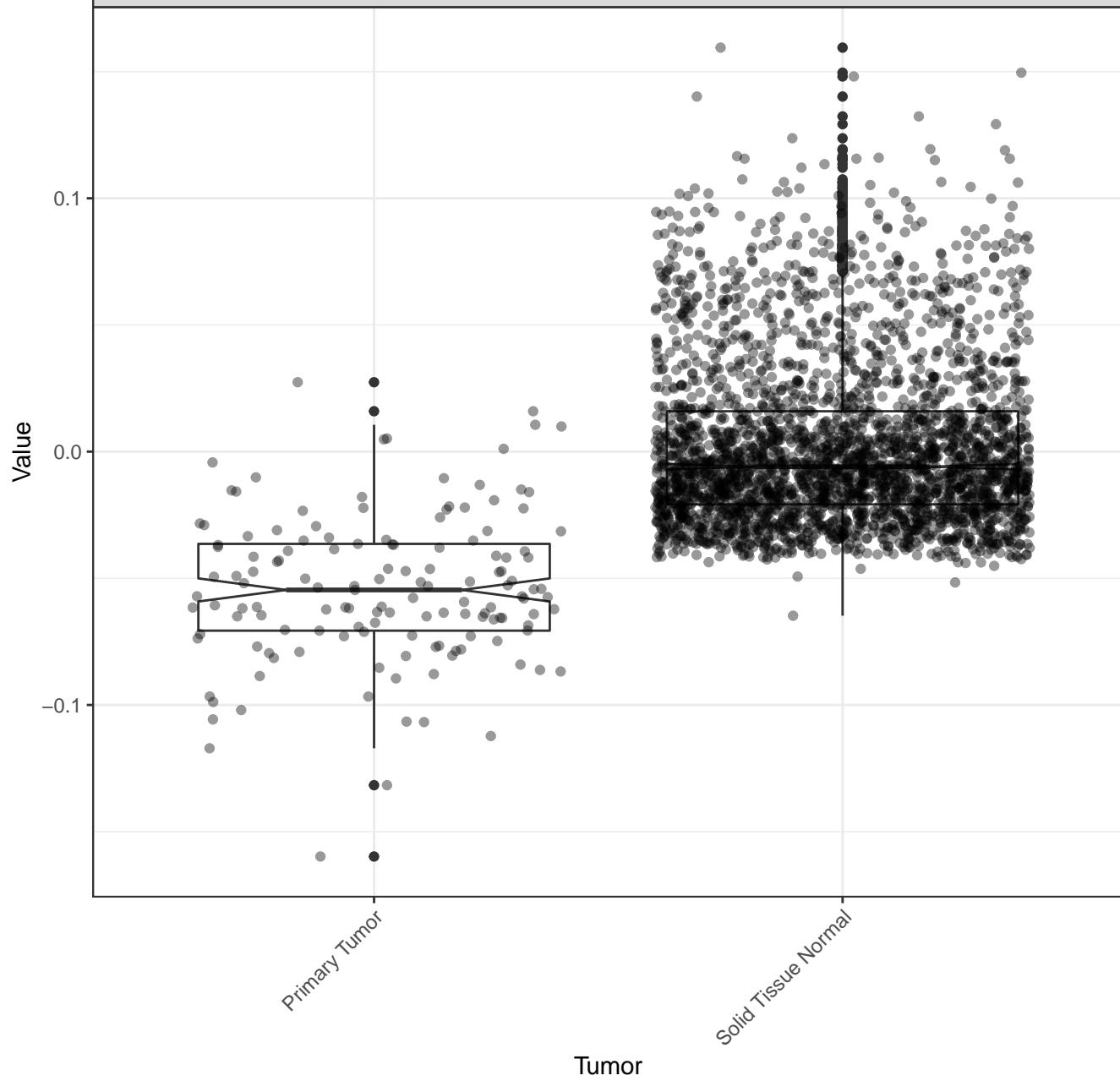
## 22,MIPS\_SPLICEOSOME



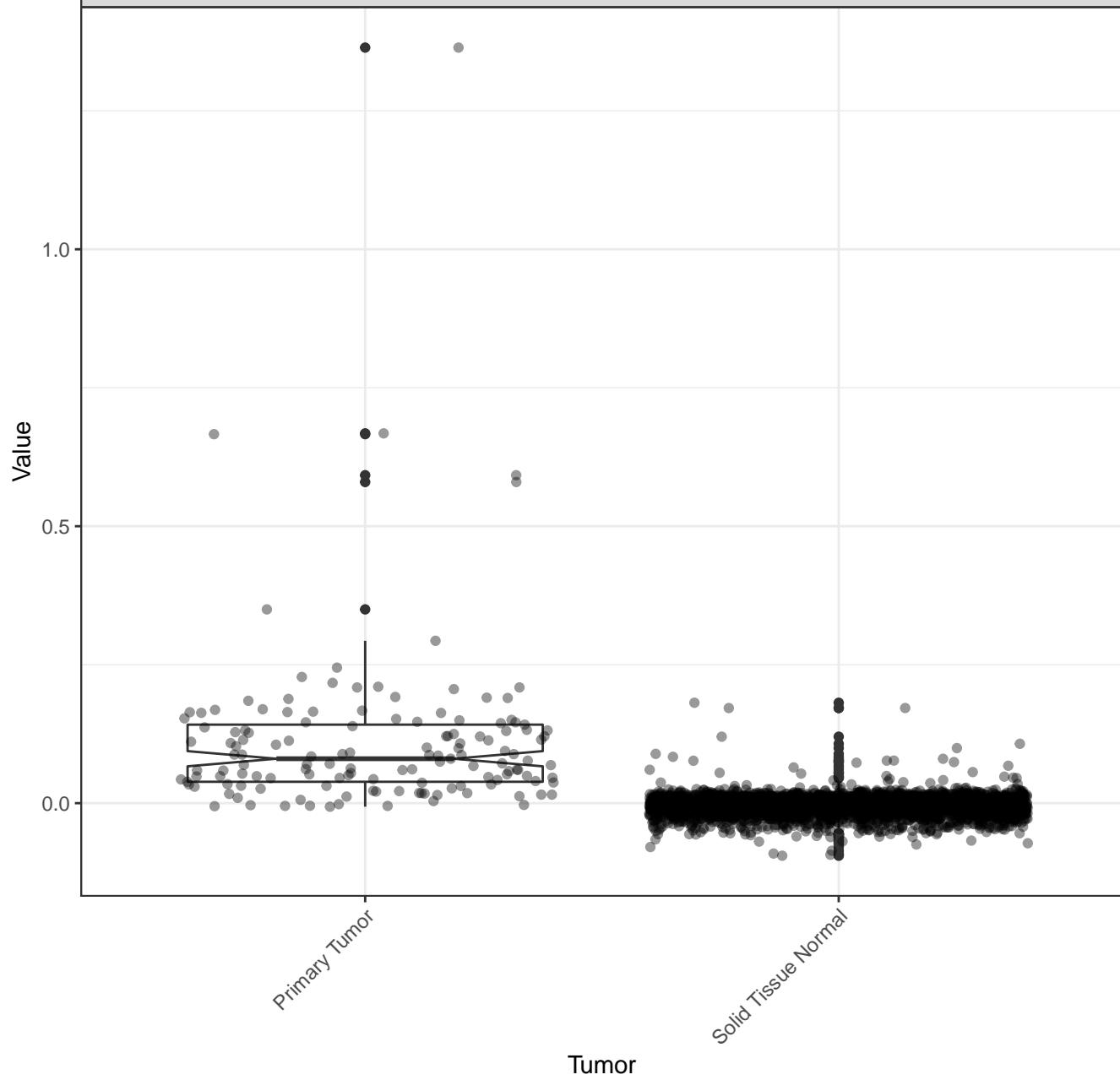
## 23,DMAP\_ERY4



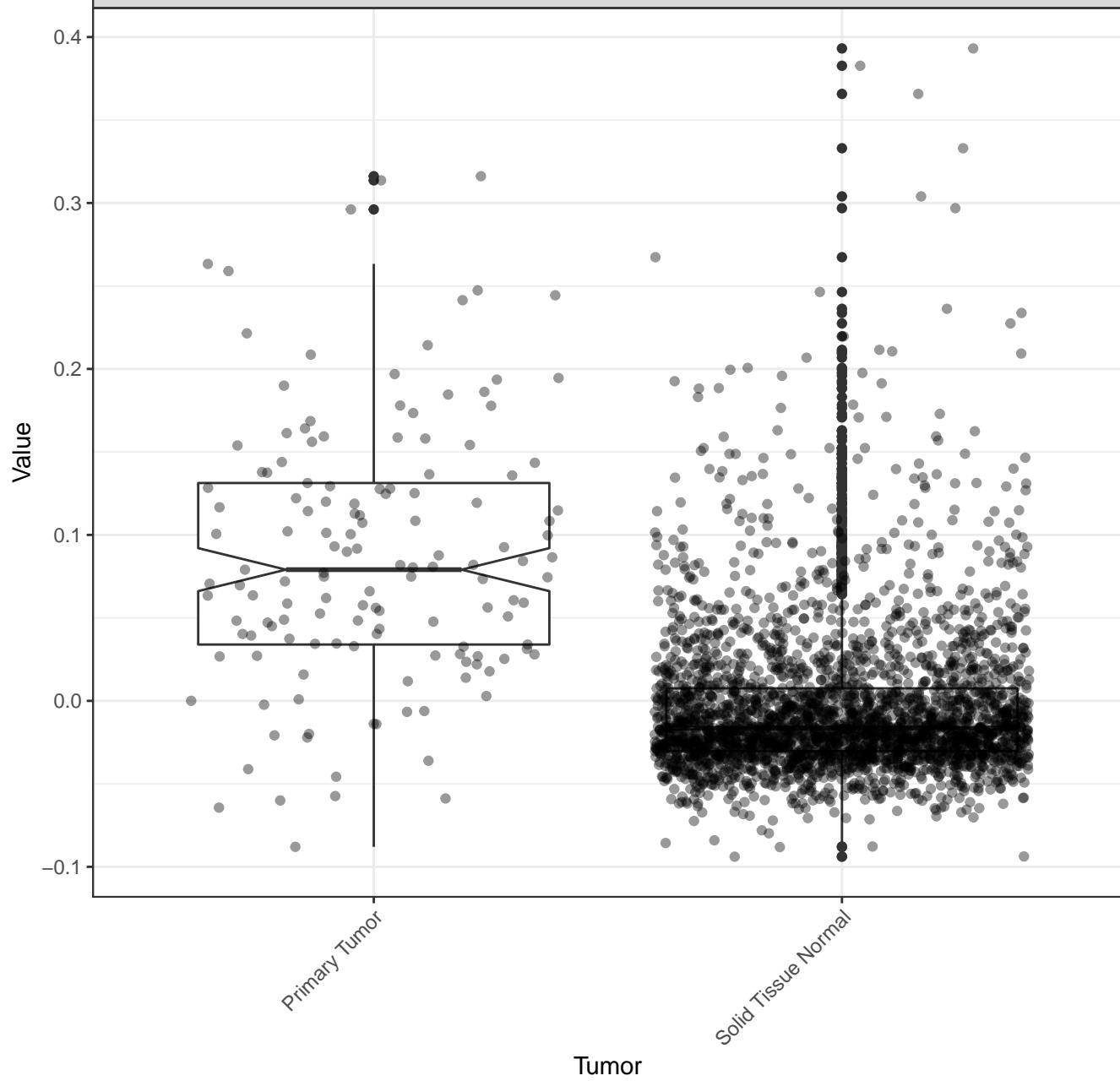
## 24,REACTOME\_PLATELET\_HOMEOSTASIS



## 25,PID\_INTEGRIN1\_PATHWAY



## 26,SVM Neutrophils



Value

0.4

0.3

0.2

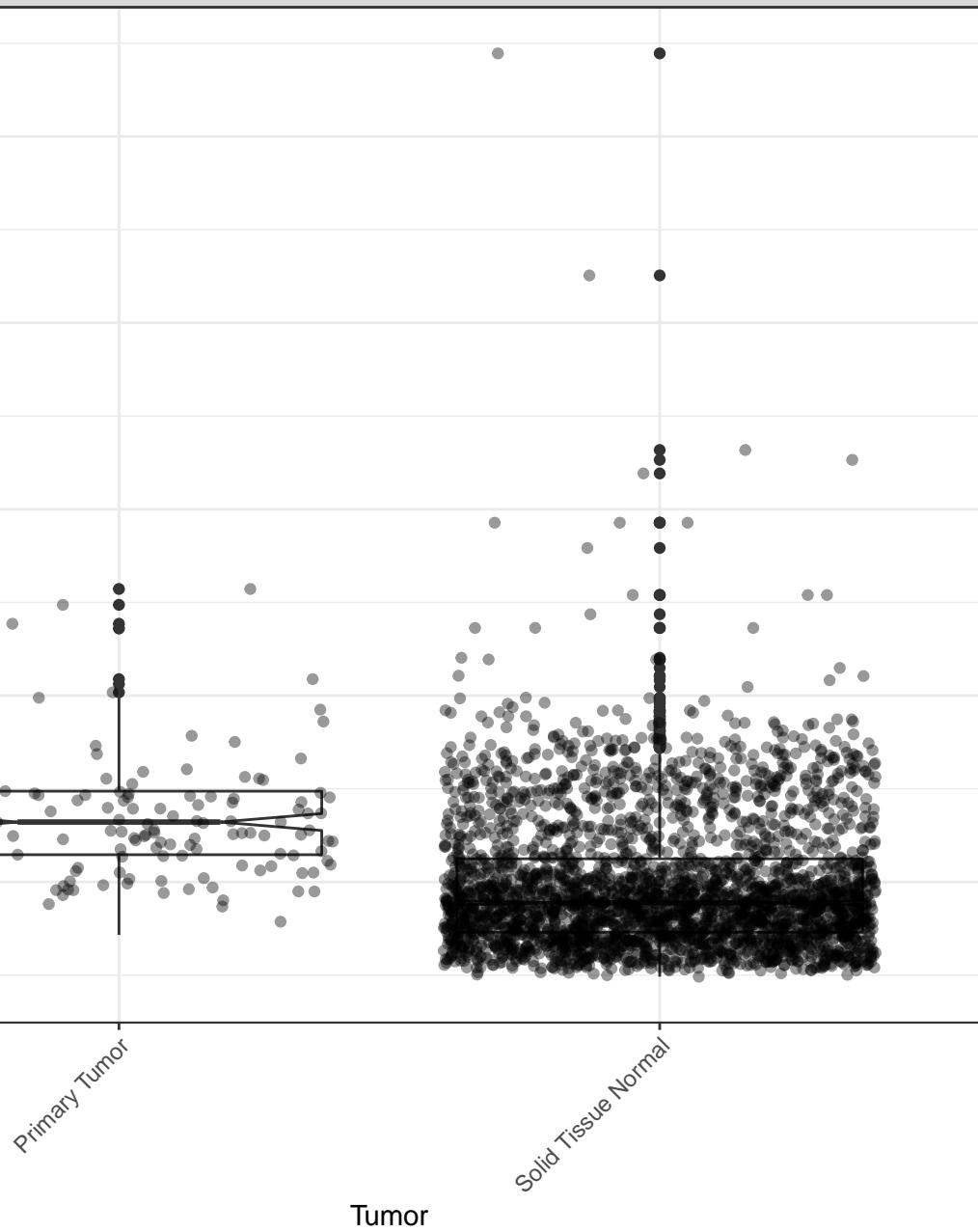
0.1

0.0

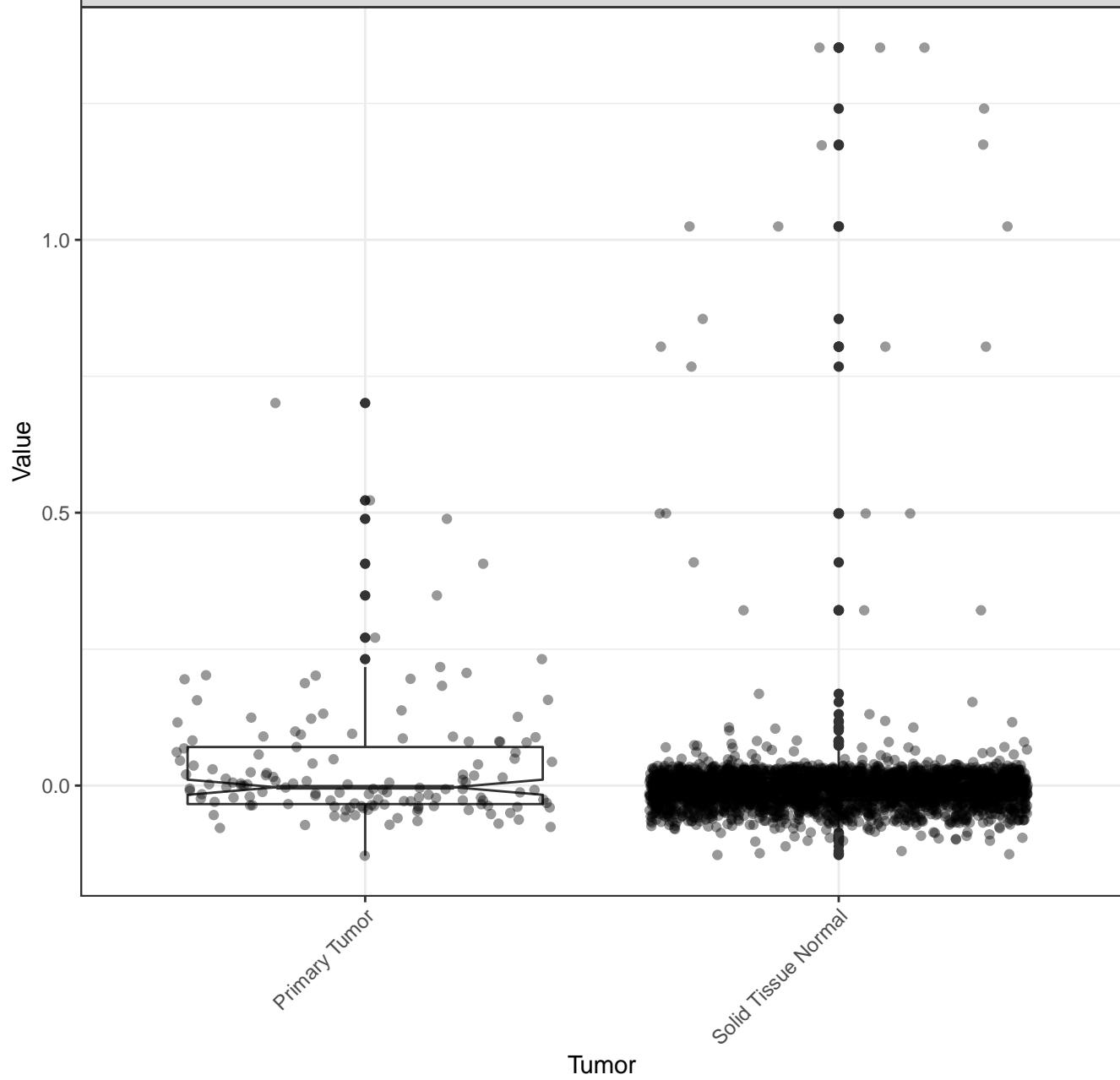
Primary Tumor

Solid Tissue Normal

Tumor



## 28,REACTOME\_INTERFERON\_ALPHA\_BETA\_SIGNALING



## 29,REACTOME\_E2F\_MEDIATED\_REGULATION\_OF\_DNA\_REPLICATION

Value

0.3

0.2

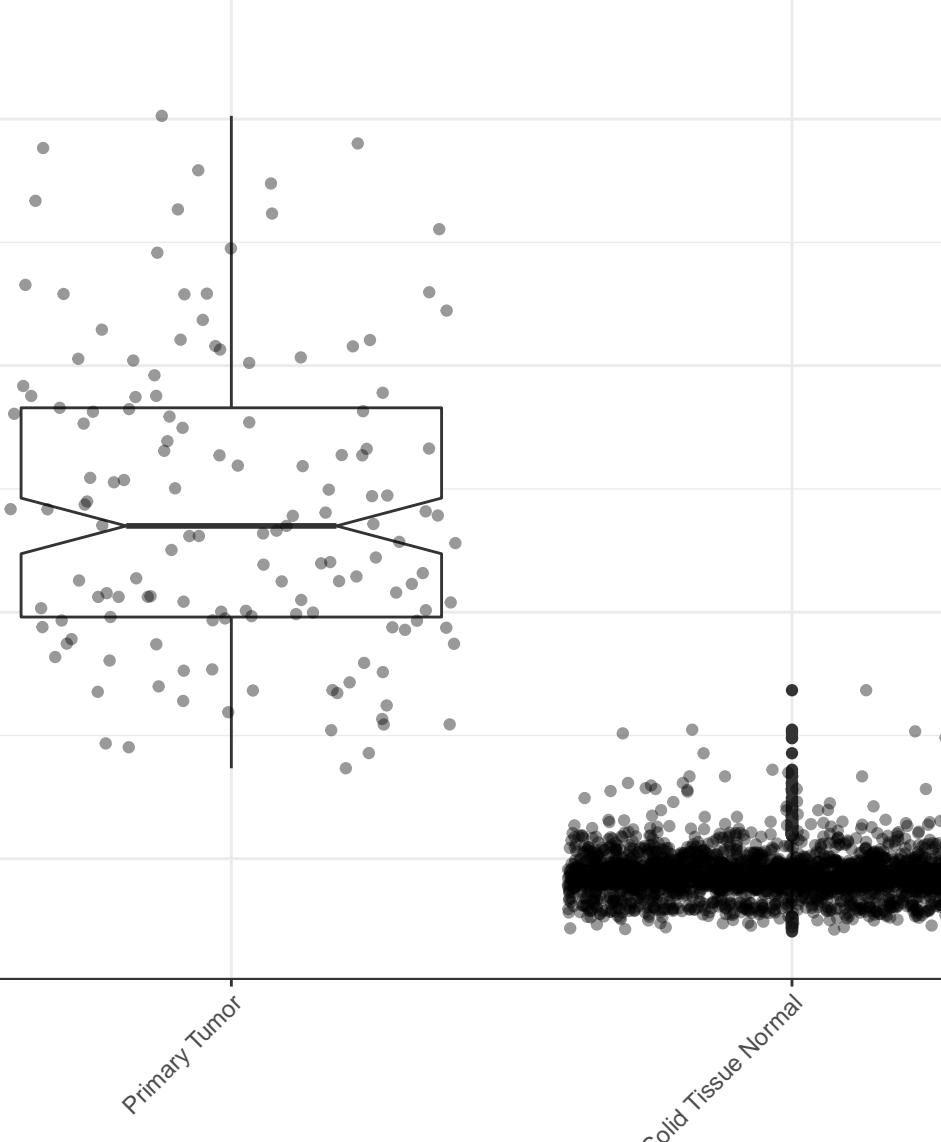
0.1

0.0

Primary Tumor

Solid Tissue Normal

Tumor



## 30,REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACIDS\_OLIGOPEPTIDES

Value

0.15

0.10

0.05

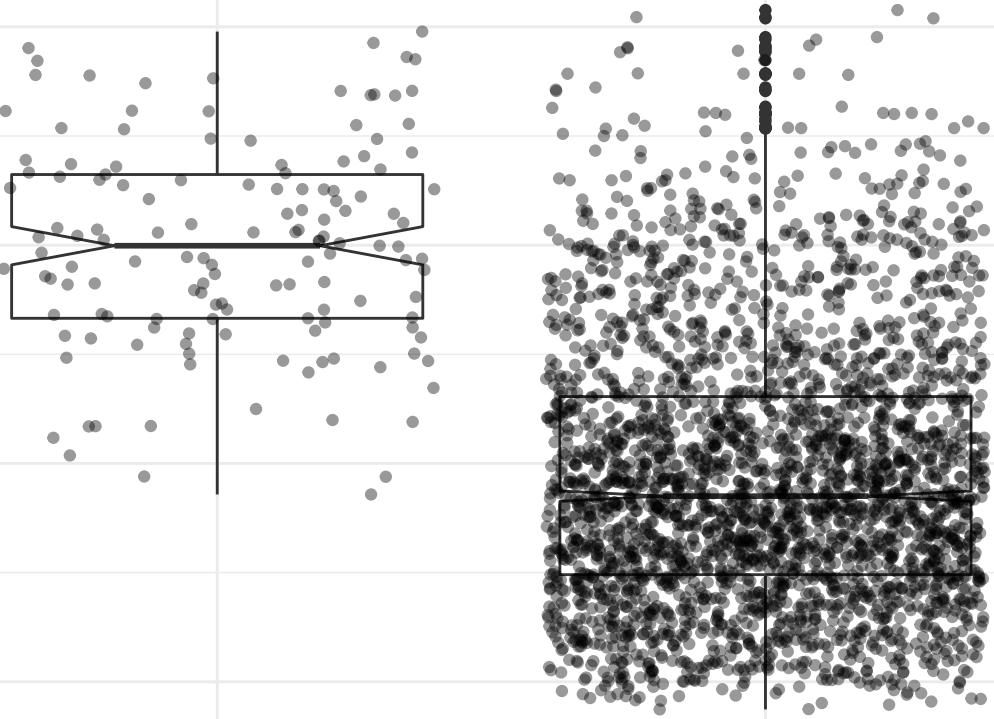
0.00

-0.05

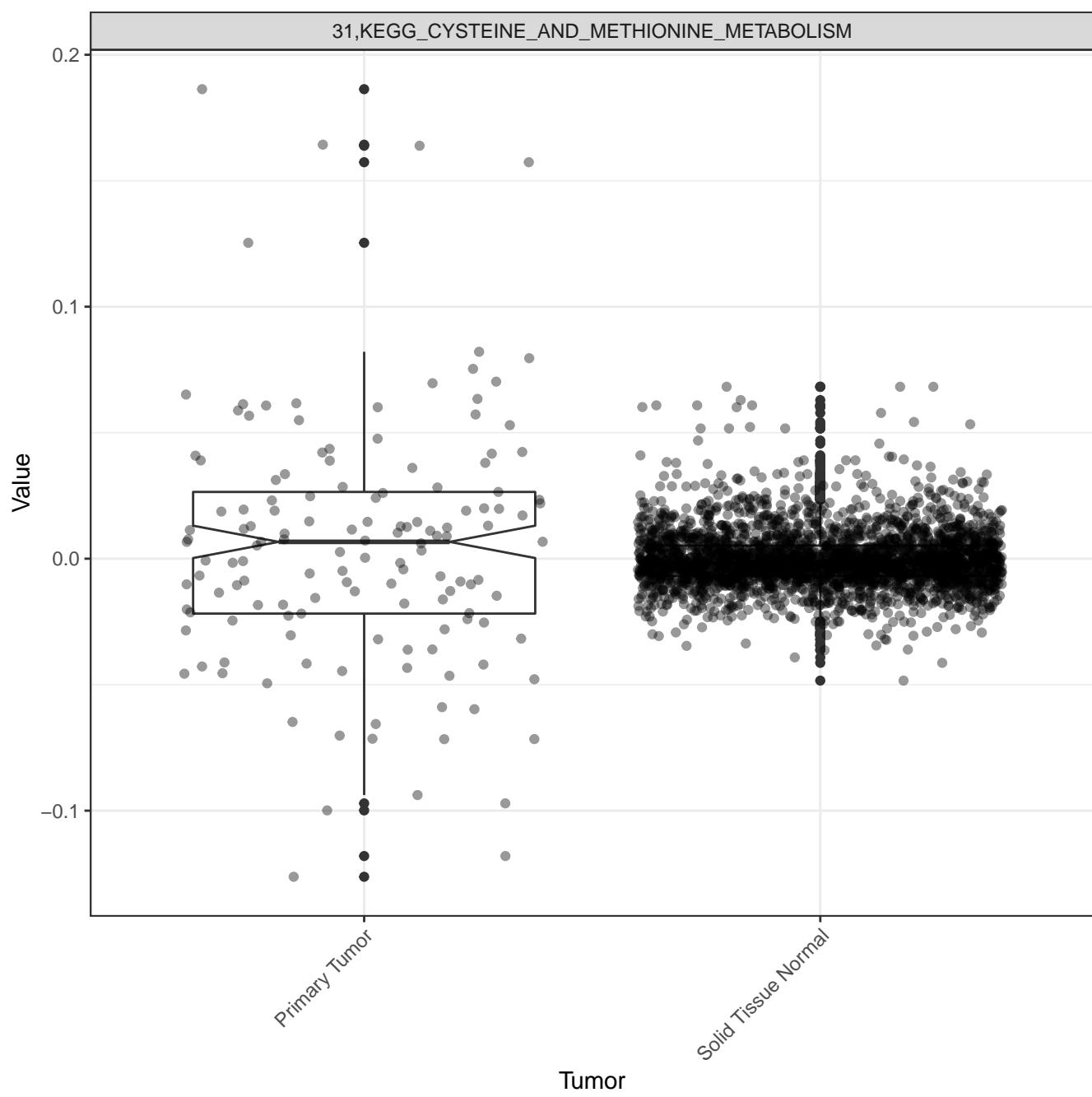
Primary Tumor

Solid Tissue Normal

Tumor



### 31,KEGG\_CYSTEINE\_AND\_METHIONINE\_METABOLISM



### 32,PID\_ANGIOPOIETINRECEPTOR\_PATHWAY

Value

1.0

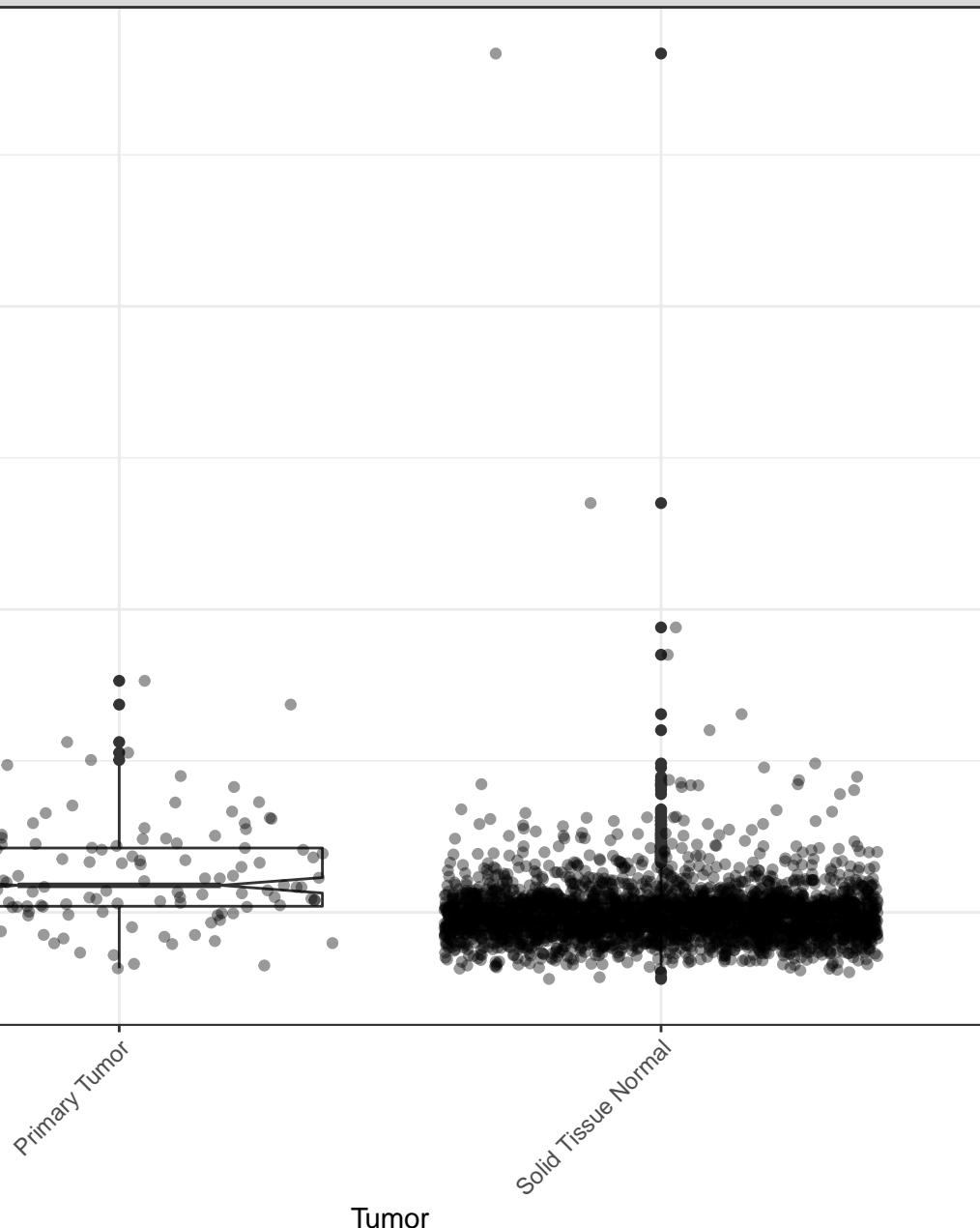
0.5

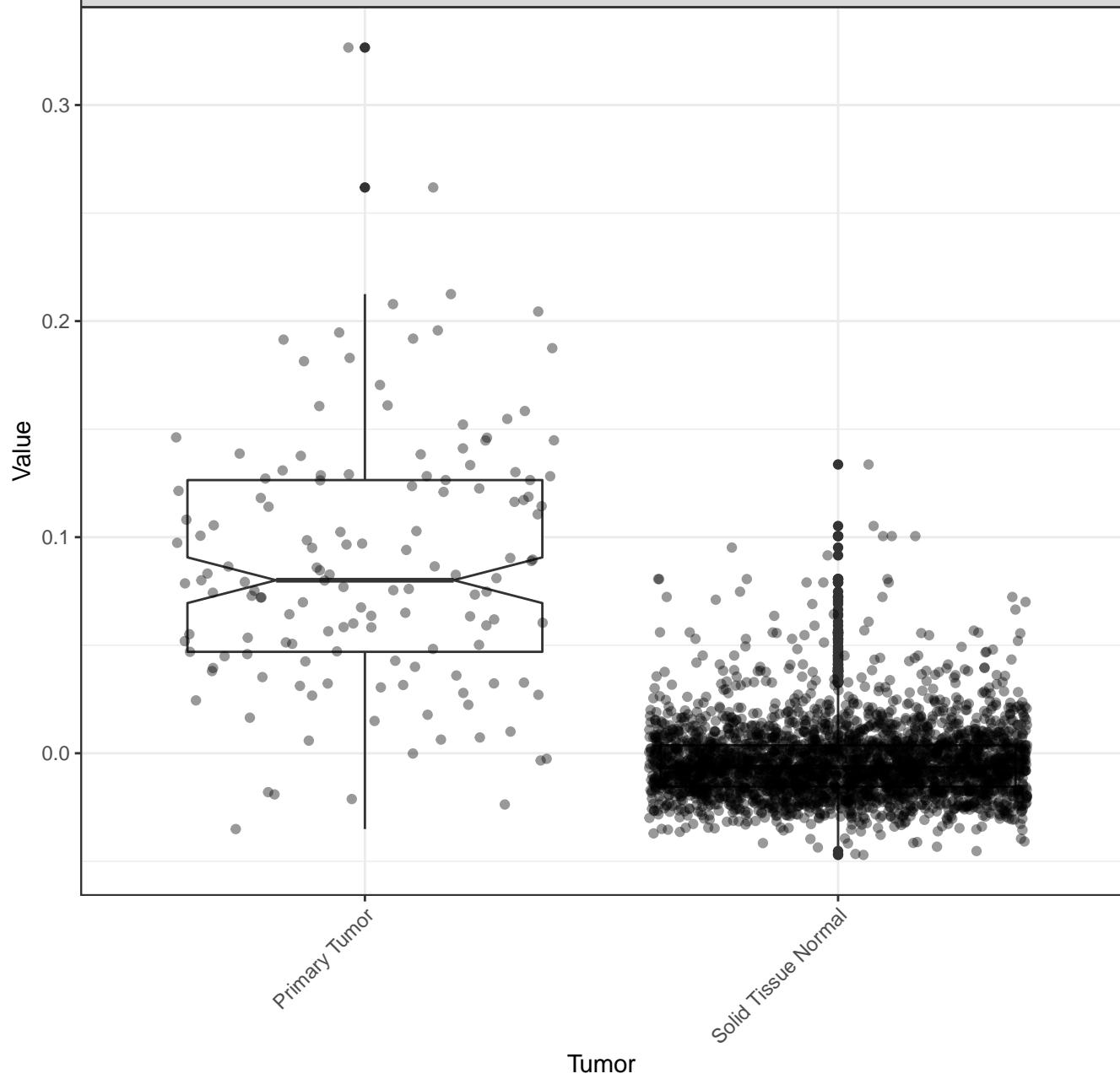
0.0

Primary Tumor

Solid Tissue Normal

Tumor





### 34,REACTOME\_3\_UTR\_MEDiated\_TRANSLATIONAL\_REGULATION

Value

0.20

0.15

0.10

0.05

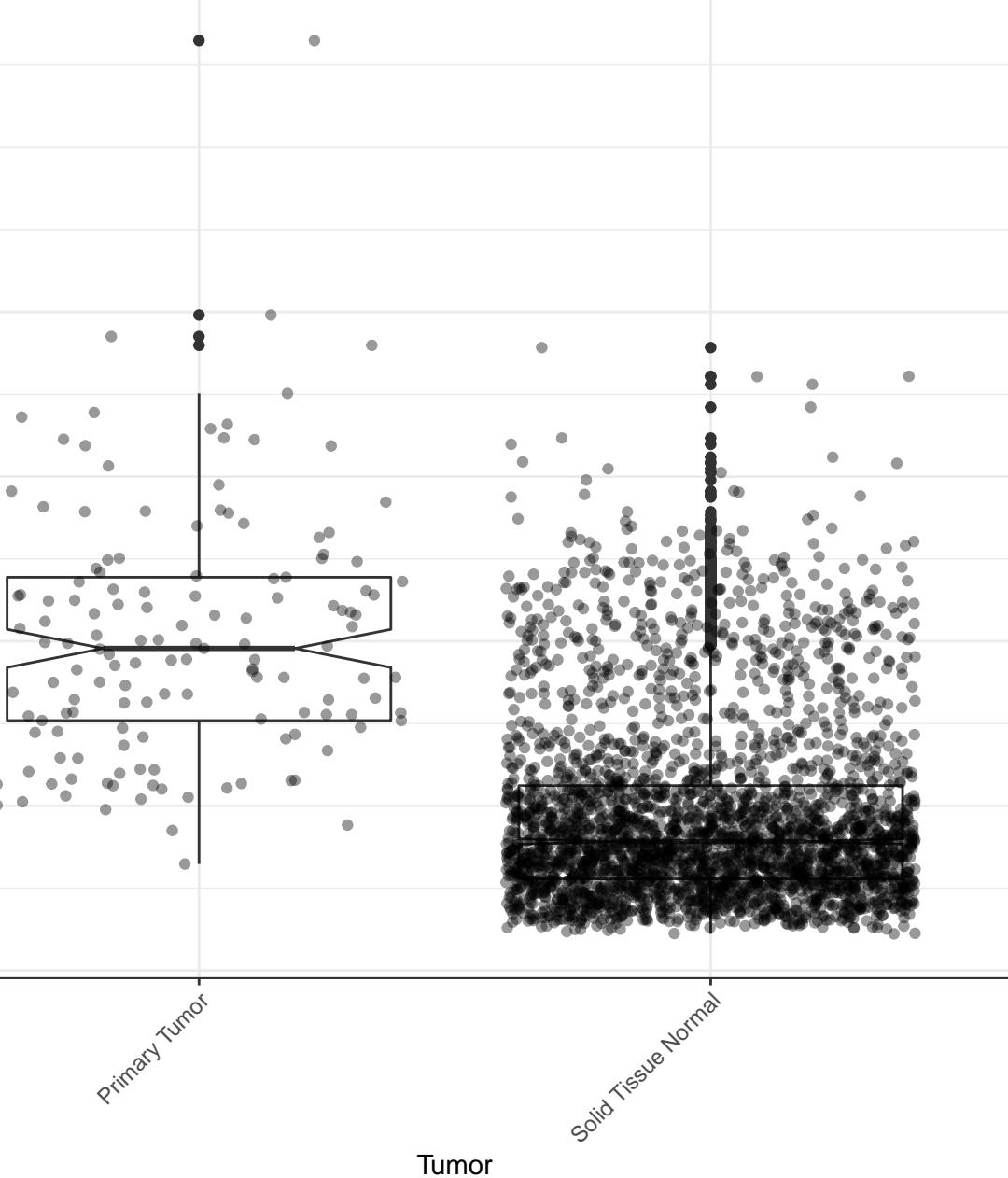
0.00

-0.05

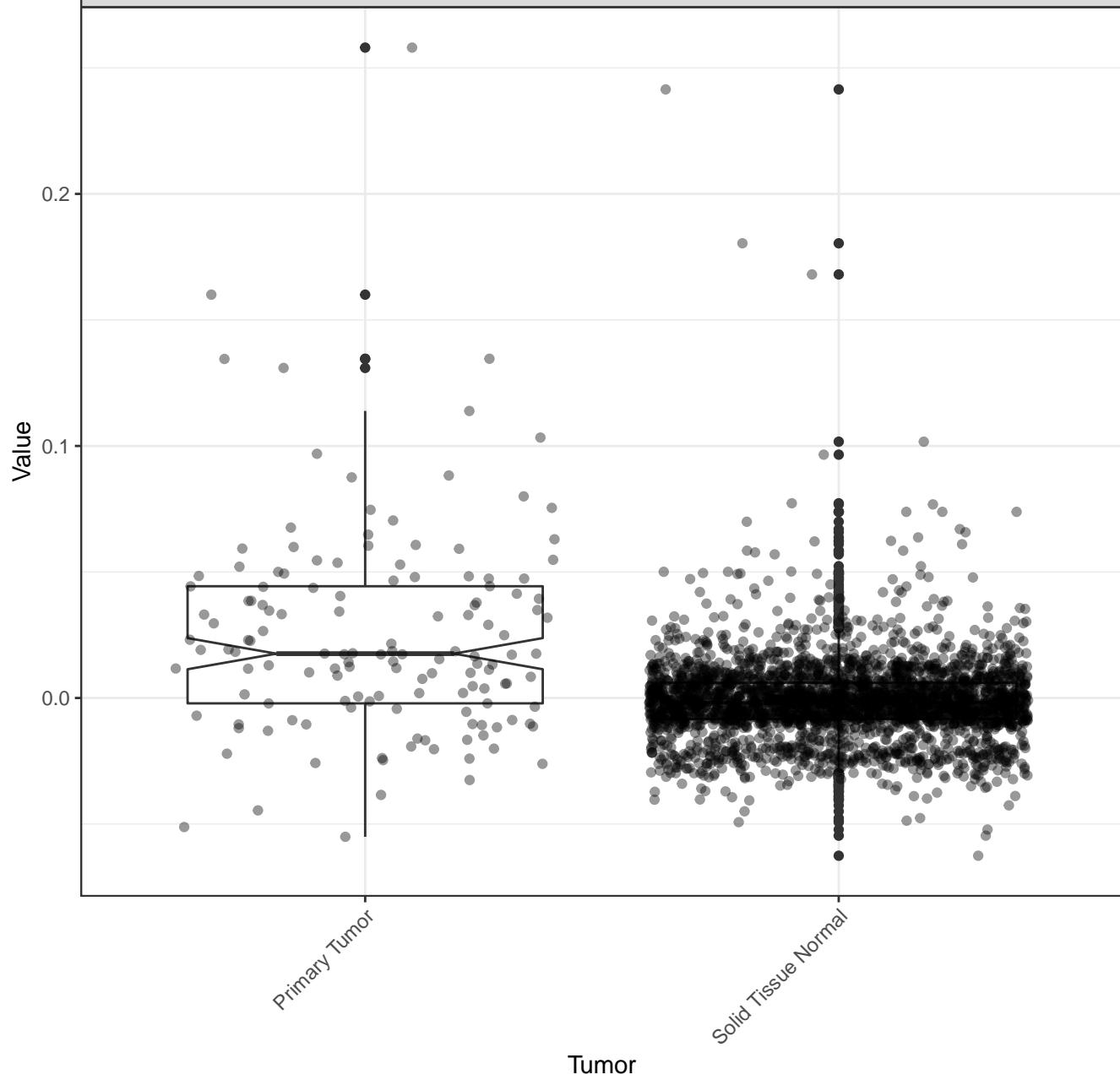
Primary Tumor

Tumor

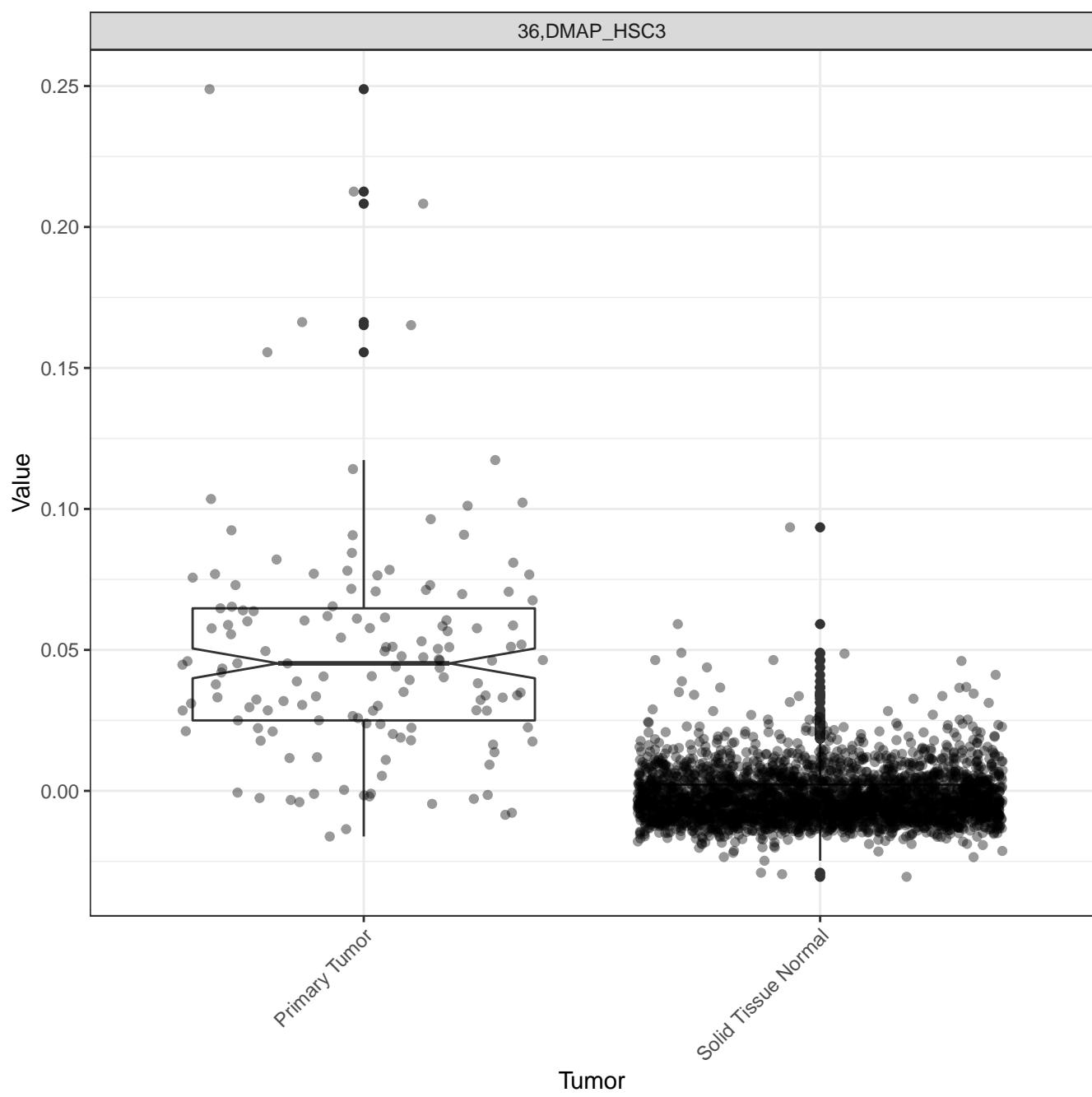
Solid Tissue Normal



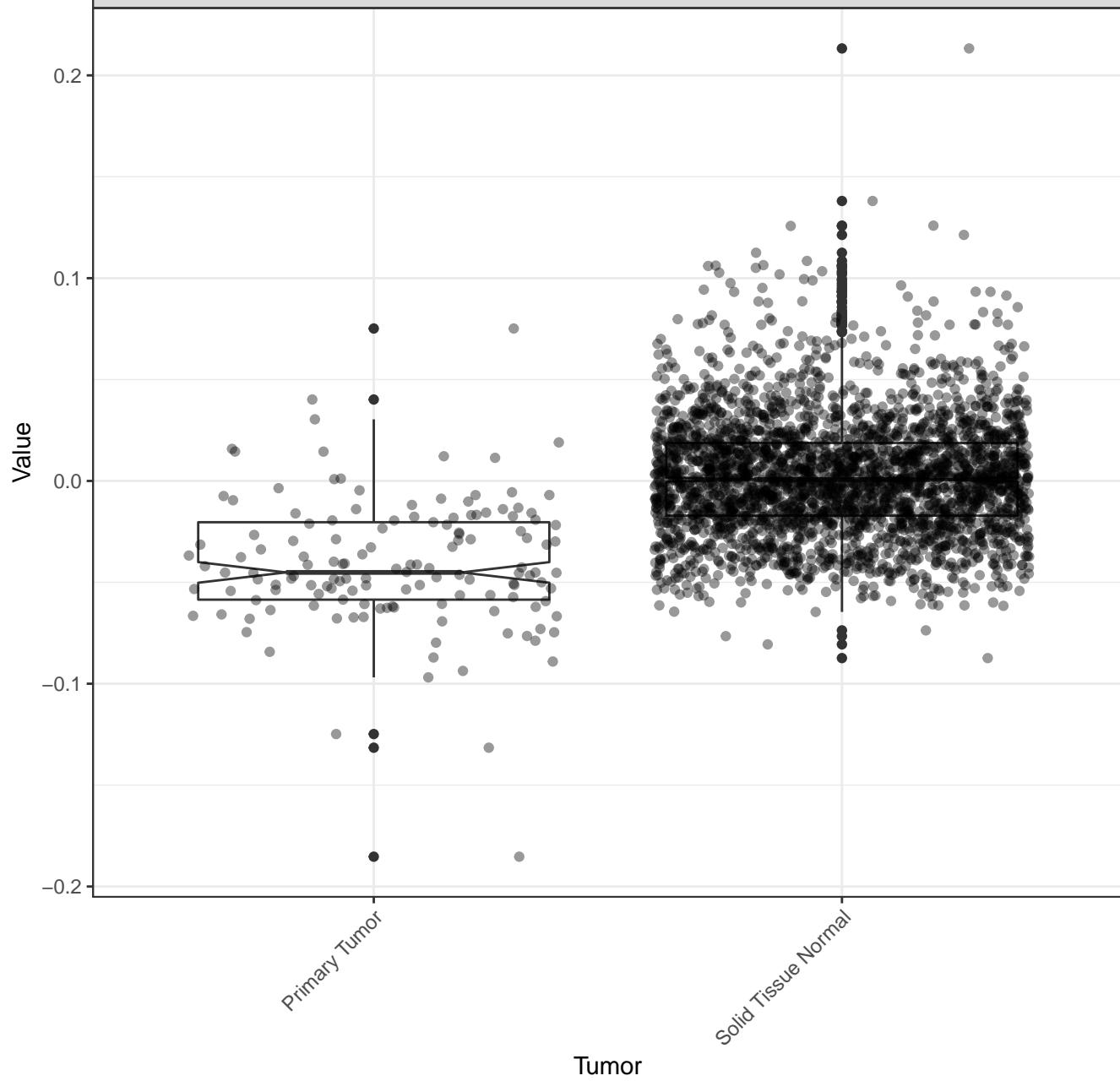
35,DMAP\_MEGA2



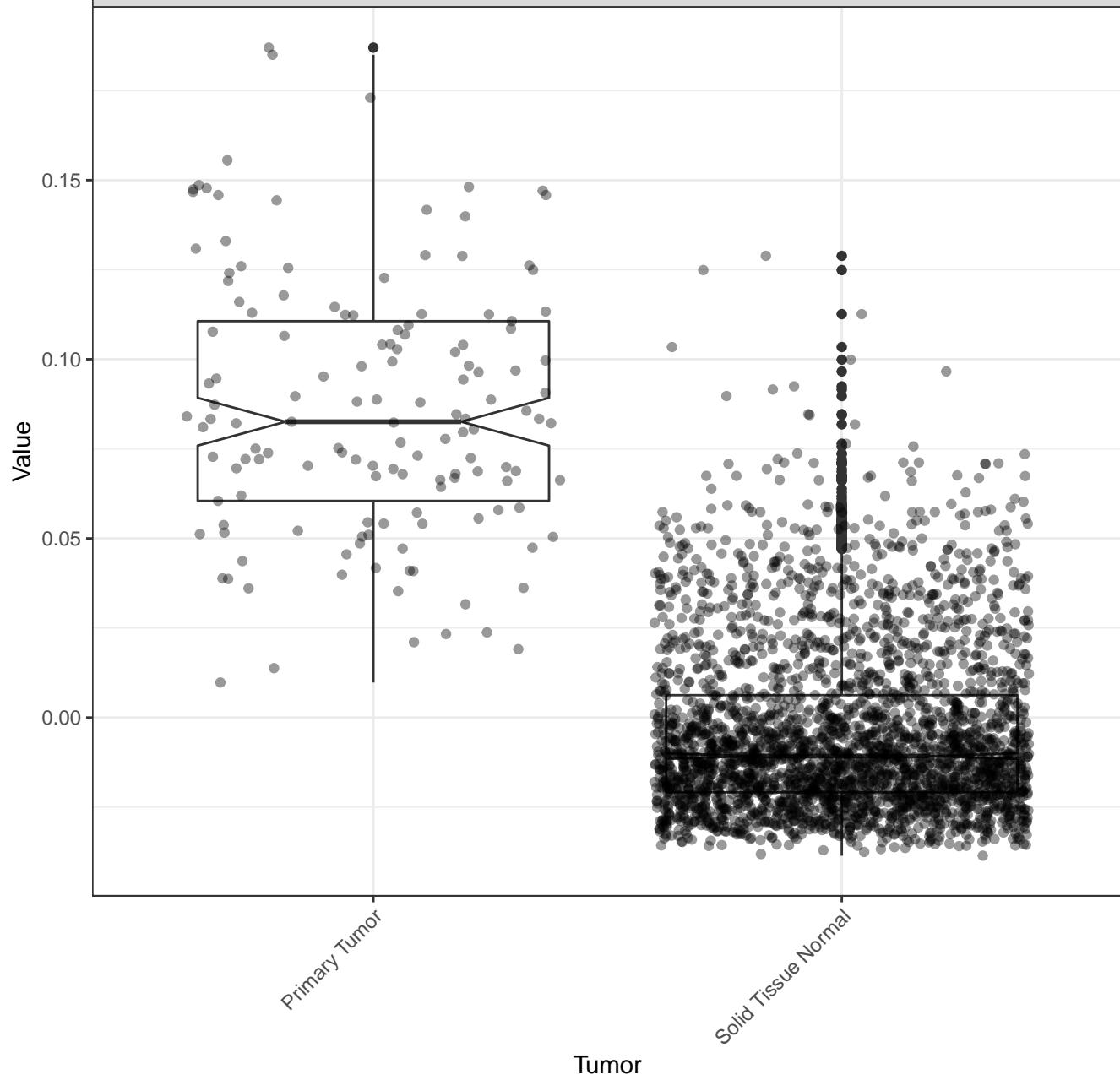
## 36,DMAP\_HSC3



### 37,KEGG\_PPAR\_SIGNALING\_PATHWAY



### 38,KEGG\_SNARE\_INTERACTIONS\_IN\_VESICULAR\_TRANSPORT



## 39,KEGG\_CELL\_ADHESION\_MOLECULES\_CAMS

Value

0.5

0.4

0.3

0.2

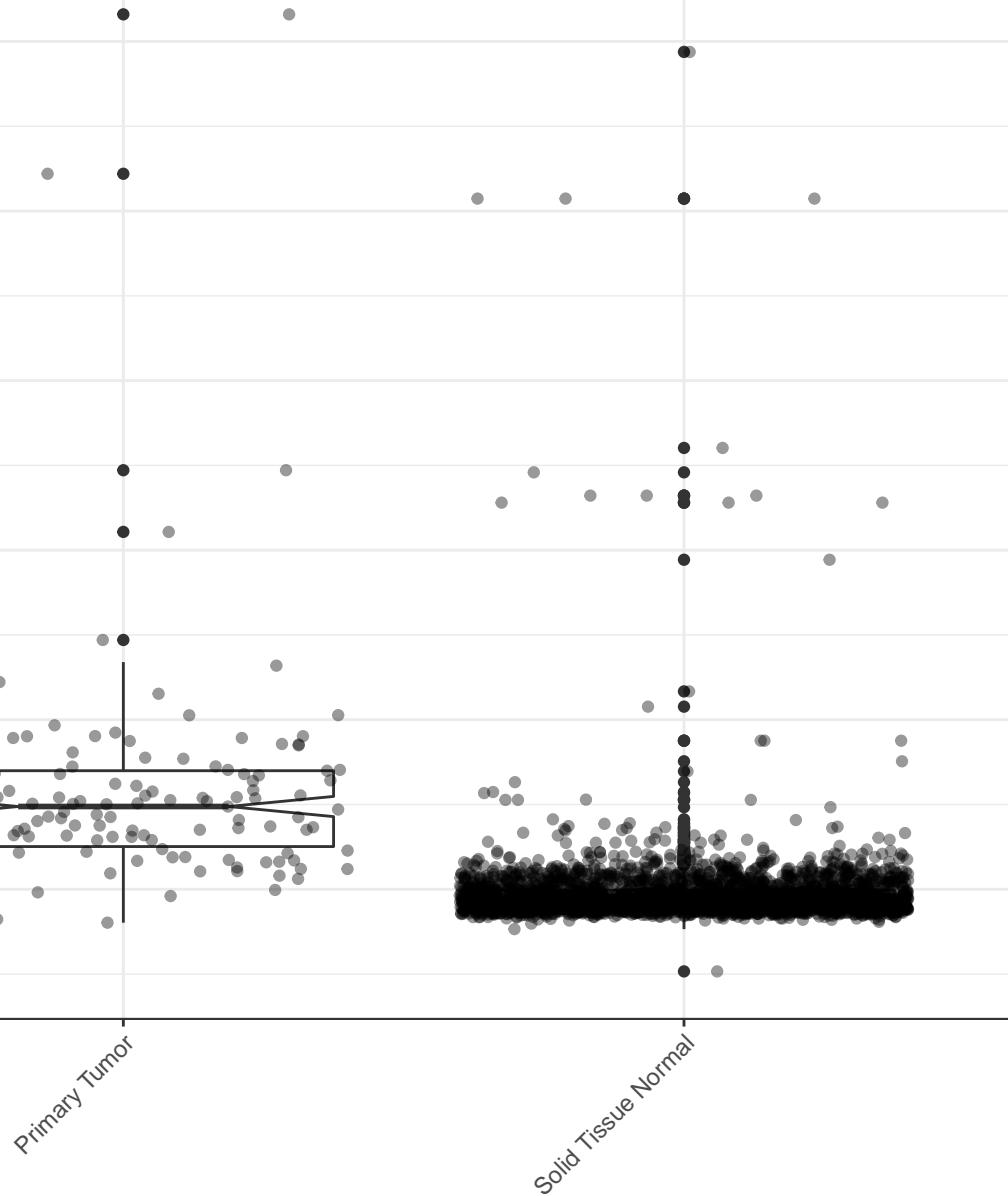
0.1

0.0

Primary Tumor

Solid Tissue Normal

Tumor



40,KEGG\_DILATED\_CARDIOMYOPATHY

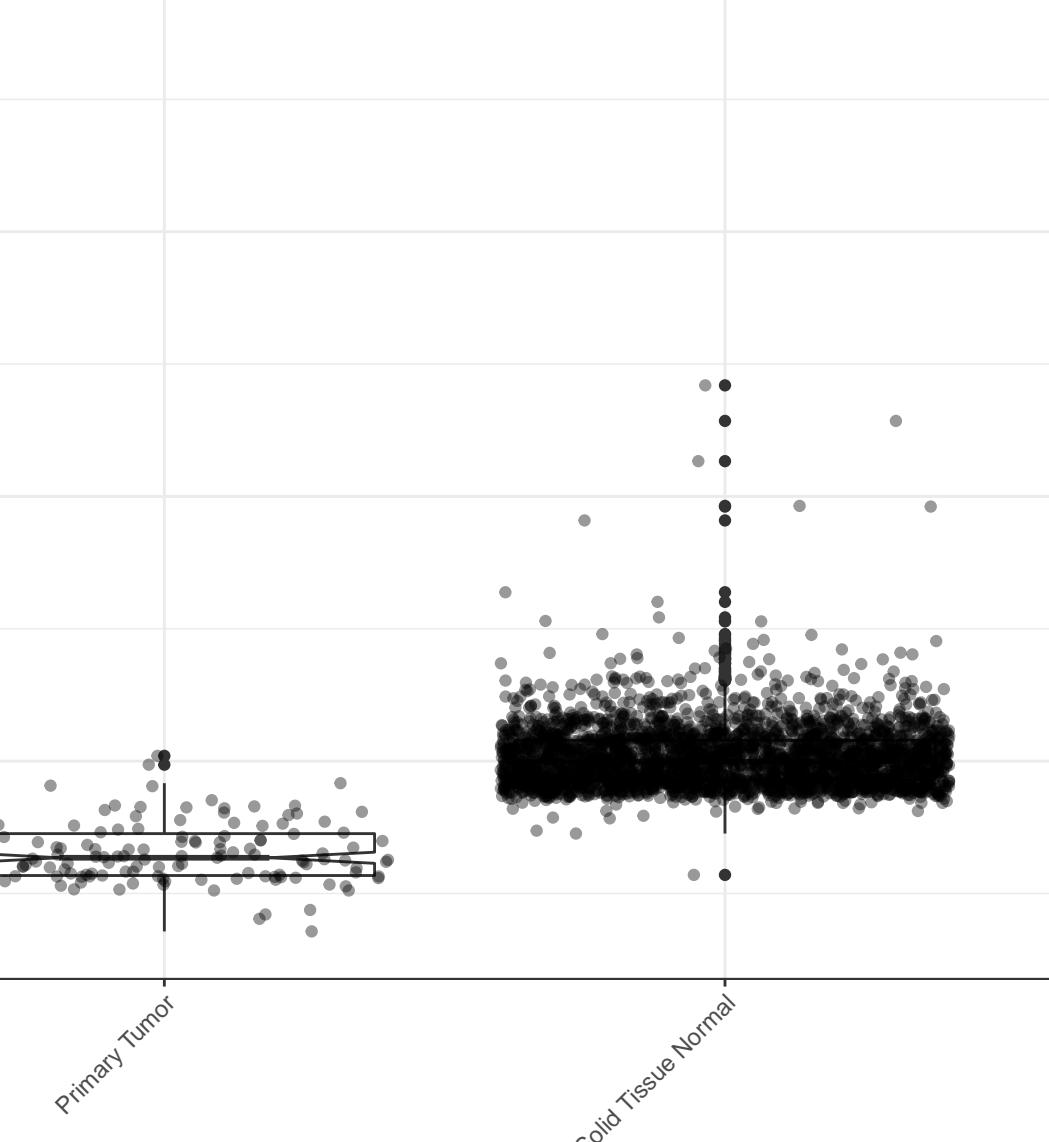
Value

0.6  
0.4  
0.2  
0.0

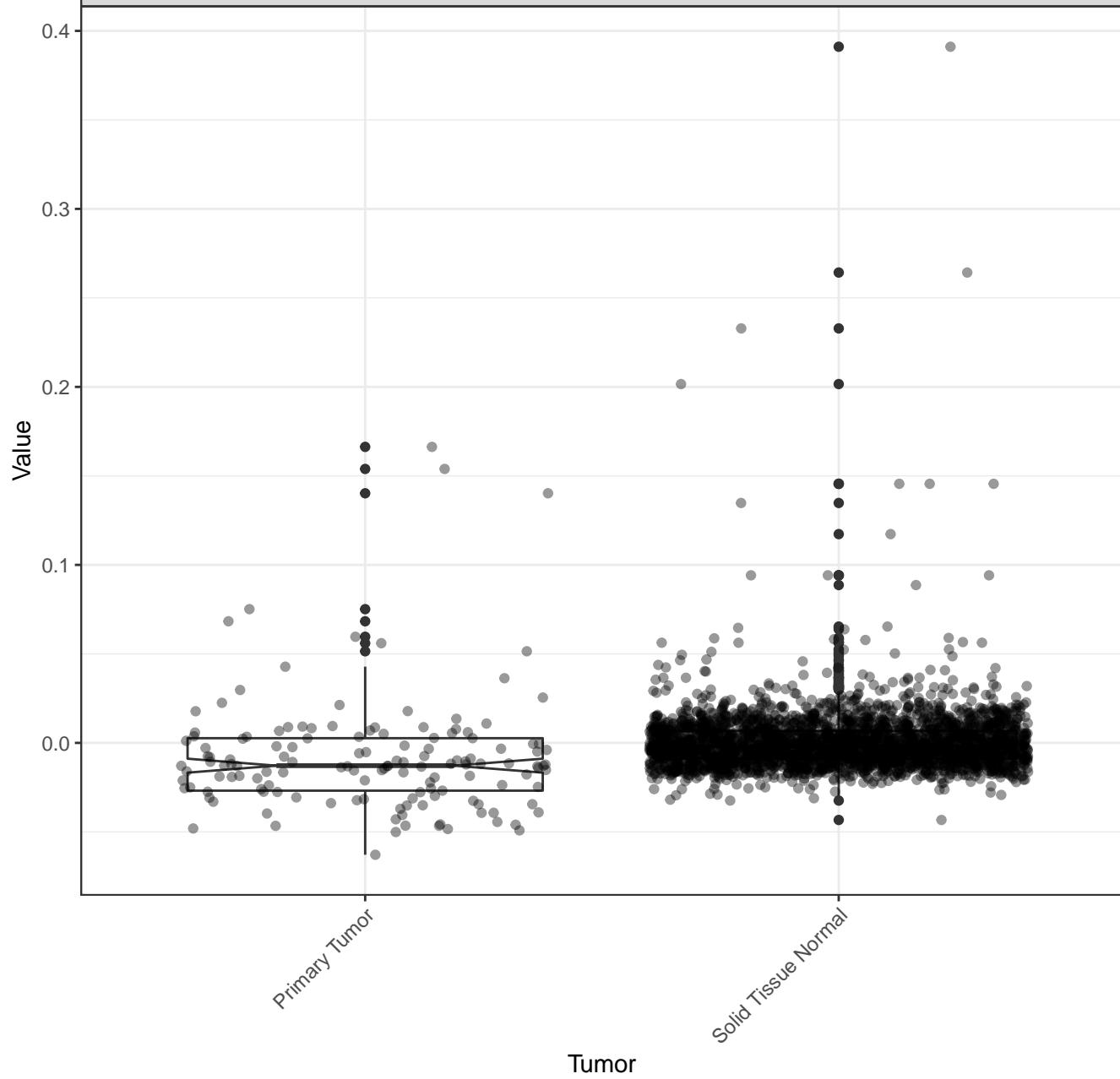
Primary Tumor

Solid Tissue Normal

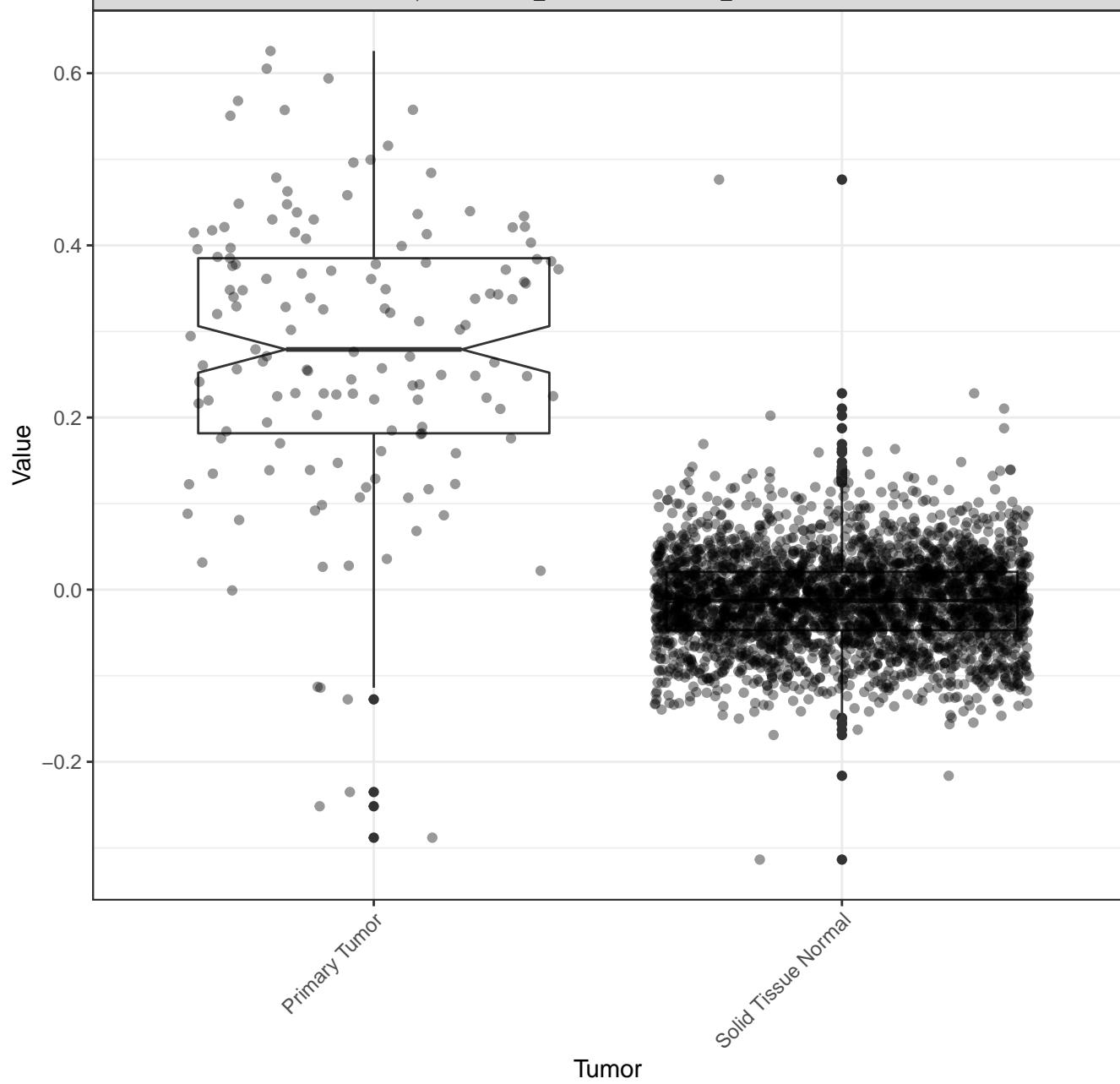
Tumor



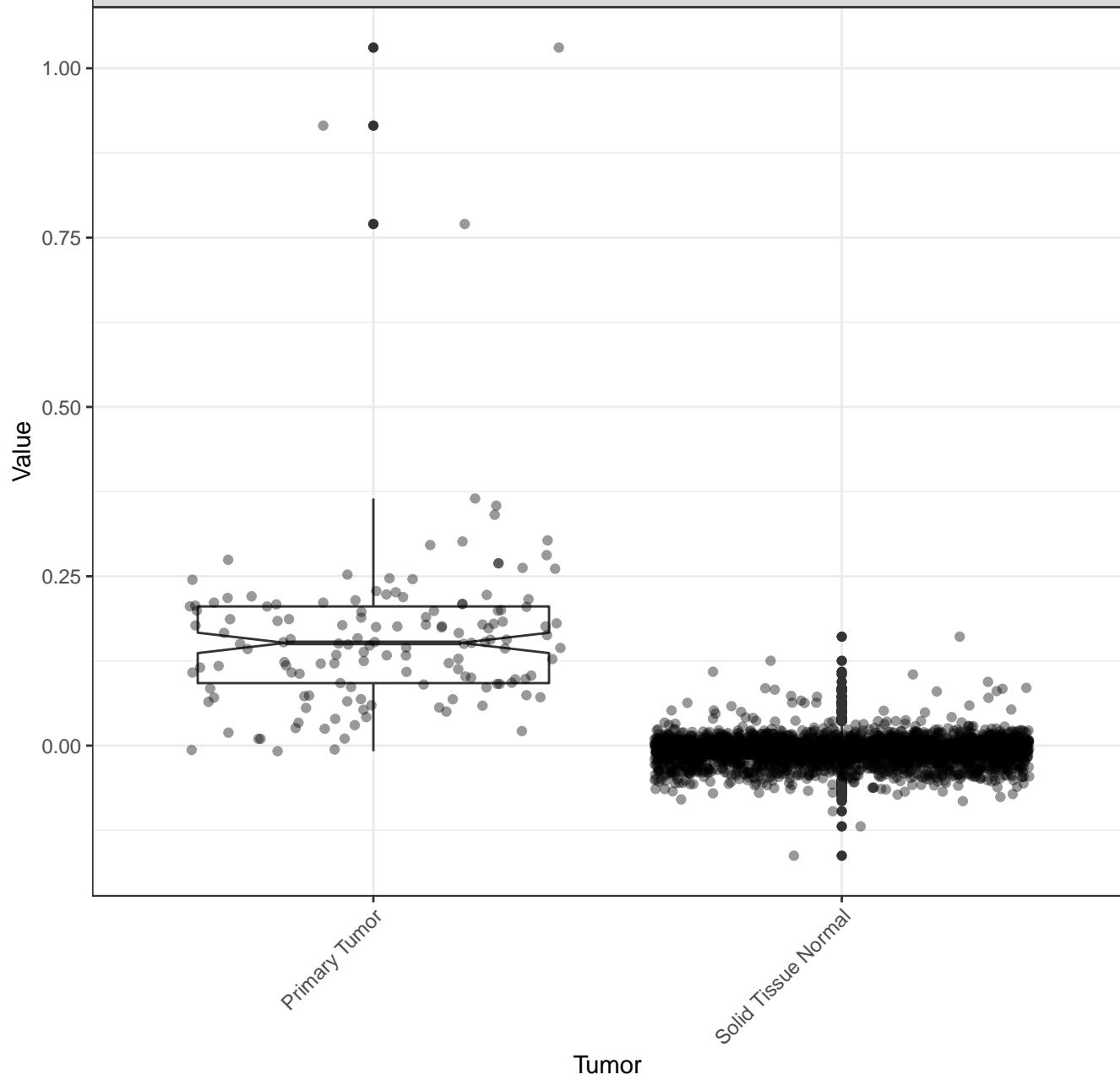
# 41,REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES



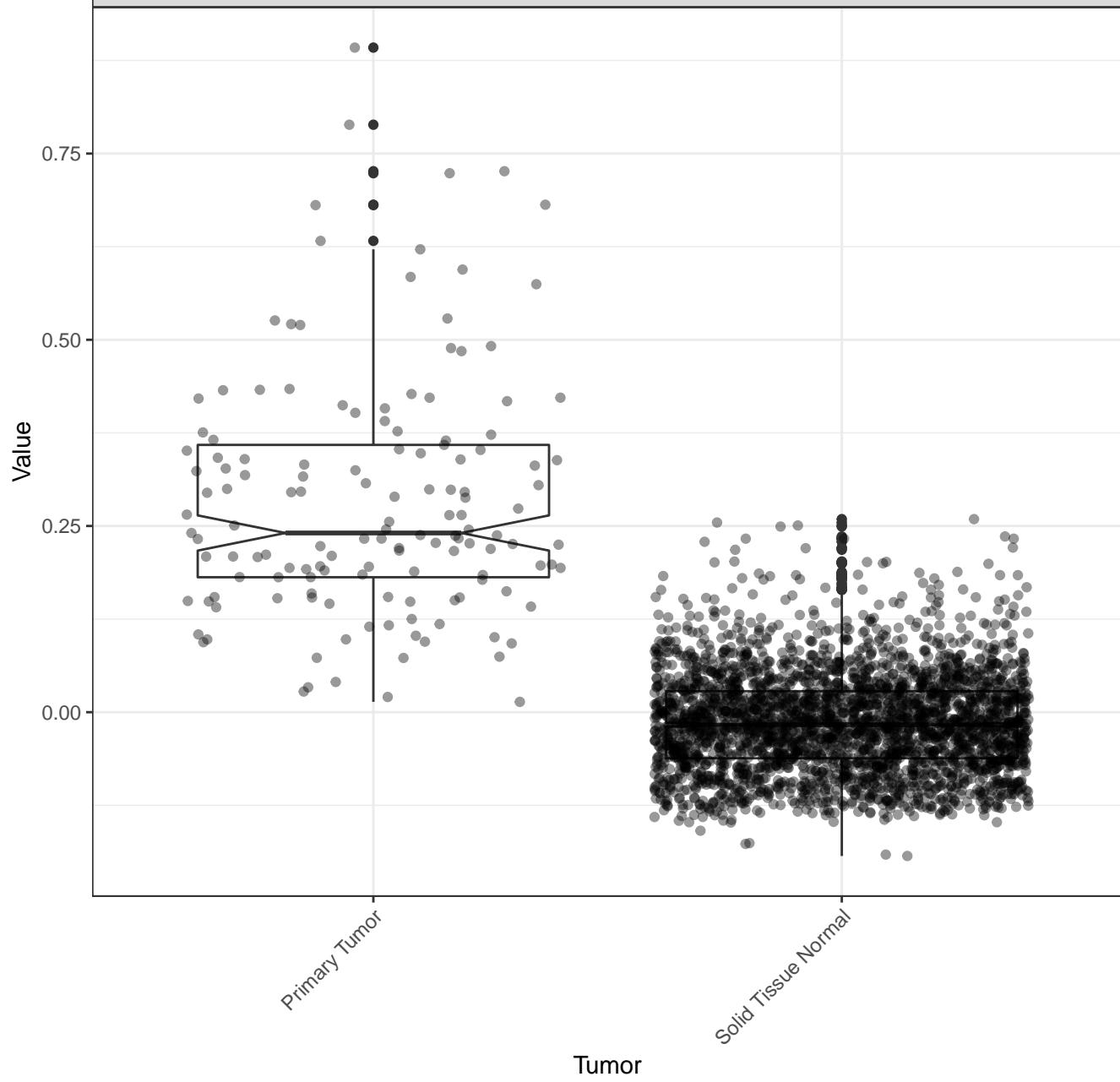
## 42,REACTOME DEVELOPMENTAL BIOLOGY



### 43,KEGG\_BASAL\_CELL\_CARCINOMA



## 44,MIPS\_55S\_RIBOSOME\_MITOCHONDRIAL



## 45,PID\_MYC\_REPRESSPATHWAY

Value

0.2

0.1

0.0

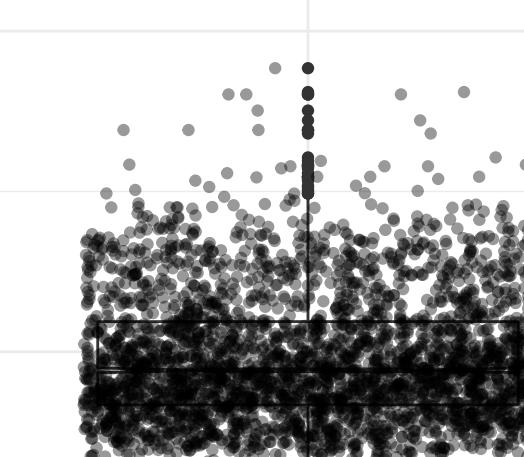
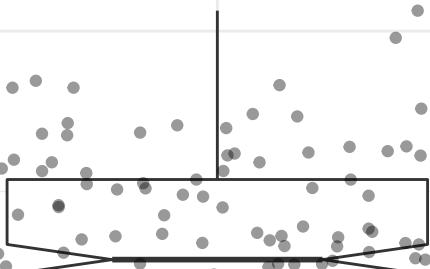
Primary Tumor

Solid Tissue Normal

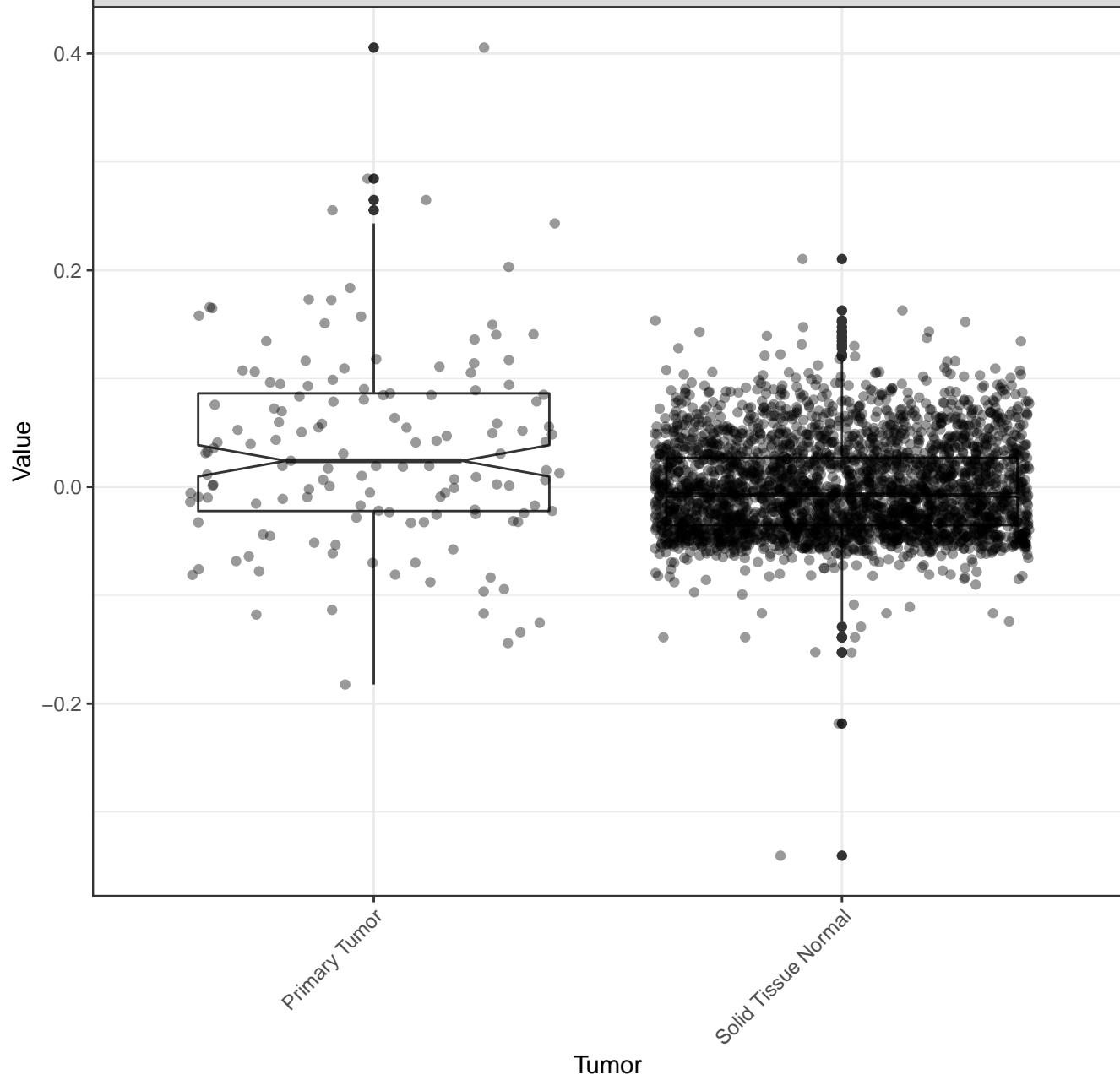
Tumor

.

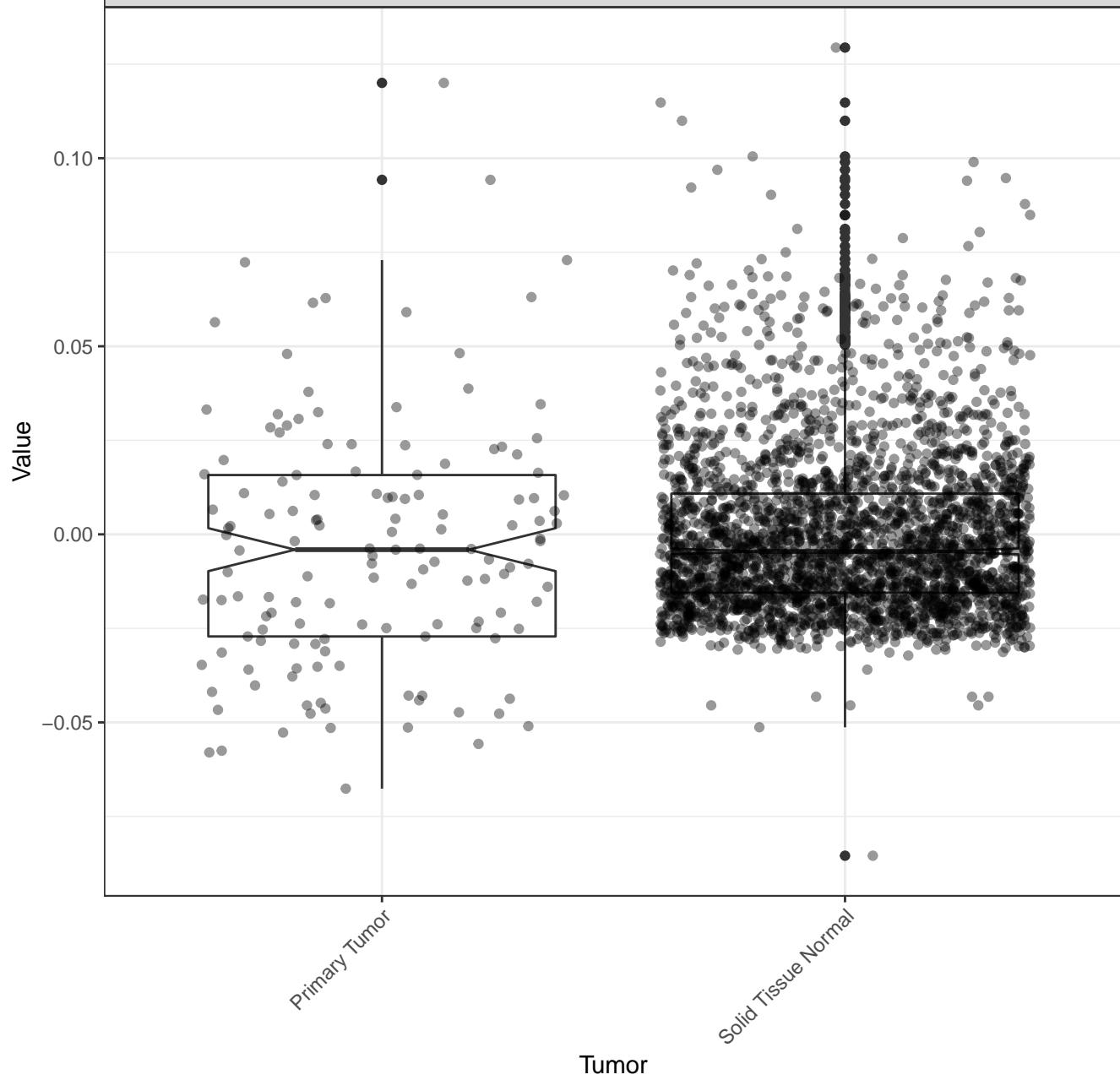
.



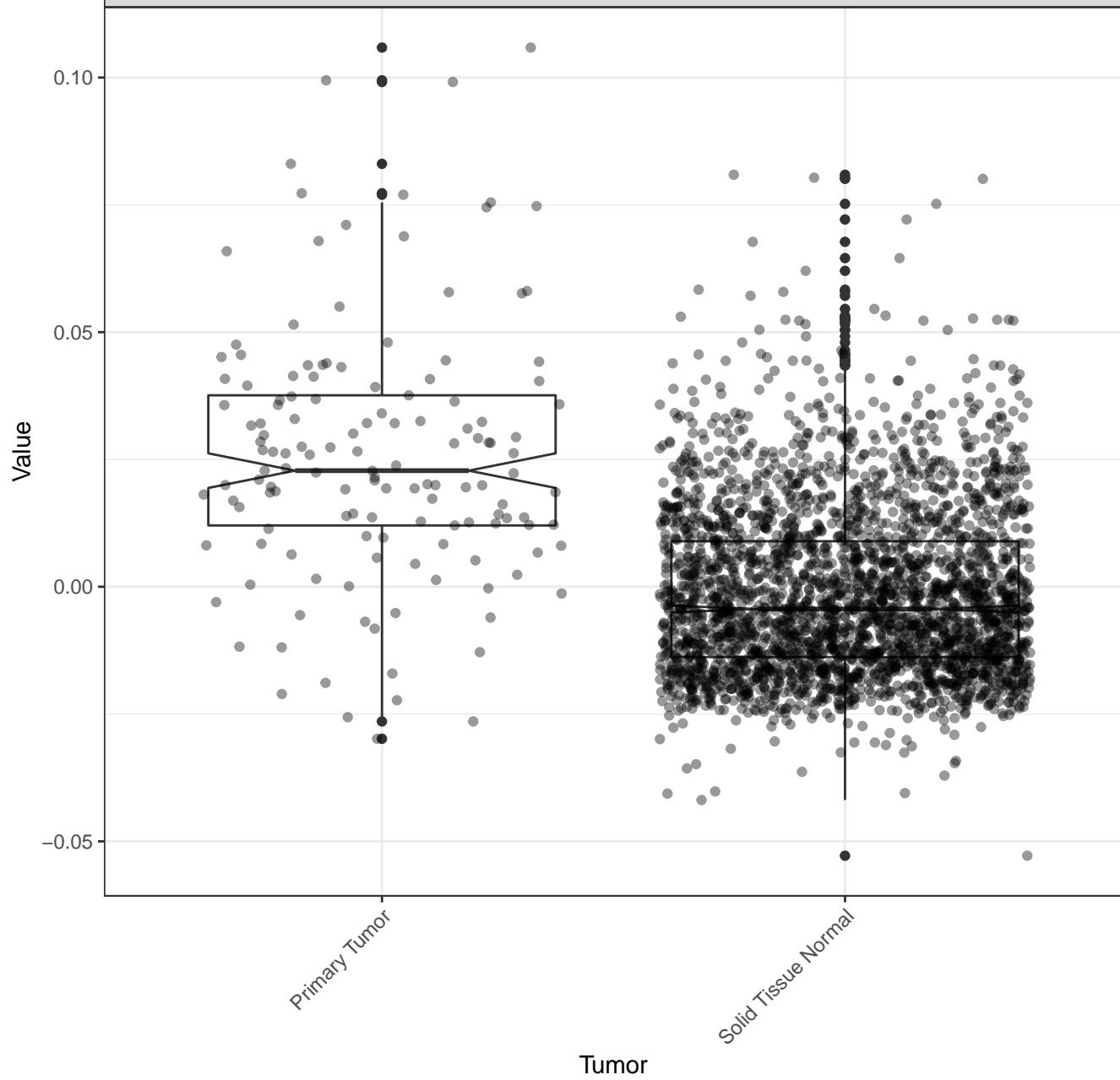
# 46,REACTOME\_AXON\_GUIDANCE



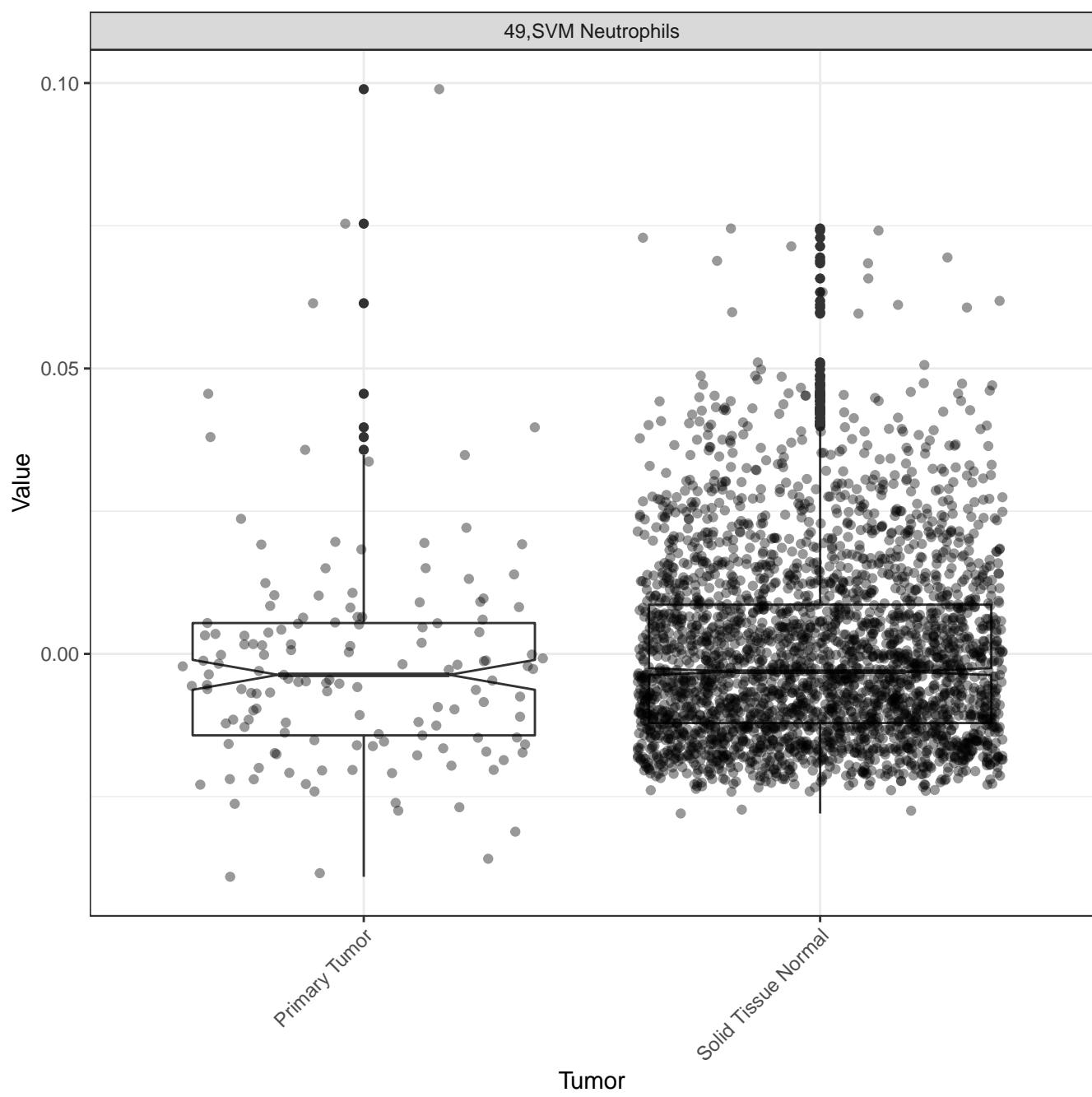
# 47,PID\_A6B1\_A6B4\_INTEGRIN\_PATHWAY



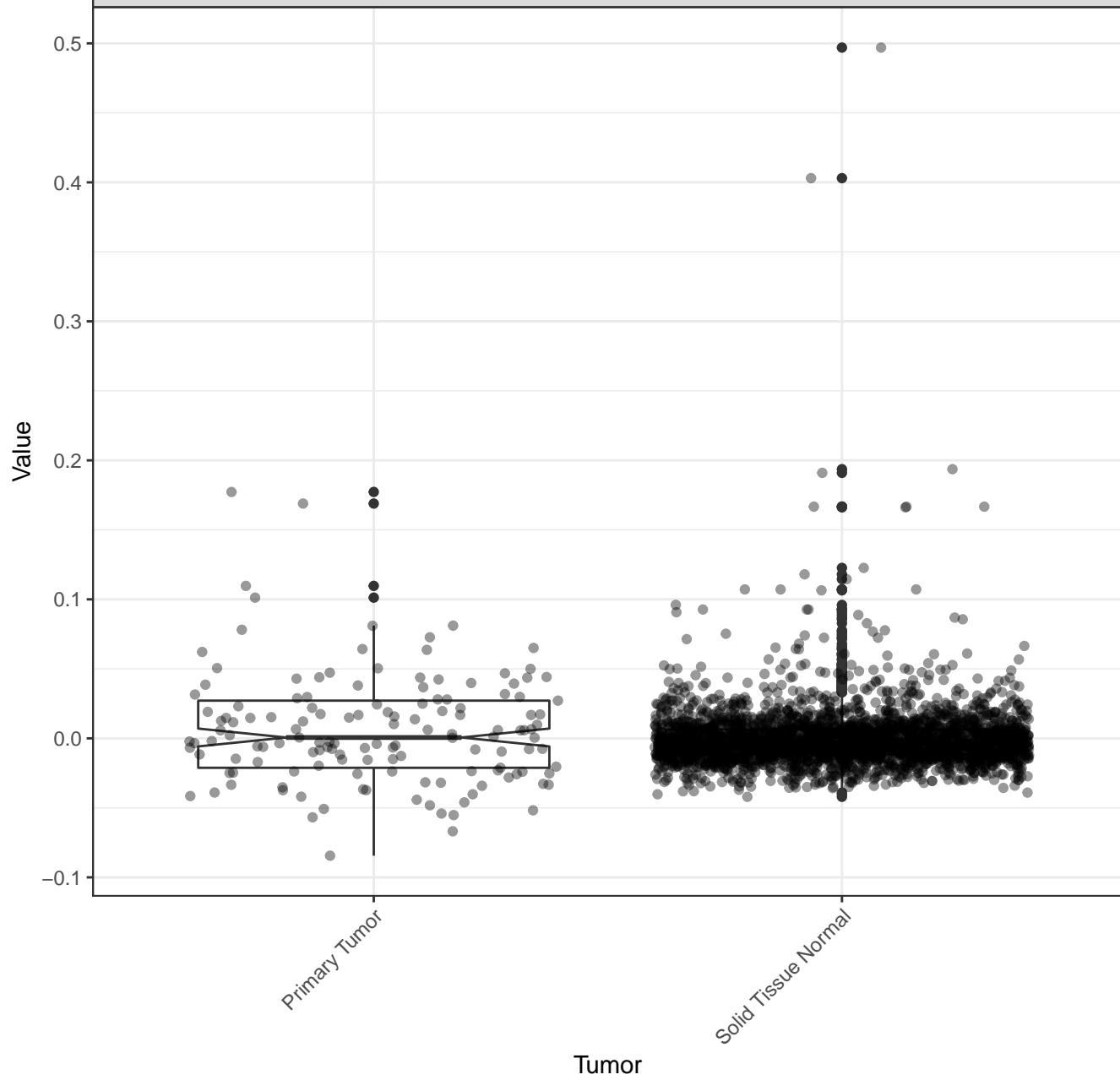
# 48,IRIS\_Neutrophil–Resting



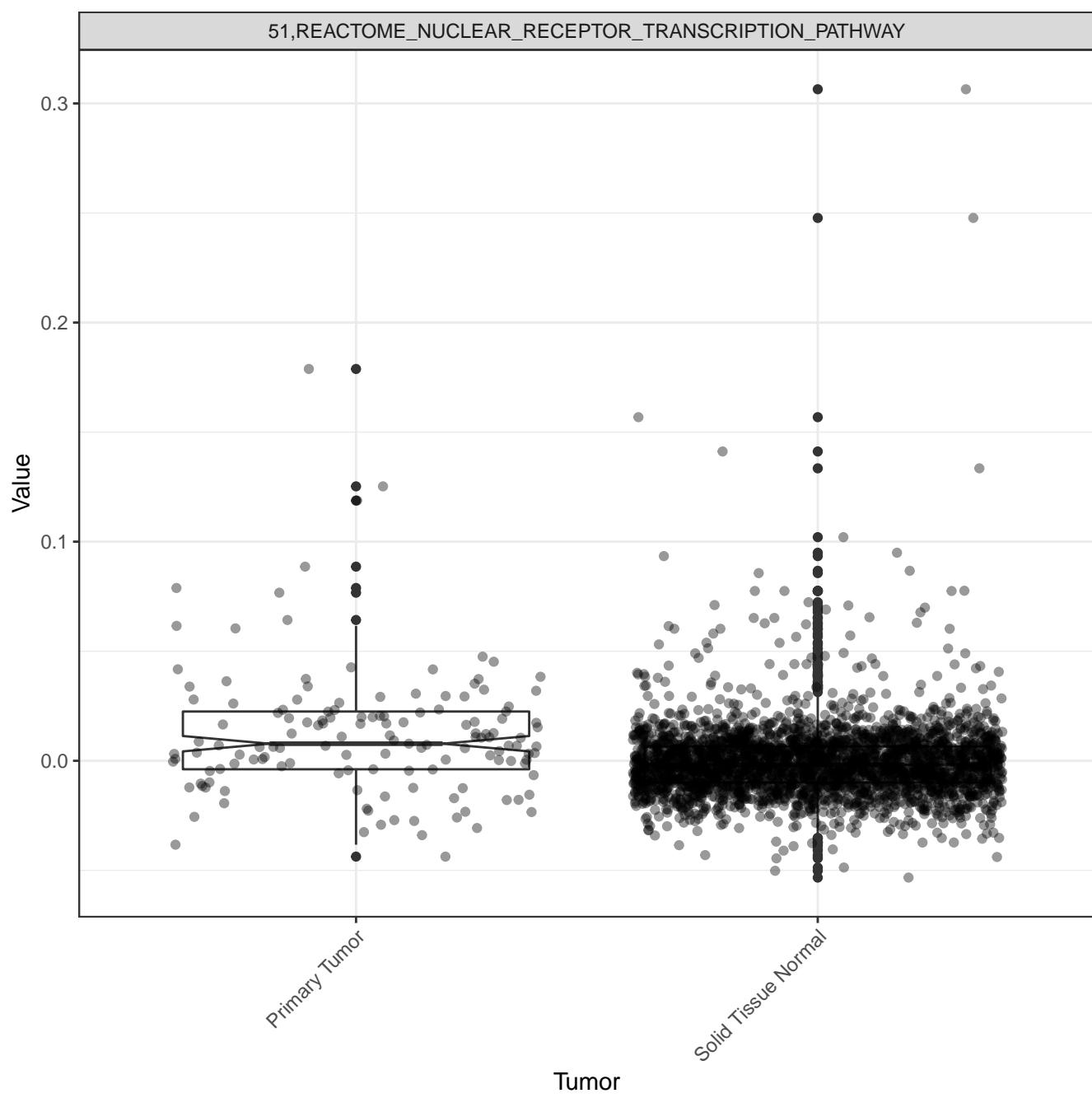
### 49,SVM Neutrophils



## 50,IRIS\_Bcell-Memory\_IgM



### 51.REACTOME\_NUCLEAR\_RECEPтор\_TRANSCRIPTION\_PATHWAY



## 52,REACTOME\_RIG\_I\_MDA5\_MEDIATED\_INDUCTION\_OF\_IFN\_ALPHA\_BETA\_PATHWAYS

Value

0.3

0.2

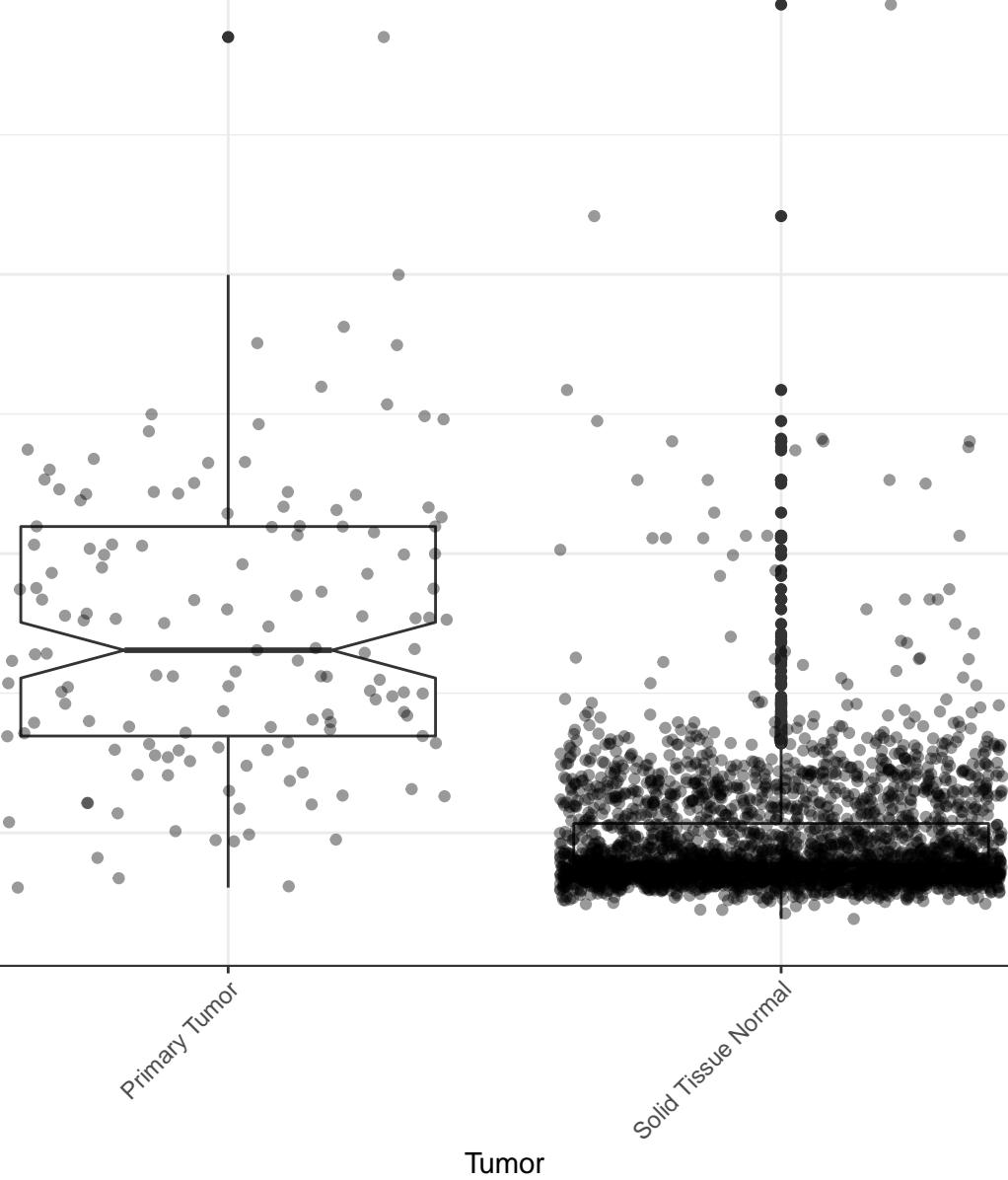
0.1

0.0

Primary Tumor

Solid Tissue Normal

Tumor



## 53,PID\_NFAT\_TFPATHWAY

Value

0.4

0.3

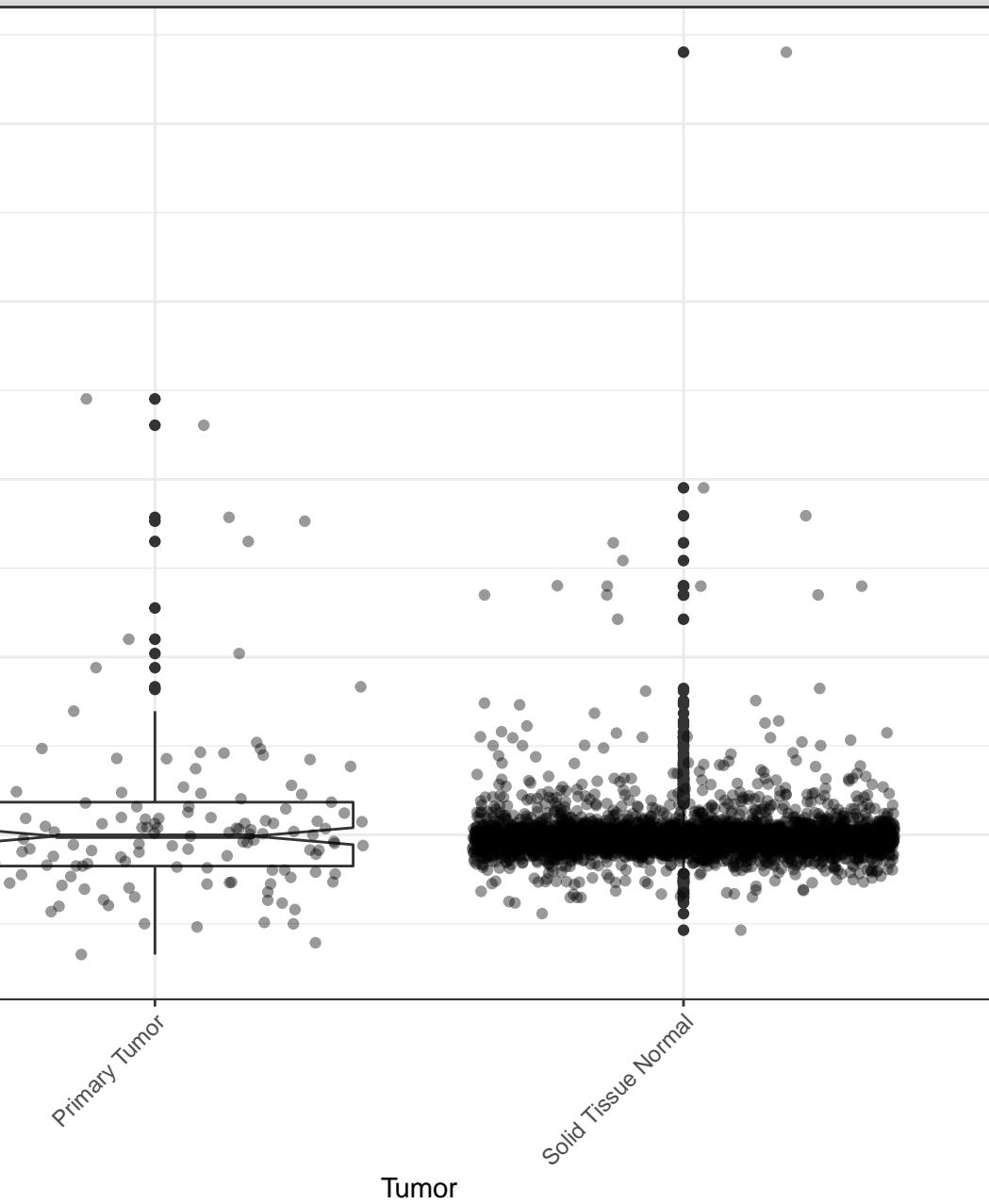
0.1

0.0

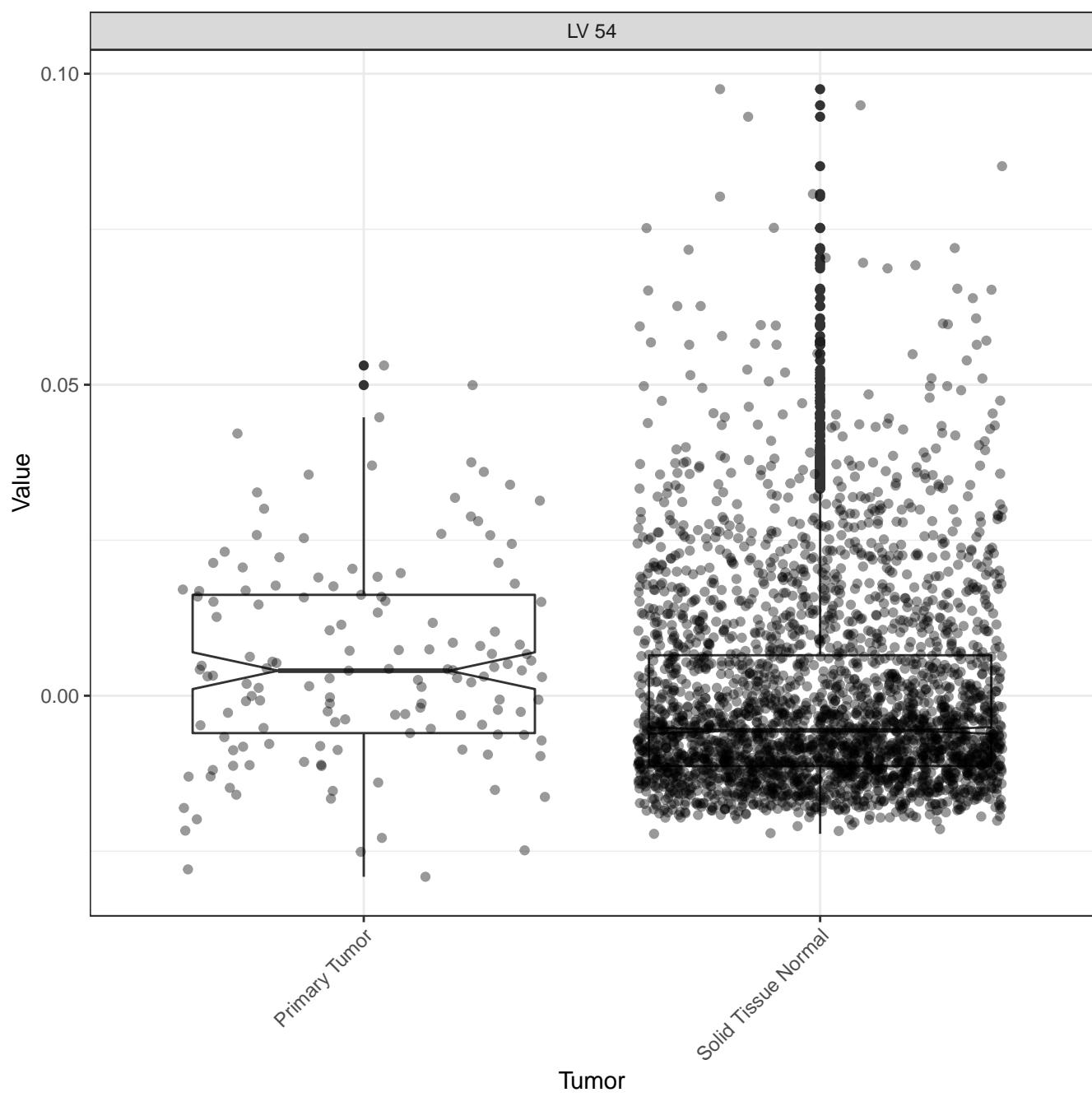
Primary Tumor

Solid Tissue Normal

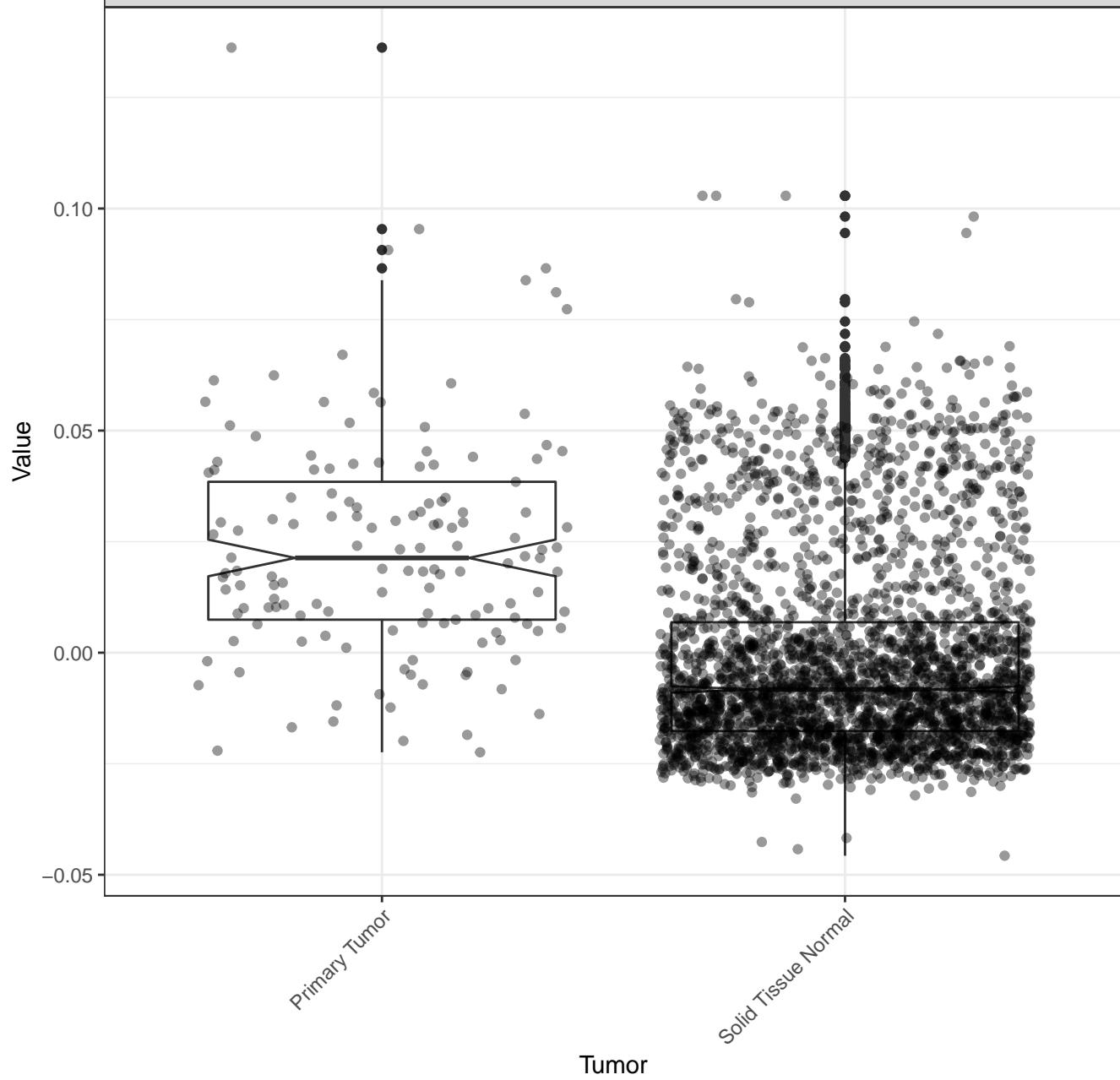
Tumor



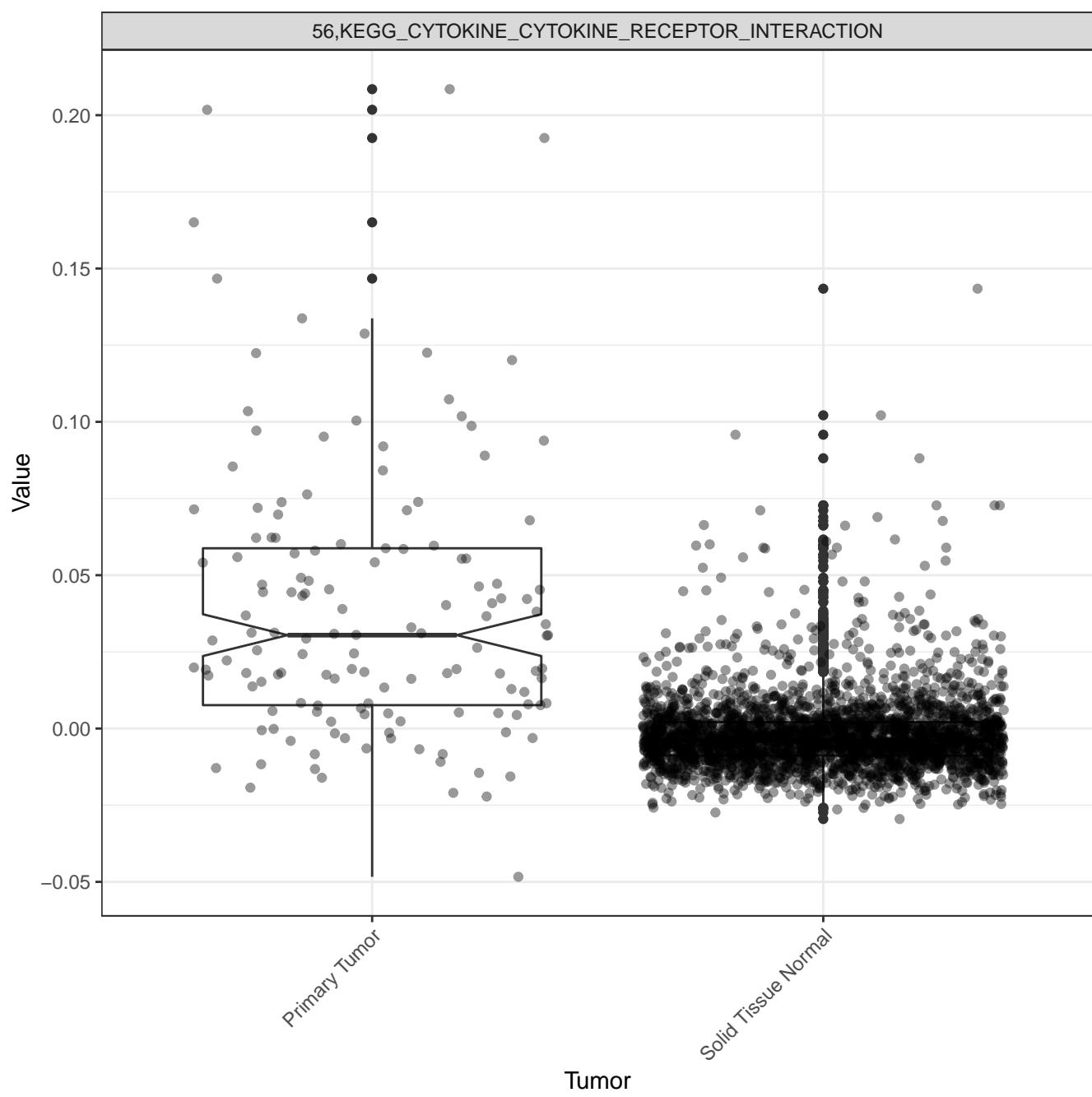
LV 54



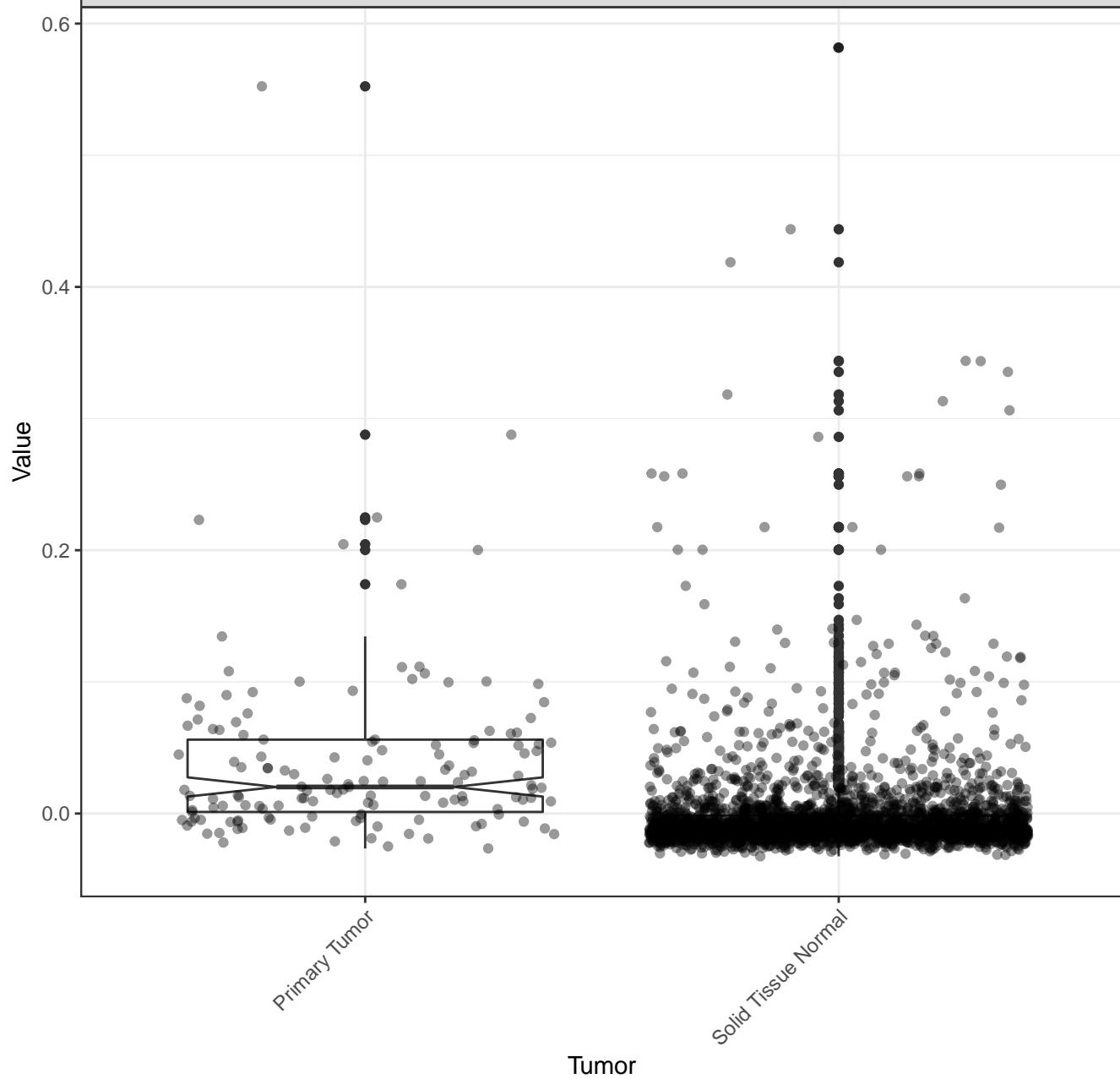
## 55,PID\_ERA\_GENOMIC\_PATHWAY



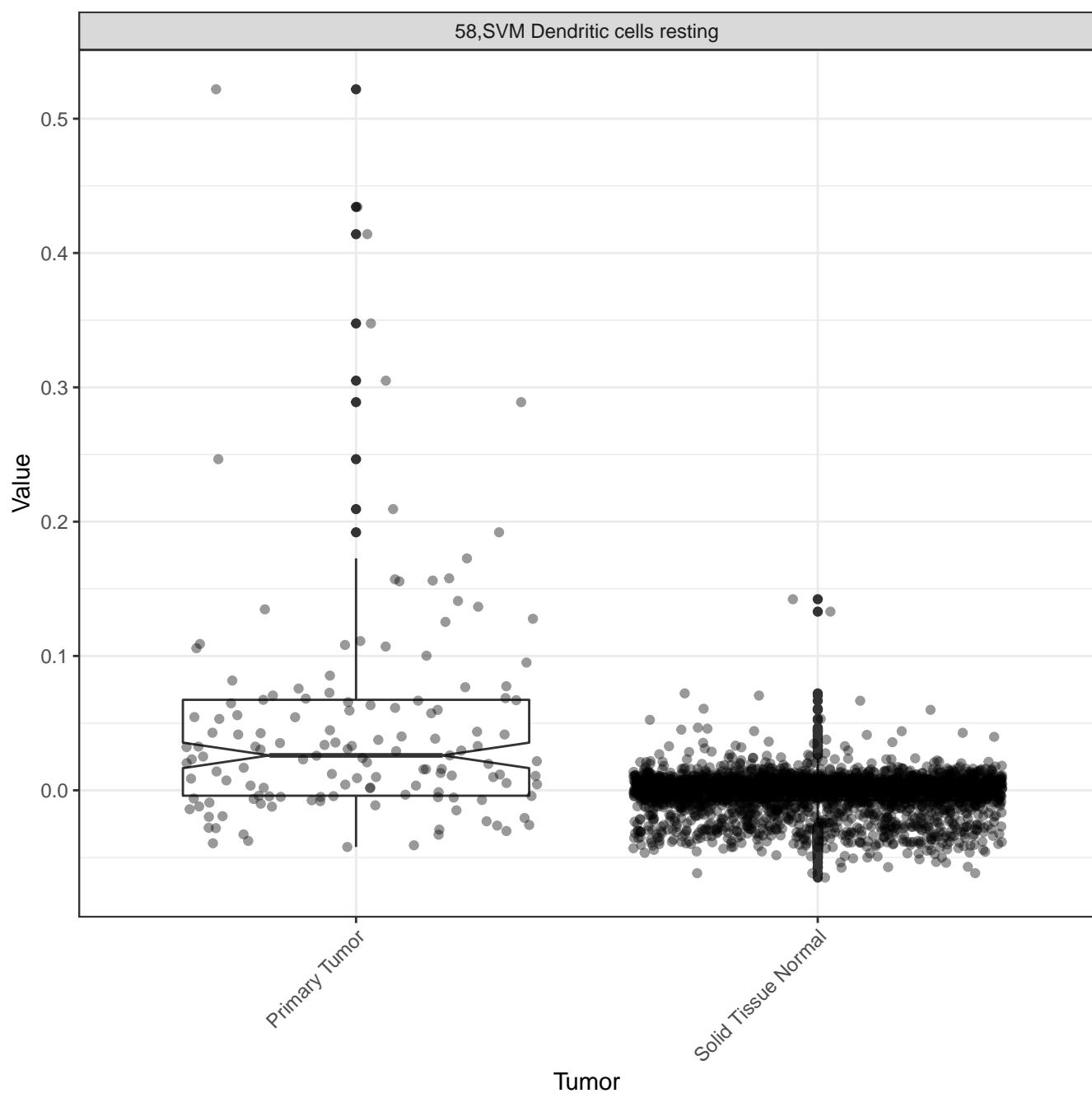
# 56,KEGG\_CYTOKINE\_CYTOKINE\_RECECTOR\_INTERACTION



# 57,KEGG\_SYSTEMIC\_LUPUS\_ERYTHEMATOSUS



58,SVM Dendritic cells resting



### 59,REACTOME\_LATE\_PHASE\_OF\_HIV\_LIFE\_CYCLE

Value

0.3

0.2

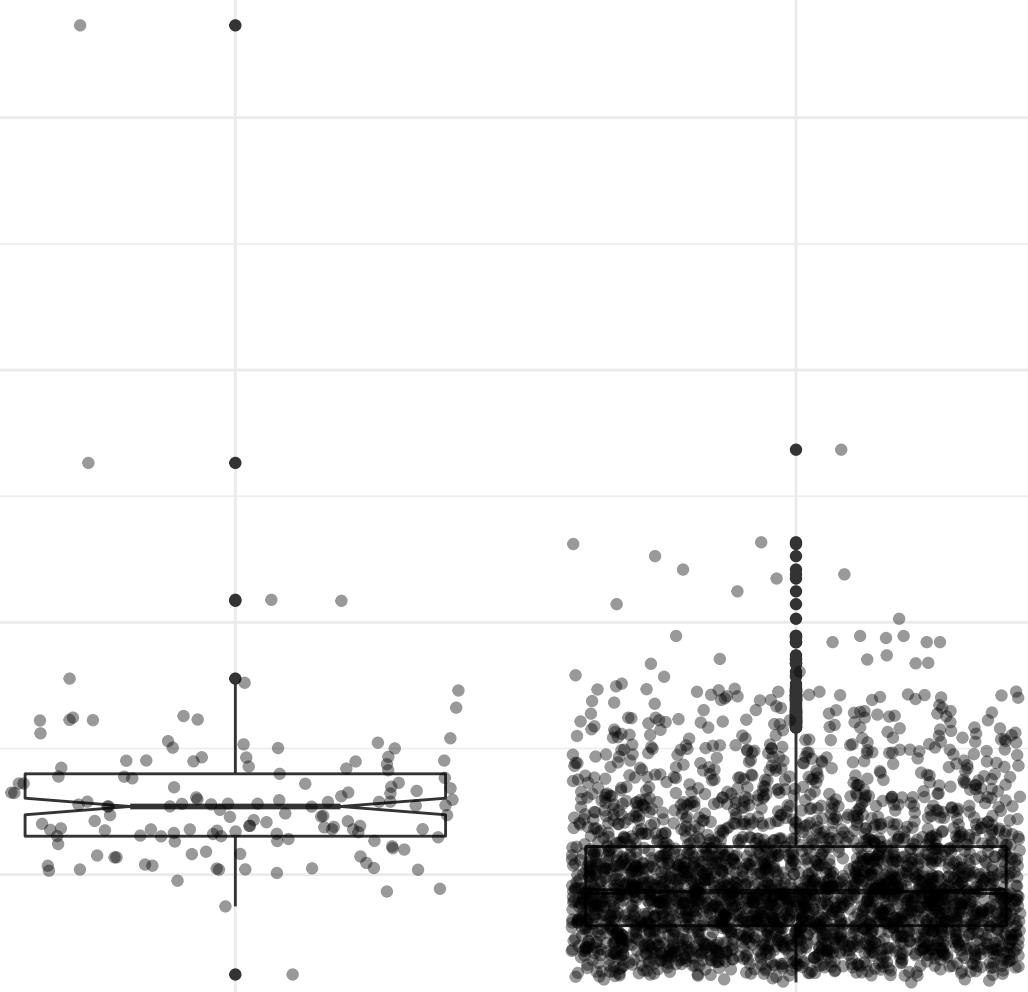
0.1

0.0

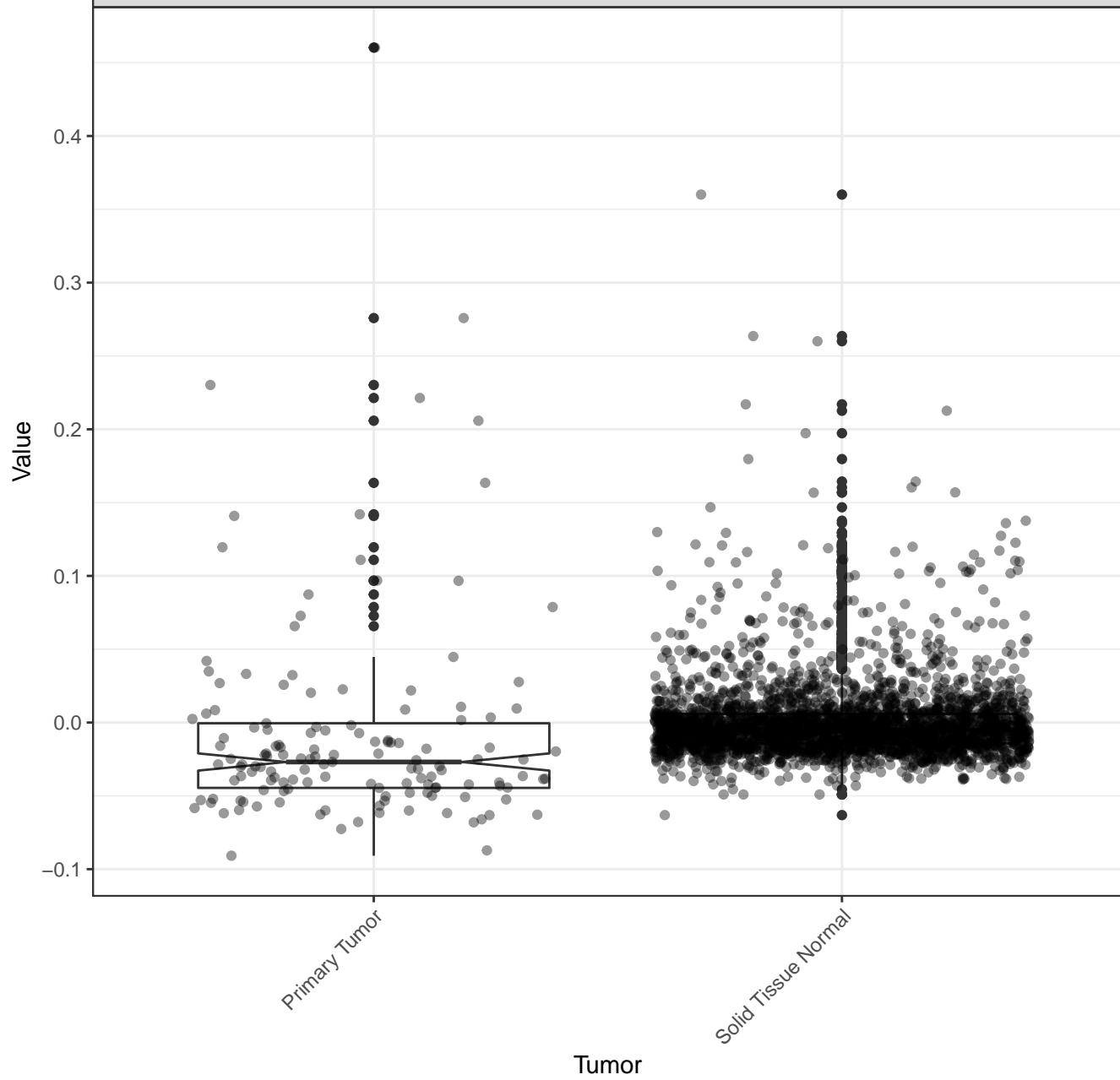
Primary Tumor

Solid Tissue Normal

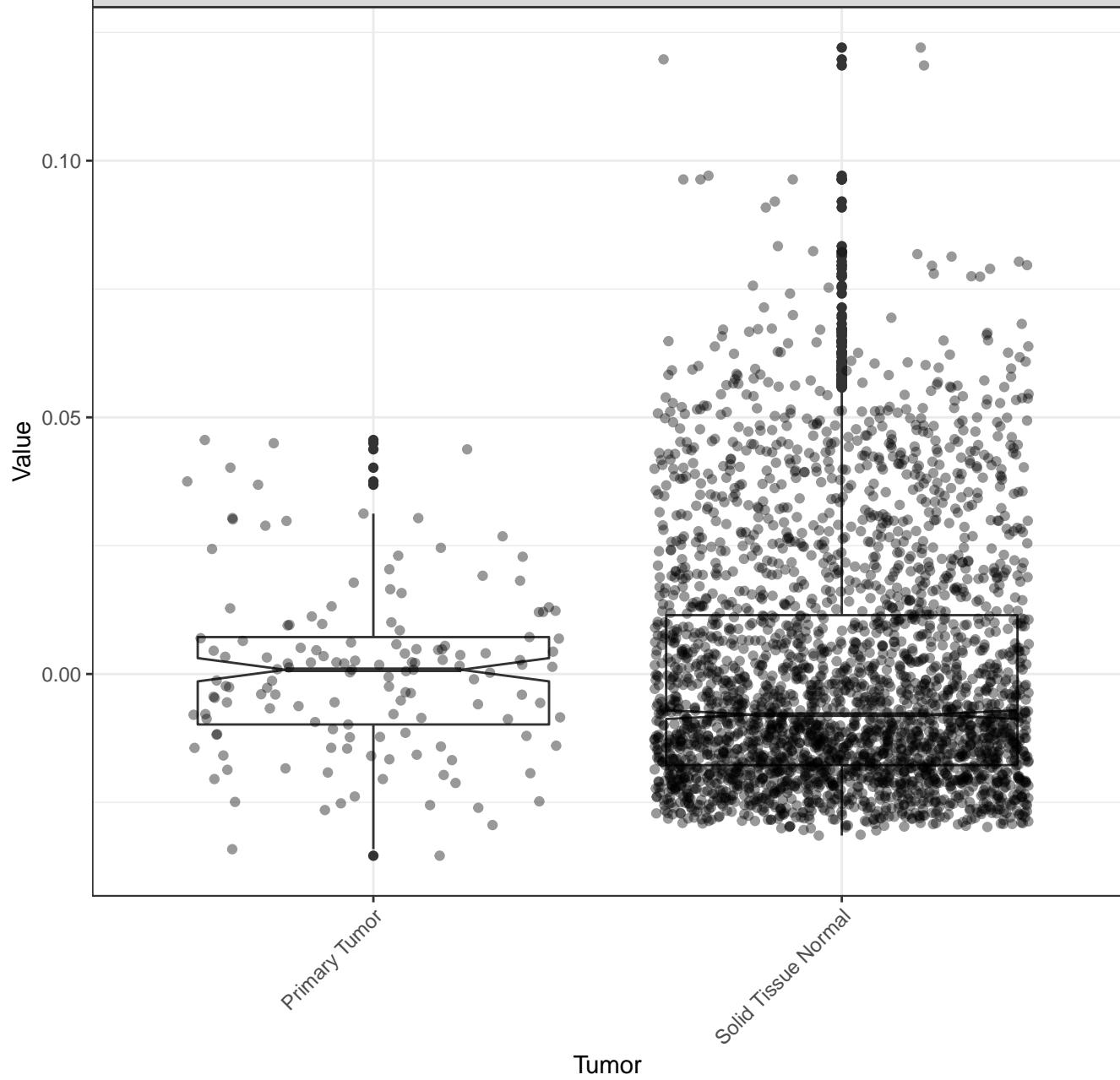
Tumor



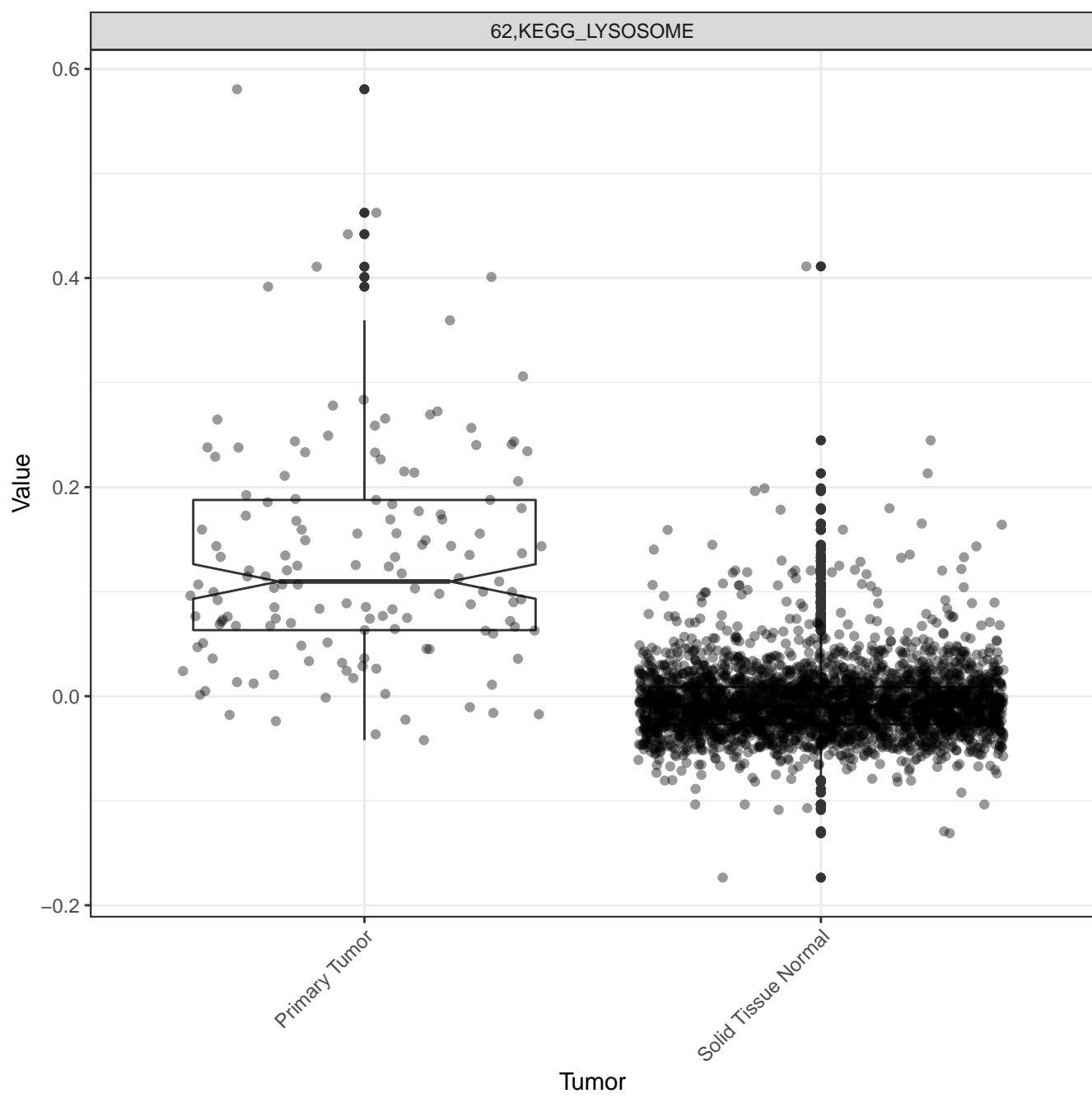
## 60,IRIS\_NKcell-control



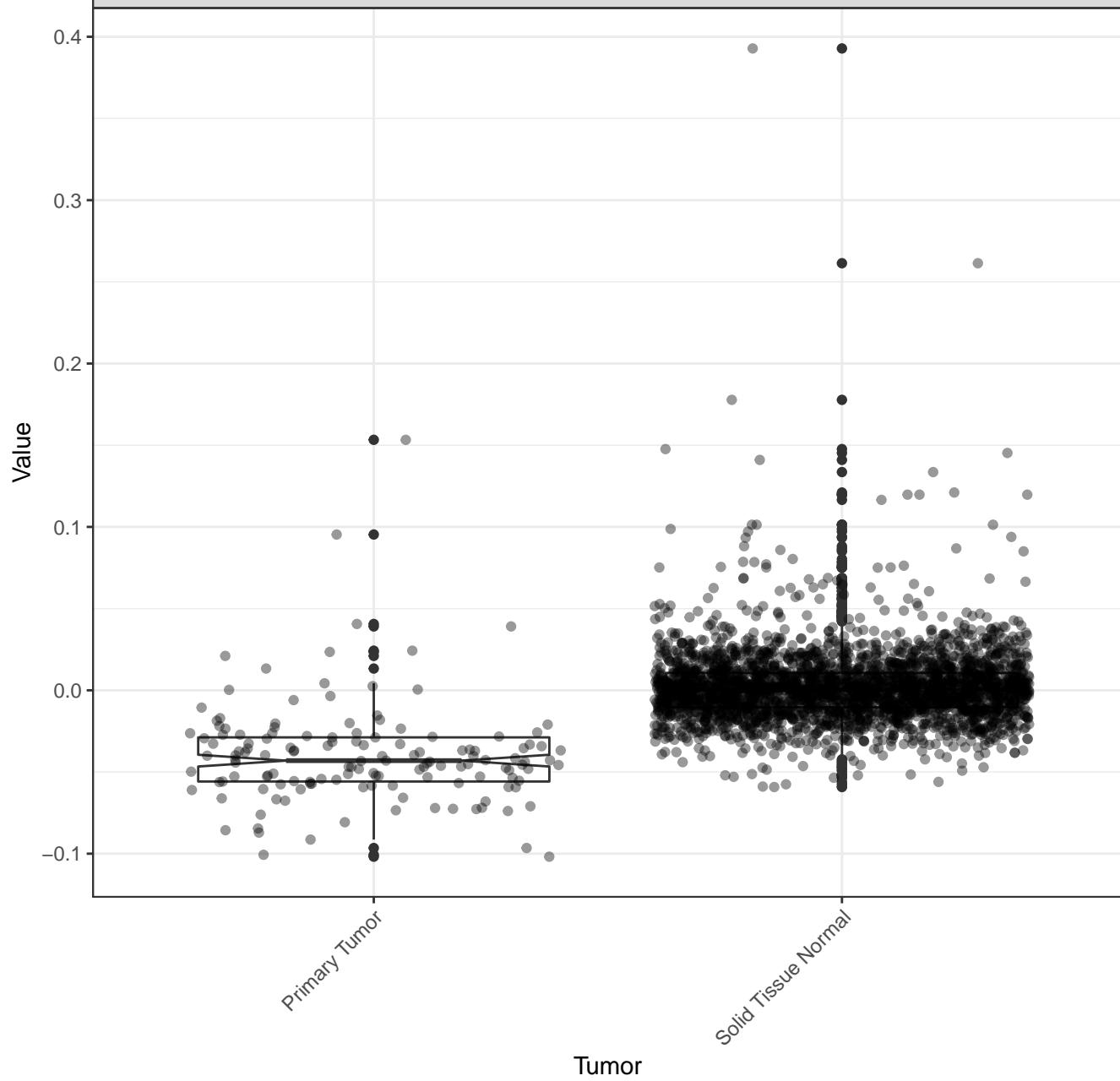
# 61,REACTOME\_METABOLISM\_OF\_VITAMINS\_AND\_COFACTORS



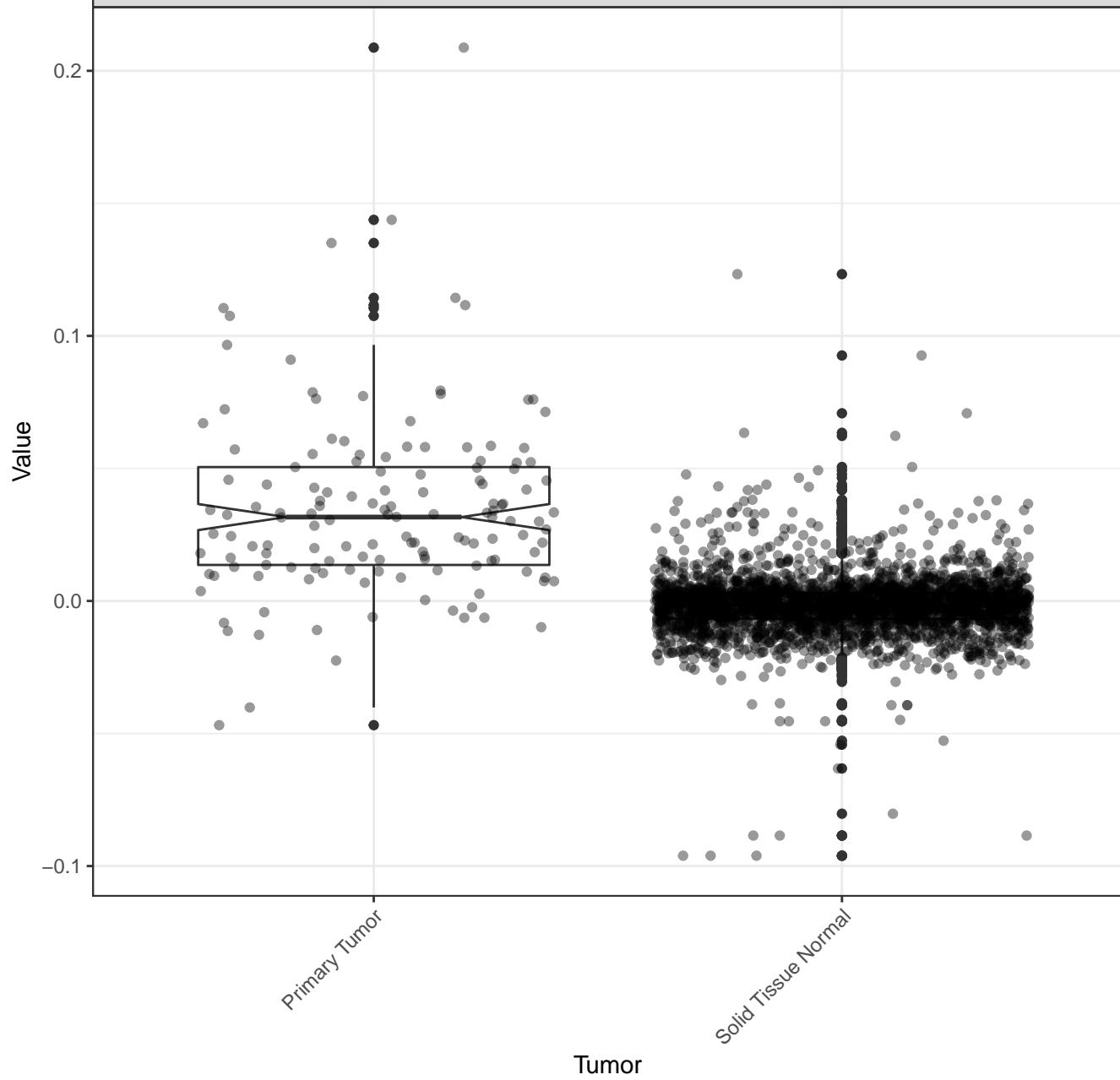
## 62,KEGG\_LYSOSOME



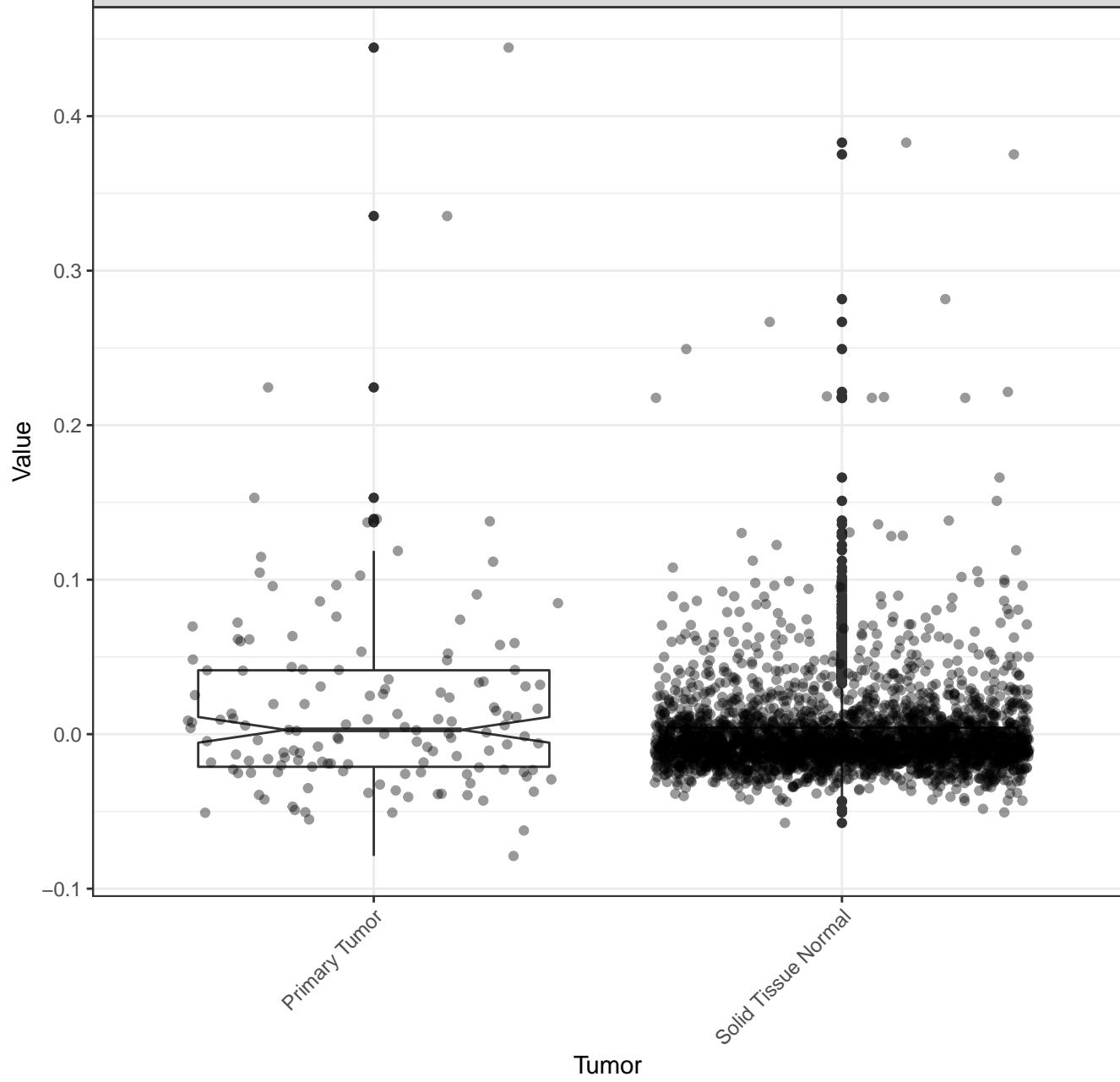
## 63,DMAP\_ERY4



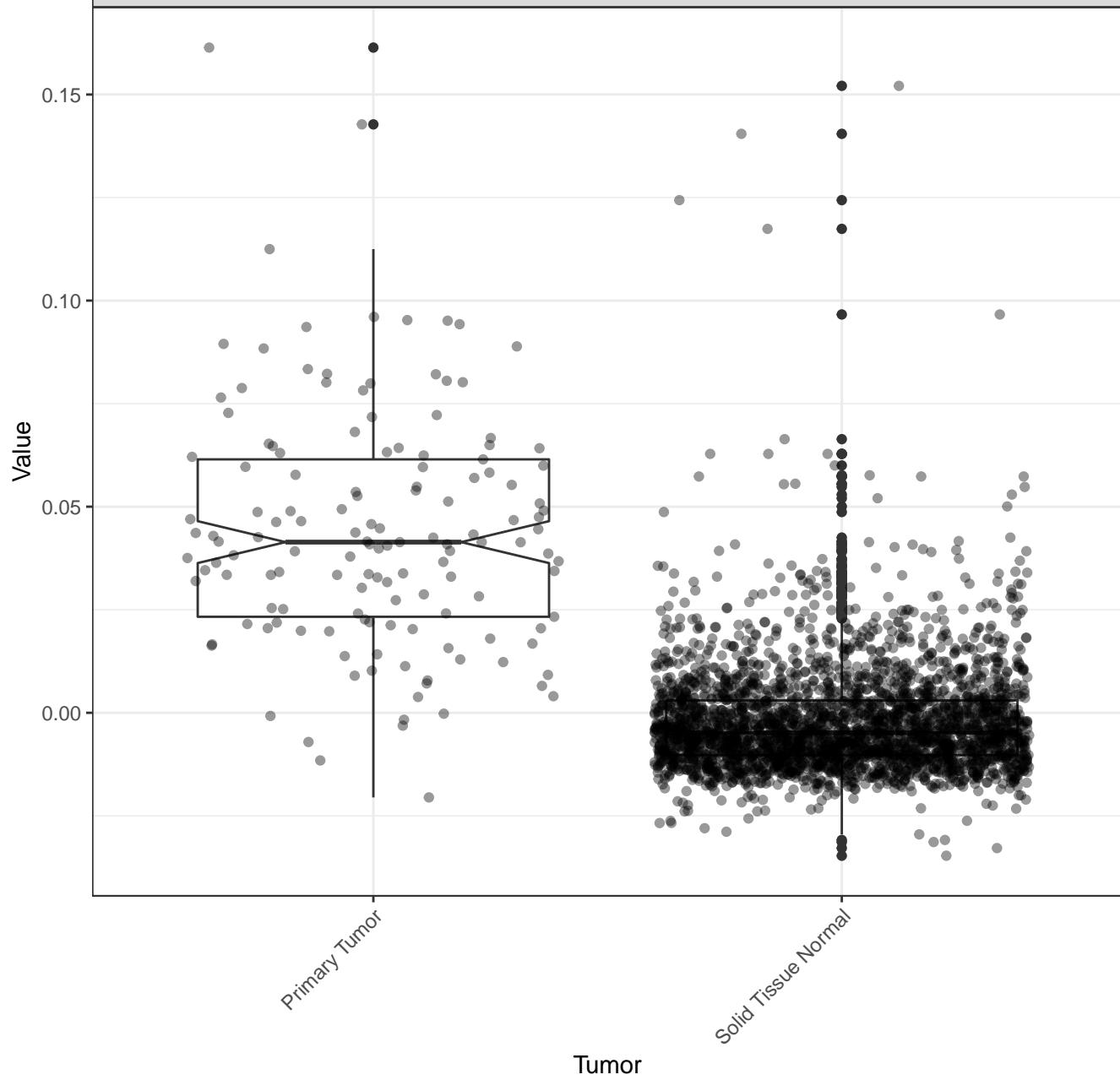
## 64,DMAP\_DENDA2



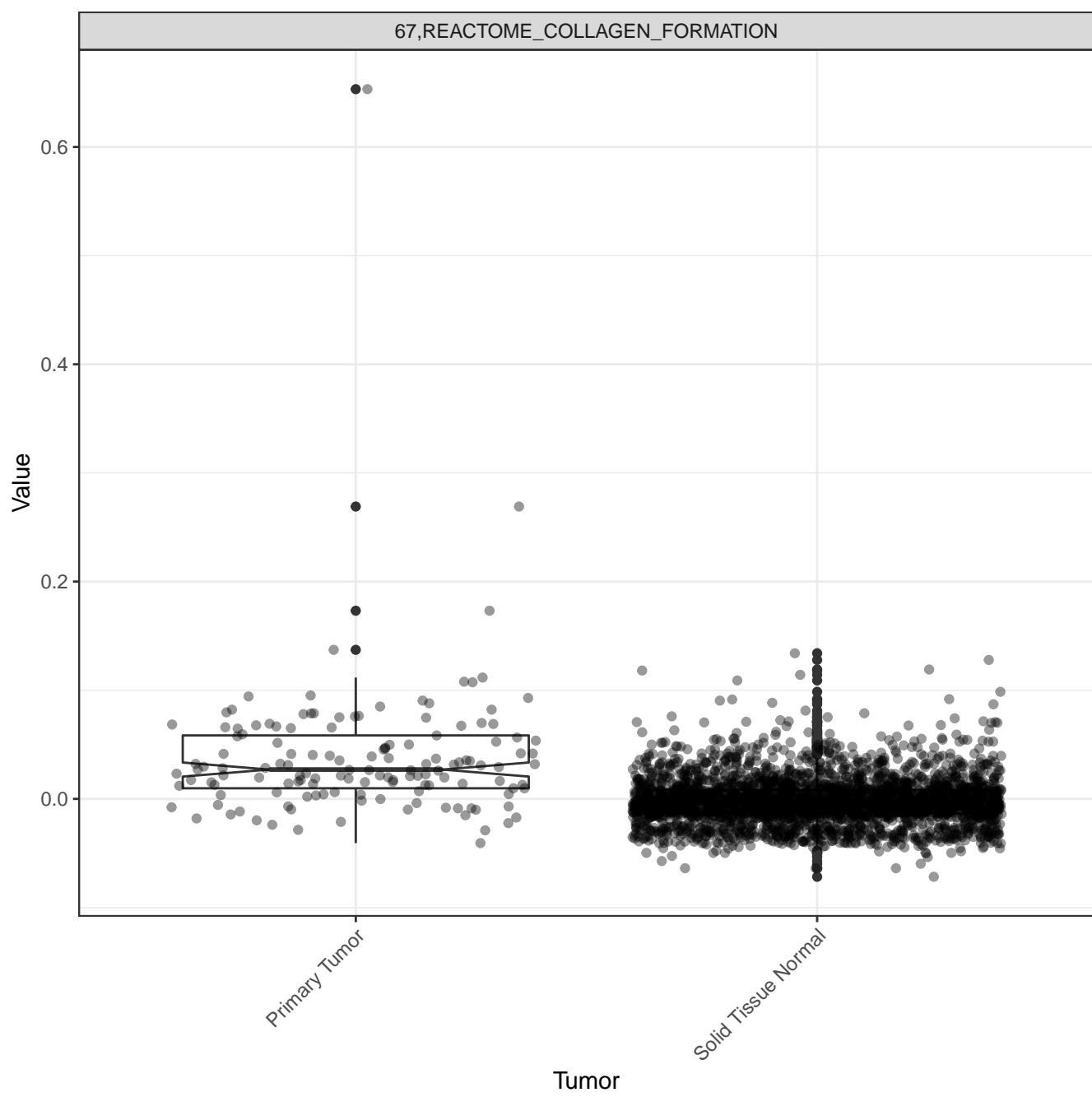
### 65,SVM NK cells resting



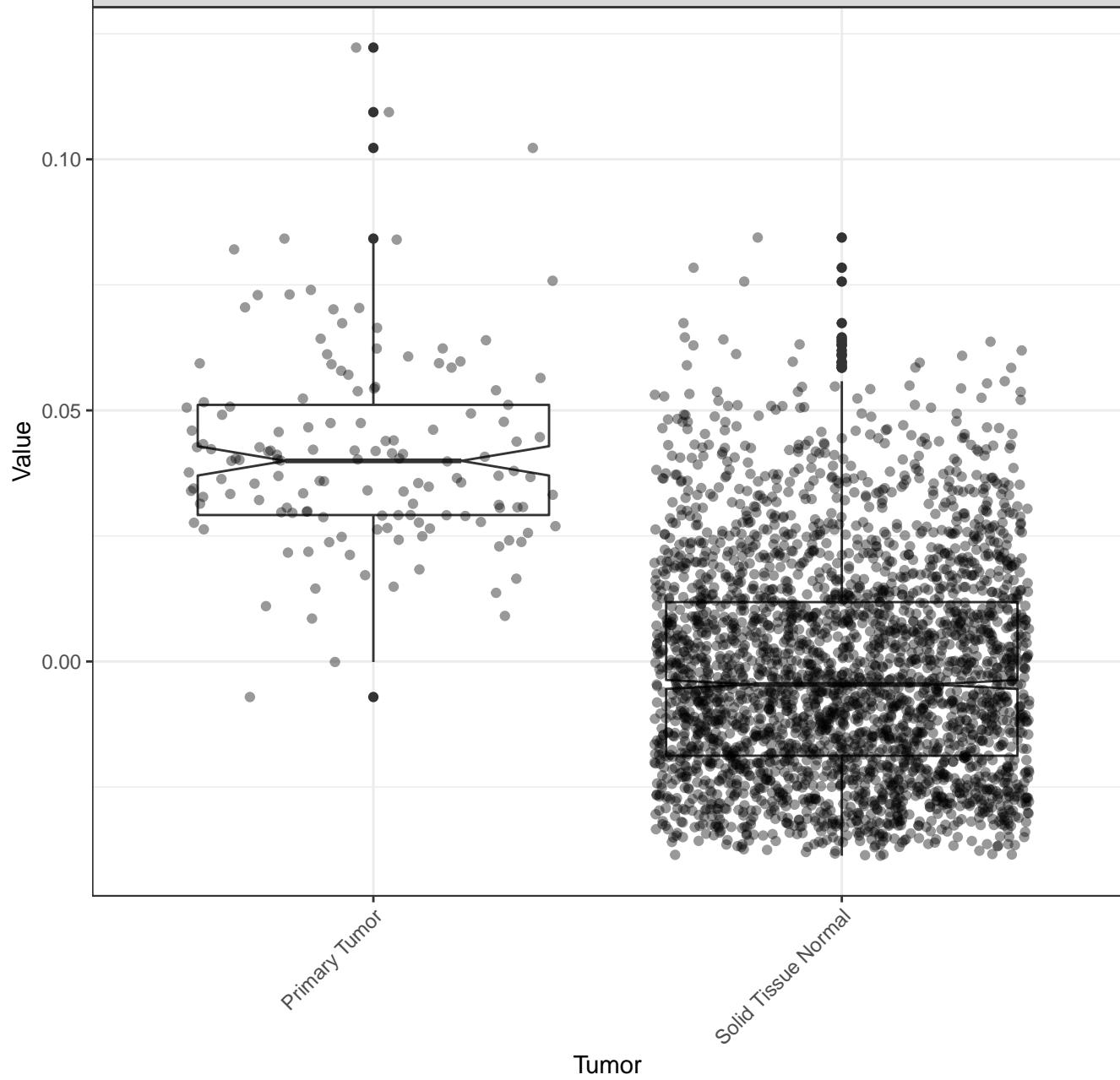
# 66,IRIS\_Neutrophil–Resting



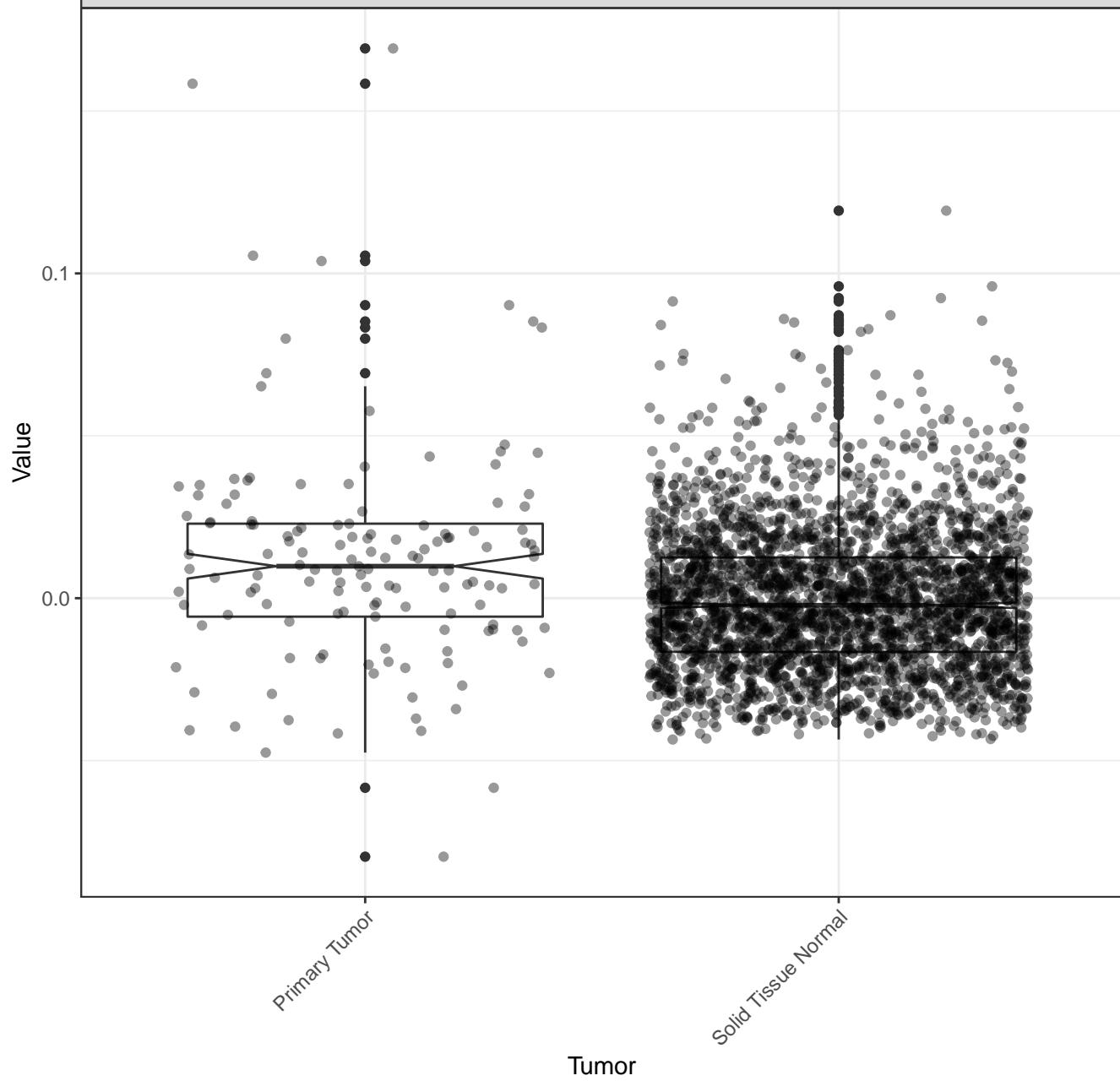
## 67,REACTOME\_COLLAGEN\_FORMATION



# 68,REACTOME\_RESPIRATORY\_ELECTRON\_TRANSPORT



## 69,PID\_EPHBFWDPATHWAY



## 70,KEGG\_OXIDATIVE\_PHOSPHORYLATION

Value

0.08

0.04

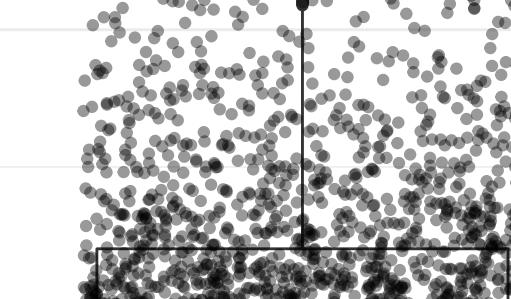
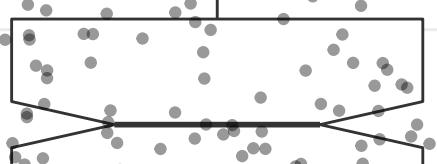
0.00

-0.04

Primary Tumor

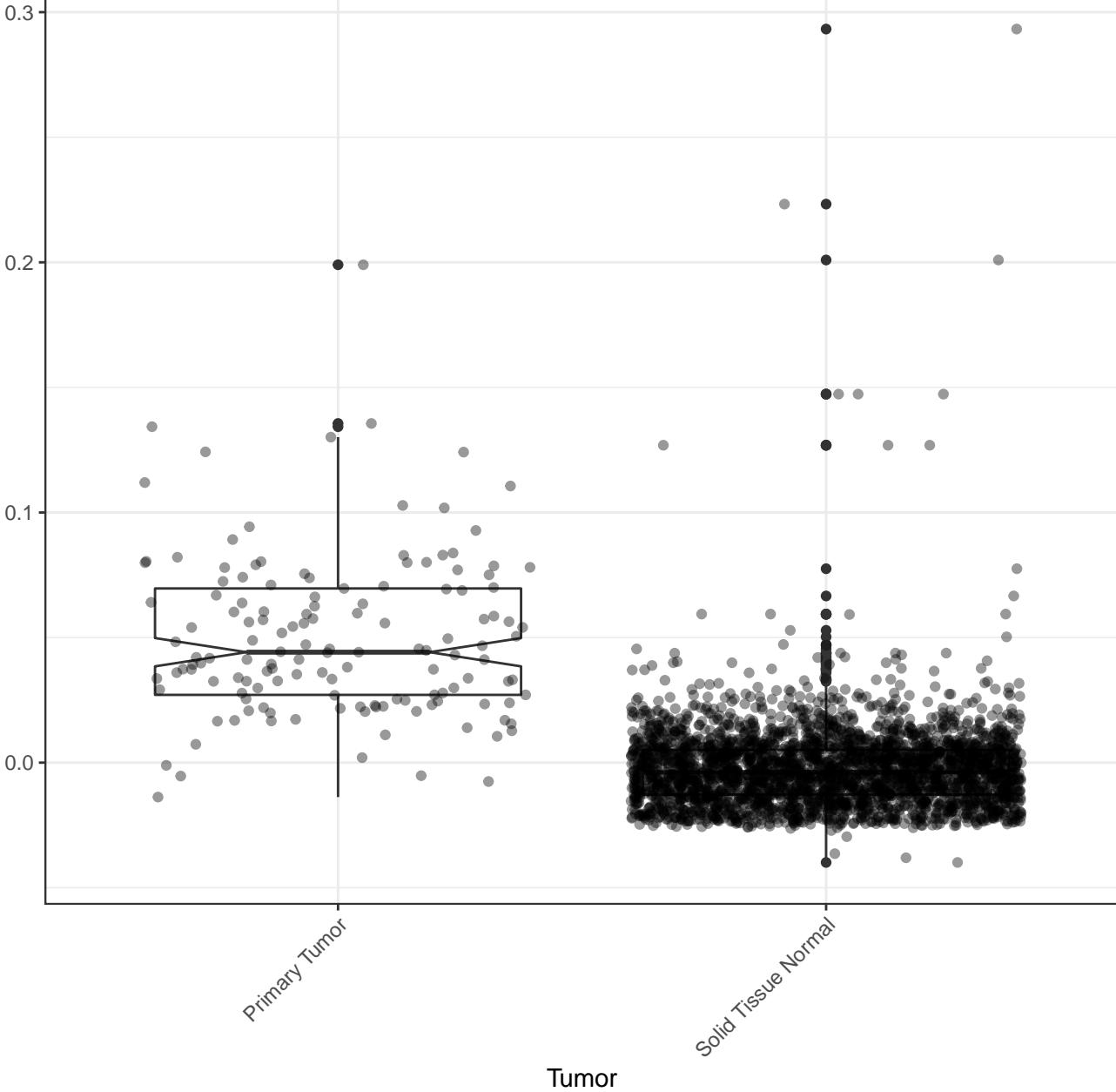
Solid Tissue Normal

Tumor



# 71,SIG\_PIP3\_SIGNALING\_IN\_CARDIAC\_MYOCTES

Value



## 72,REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES

Value

0.3

0.2

0.1

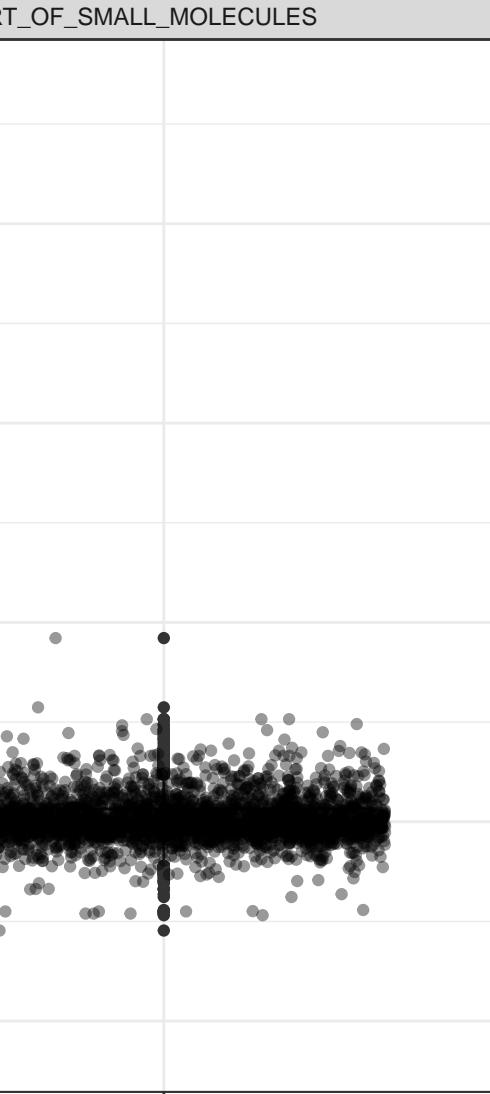
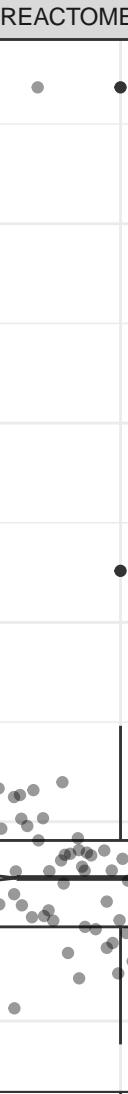
0.0

-0.1

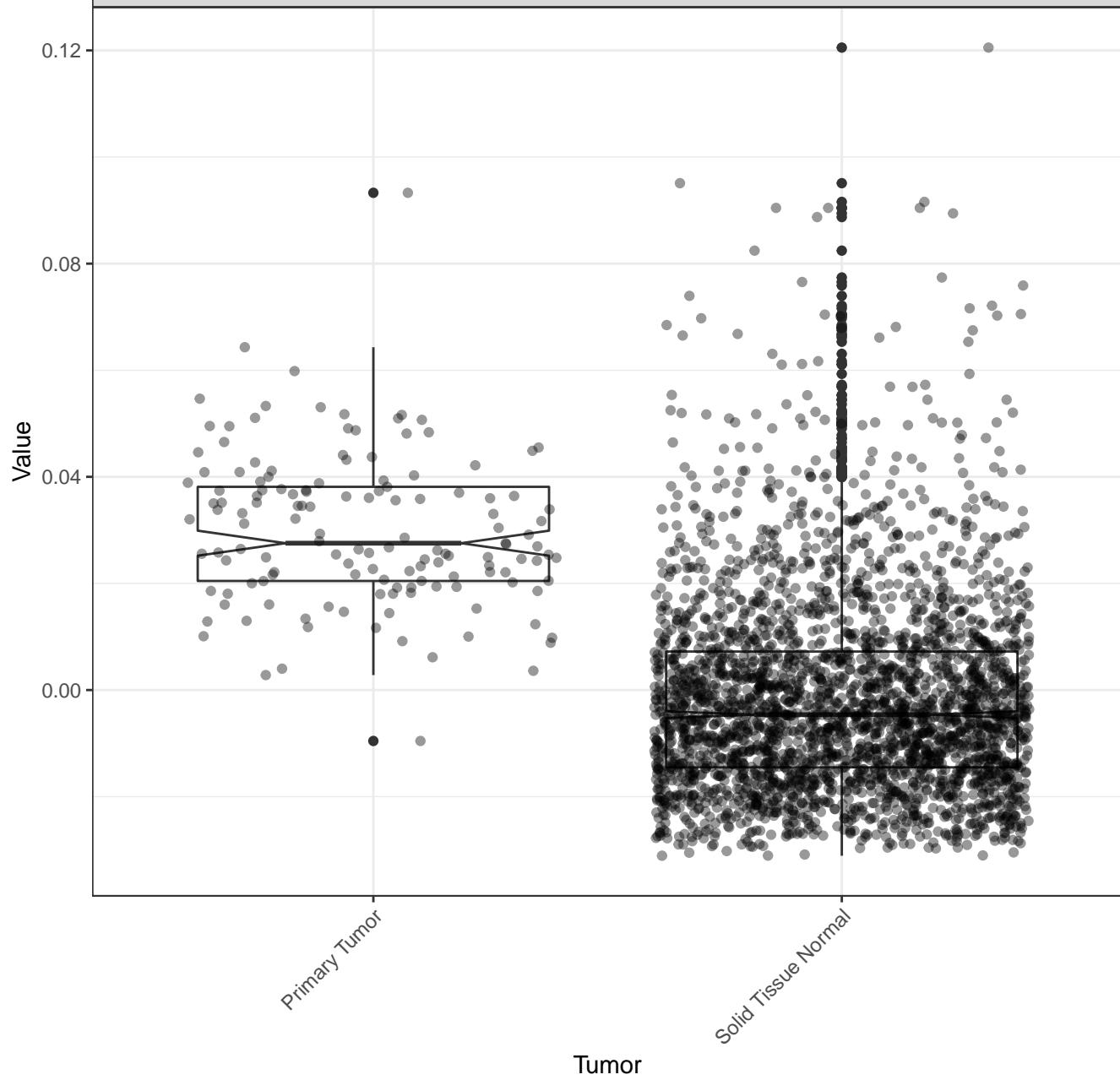
Primary Tumor

Tumor

Solid Tissue Normal



### 73,REACTOME\_GLYCEROPHOSPHOLIPID BIOSYNTHESIS



### 74,KEGG\_NOTCH\_SIGNALING\_PATHWAY

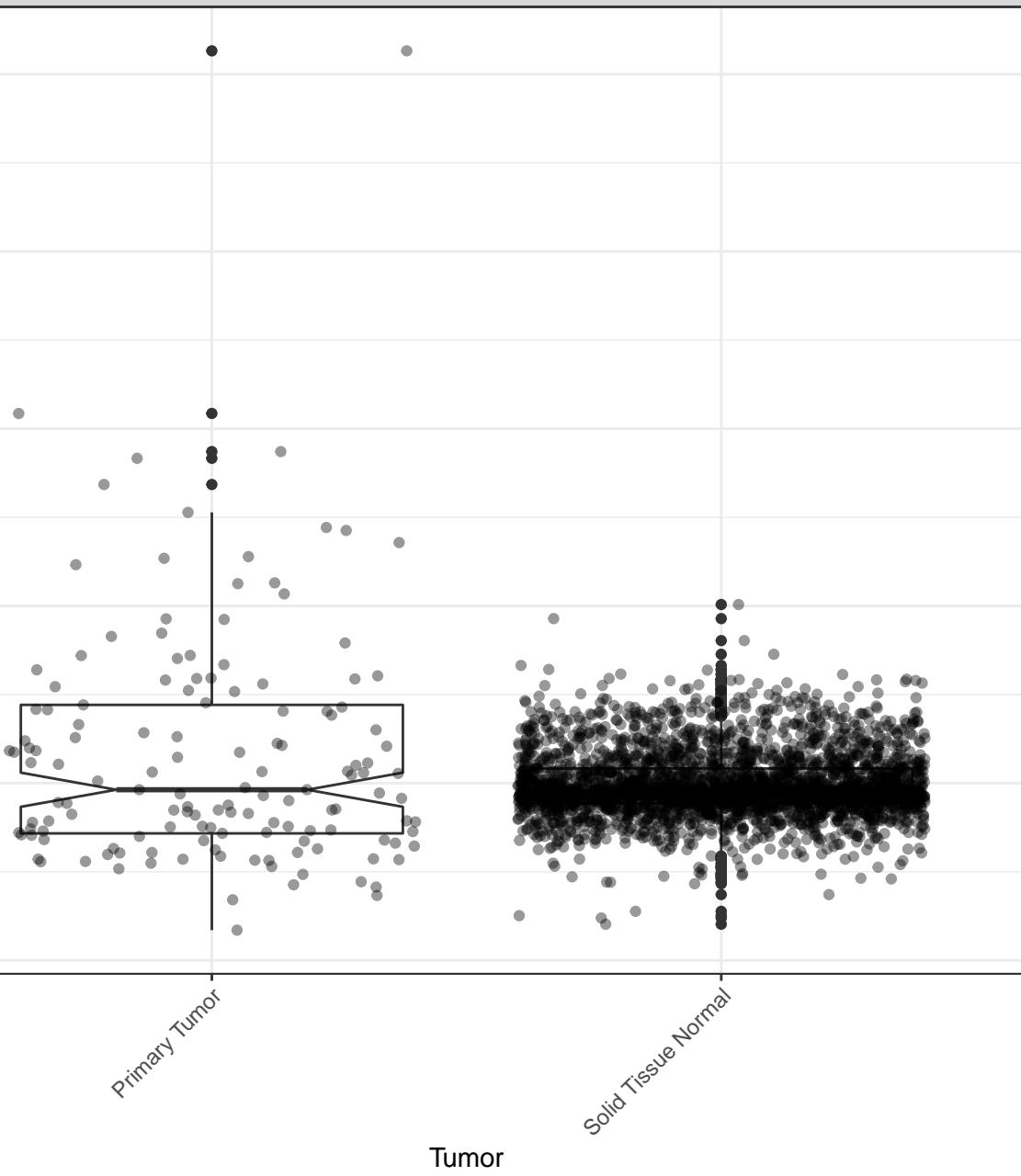
Value

0.4  
0.3  
0.2  
0.1  
0.0  
-0.1

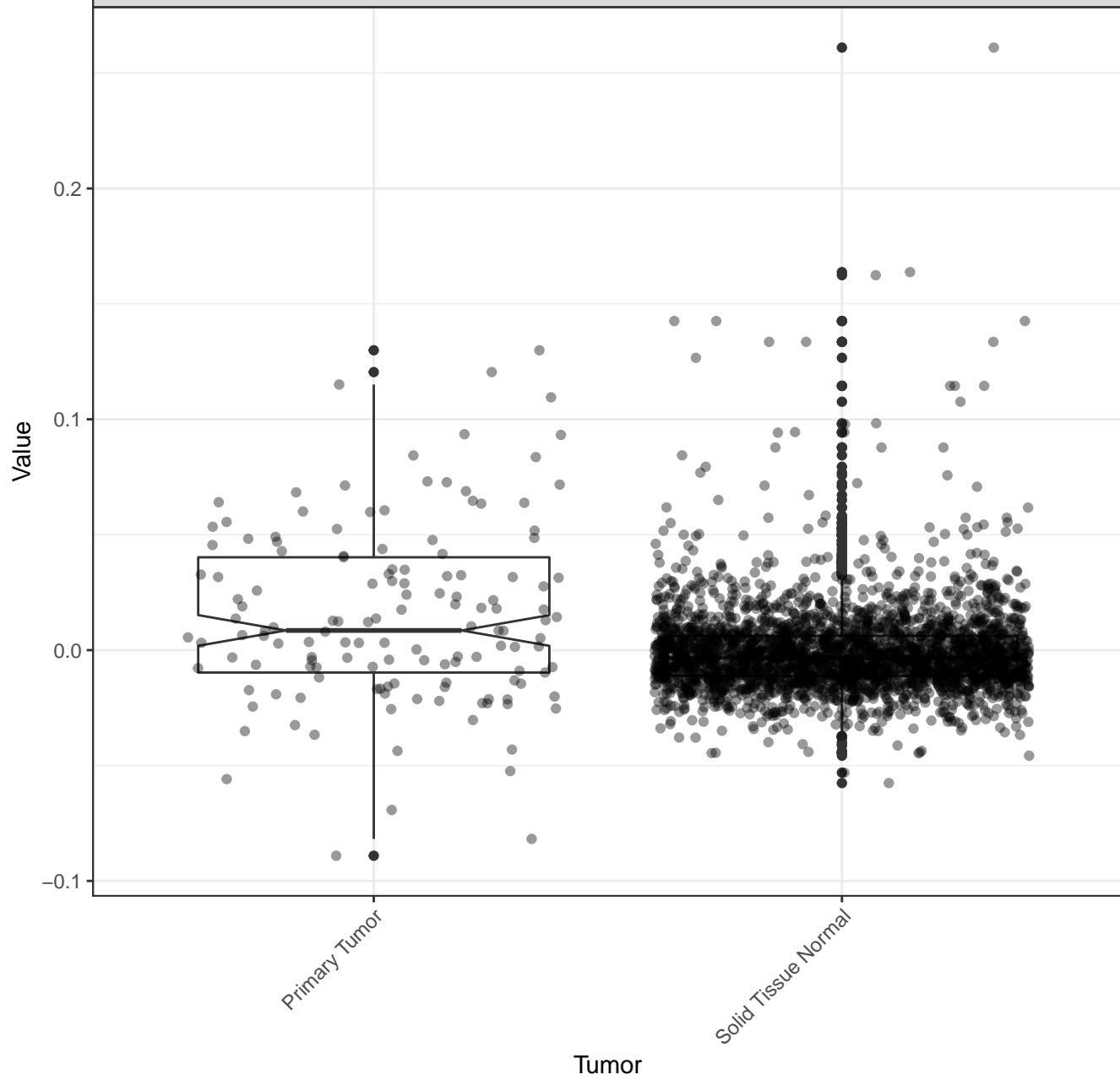
Primary Tumor

Solid Tissue Normal

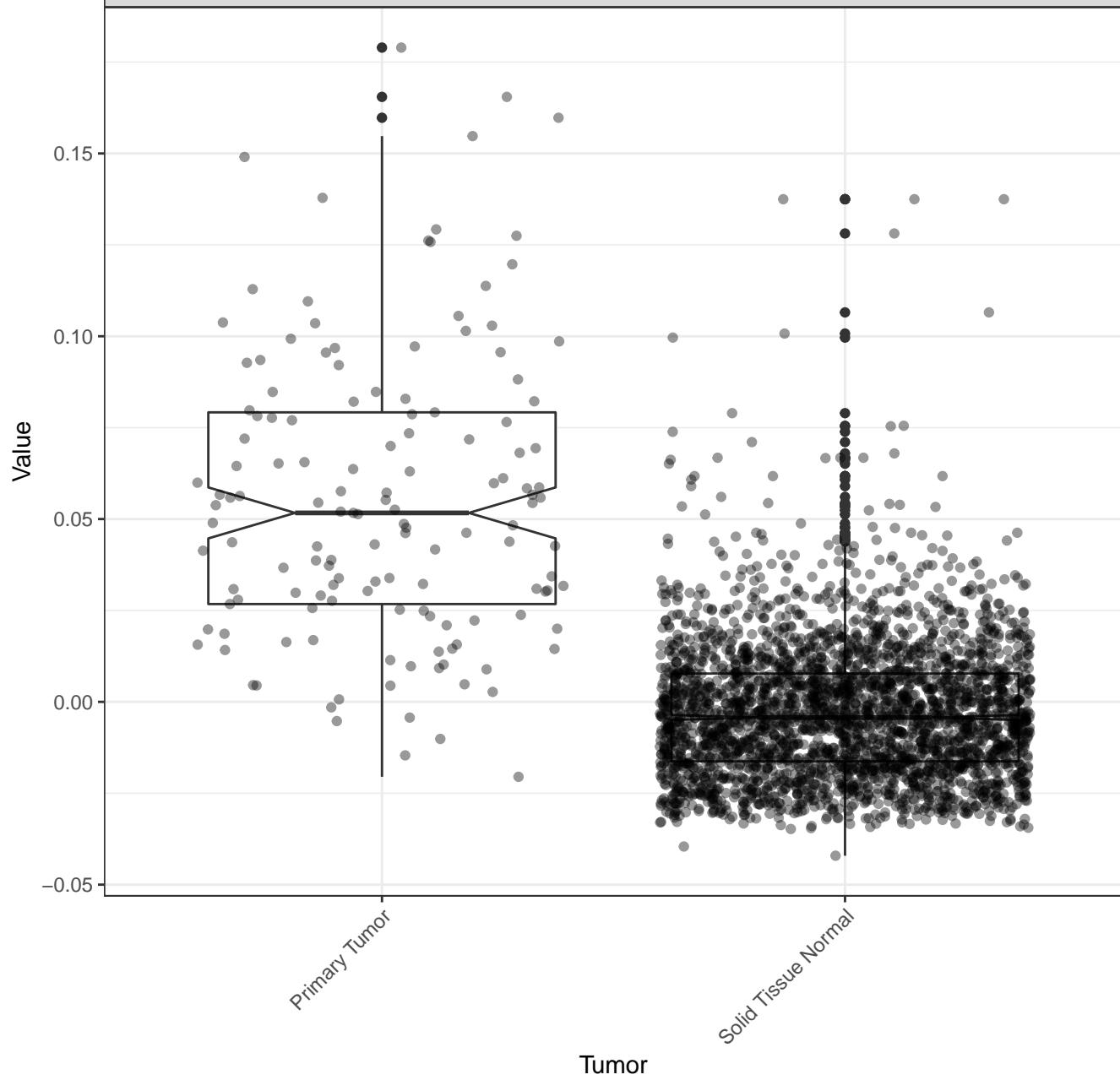
Tumor



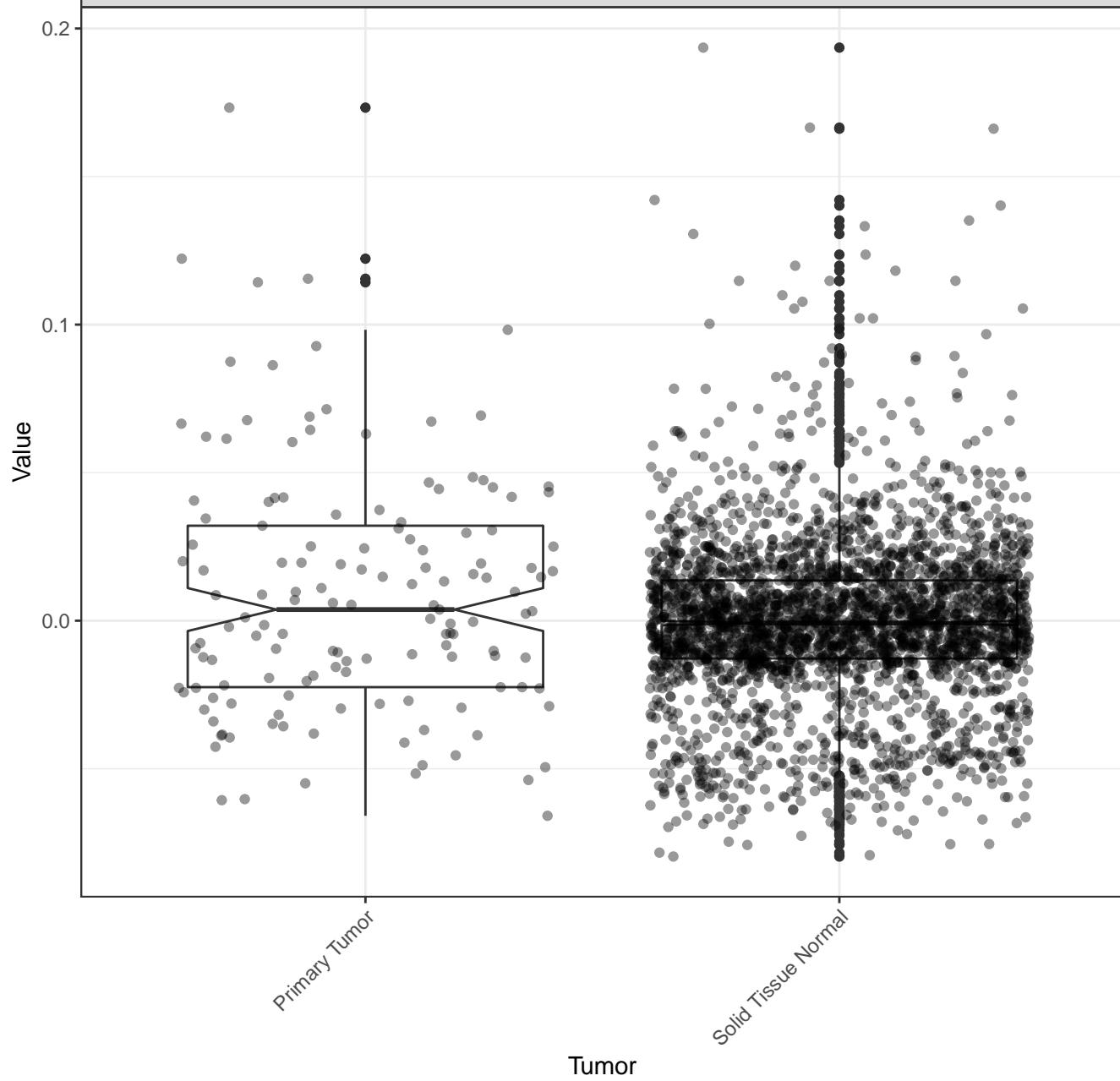
# 75,REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES



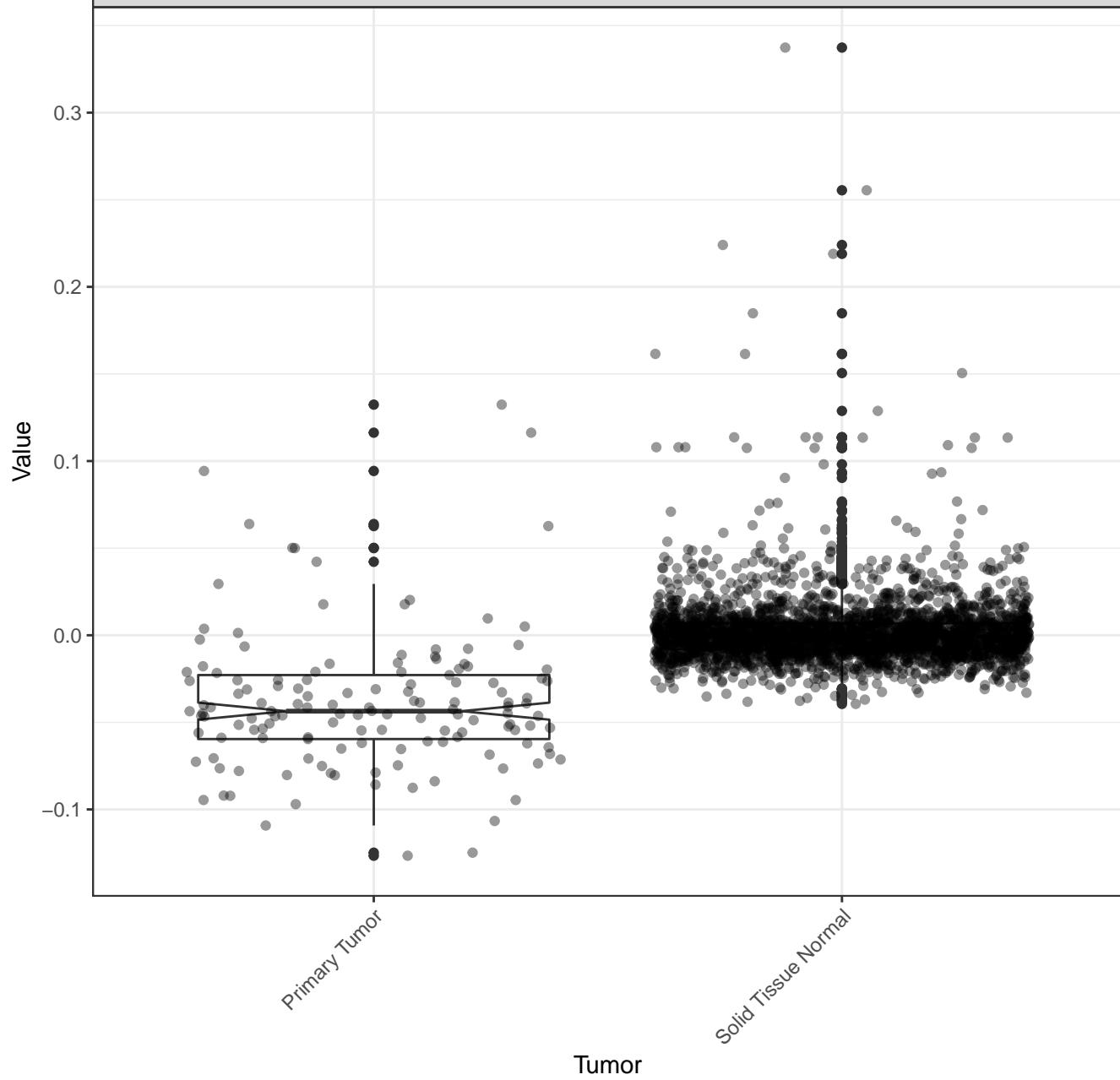
## 76,KEGG\_CELL\_CYCLE



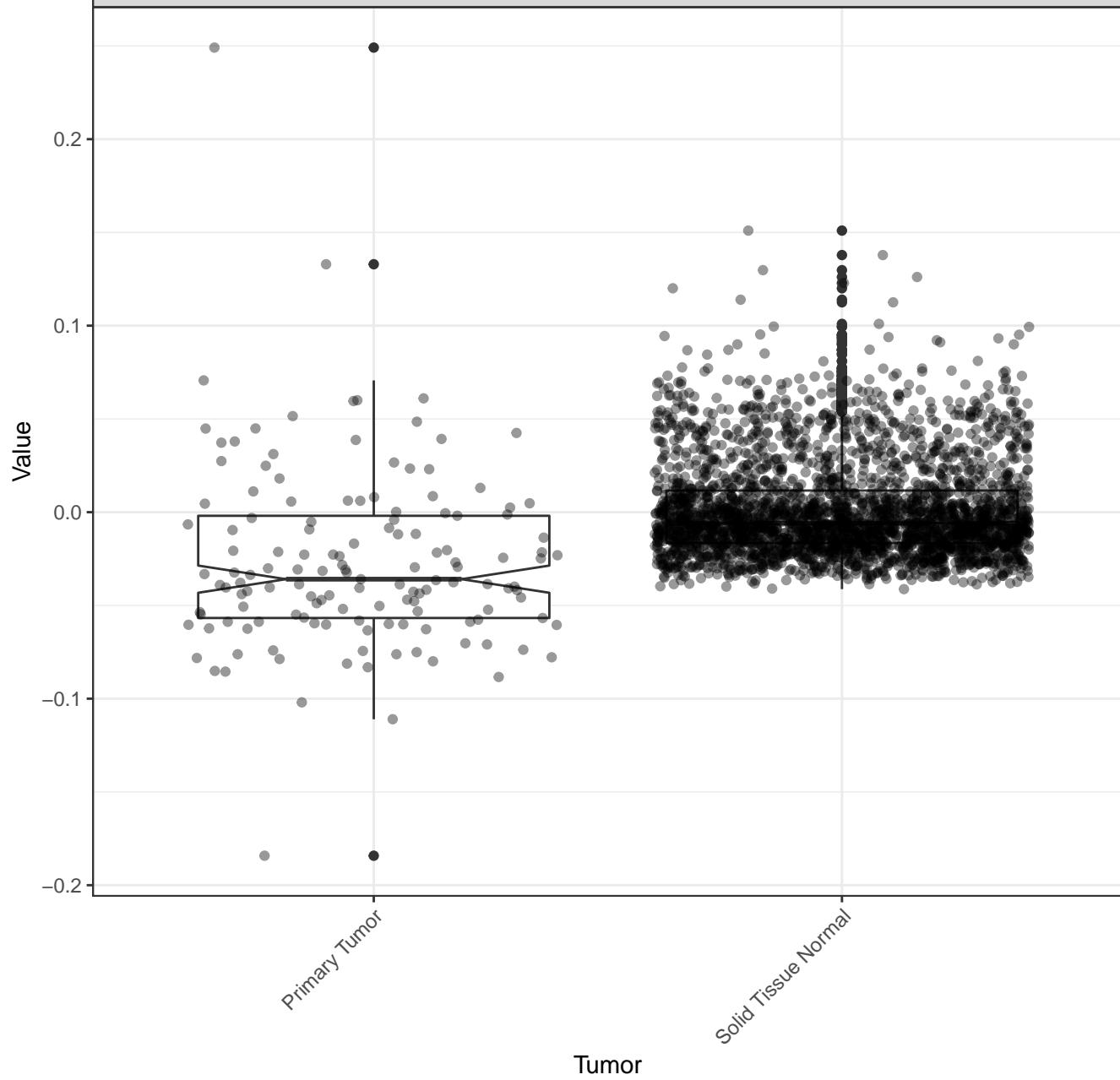
### 77,KEGG\_METABOLISM\_OF\_XENOBIOTICS\_BY\_CYTOCHROME\_P450



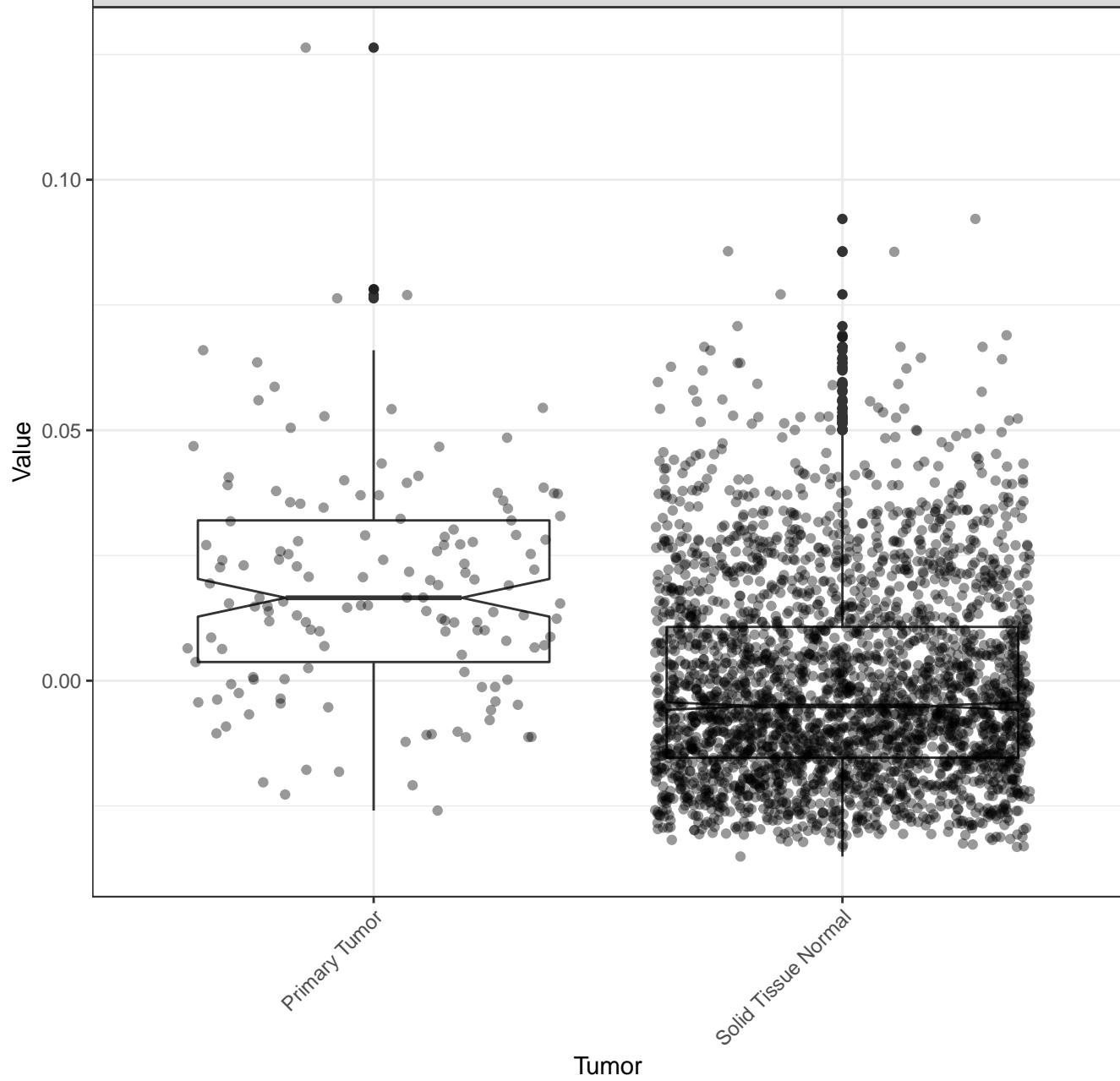
## 78,KEGG\_TIGHT\_JUNCTION



### 79,KEGG\_METABOLISM\_OF\_XENOBIOTICS\_BY\_CYTOCHROME\_P450



# 80,REACTOME\_MEMBRANE\_TRAFFICKING



81,MIPS\_39S\_RIBOSOMAL\_SUBUNIT\_MITOCHONDRIAL

Value

0.15

0.10

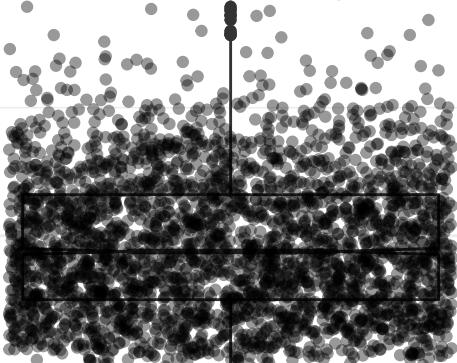
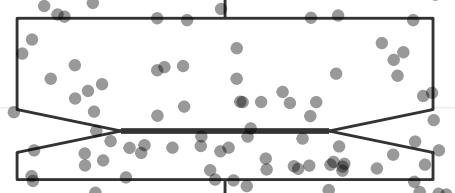
0.05

0.00

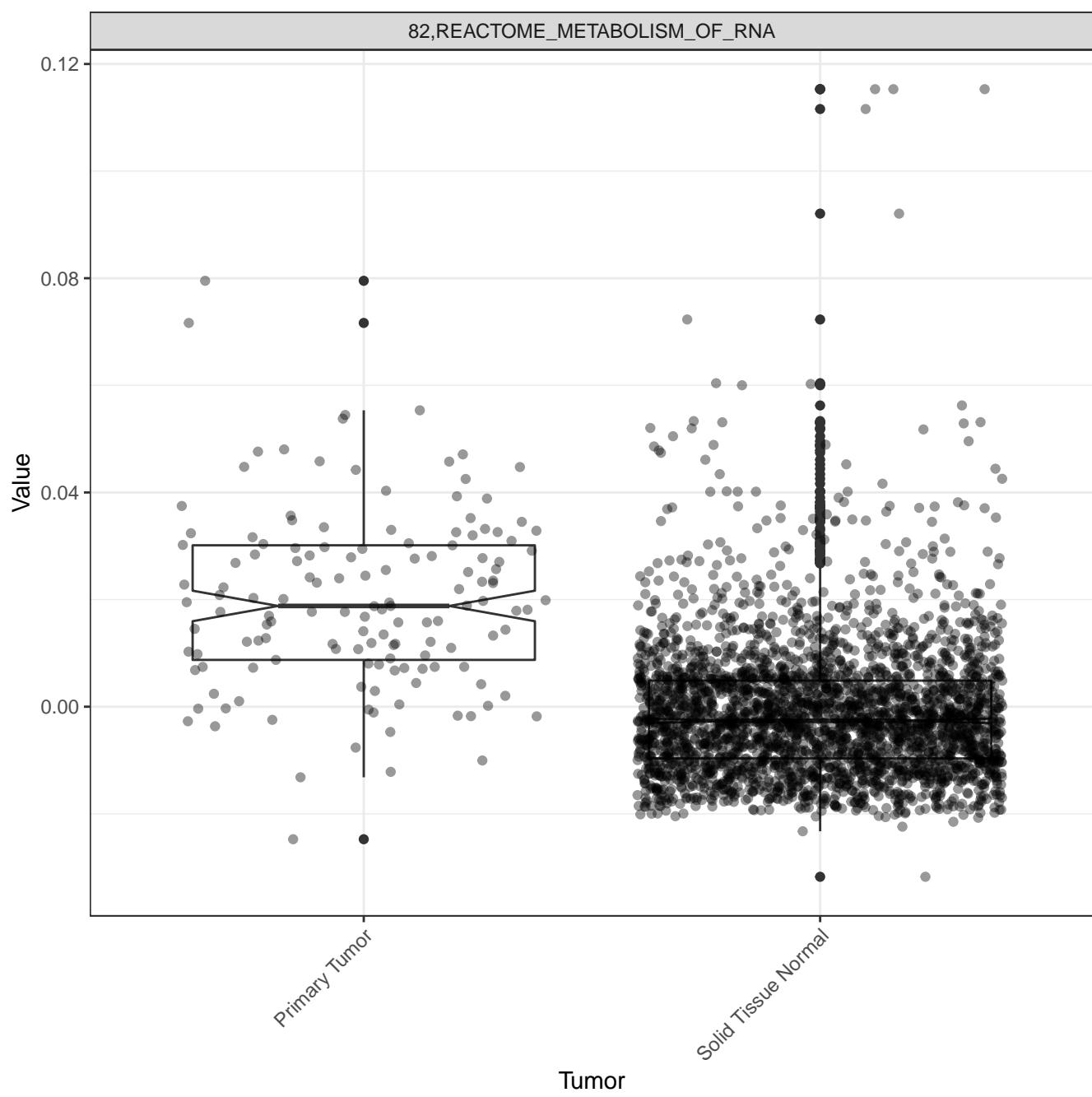
Primary Tumor

Solid Tissue Normal

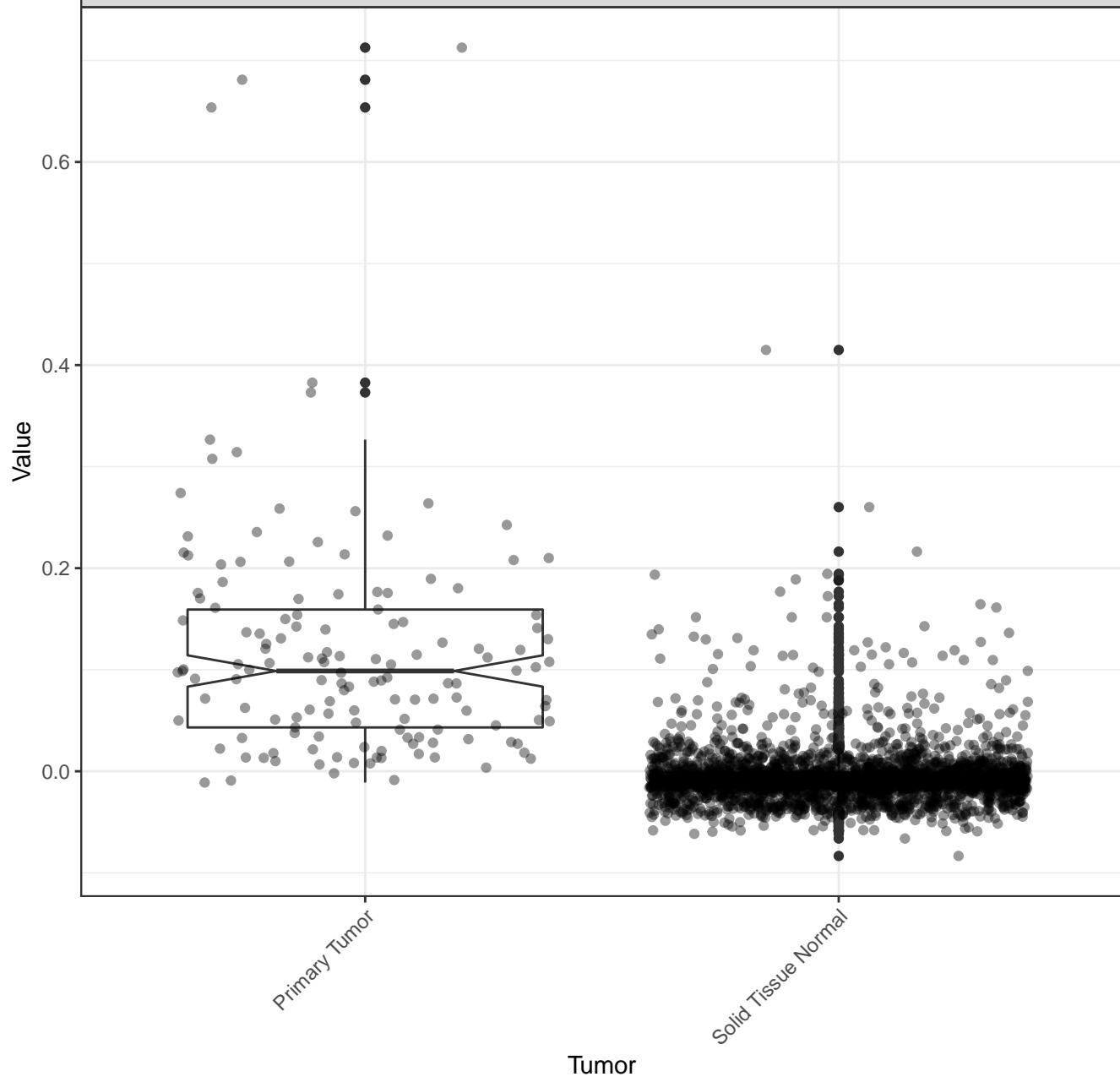
Tumor



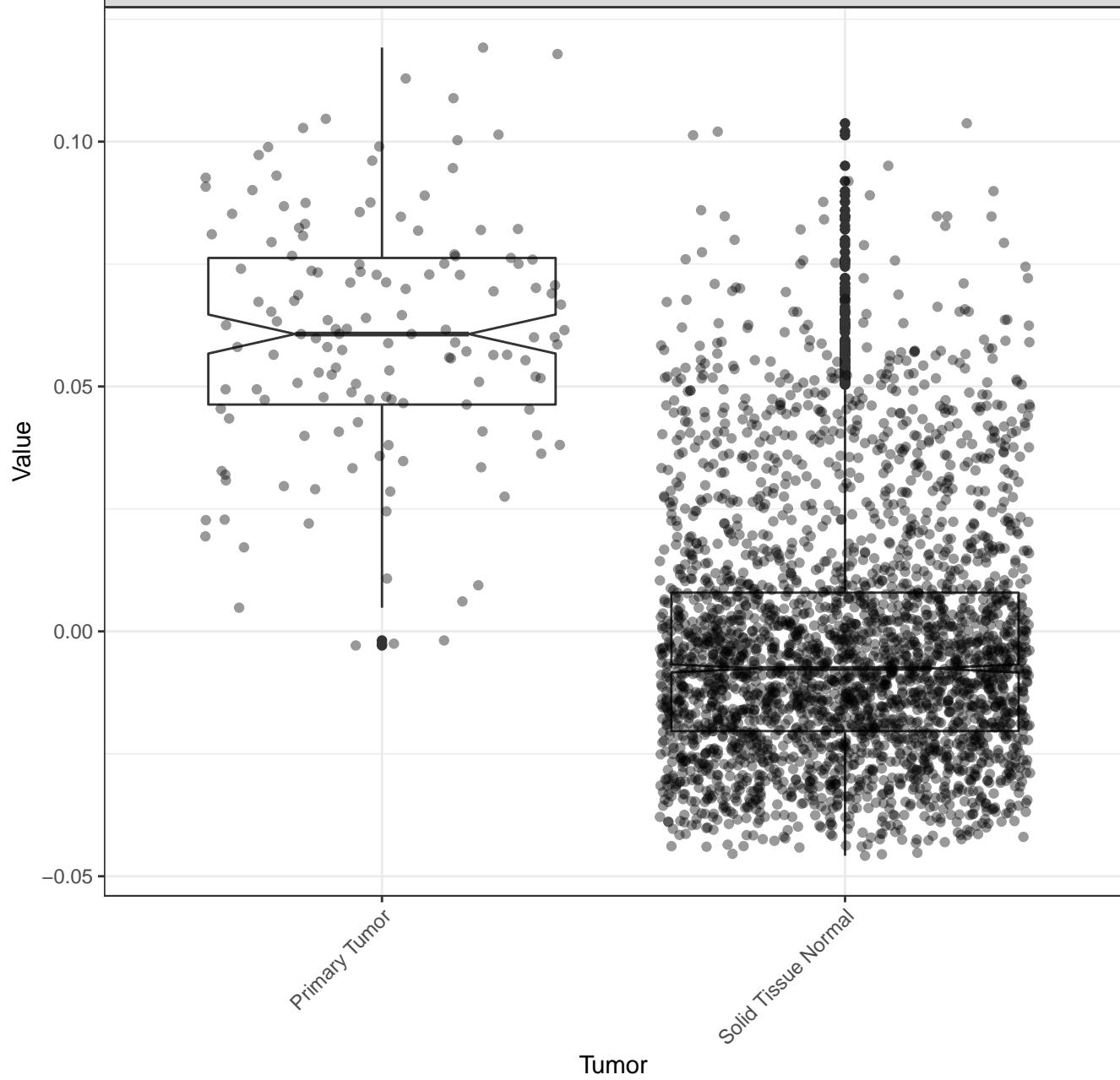
## 82,REACTOME\_METABOLISM\_OF\_RNA



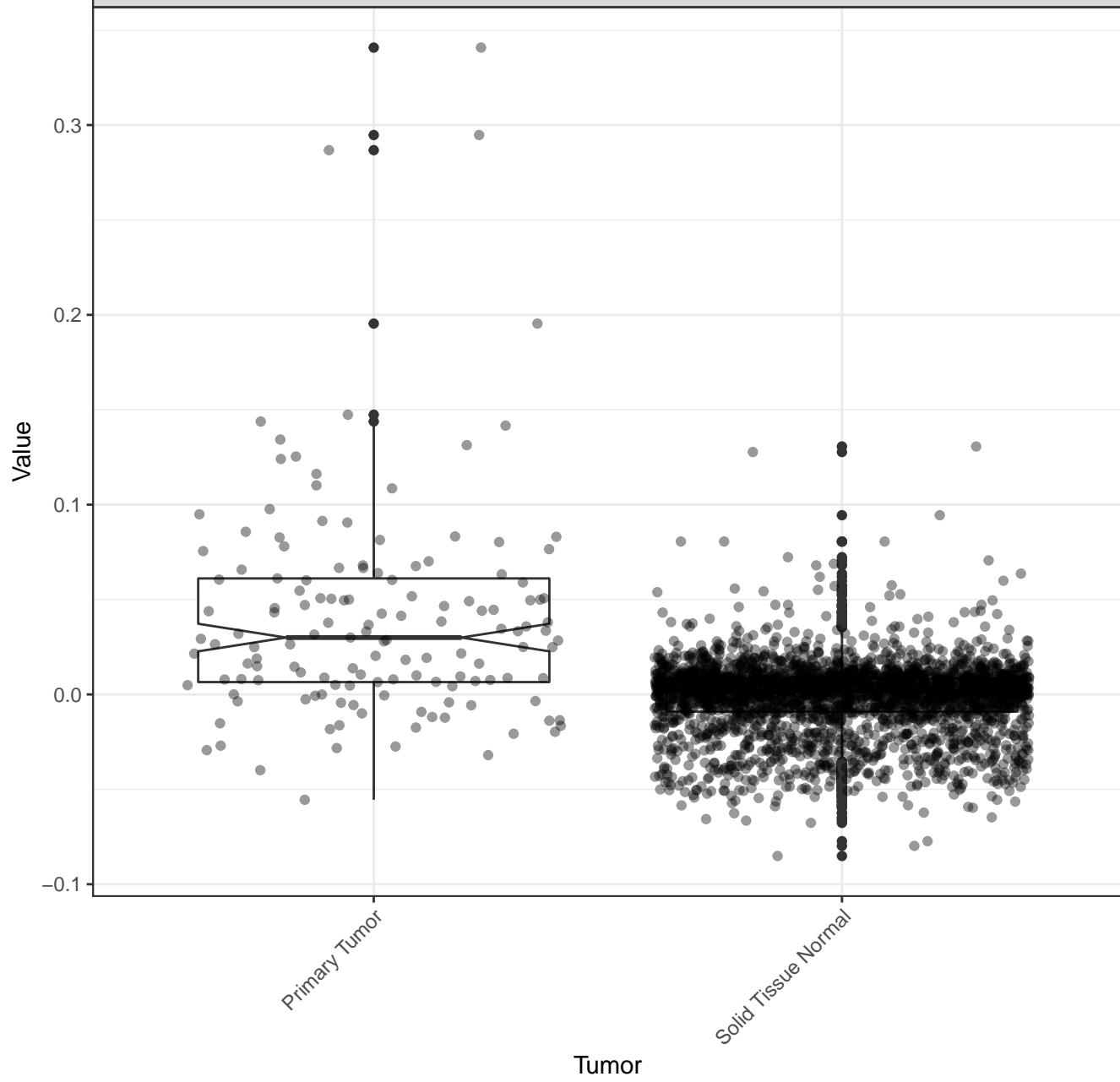
## 83,SVM Monocytes



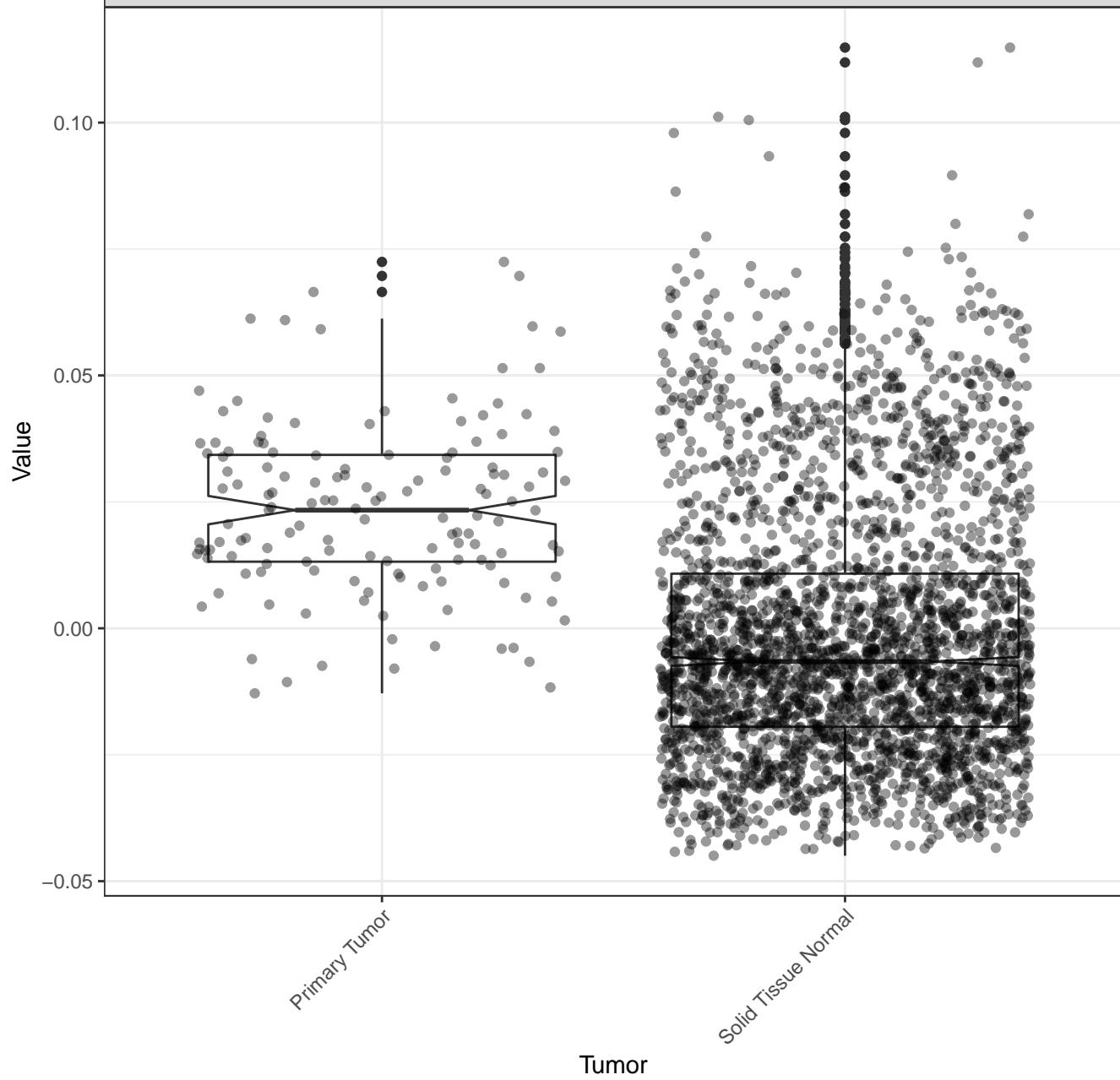
# 84,REACTOME\_RNA\_POL\_III\_TRANSCRIPTION



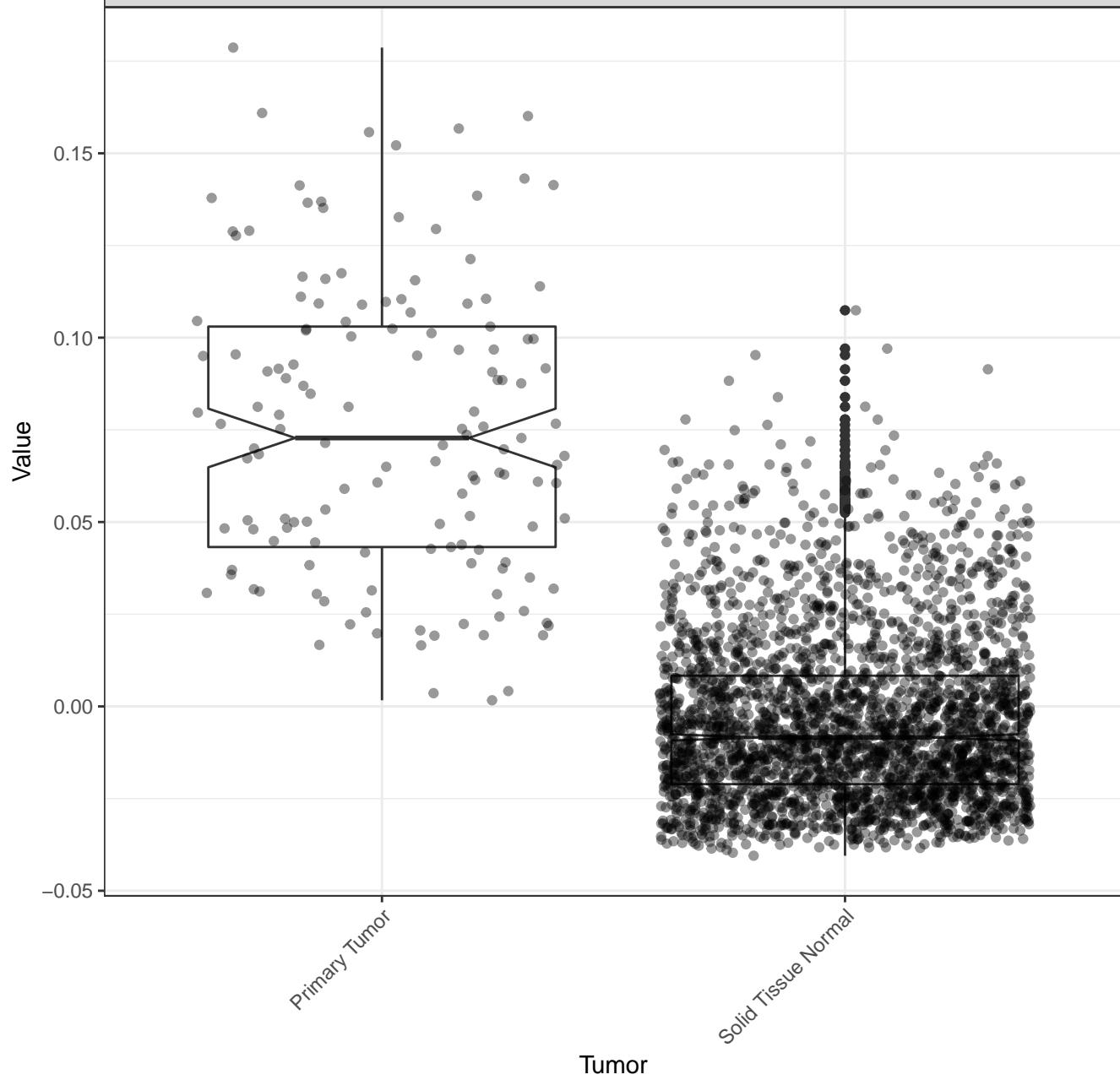
# 85,REACTOME\_CLASS\_A1\_RHODOPSIN\_LIKE\_RECEPTEORS



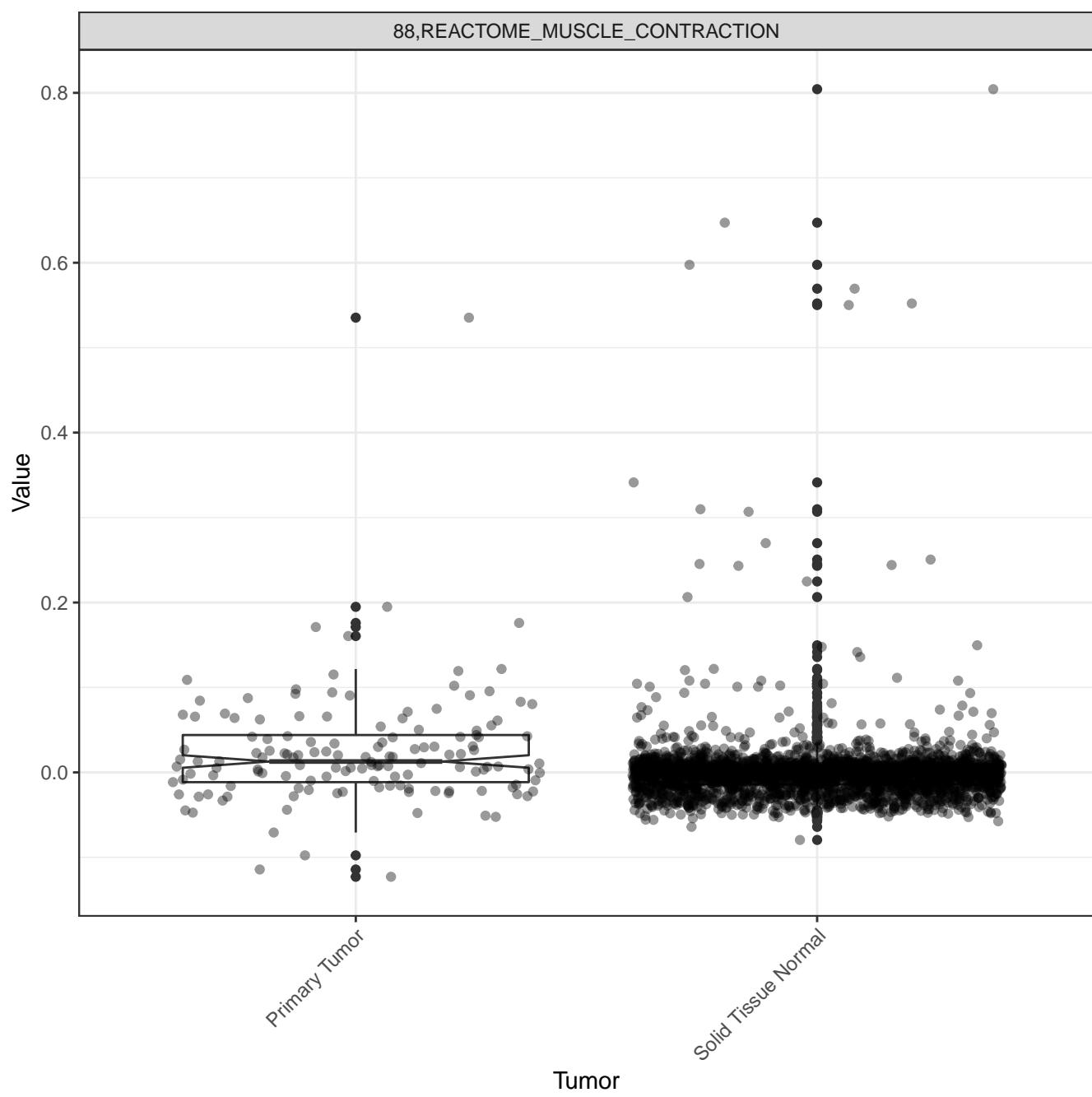
### 86,REACTOME\_RNA\_POL\_II\_PRE\_TRANSCRIPTION\_EVENTS



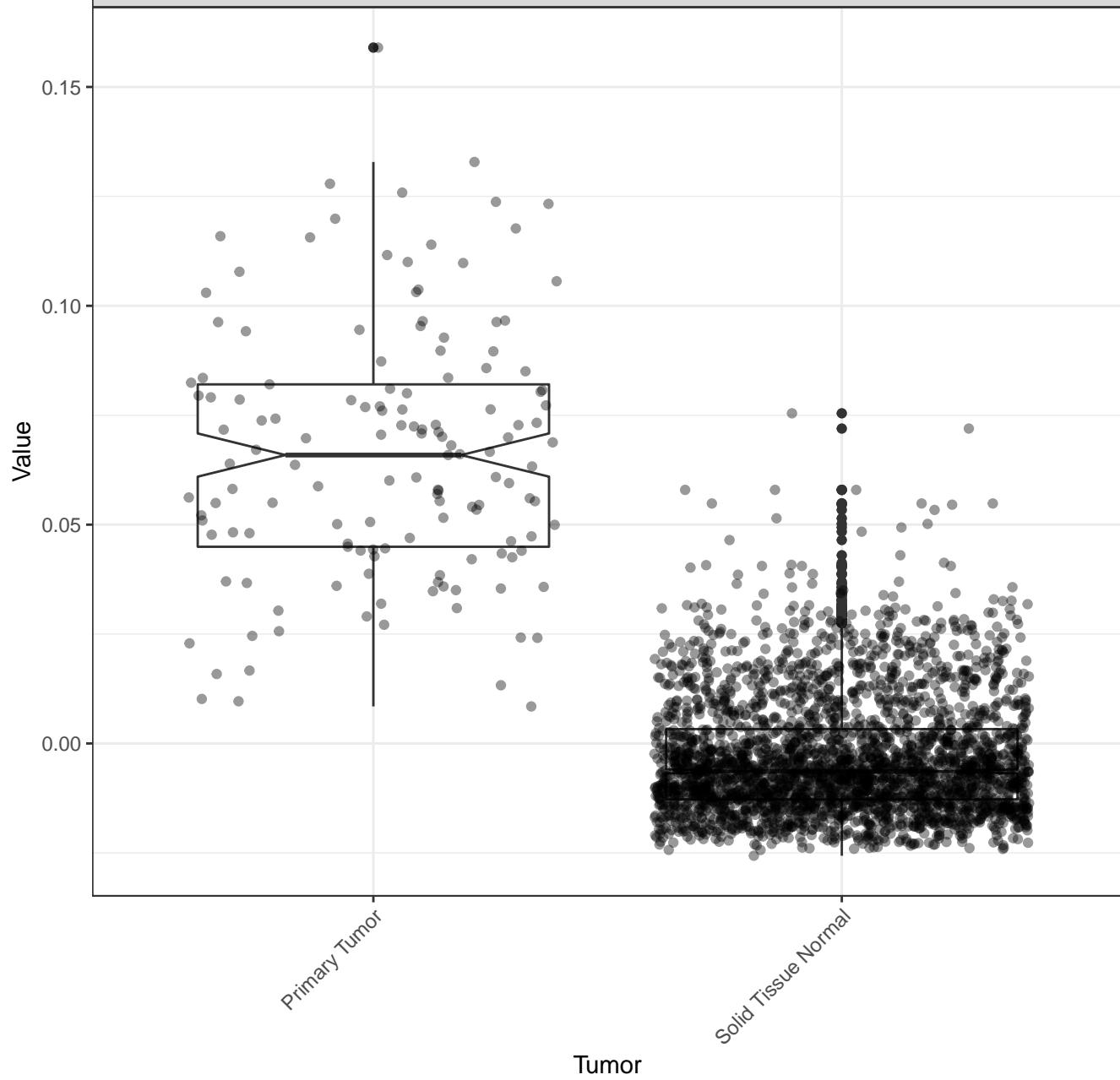
# 87,REACTOME\_L1CAM\_INTERACTIONS



## 88,REACTOME\_MUSCLE\_CONTRACTION



## 89,PID\_BMPPATHWAY



LV 90

Value

0.10

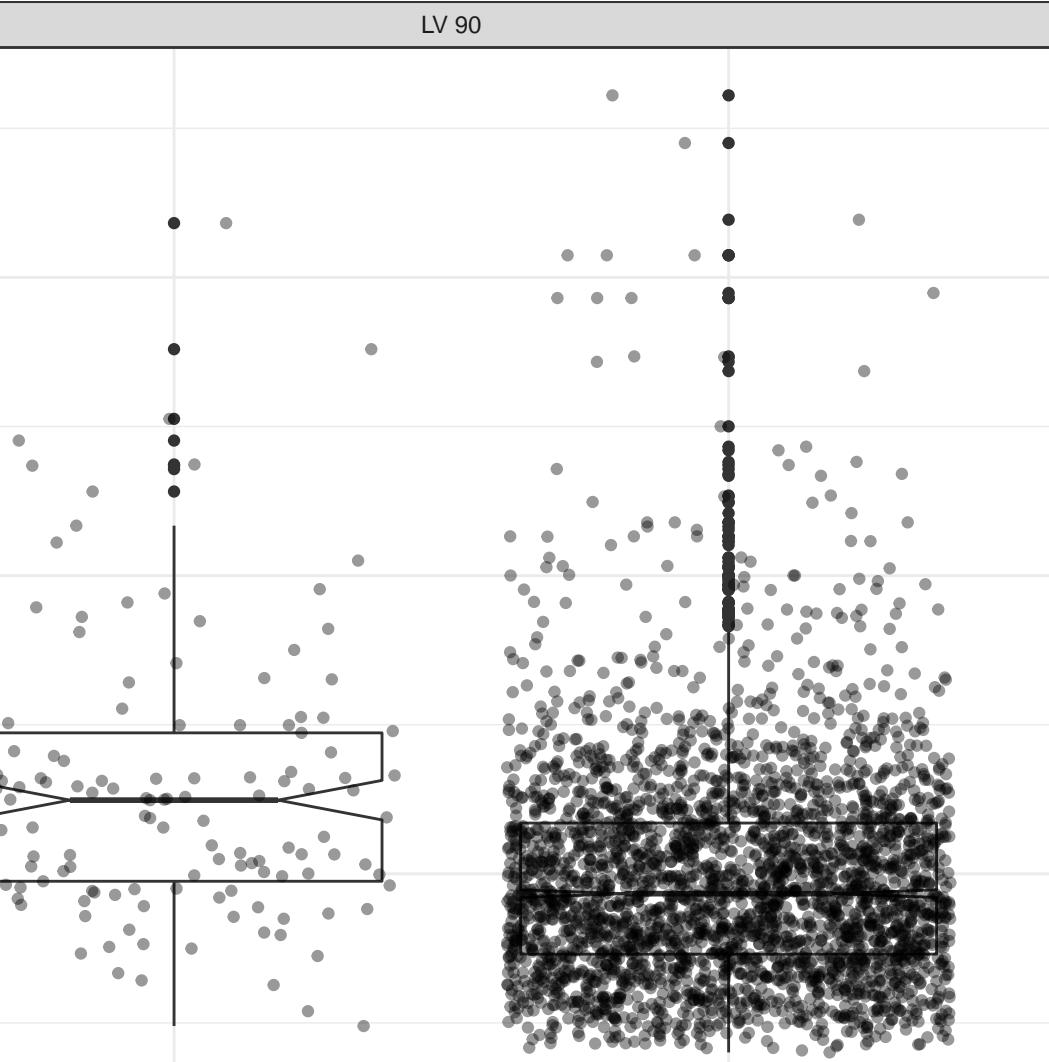
0.05

0.00

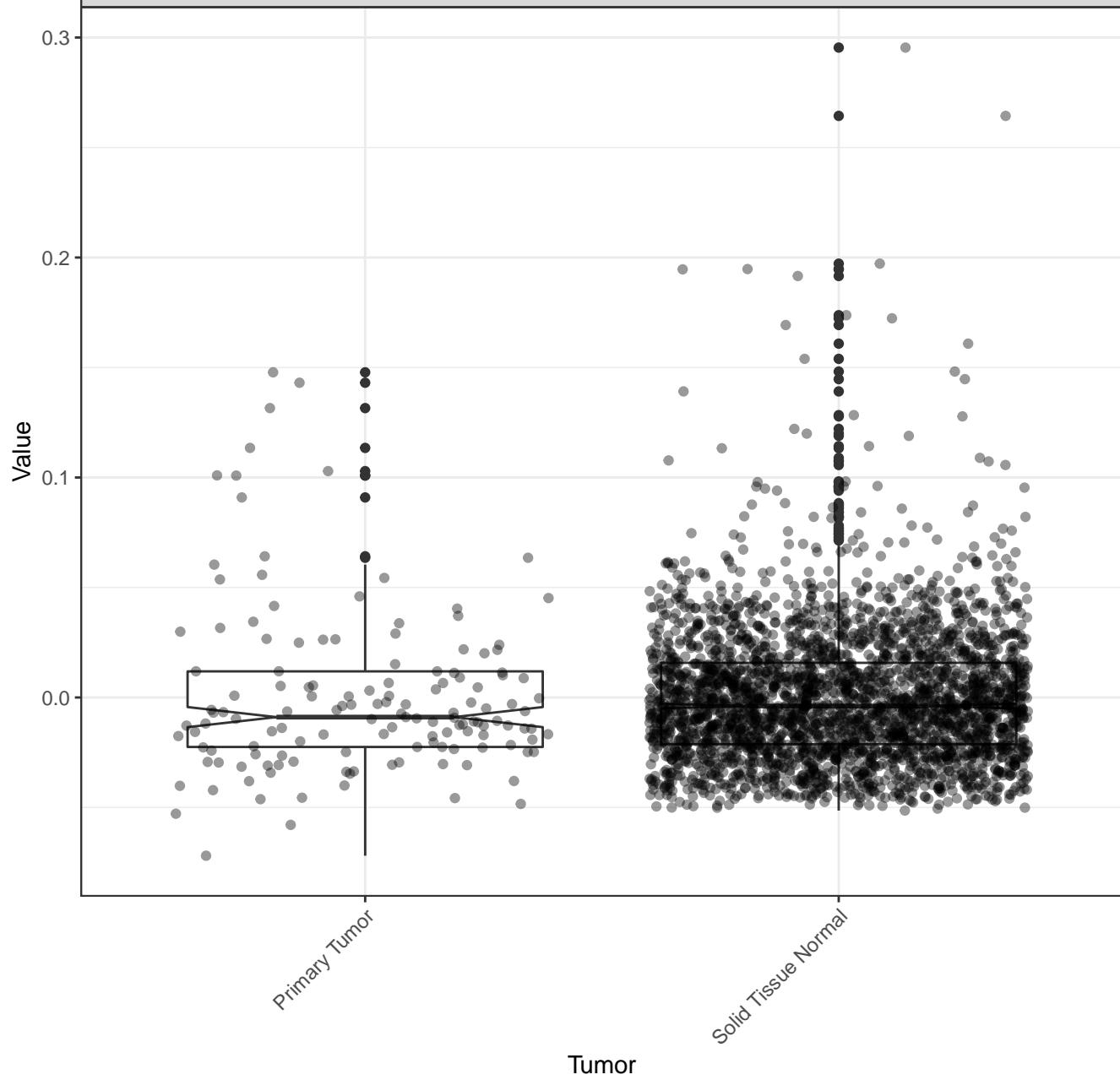
Primary Tumor

Solid Tissue Normal

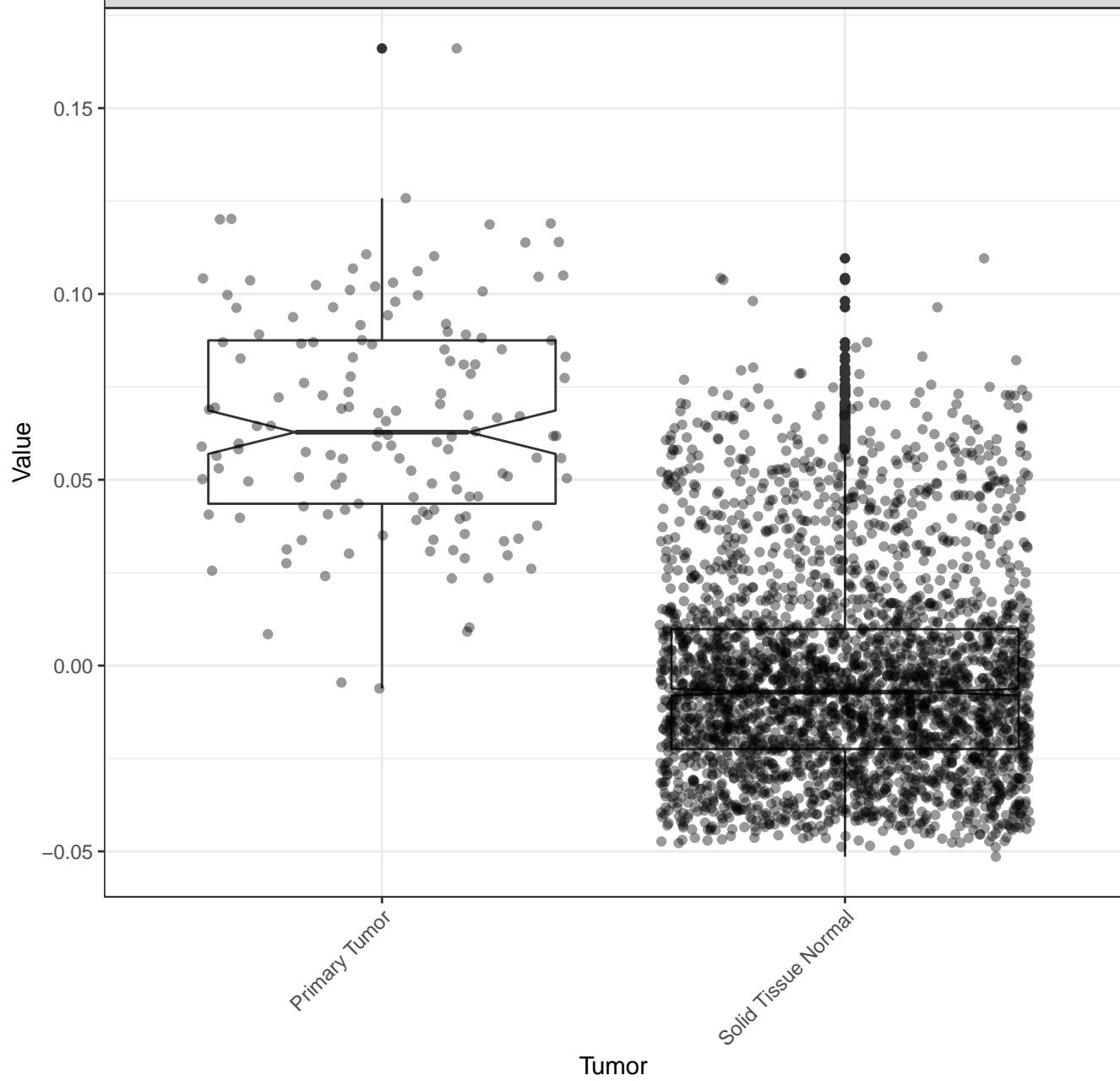
Tumor



# 91,KEGG\_PYRUVATE\_METABOLISM



## 92,REACTOME\_METABOLISM\_OF\_PROTEINS



## 93,REACTOME\_SRP\_DEPENDENT\_COTRANSLATIONAL\_PROTEIN\_TARGETING\_TO\_MEMBRANE

Value

0.2

0.1

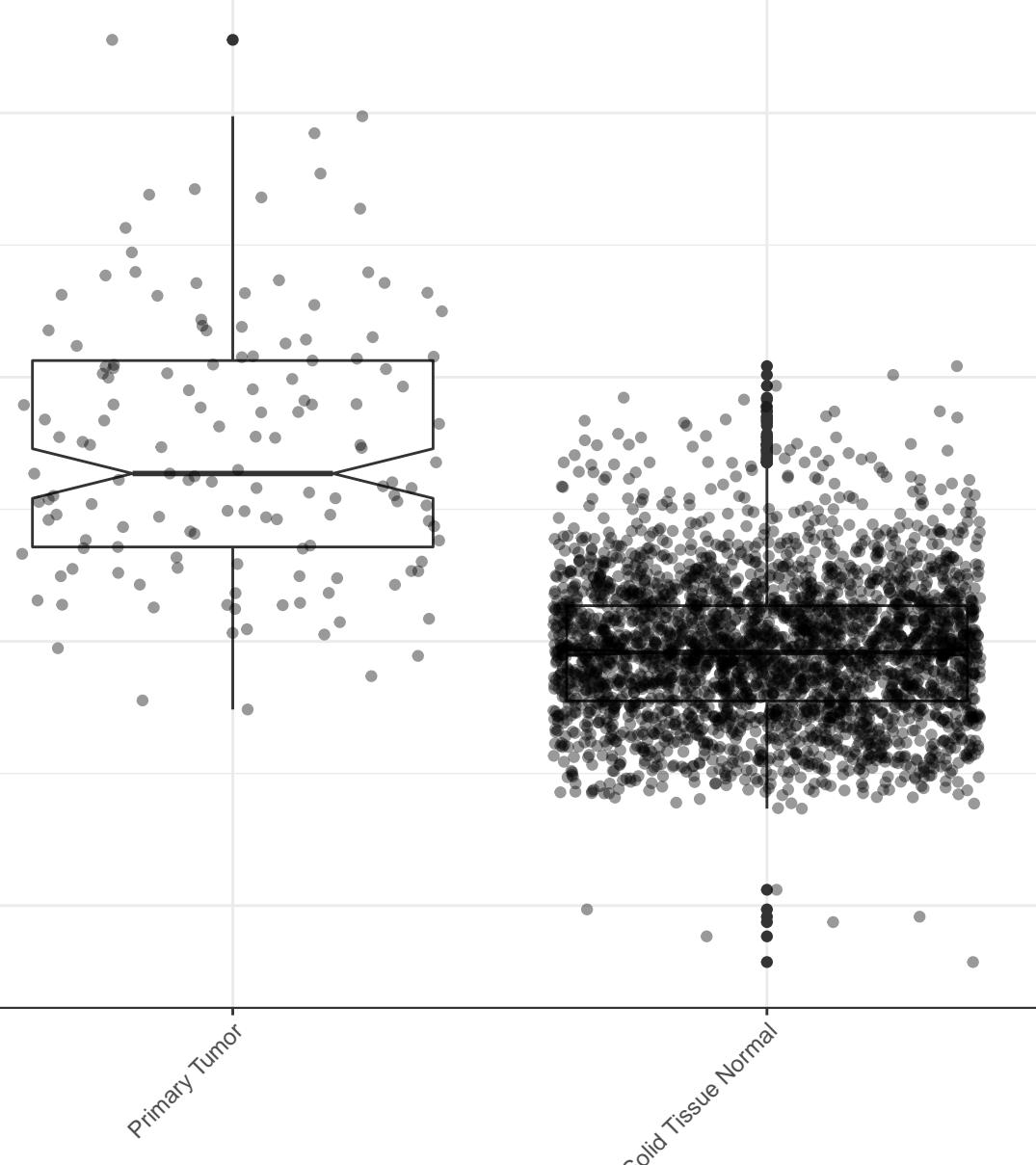
0.0

-0.1

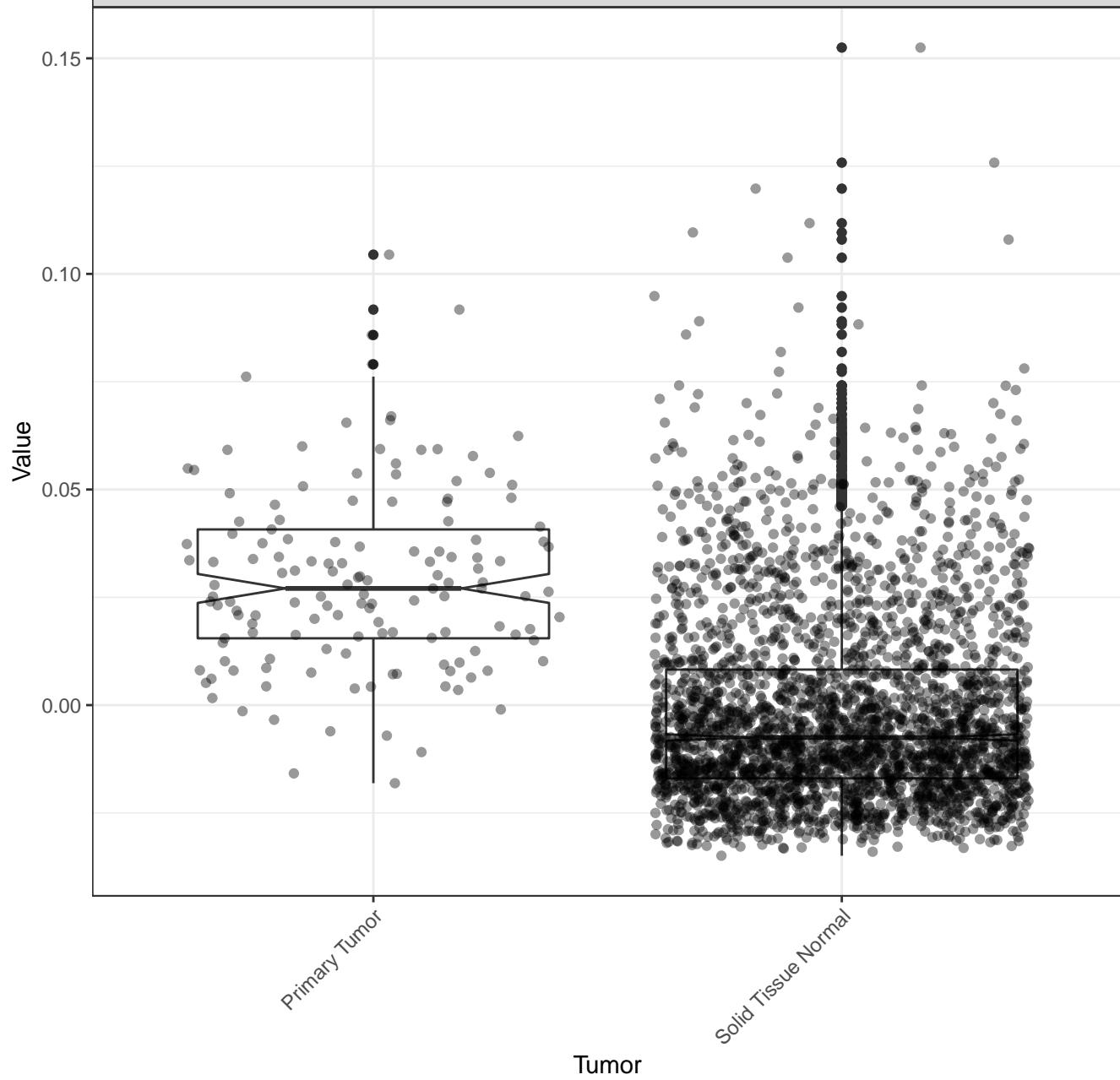
Primary Tumor

Tumor

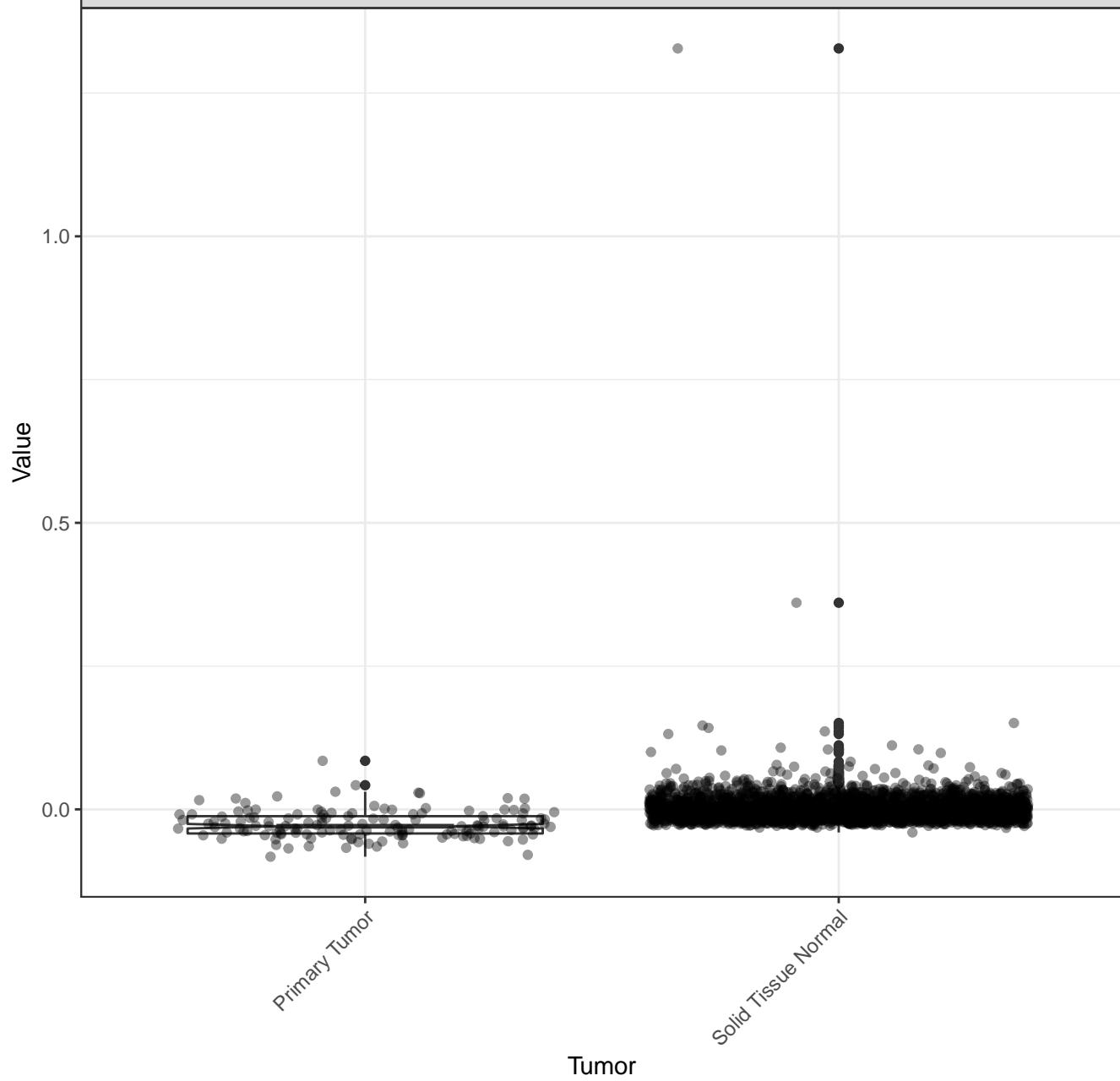
Solid Tissue Normal



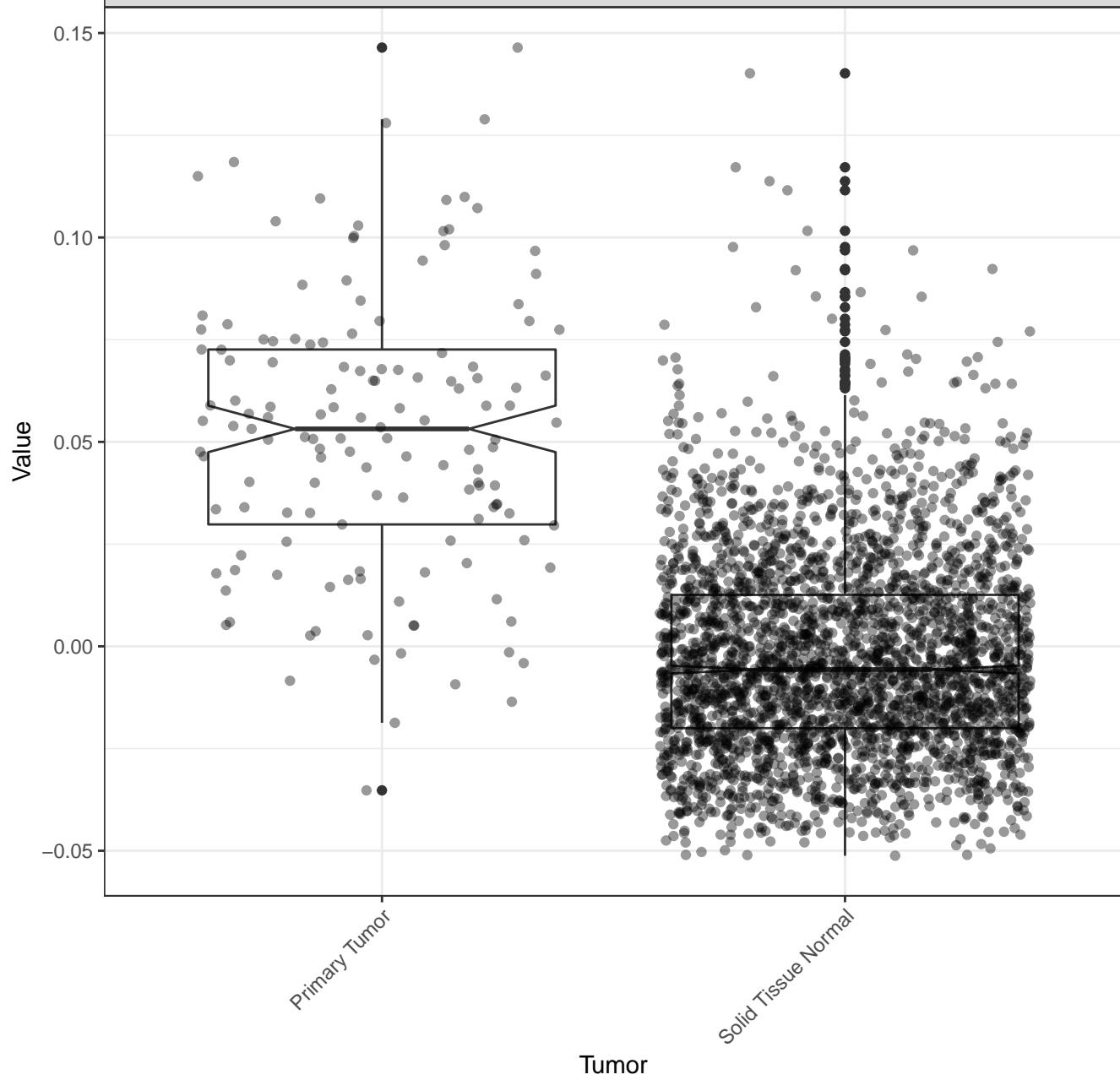
# 94,REACTOME\_MITOTIC\_M\_M\_G1\_PHASES



# 95,PID\_DELTA\_NP63PATHWAY



# 96,PID\_AVB3\_INTEGRIN\_PATHWAY



## 97,PID\_DELTA\_NP63\_PATHWAY

Value

0.3

0.2

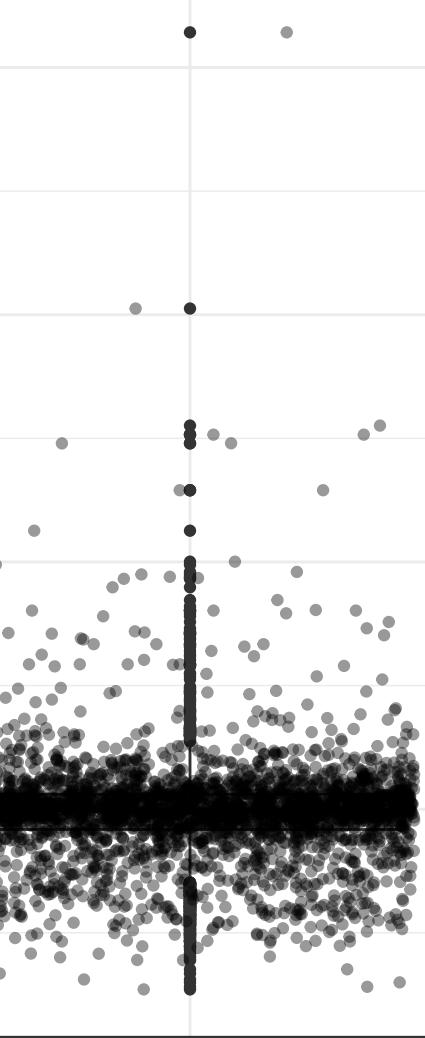
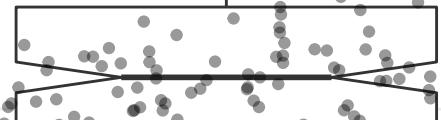
0.1

0.0

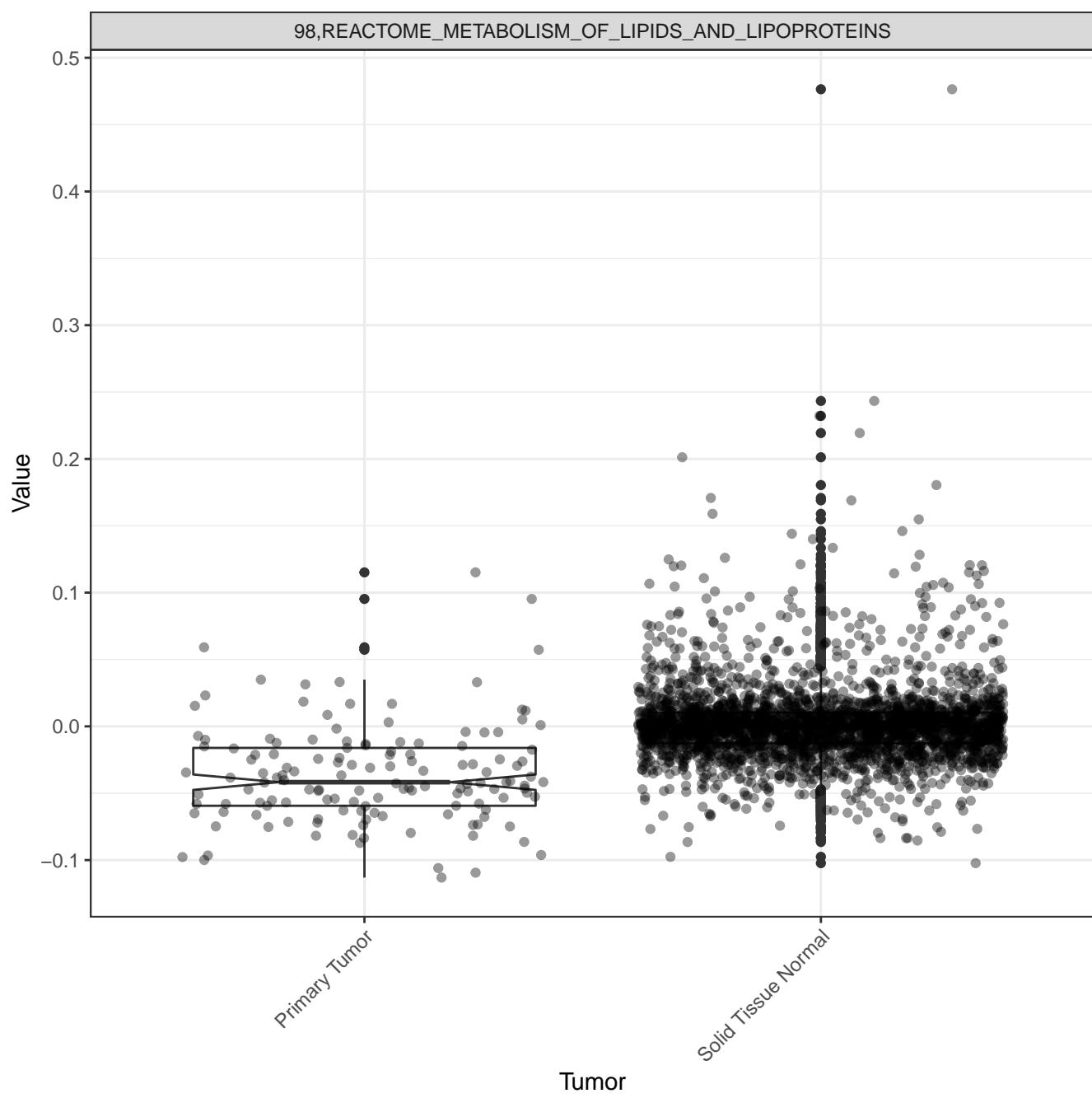
Primary Tumor

Solid Tissue Normal

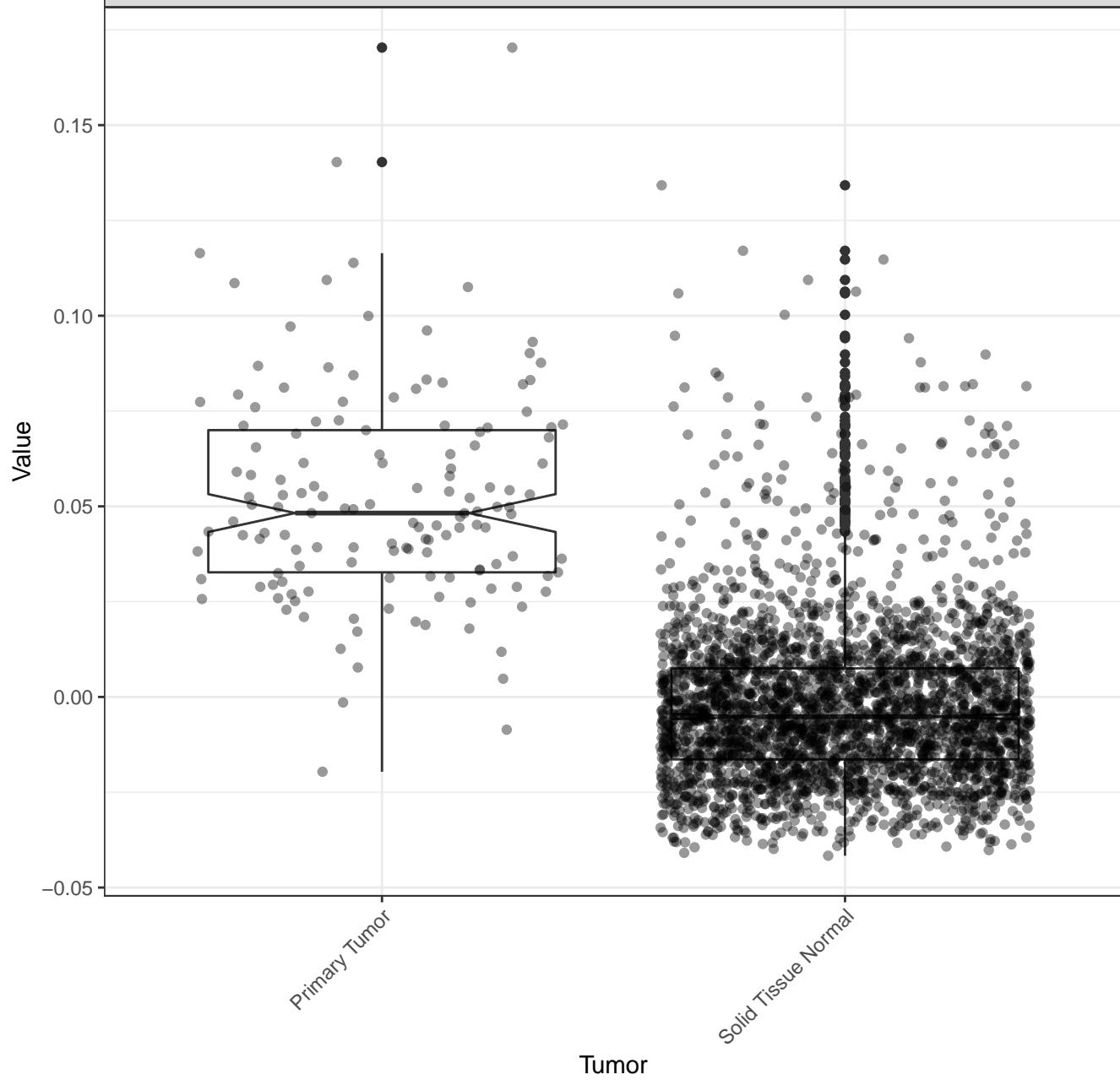
Tumor



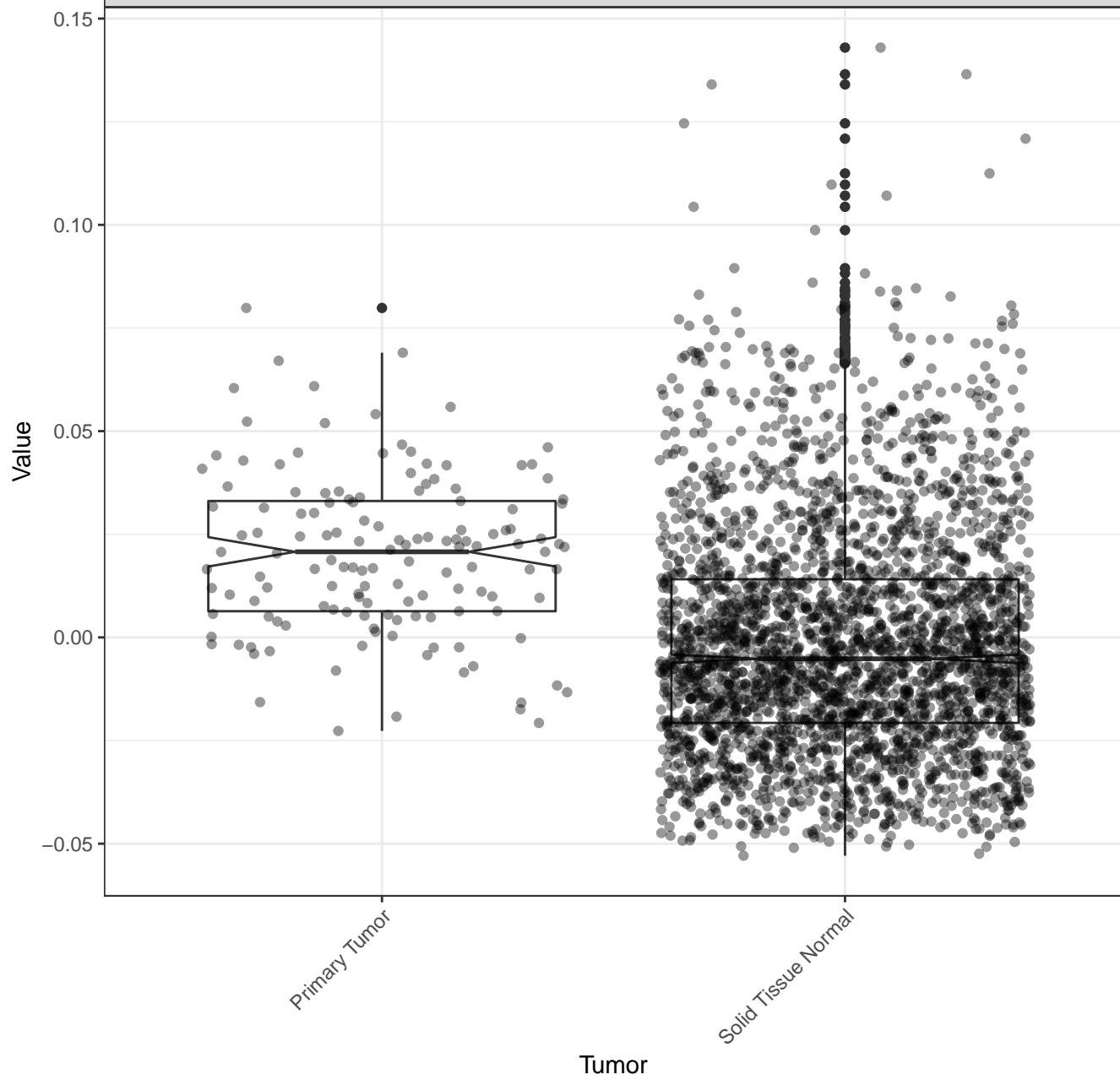
# 98,REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS



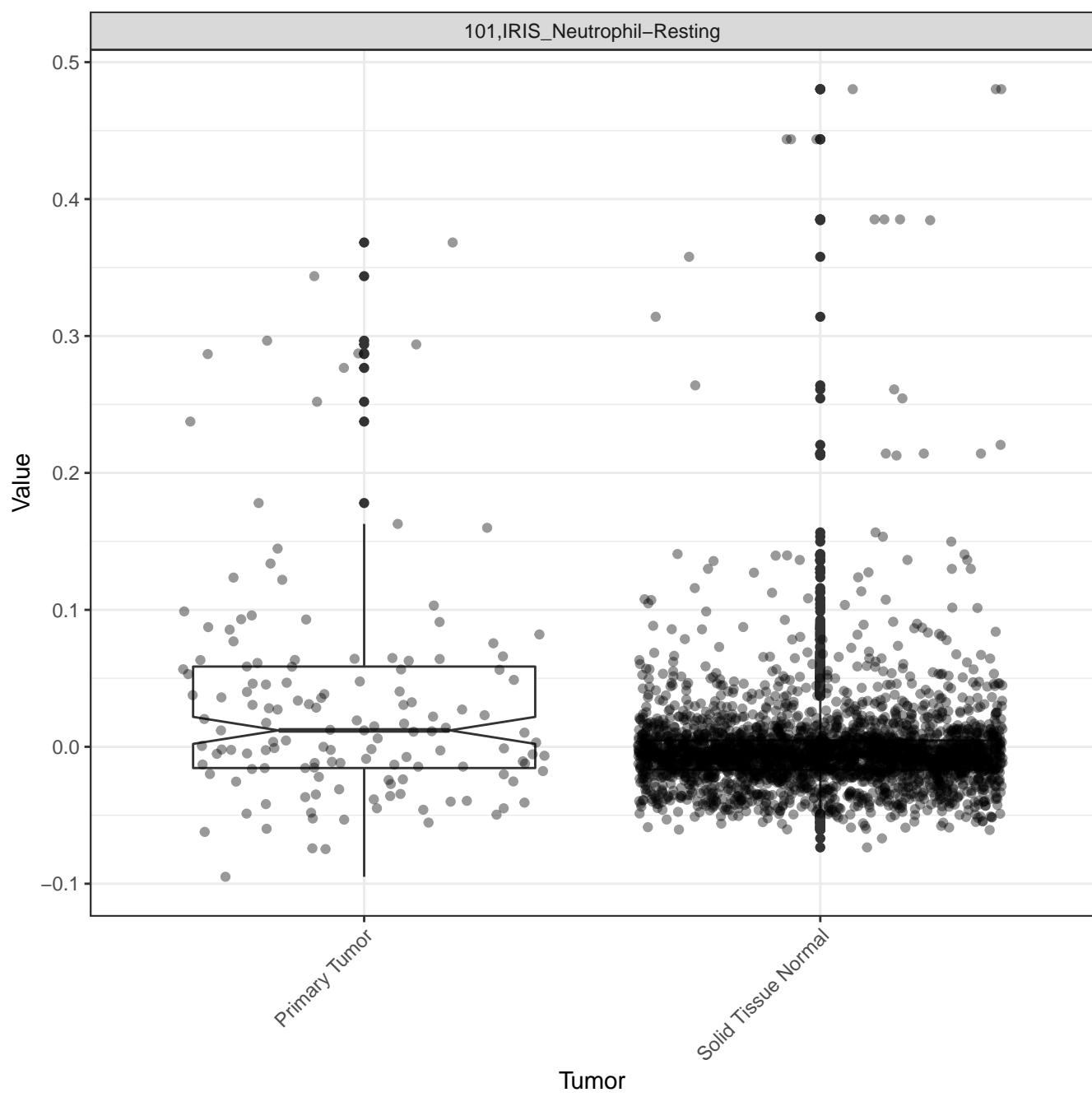
## 99,PID\_AURORA\_A\_PATHWAY



# 100,KEGG\_RIG\_I\_LIKE\_RECEPтор\_SIGNALING\_PATHWAY



## 101,IRIS\_Neutrophil–Resting



# 102,REACTOME\_METABOLISM\_OF\_CARBOHYDRATES

Value

0.2

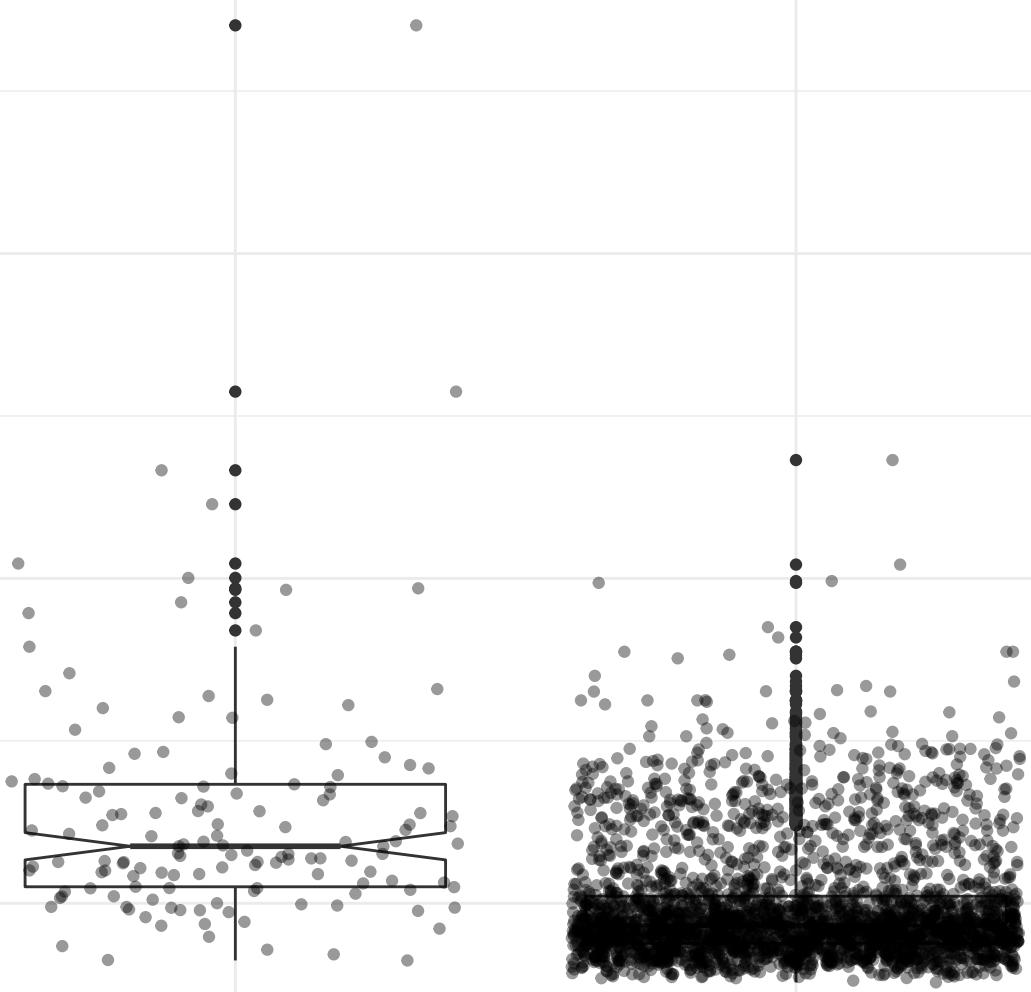
0.1

0.0

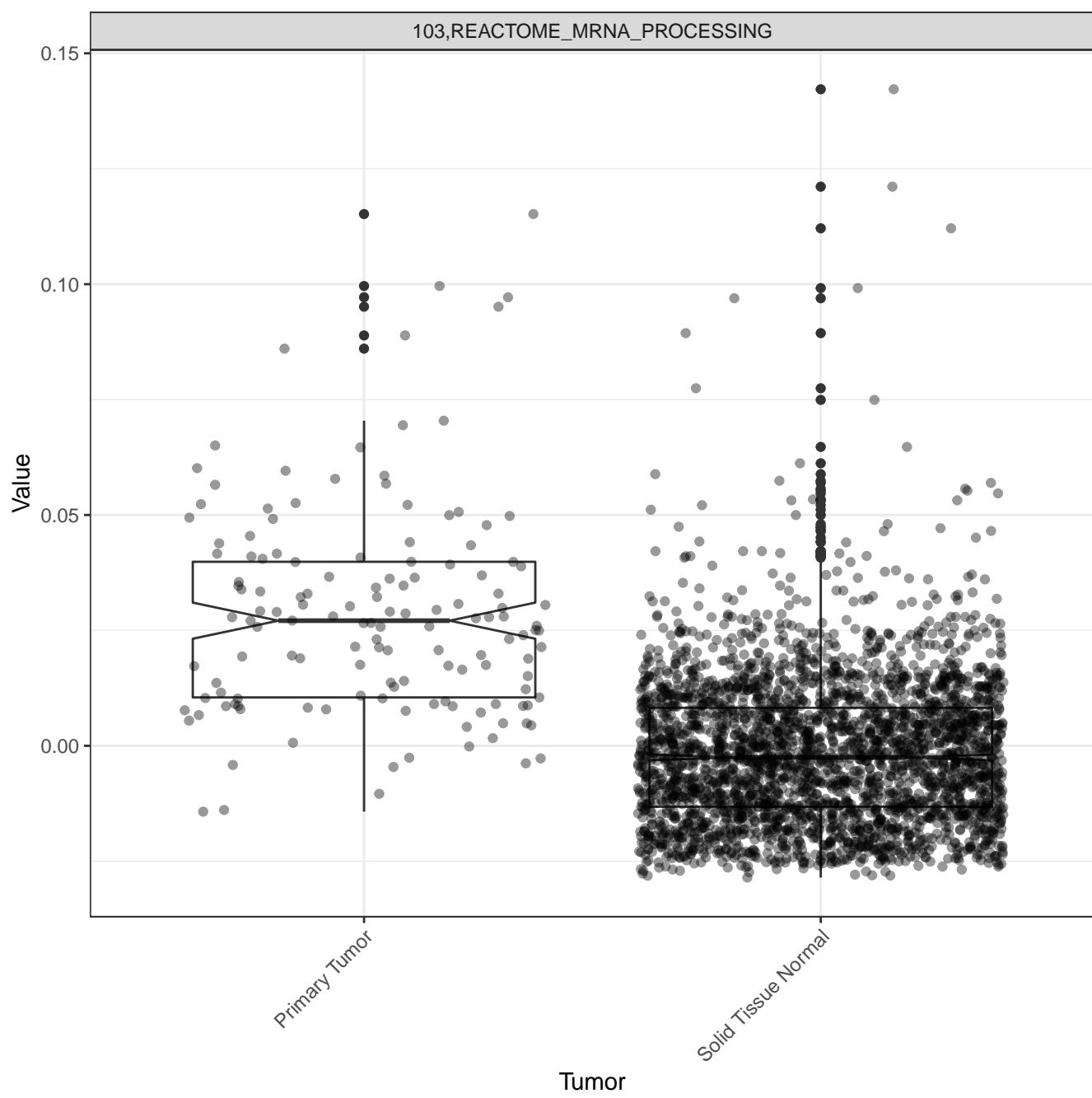
Primary Tumor

Solid Tissue Normal

Tumor



# 103,REACTOME\_MRNA\_PROCESSING



# 104,SVM Mast cells resting

Value

0.3

0.2

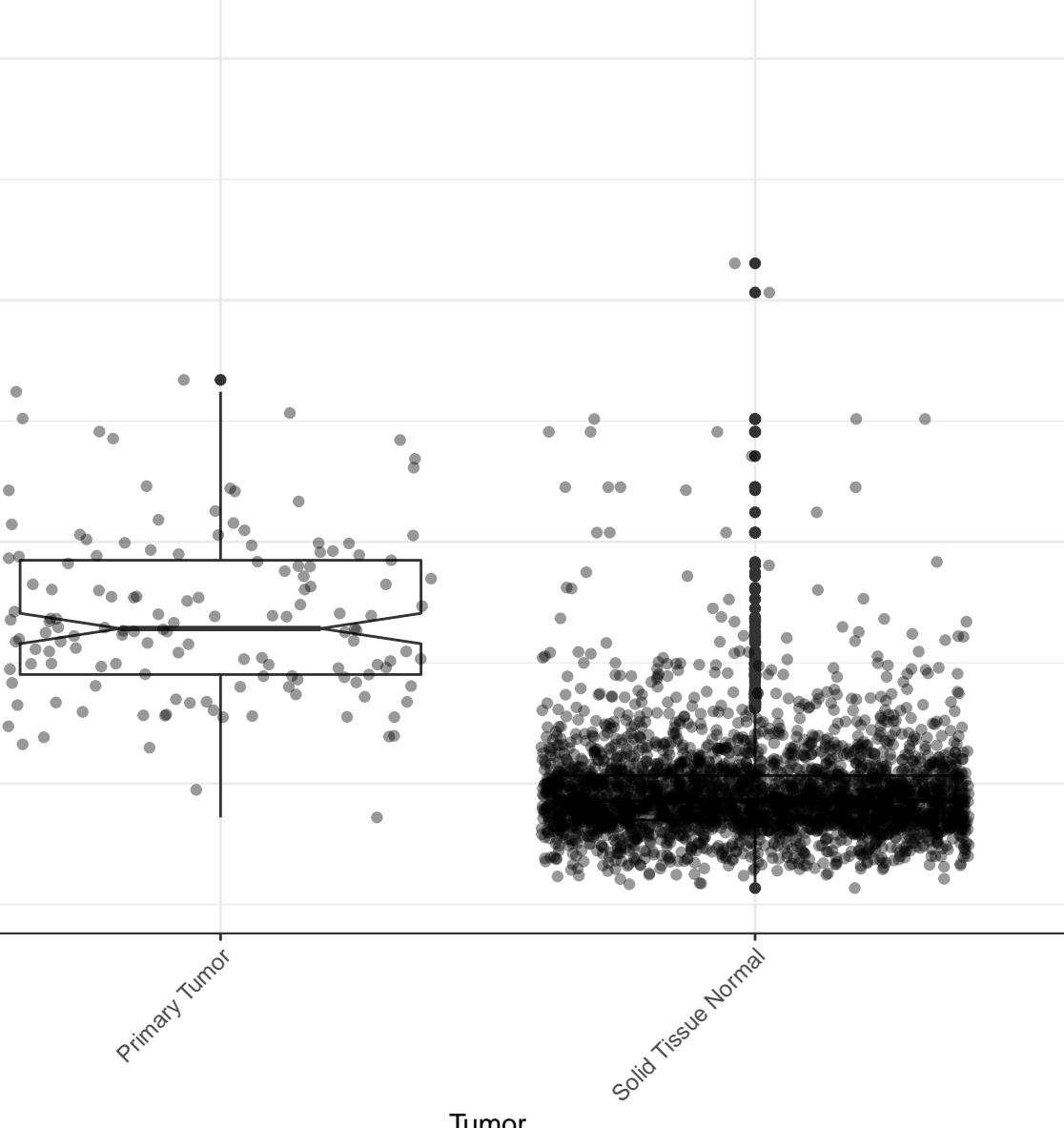
0.1

0.0

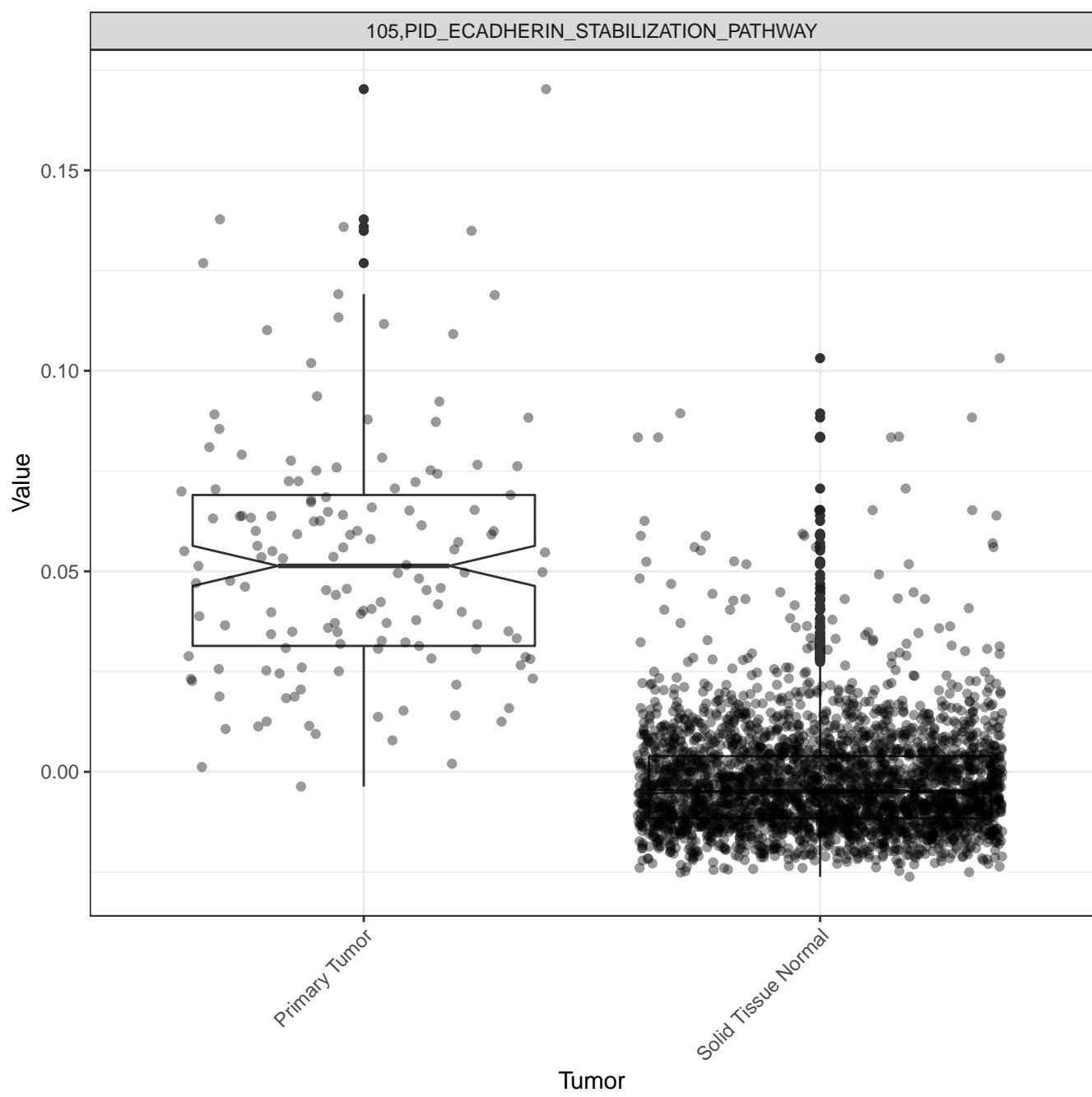
Primary Tumor

Solid Tissue Normal

Tumor

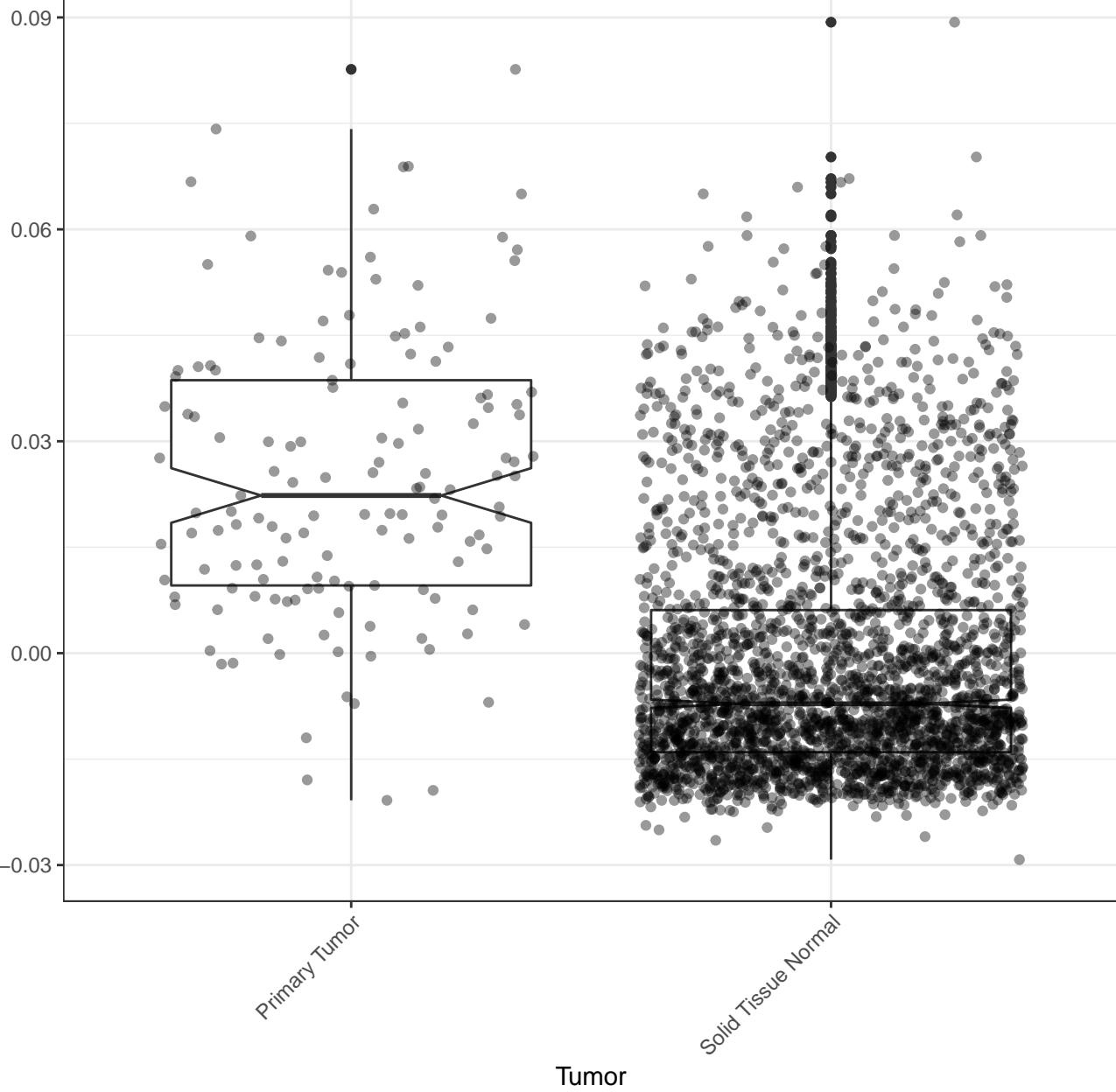


# 105,PID\_ECADHERIN\_STABILIZATION\_PATHWAY

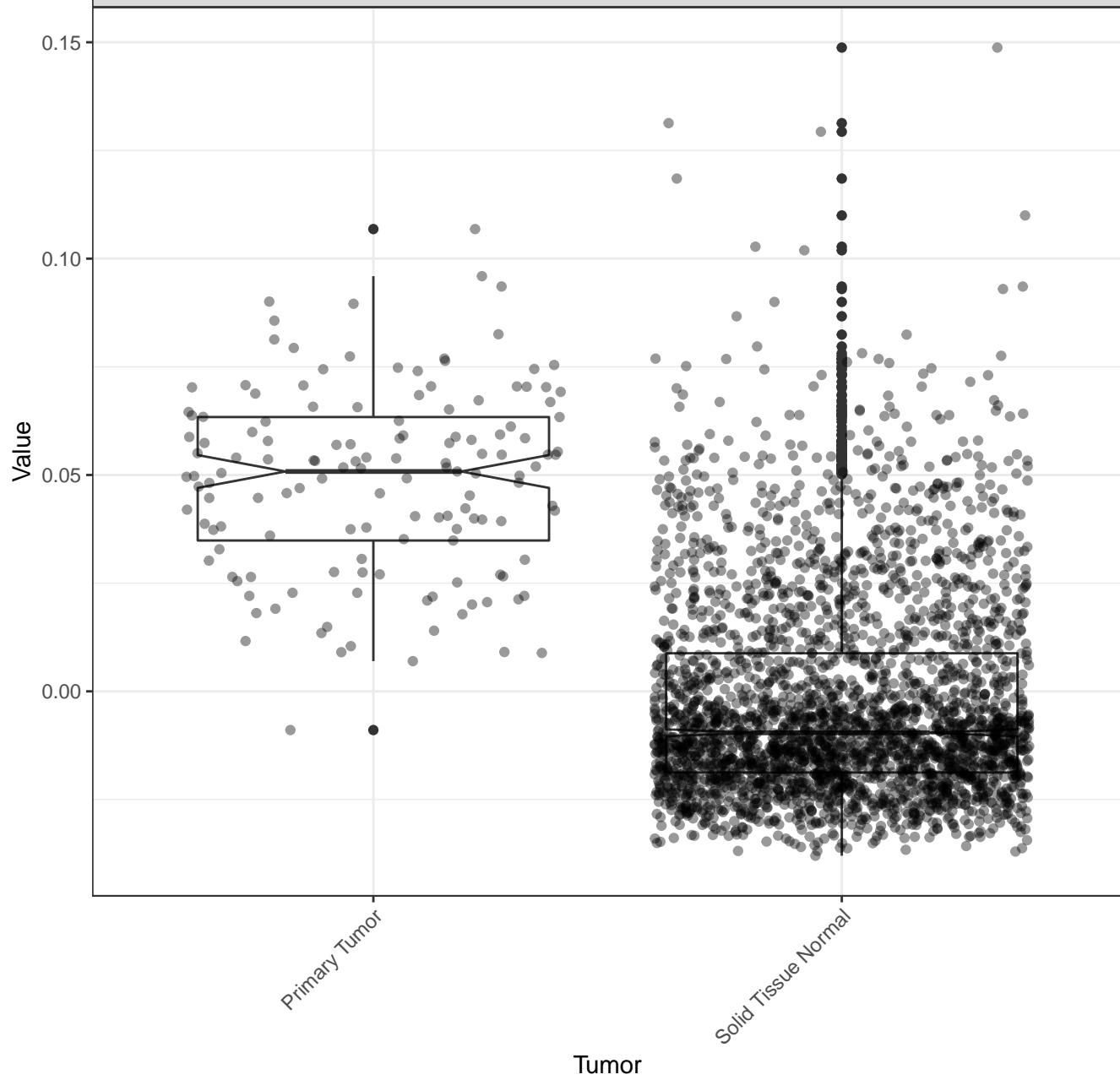


# 106,REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH

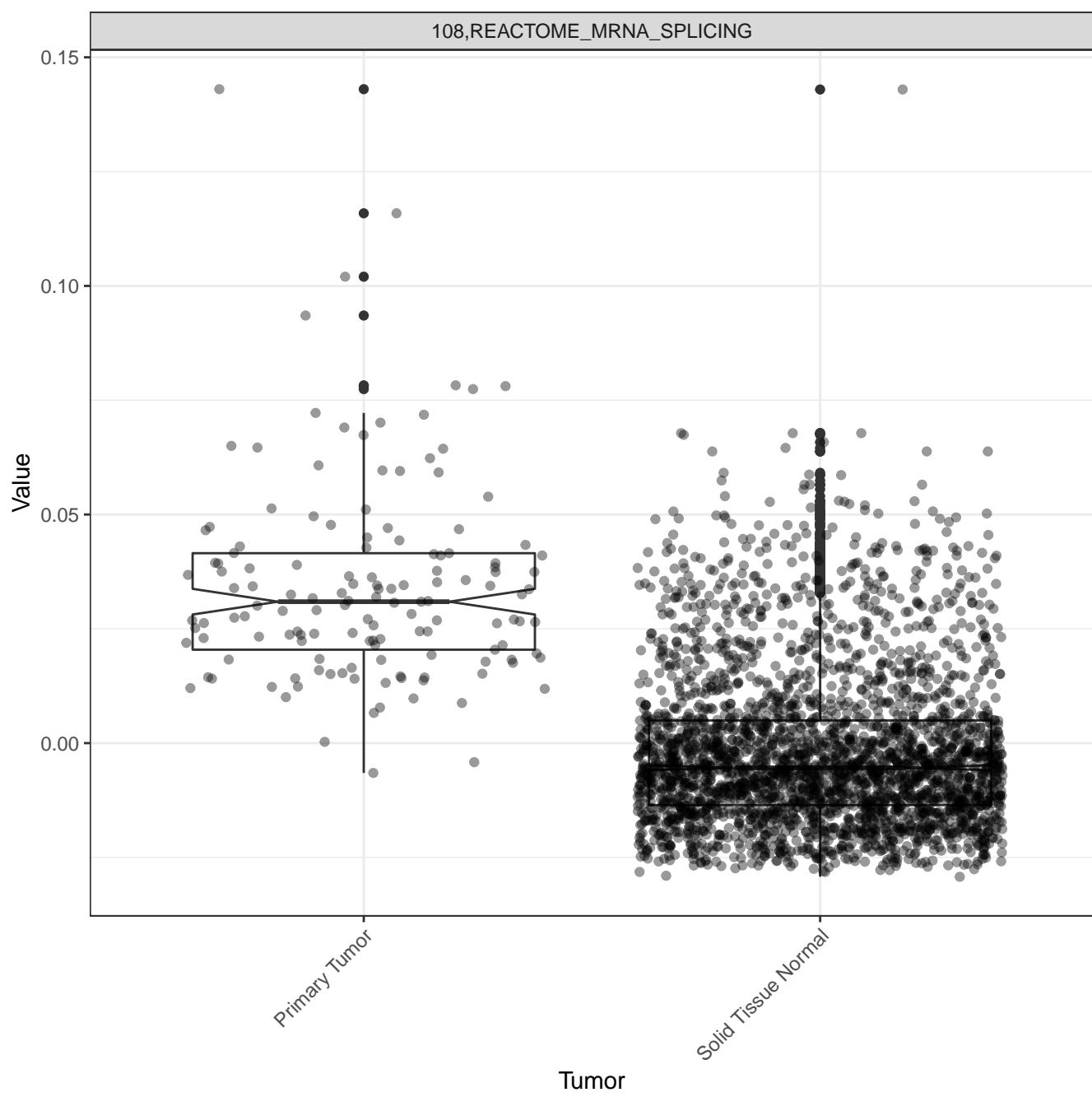
Value



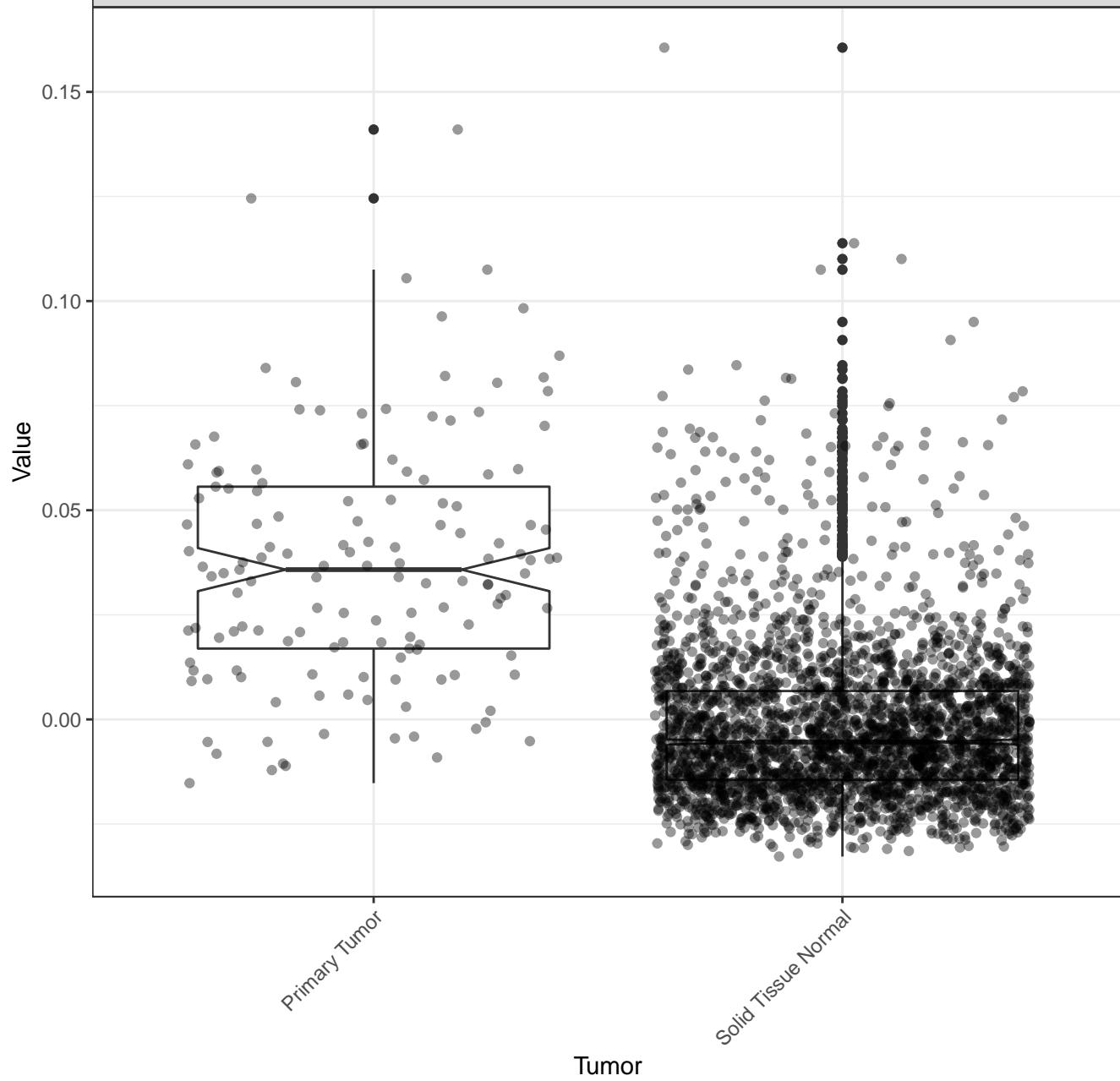
107,REACTOME\_SR\_P\_DEPENDENT\_COTRANSLATIONAL\_PROTEIN\_TARGETING\_TO\_MEMBRANE



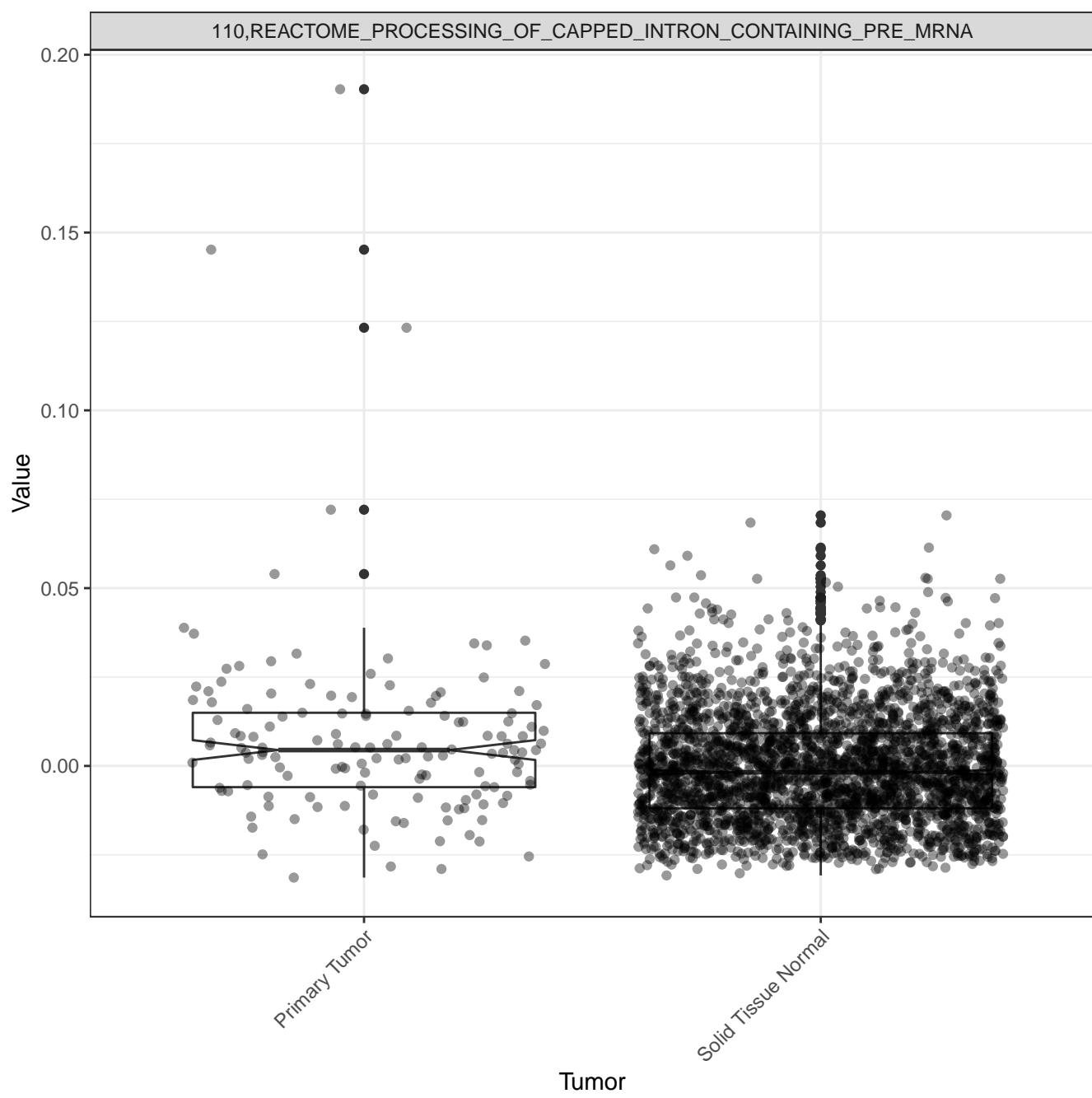
108,REACTOME\_MRNA\_SPLICING



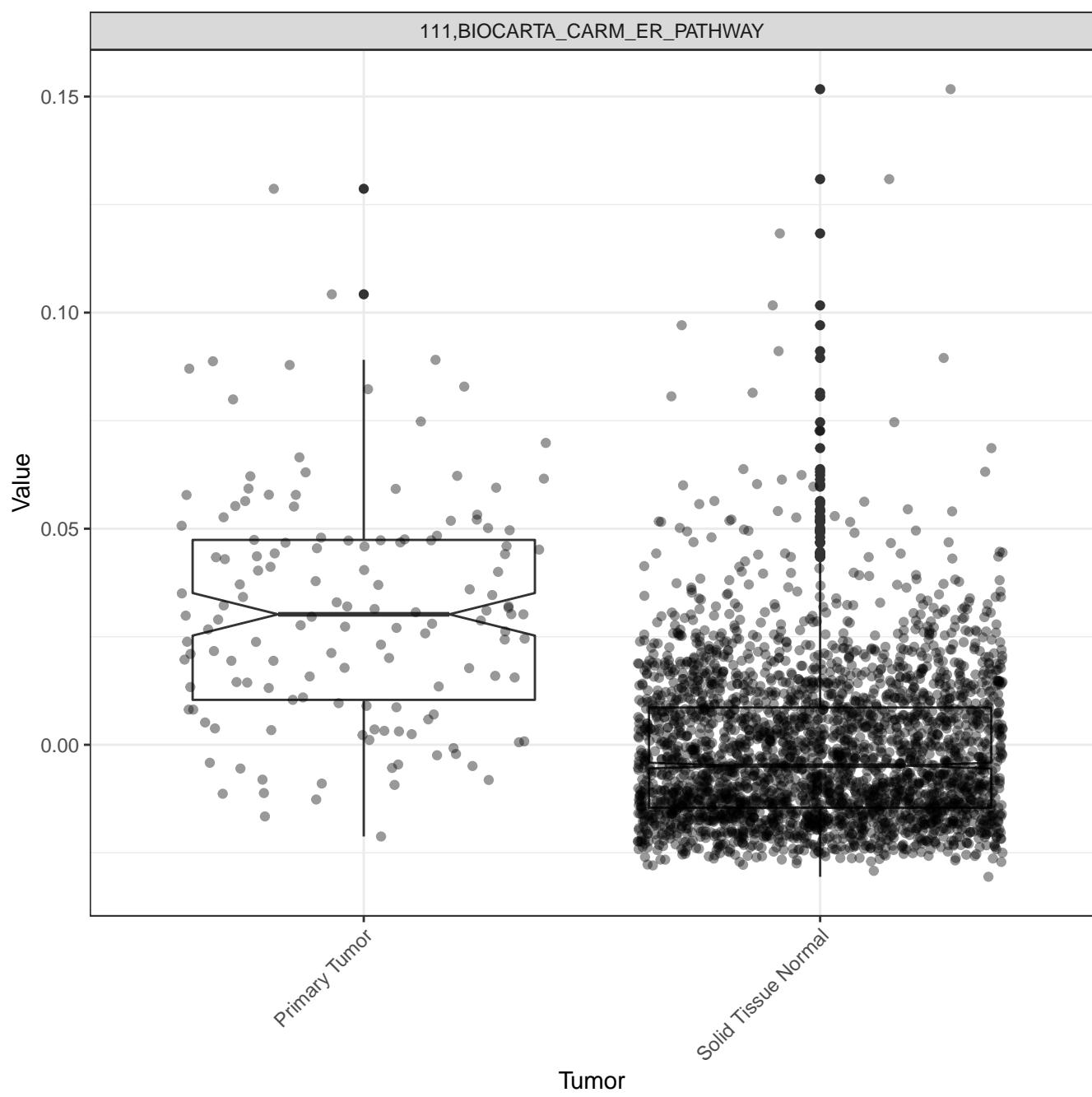
## 109,BIOCARTA\_KERATINOCTYE\_PATHWAY



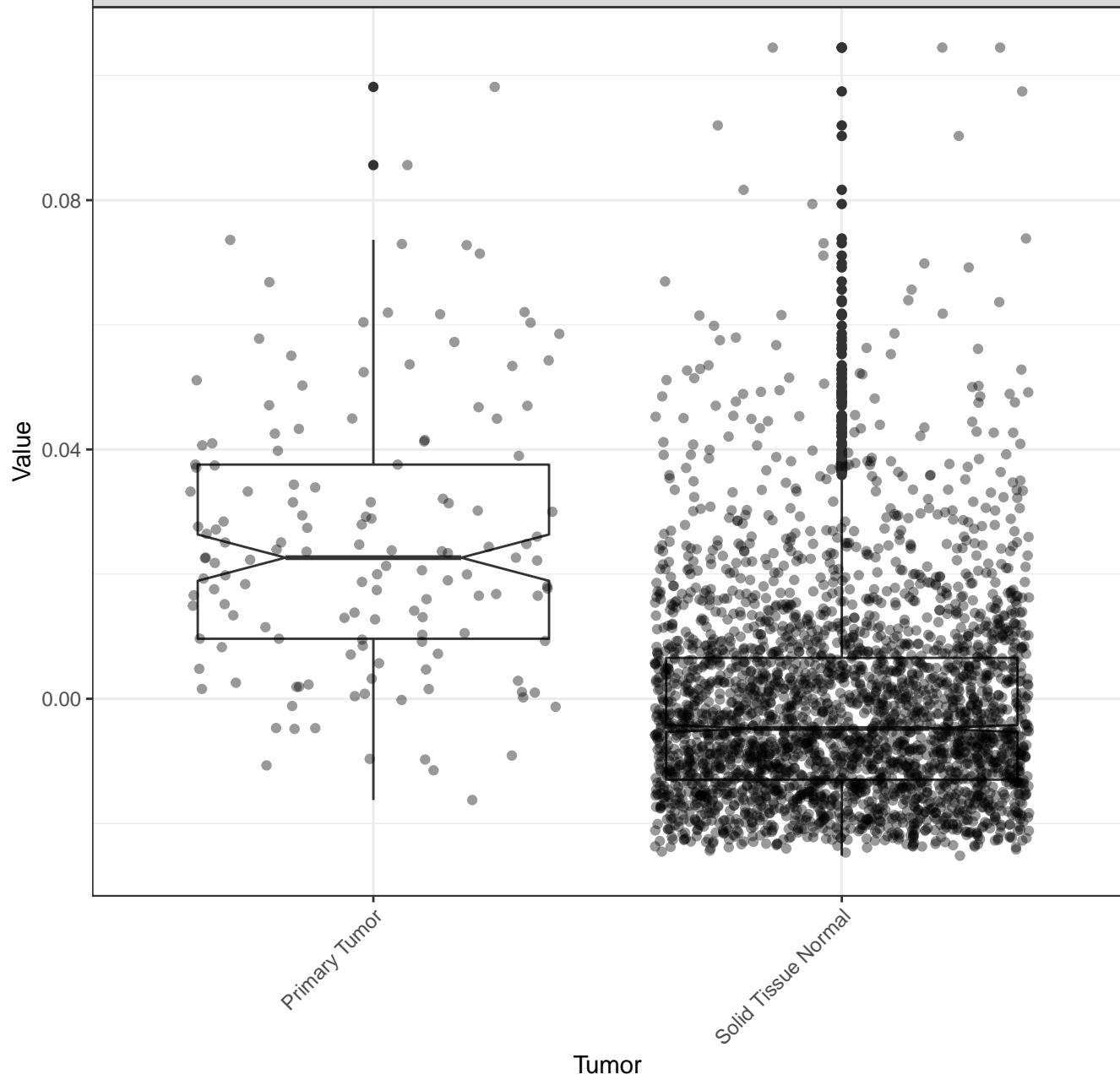
## 110,REACTOME\_PROCESSING\_OF\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA



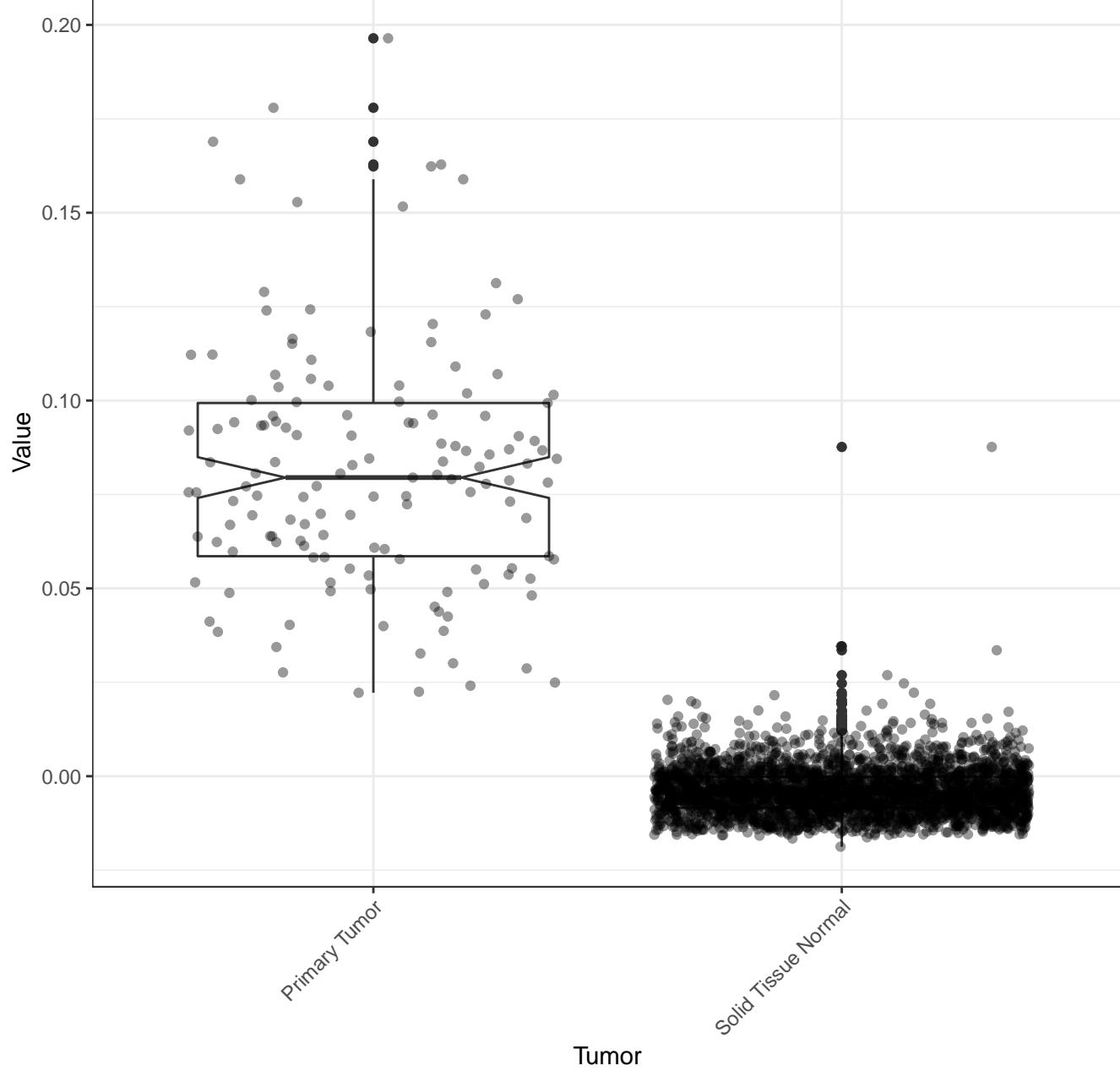
# 111,BIOCARTA\_CARM\_ER\_PATHWAY



# 112,REACTOME\_P75\_NTR\_RECEPтор\_MEDIATED\_SIGNALLING



# 113,REACTOME\_ACTIVATION\_OF\_ATR\_IN\_RESPONSE\_TO\_REPLICATION\_STRESS



# 114,REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

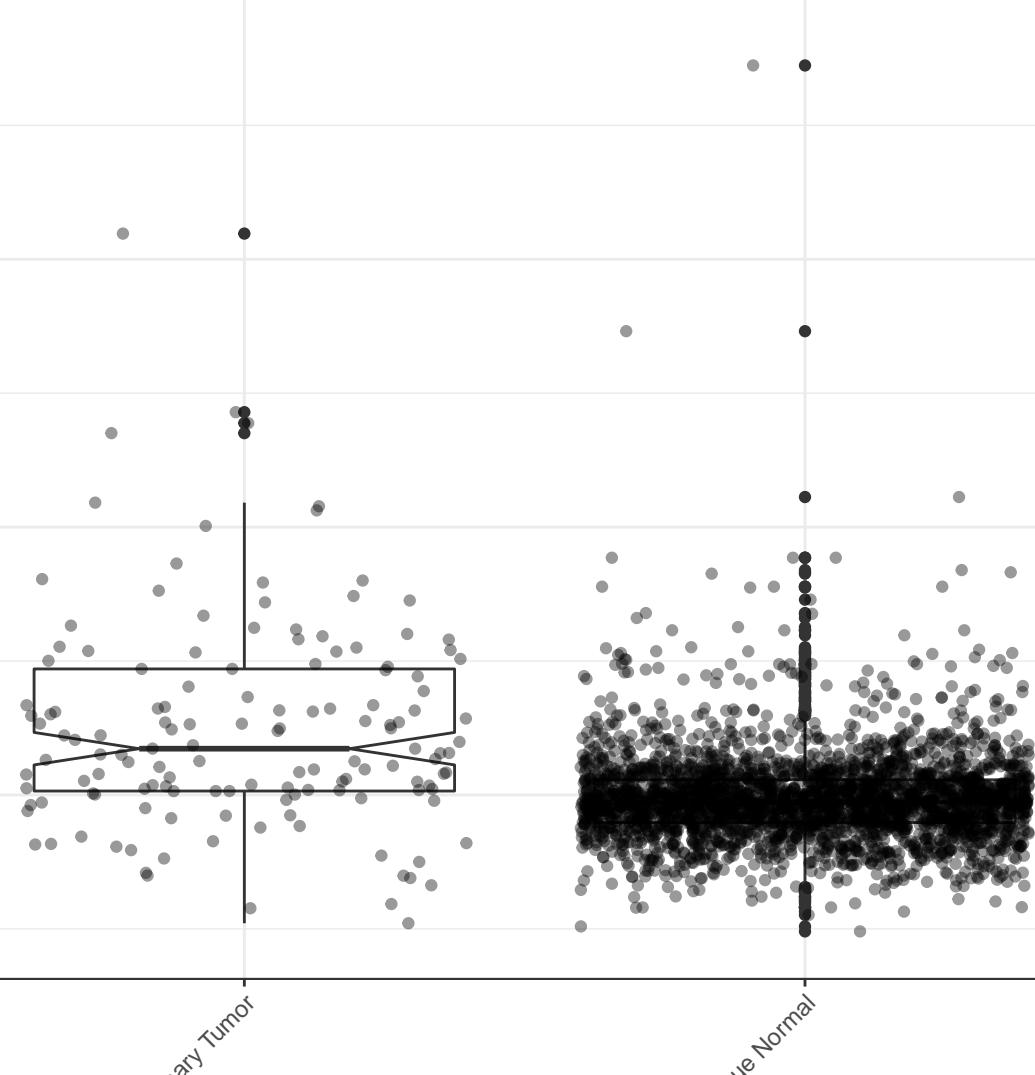
Value

0.3  
0.2  
0.1  
0.0

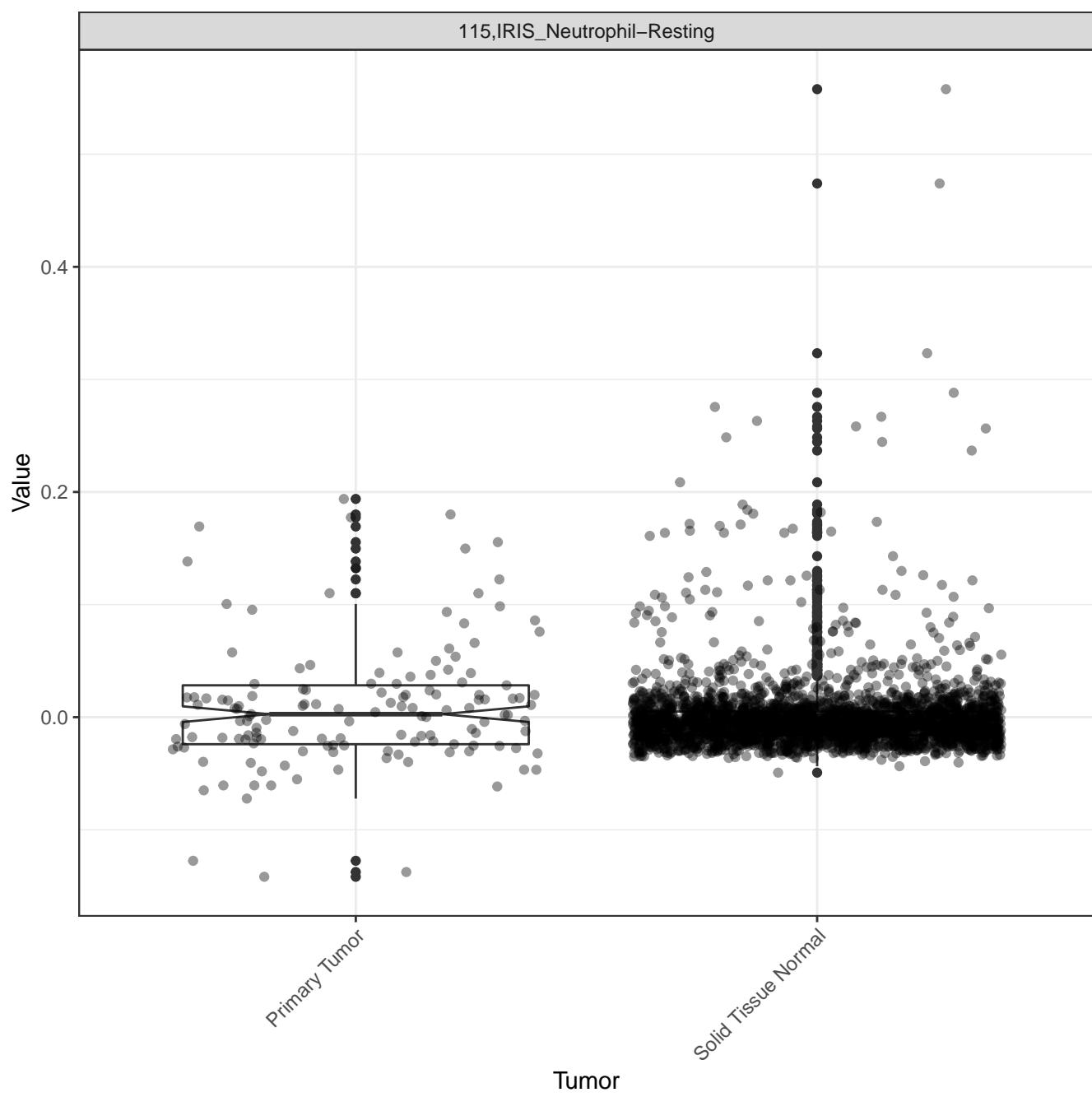
Primary Tumor

Solid Tissue Normal

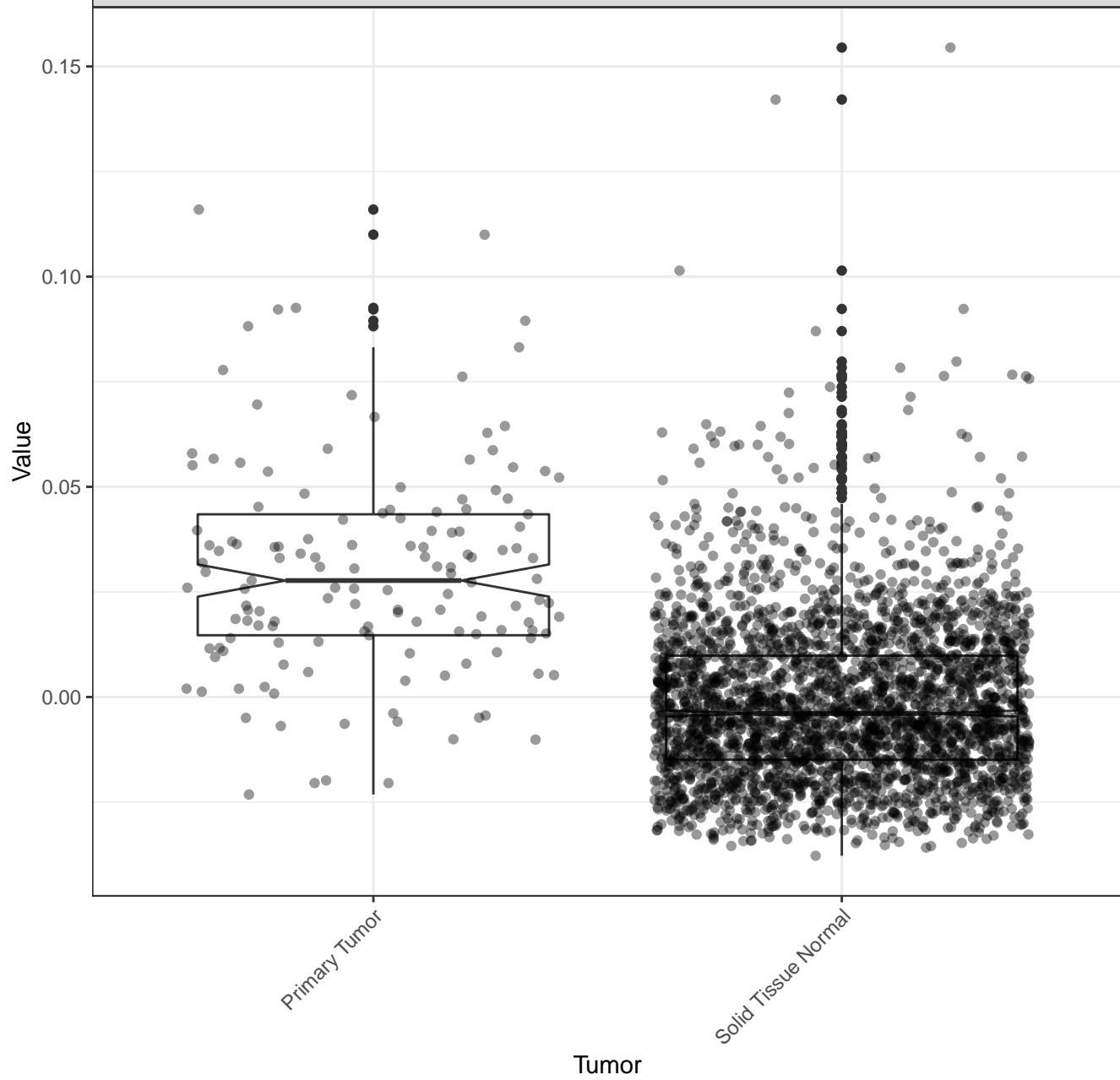
Tumor



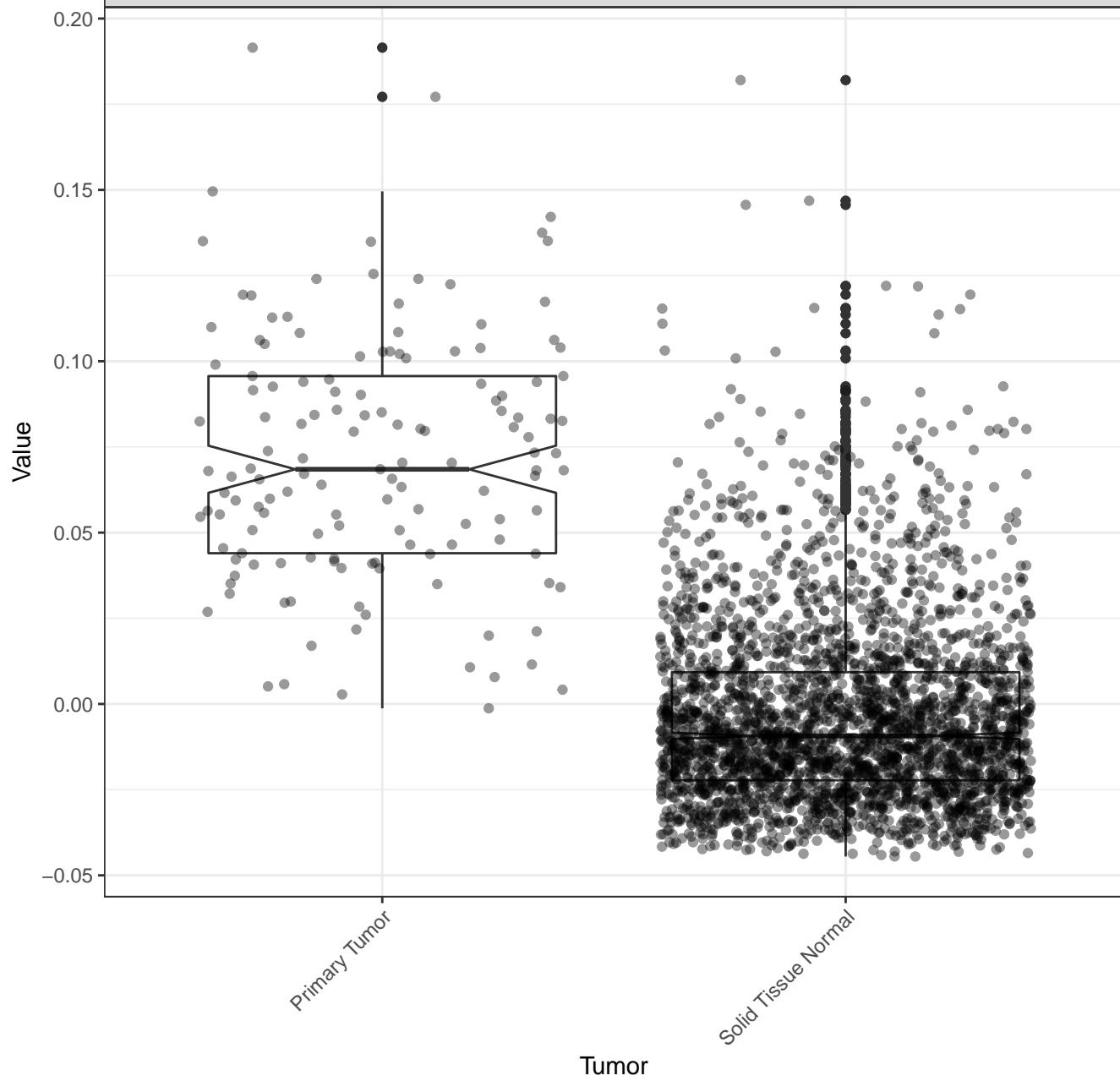
## 115,IRIS\_Neutrophil-Resting



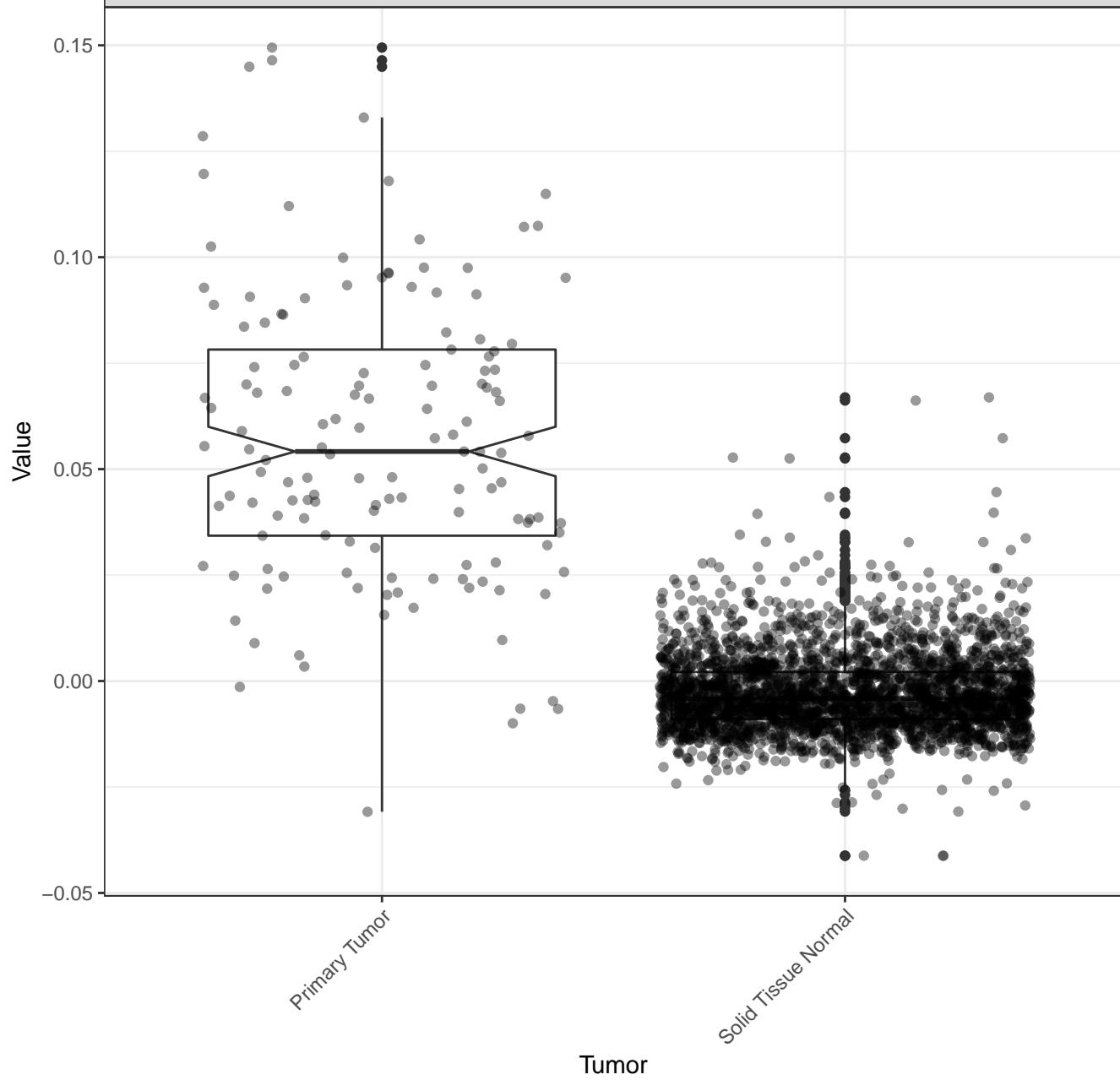
# 116,KEGG\_HEDGEHOG\_SIGNALING\_PATHWAY



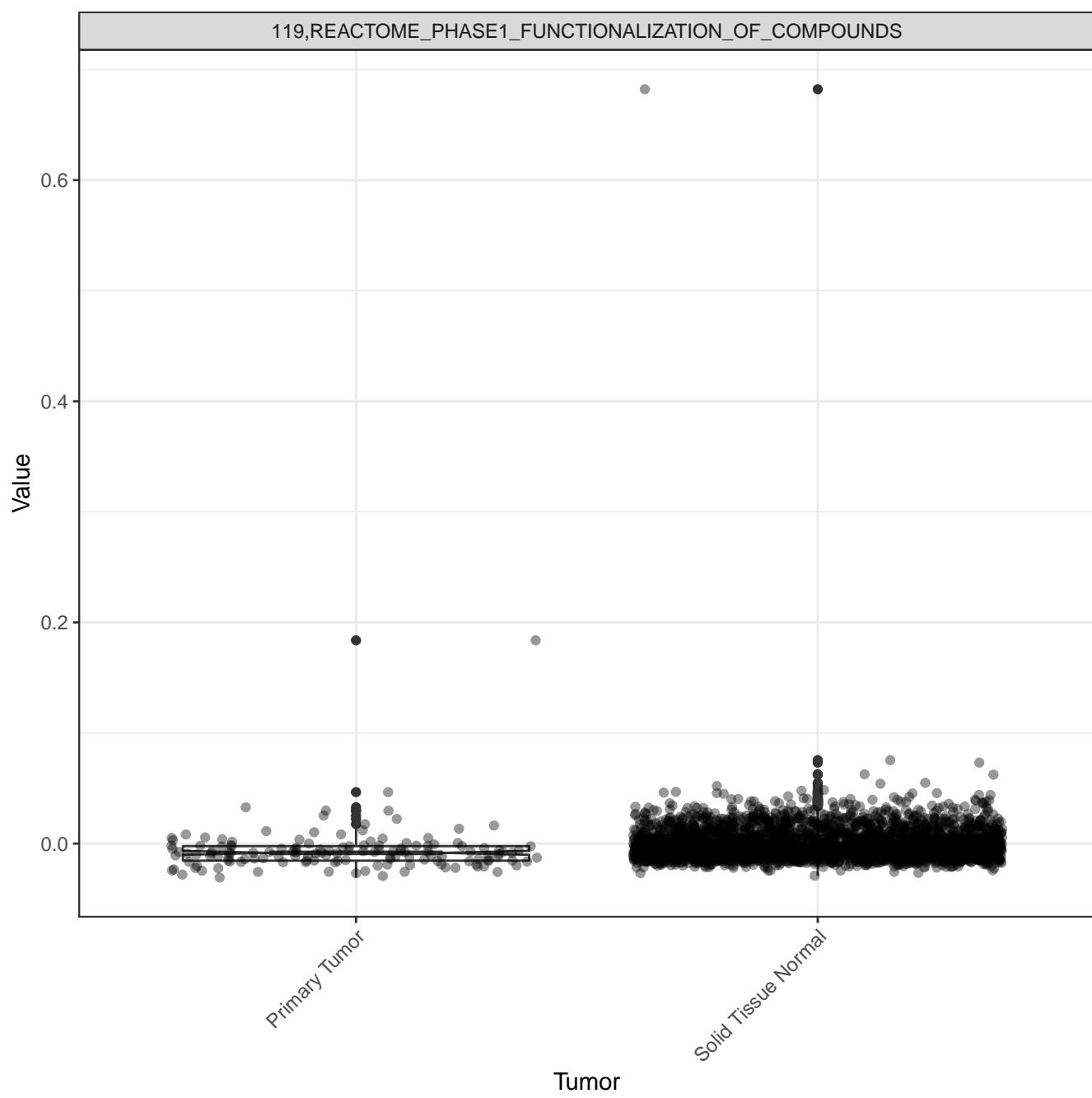
# 117,REACTOME\_PROCESSING\_OF\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA



# 118,PID\_FANCONI\_PATHWAY



119,REACTOME\_PHASE1\_FUNCTIONALIZATION\_OF\_COMPOUNDS



## 120,KEGG\_PARKINSONS\_DISEASE

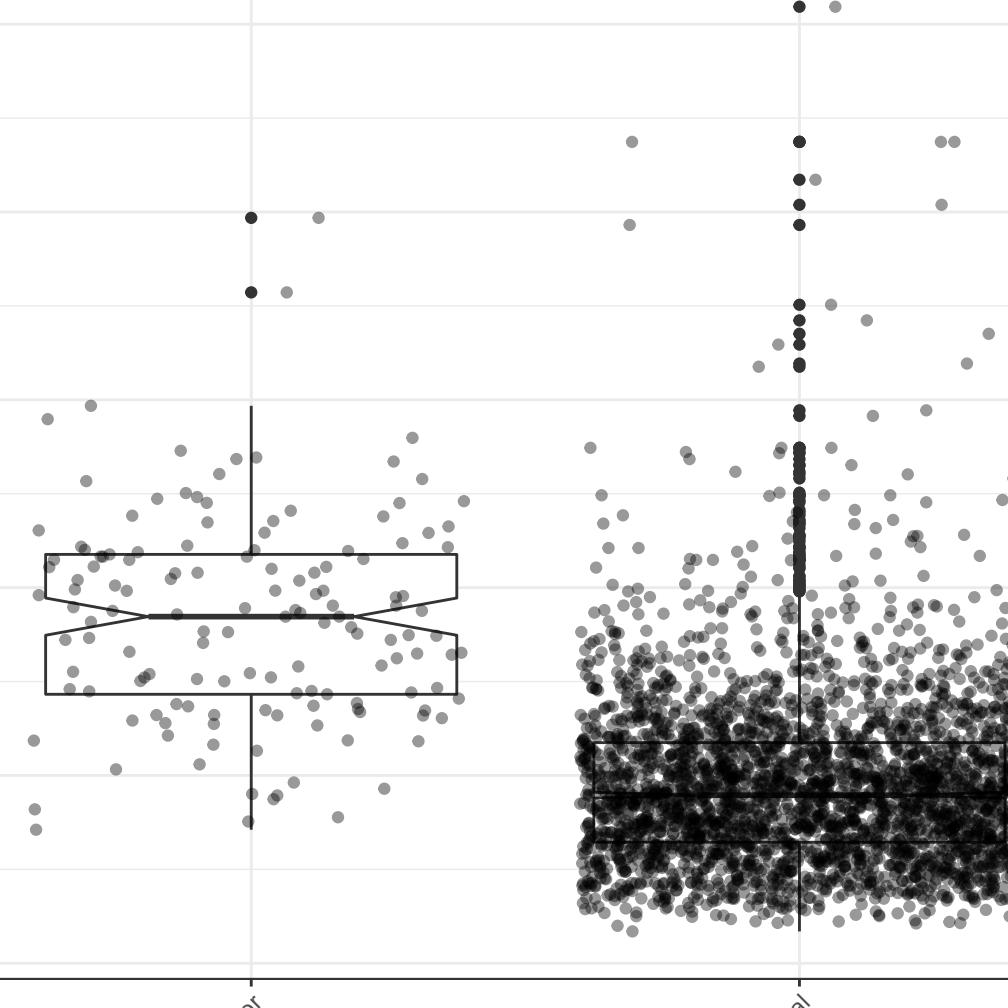
Value

0.20  
0.15  
0.10  
0.05  
0.00  
-0.05

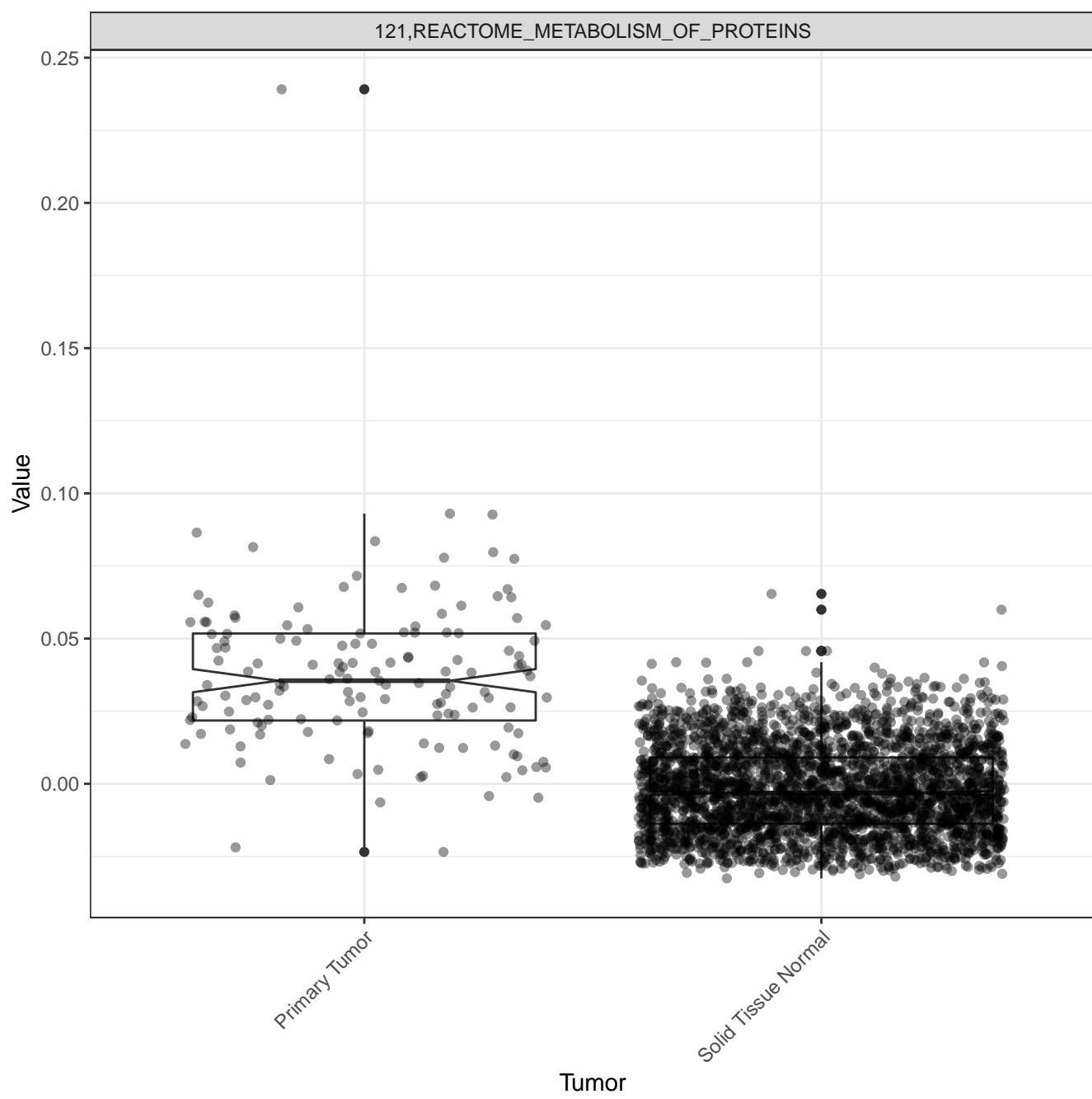
Primary Tumor

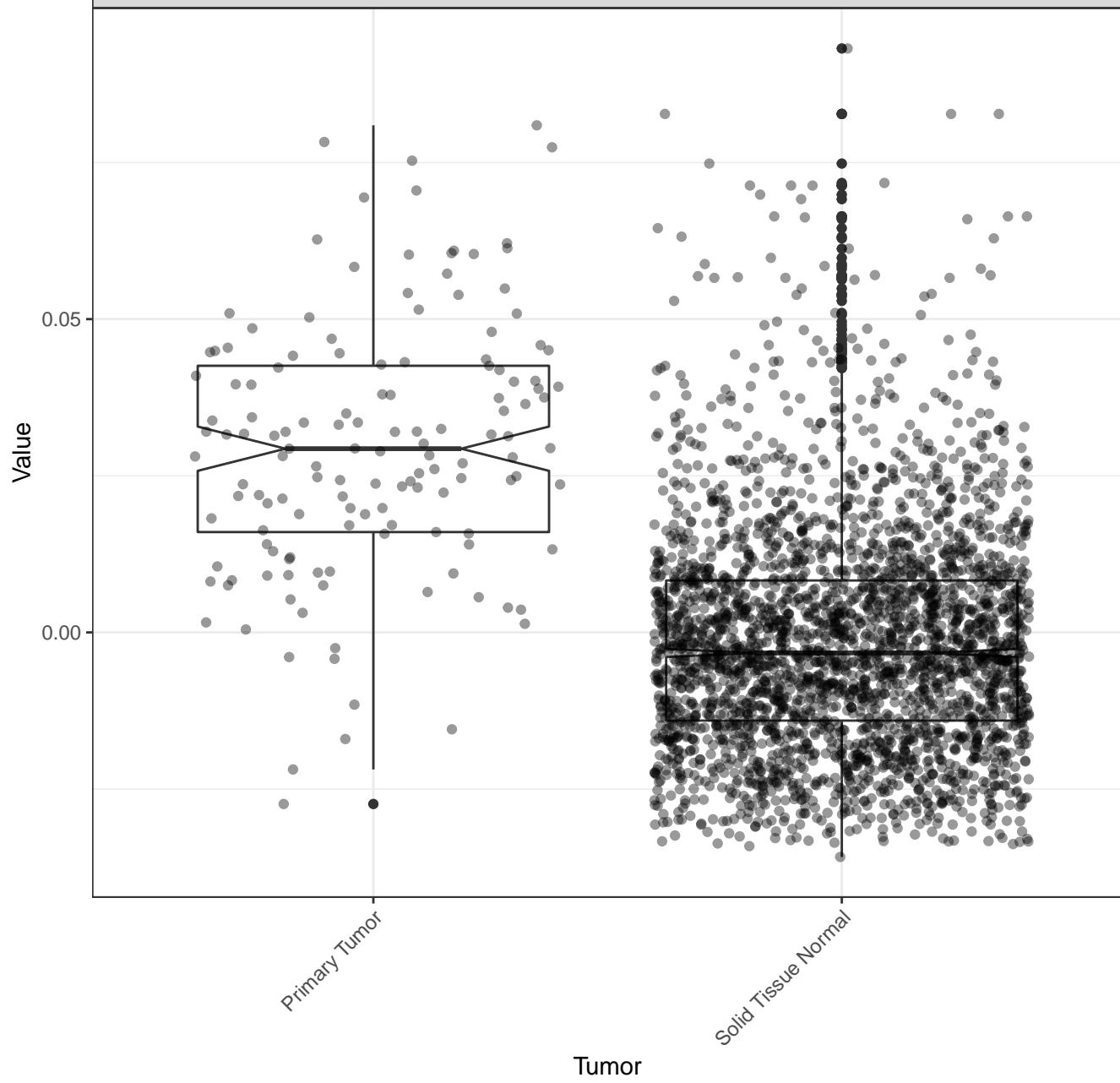
Solid Tissue Normal

Tumor

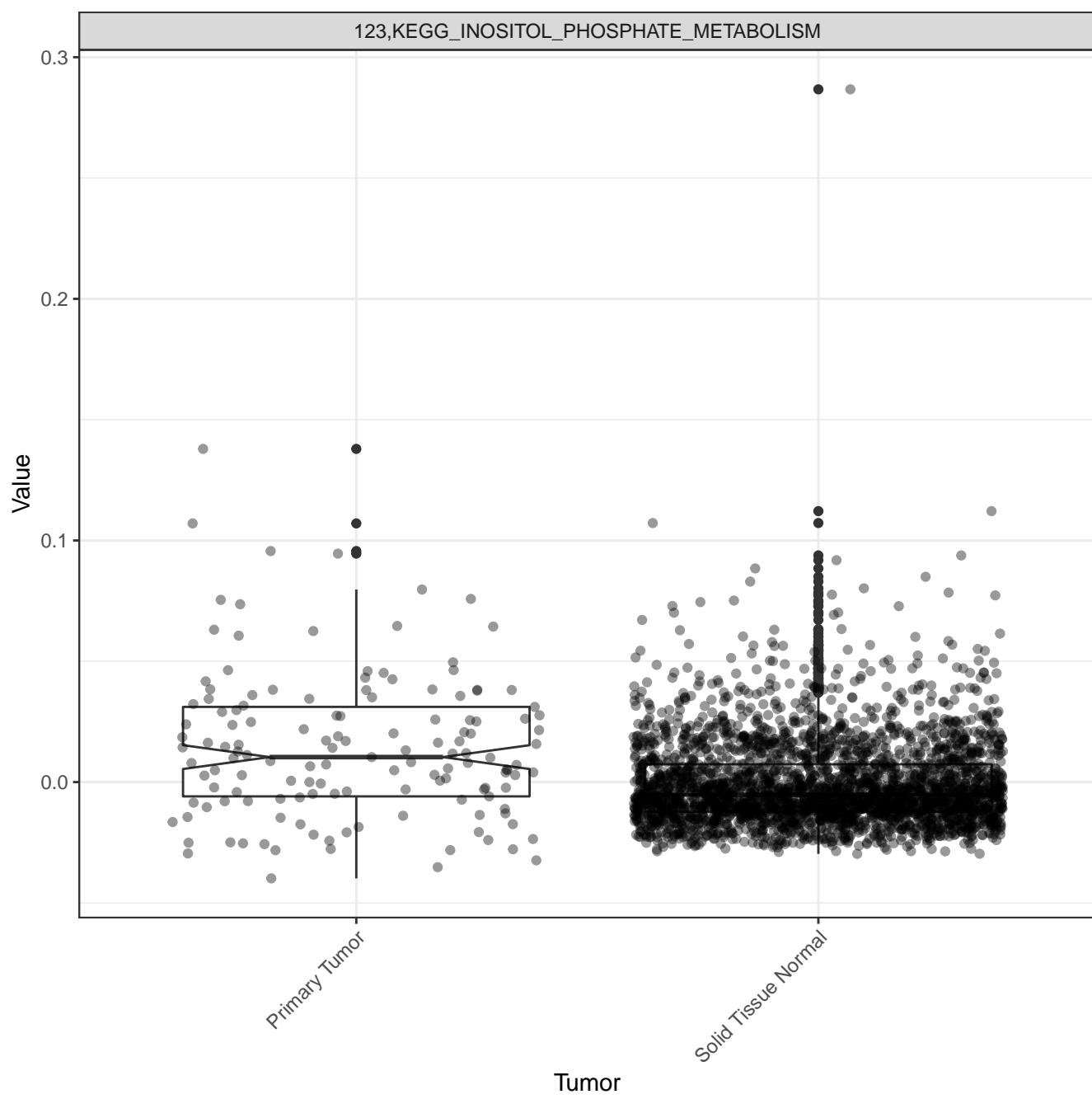


# 121,REACTOME\_METABOLISM\_OF\_PROTEINS





### 123,KEGG\_INOSITOL\_PHOSPHATE\_METABOLISM



# 124,REACTOME\_DEADENYLATION\_DEPENDENT\_MRNA\_DECAY

Value

0.15

0.10

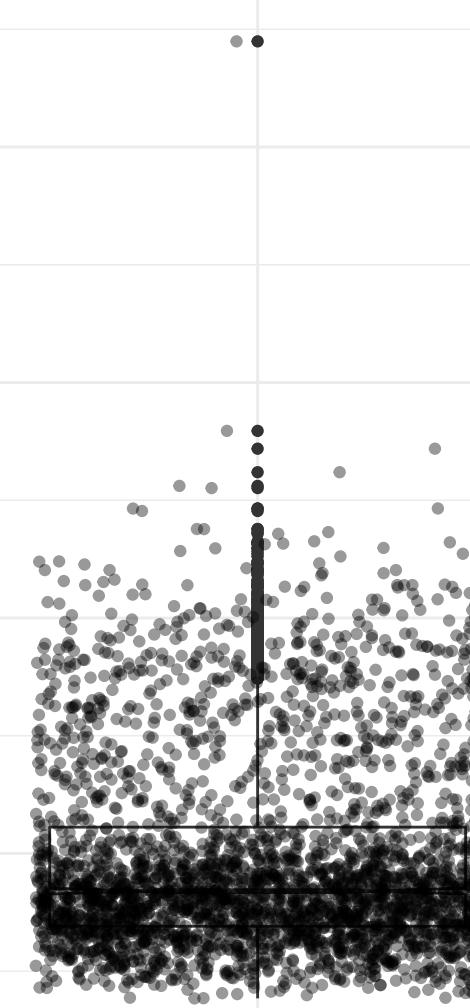
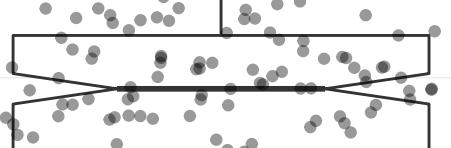
0.05

0.00

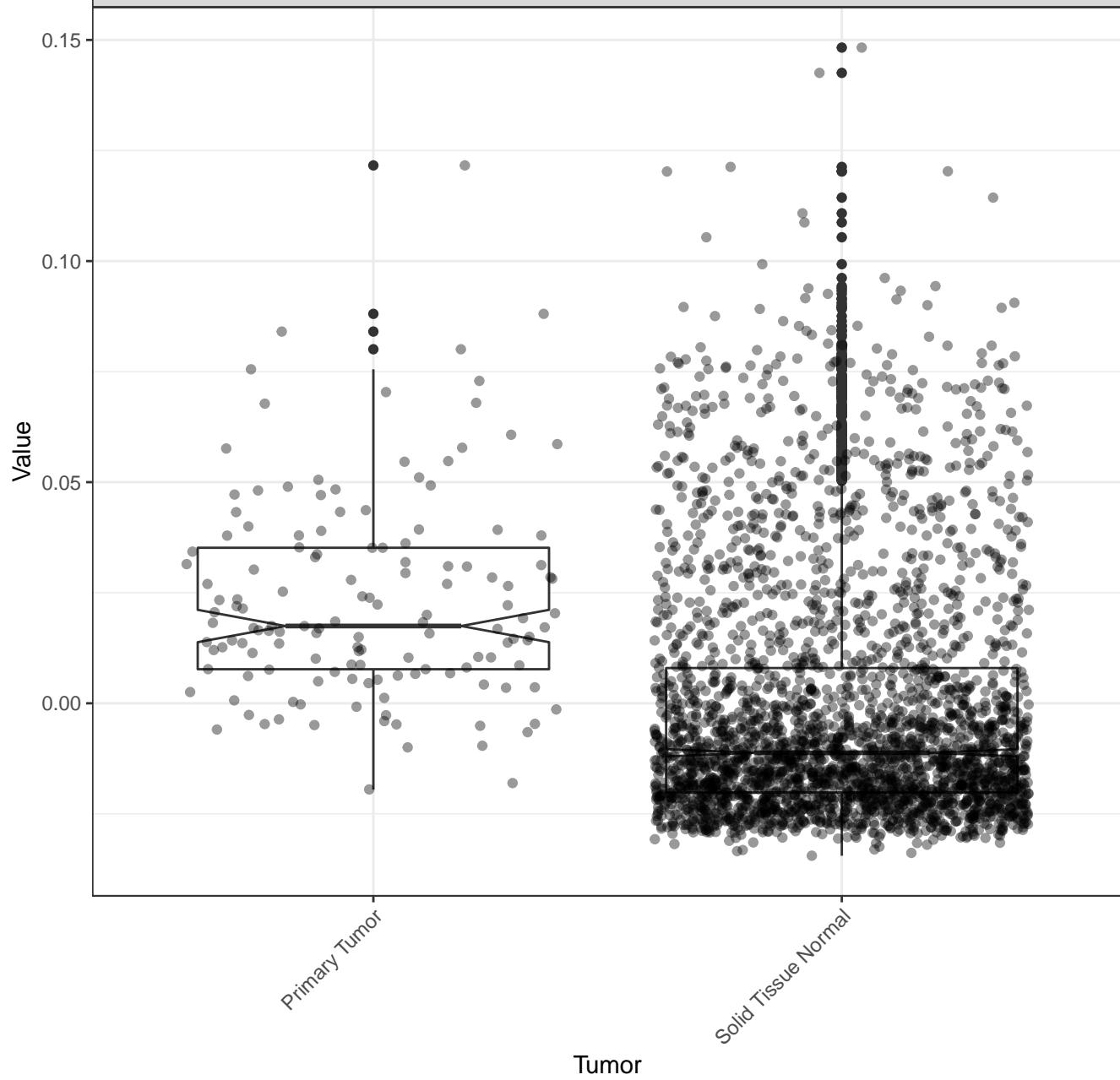
Primary Tumor

Solid Tissue Normal

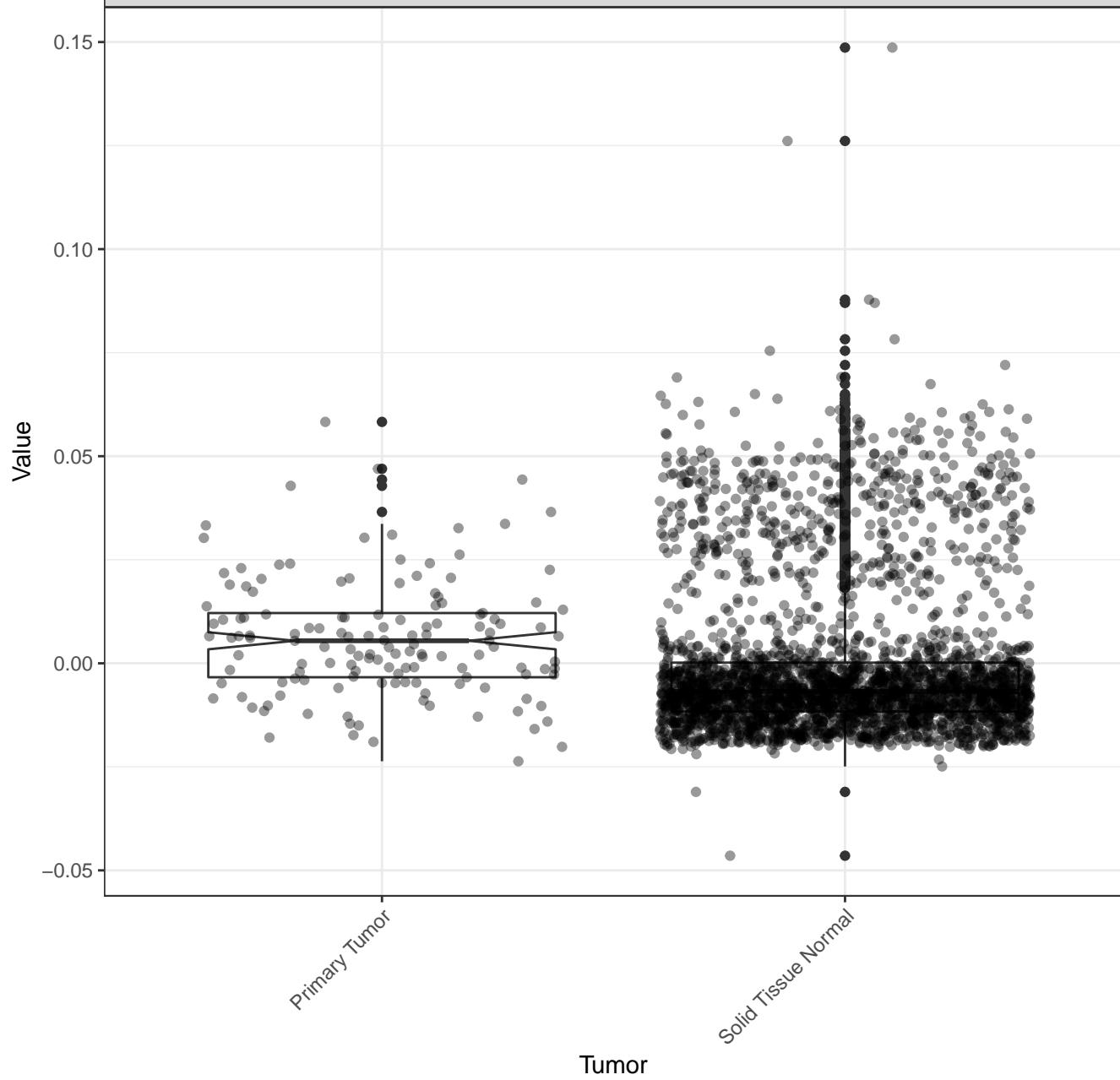
Tumor



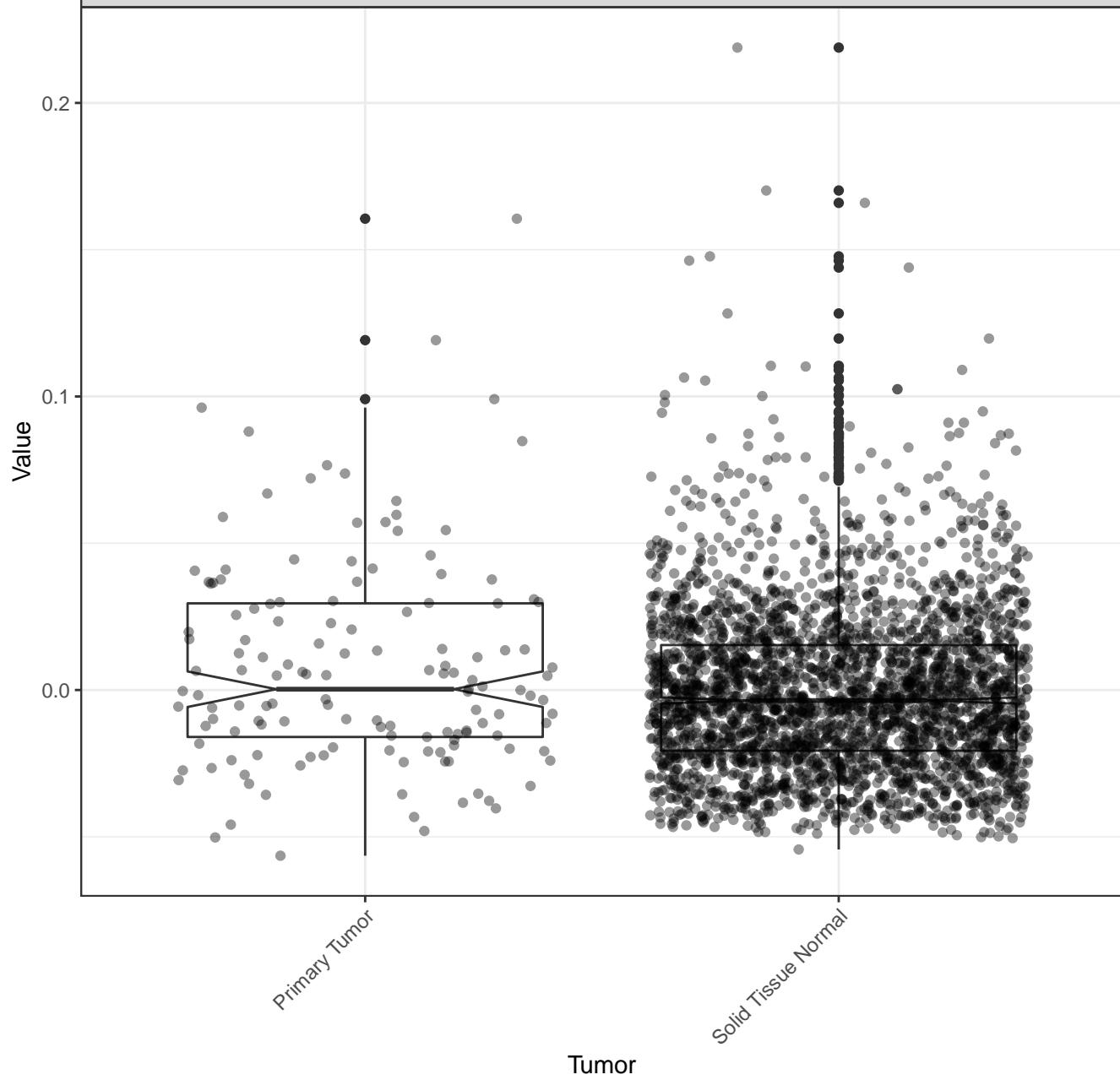
# 125,KEGG\_GLYCEROPHOSPHOLIPID\_METABOLISM



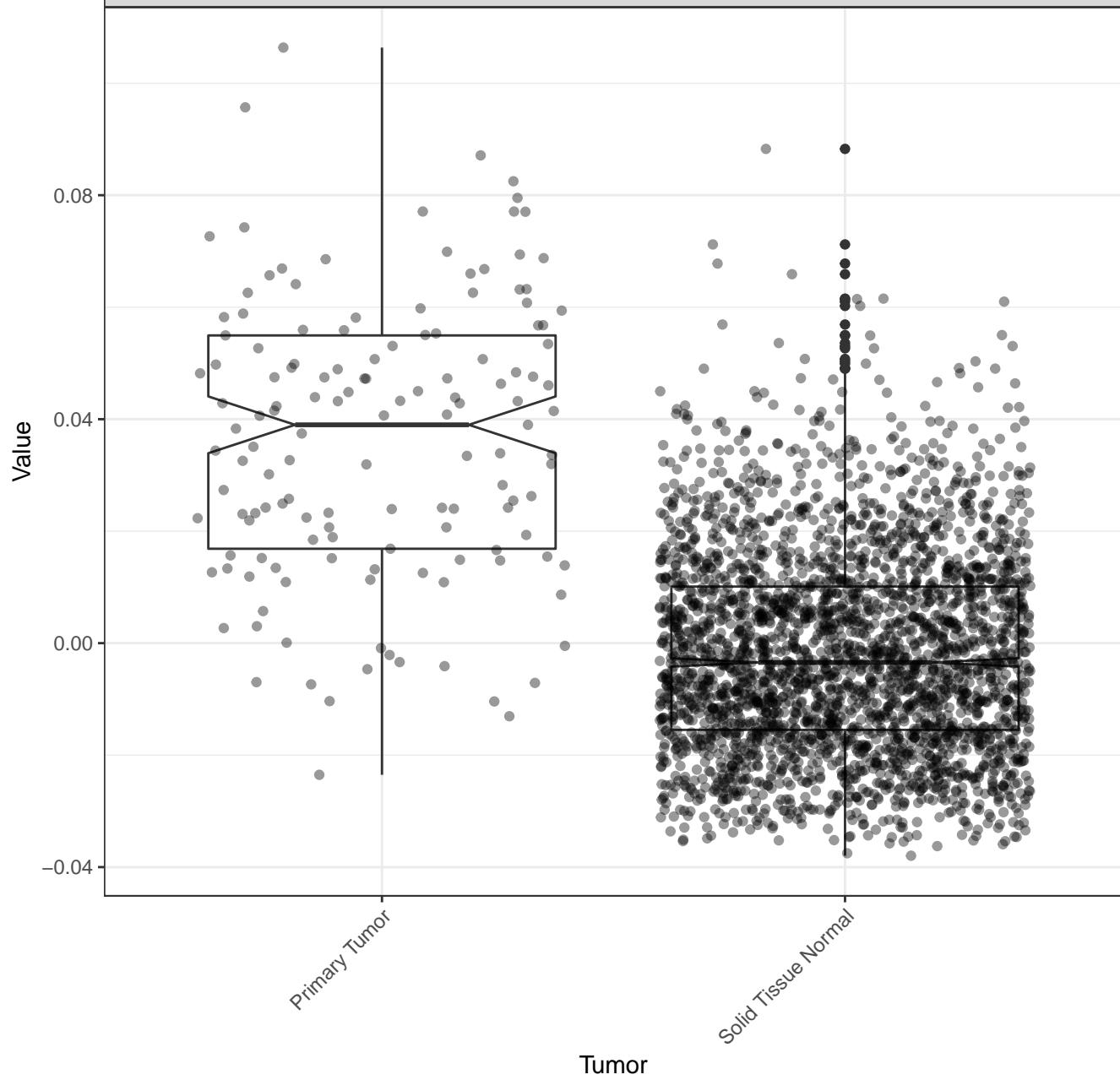
# 126,KEGG\_CYSTEINE\_AND\_METHIONINE\_METABOLISM



# 127,KEGG\_NEUROACTIVE\_LIGAND\_RECEPTOR\_INTERACTION



## 128,KEGG\_PURINE\_METABOLISM



129,REACTOME\_ANTIVIRAL\_MECHANISM\_BY\_IFN\_STIMULATED\_GENES

Value

0.10

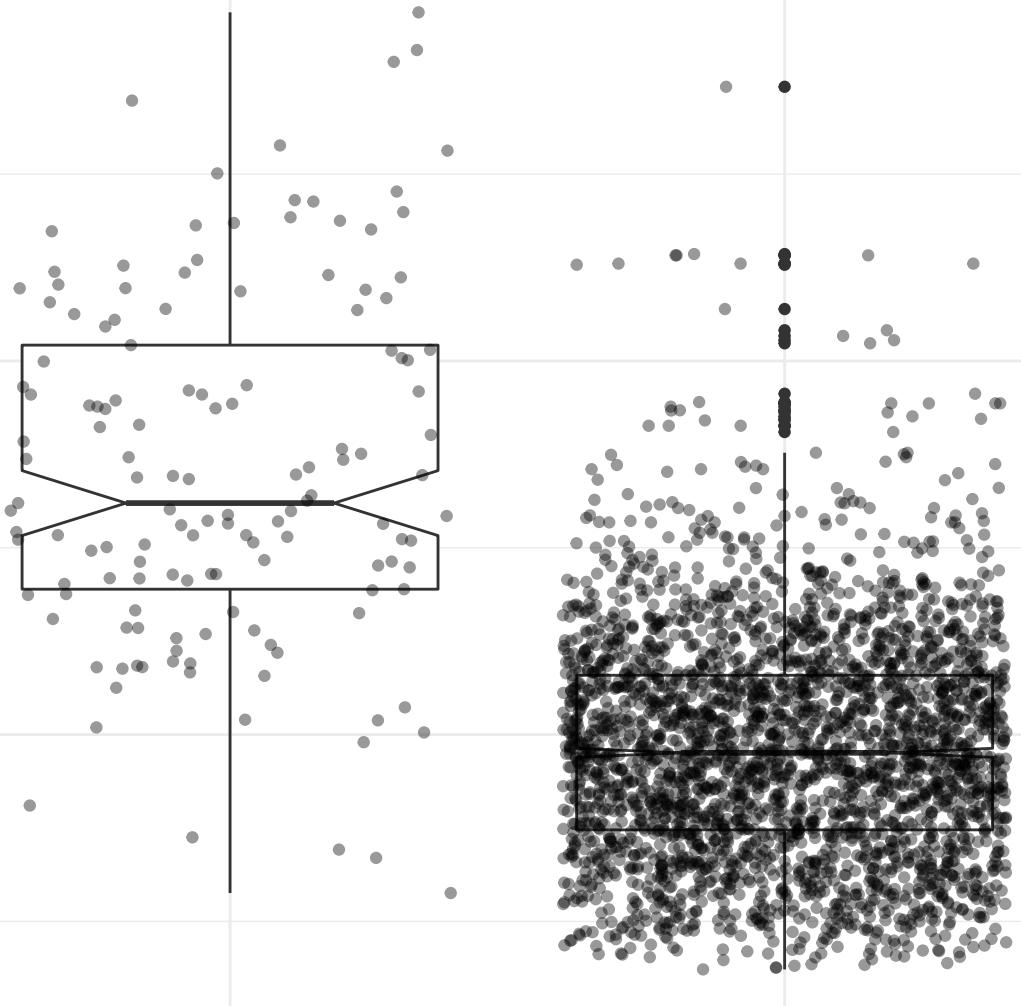
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



## 130,REACTOME\_AXON\_GUIDANCE

Value

0.10

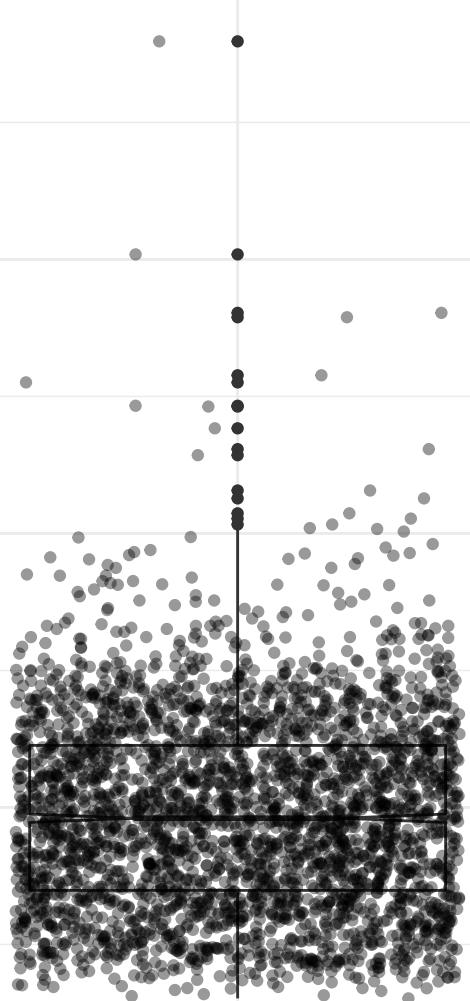
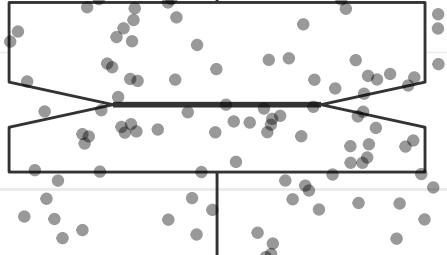
0.05

0.00

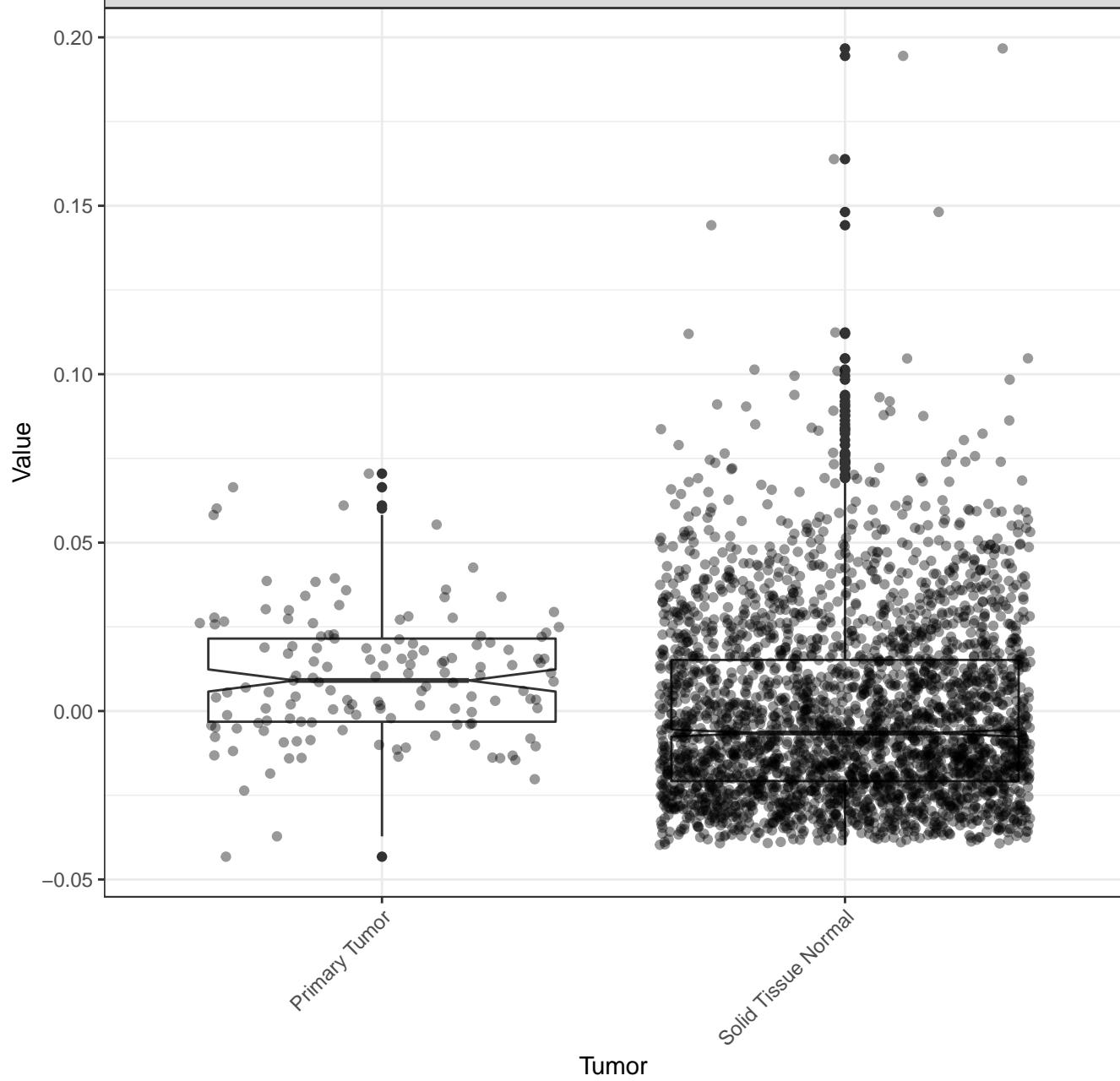
Primary Tumor

Solid Tissue Normal

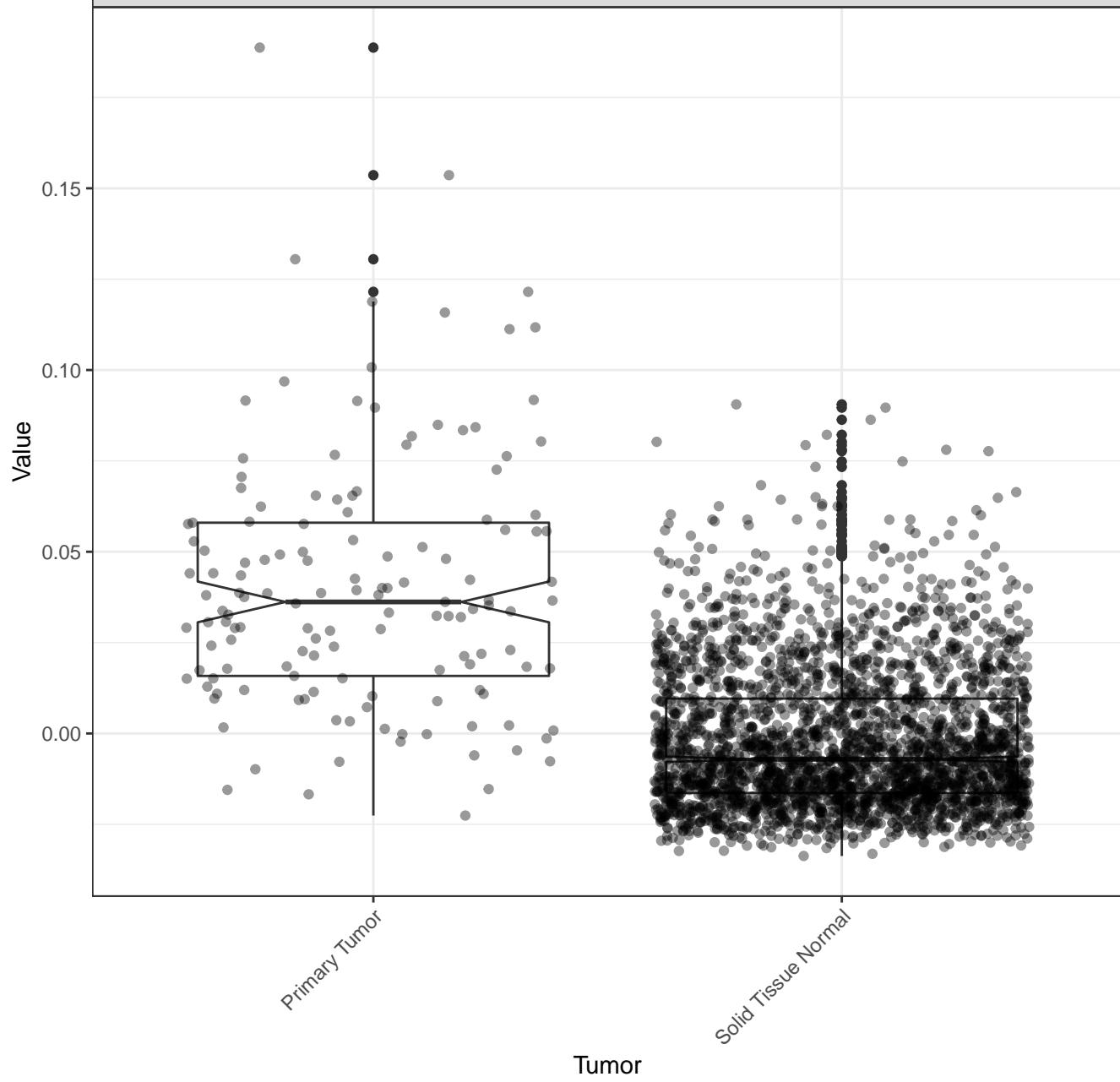
Tumor



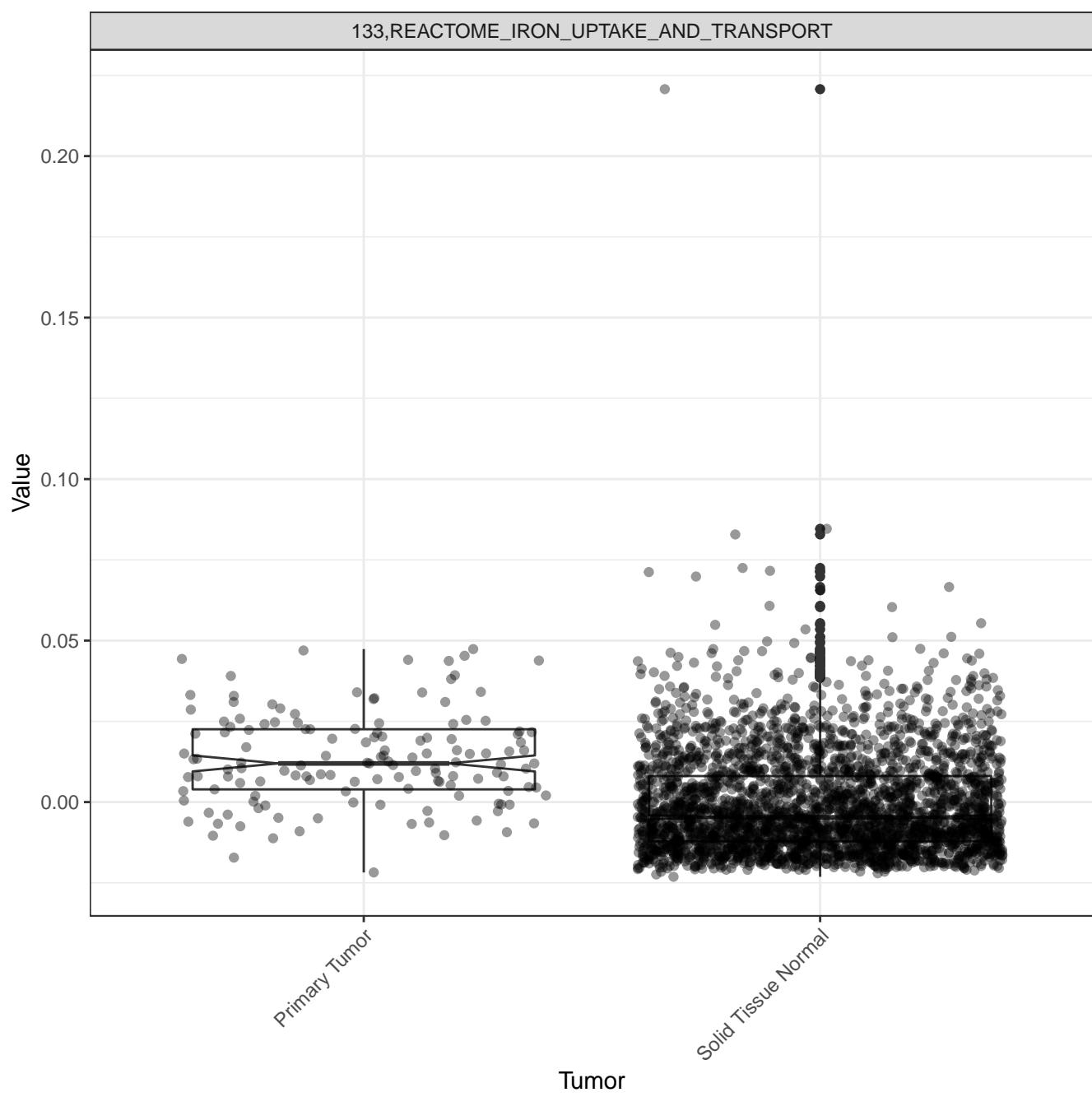
131,REACTOME\_OPIOID\_SIGNALLING



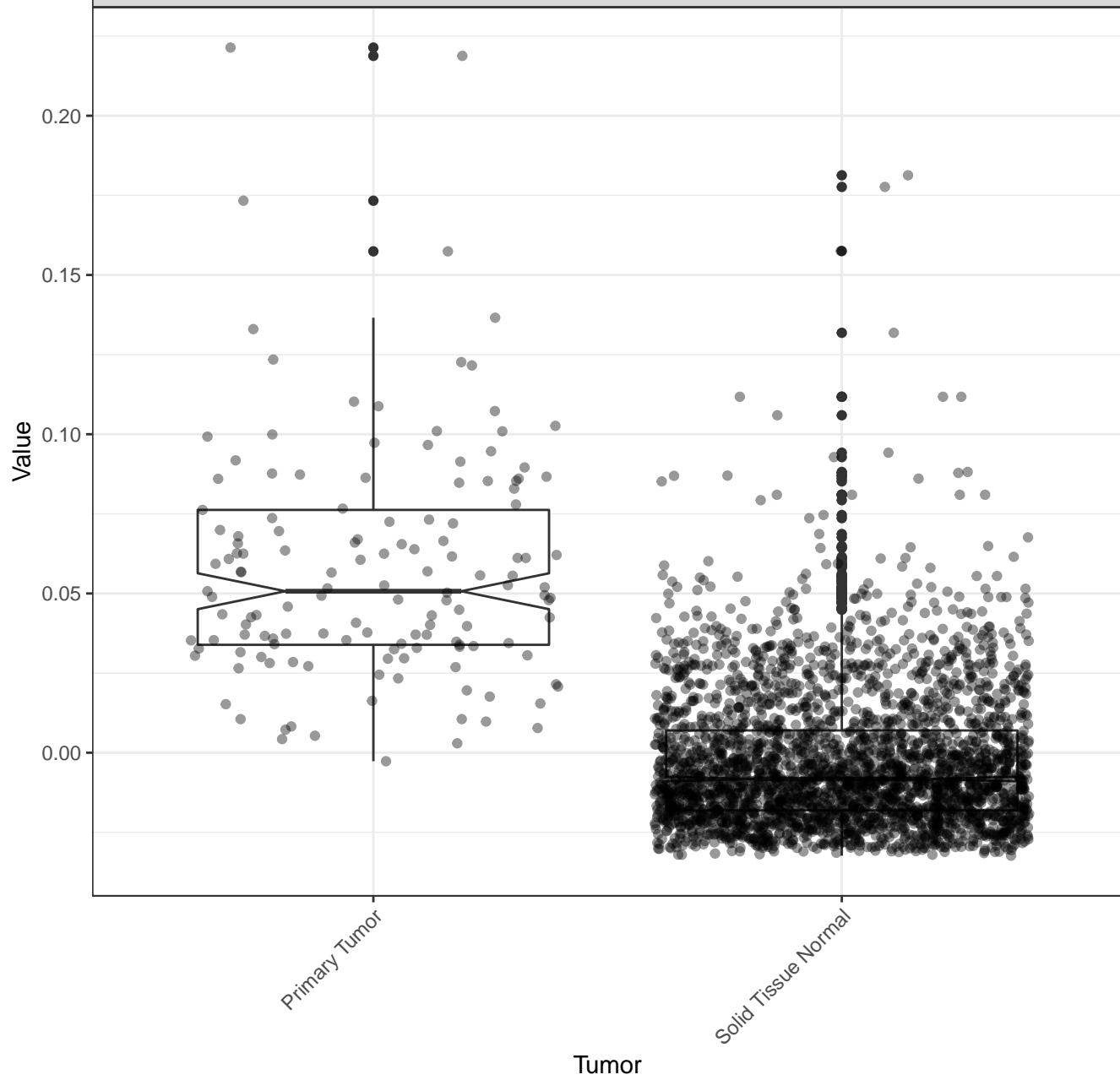
## 132,REACTOME\_SIGNALING\_BY\_SCF\_KIT



# 133,REACTOME\_IRON\_UPTAKE\_AND\_TRANSPORT



## 134,REACTOME\_DIABETES\_PATHWAYS



Value

0.10

0.05

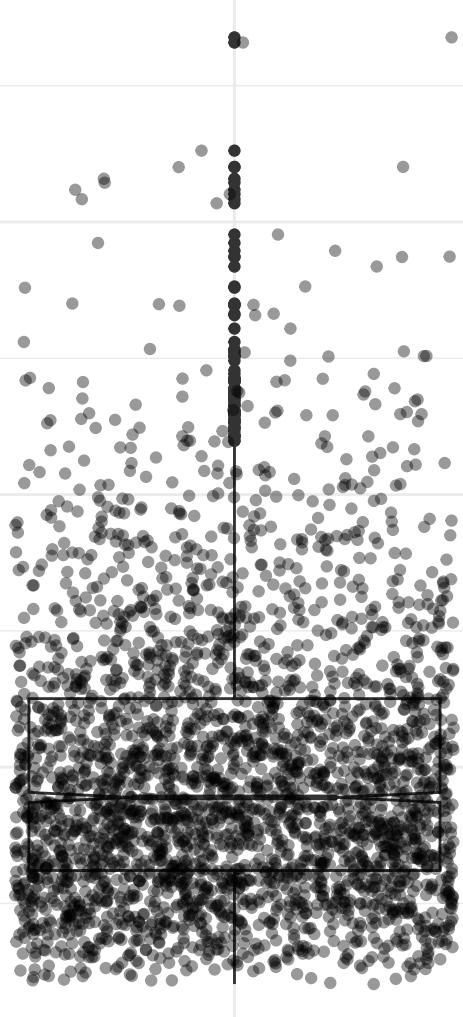
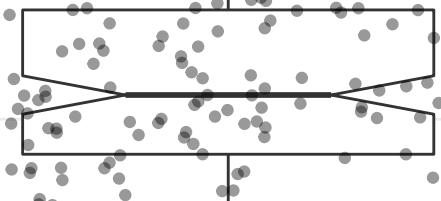
0.00

-0.05

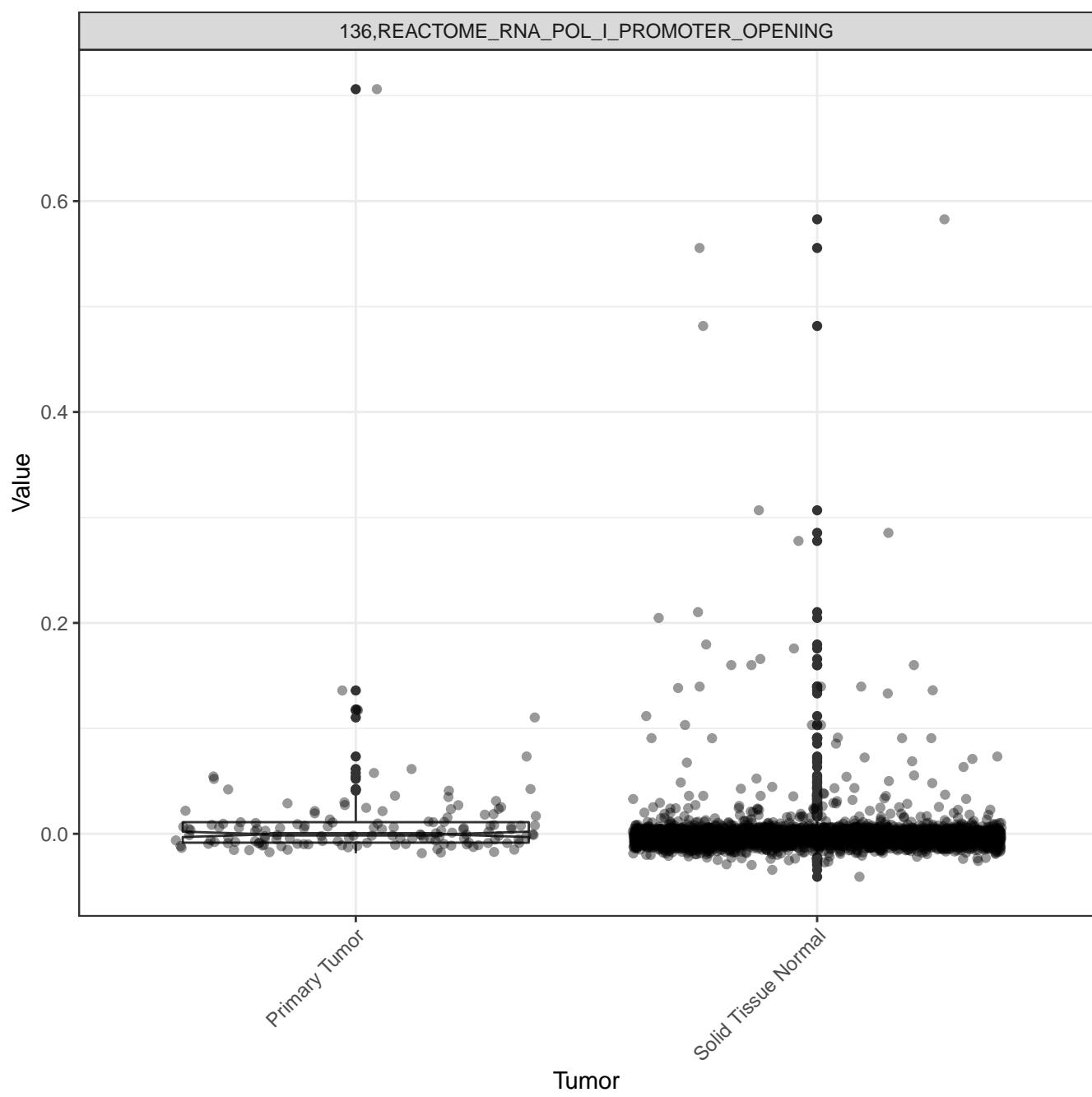
Primary Tumor

Solid Tissue Normal

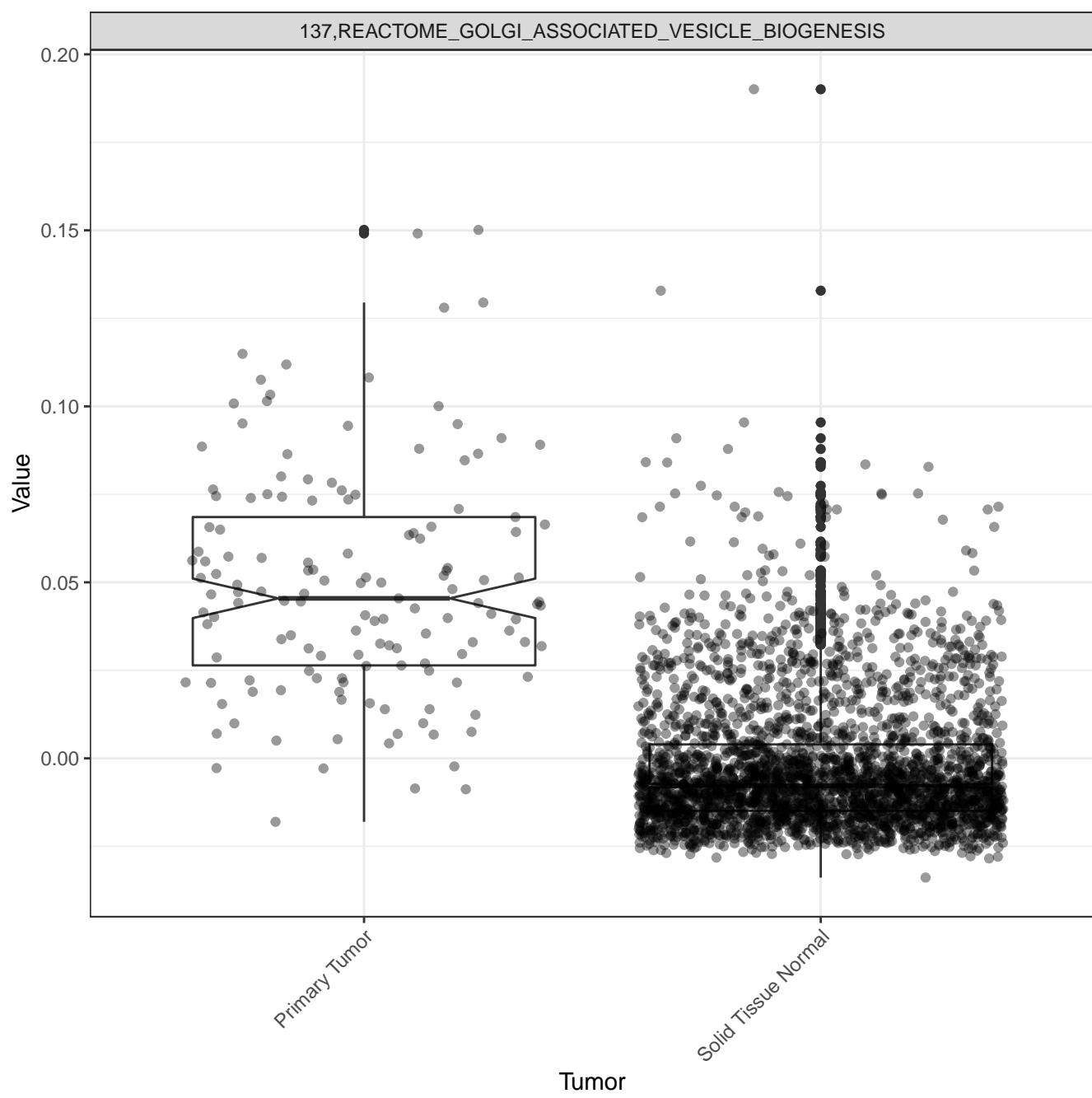
Tumor



# 136,REACTOME\_RNA\_POL\_I\_PROMOTER\_OPENING



# 137,REACTOME\_GOLGI\_ASSOCIATED\_VESICLE\_BIOGENESIS



## 138,IRIS\_CD4Tcell–Th2–restimulated12hour

Value

0.10

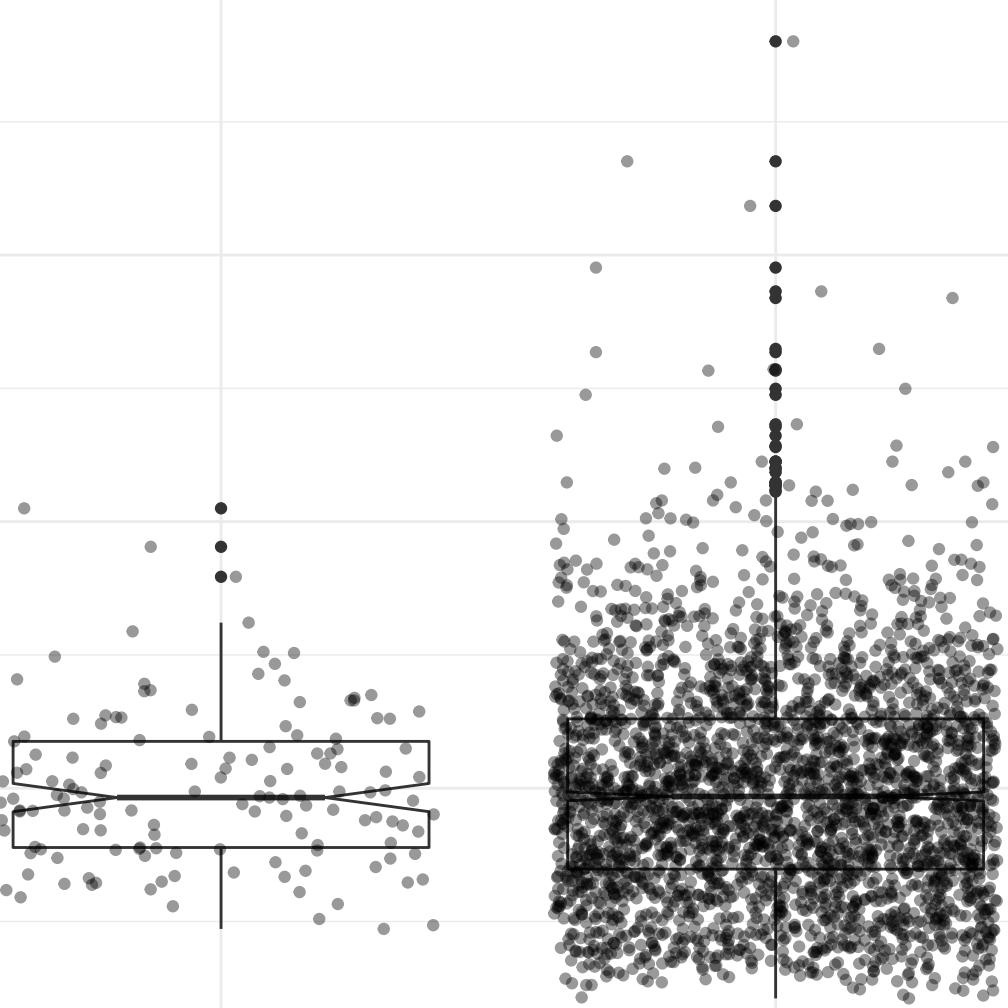
0.05

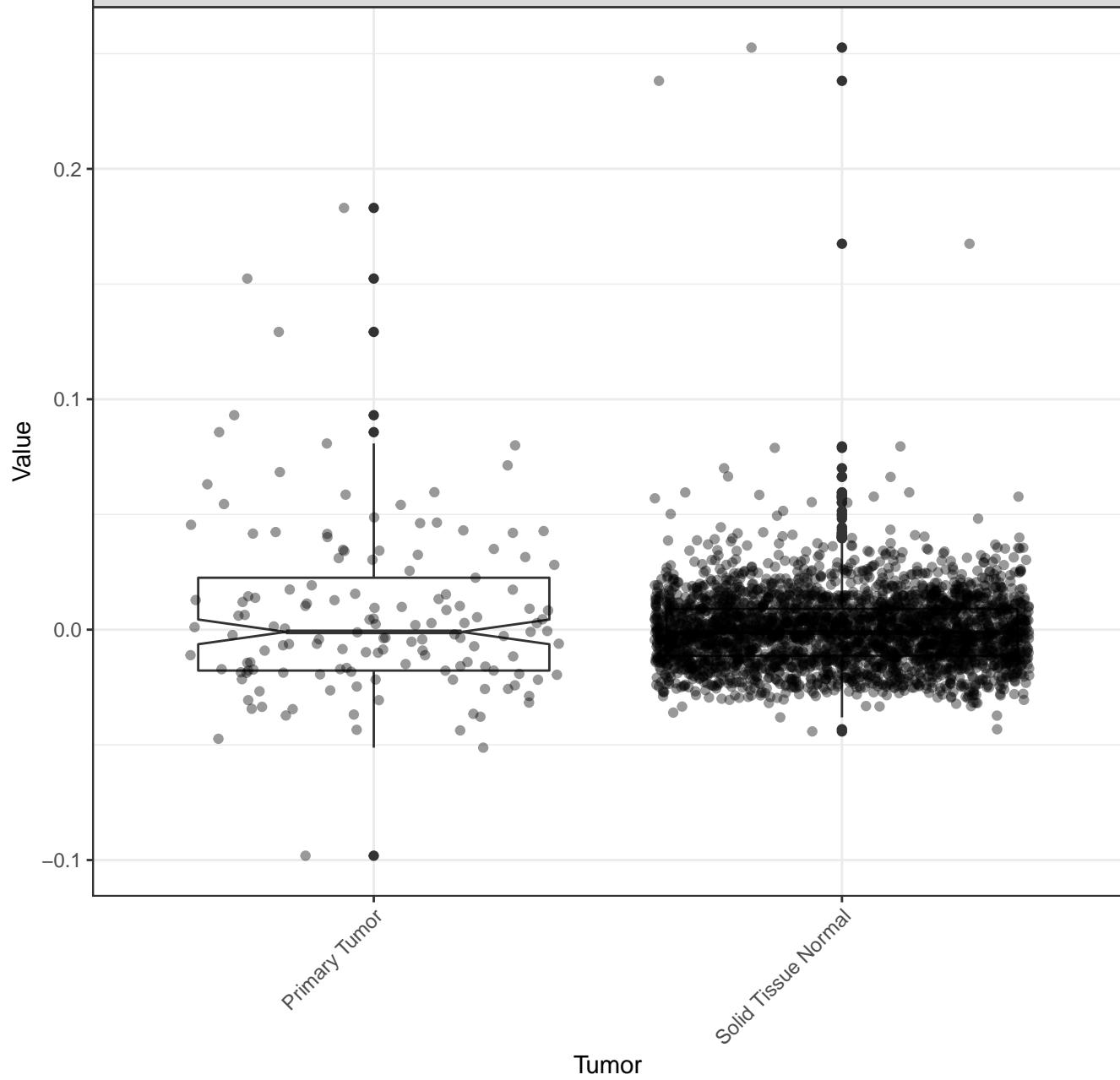
0.00

Primary Tumor

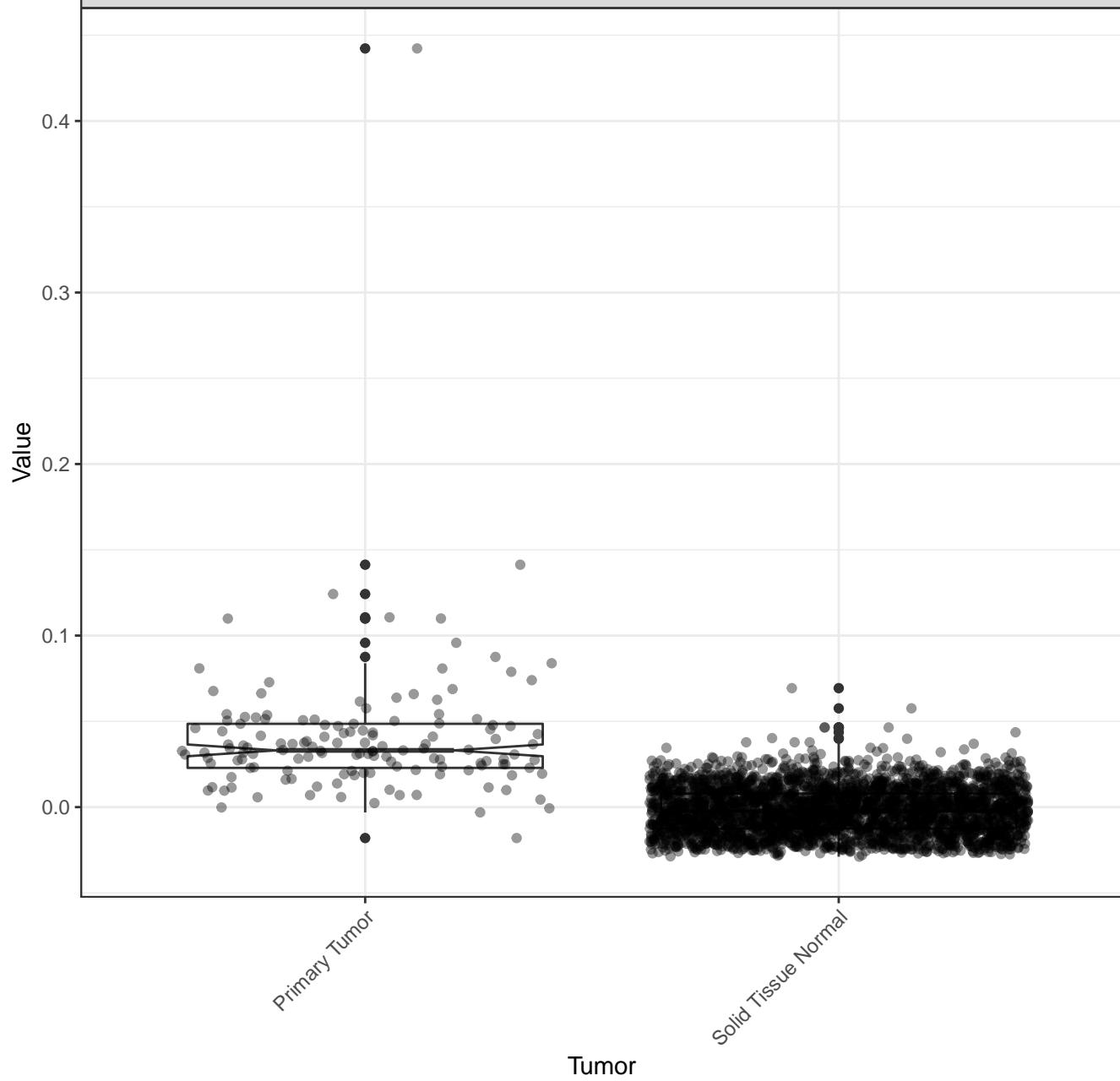
Solid Tissue Normal

Tumor

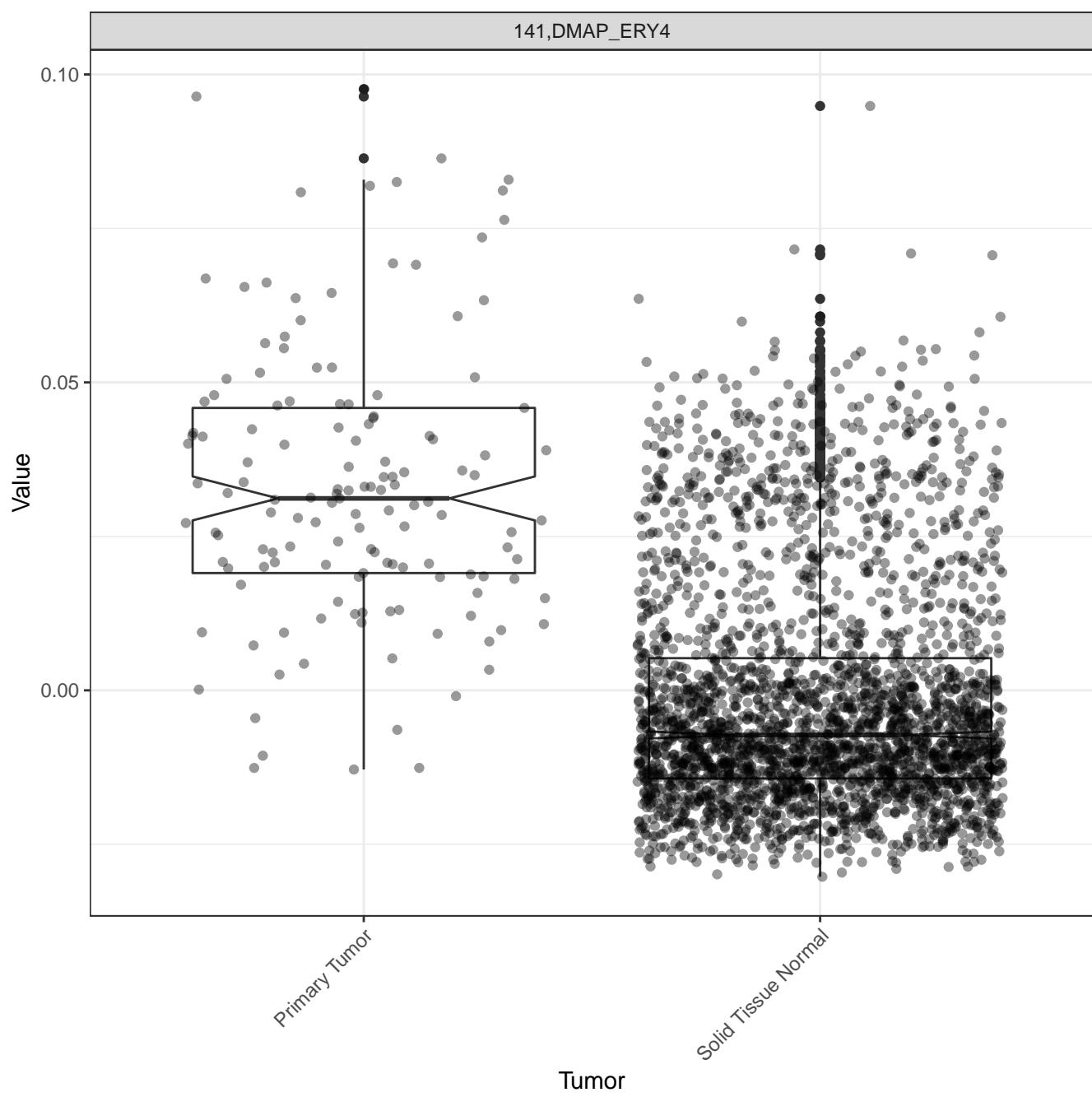




## 140,PID\_FGF\_PATHWAY



## 141,DMAP\_ERY4



# 142,KEGG\_METABOLISM\_OF\_XENOBIOTICS\_BY\_CYTOCHROME\_P450

Value

0.15

0.10

0.05

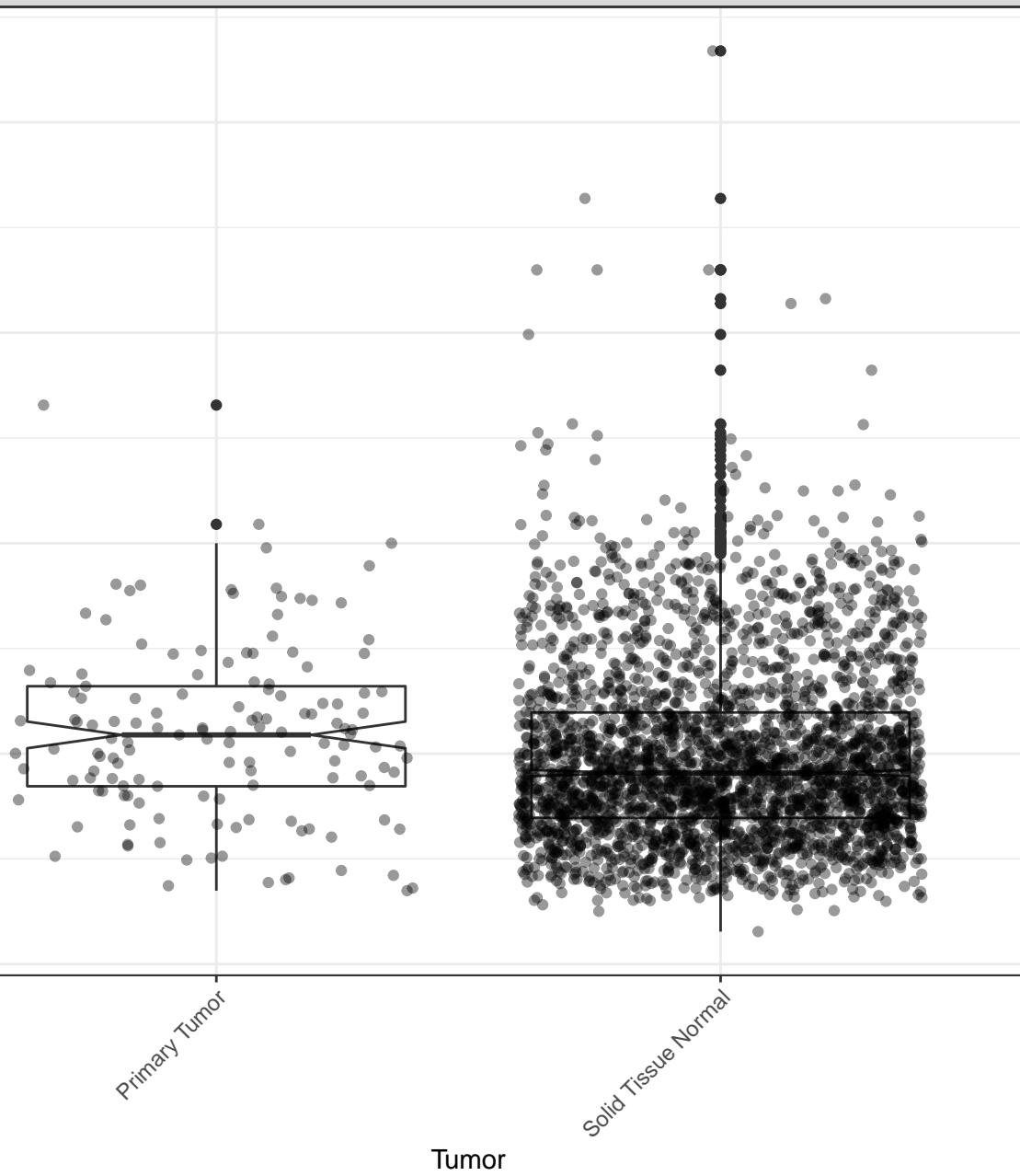
0.00

-0.05

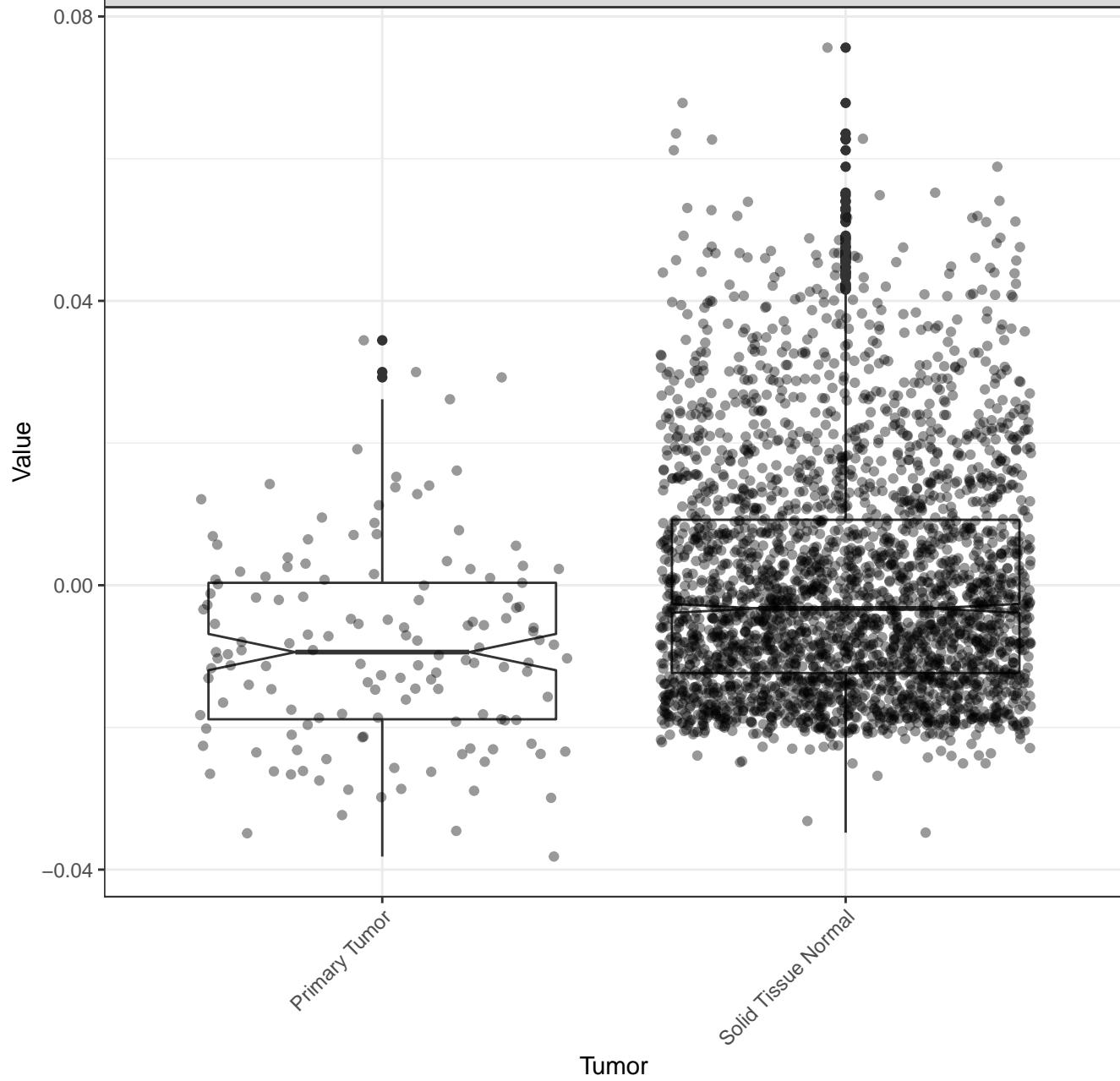
Primary Tumor

Tumor

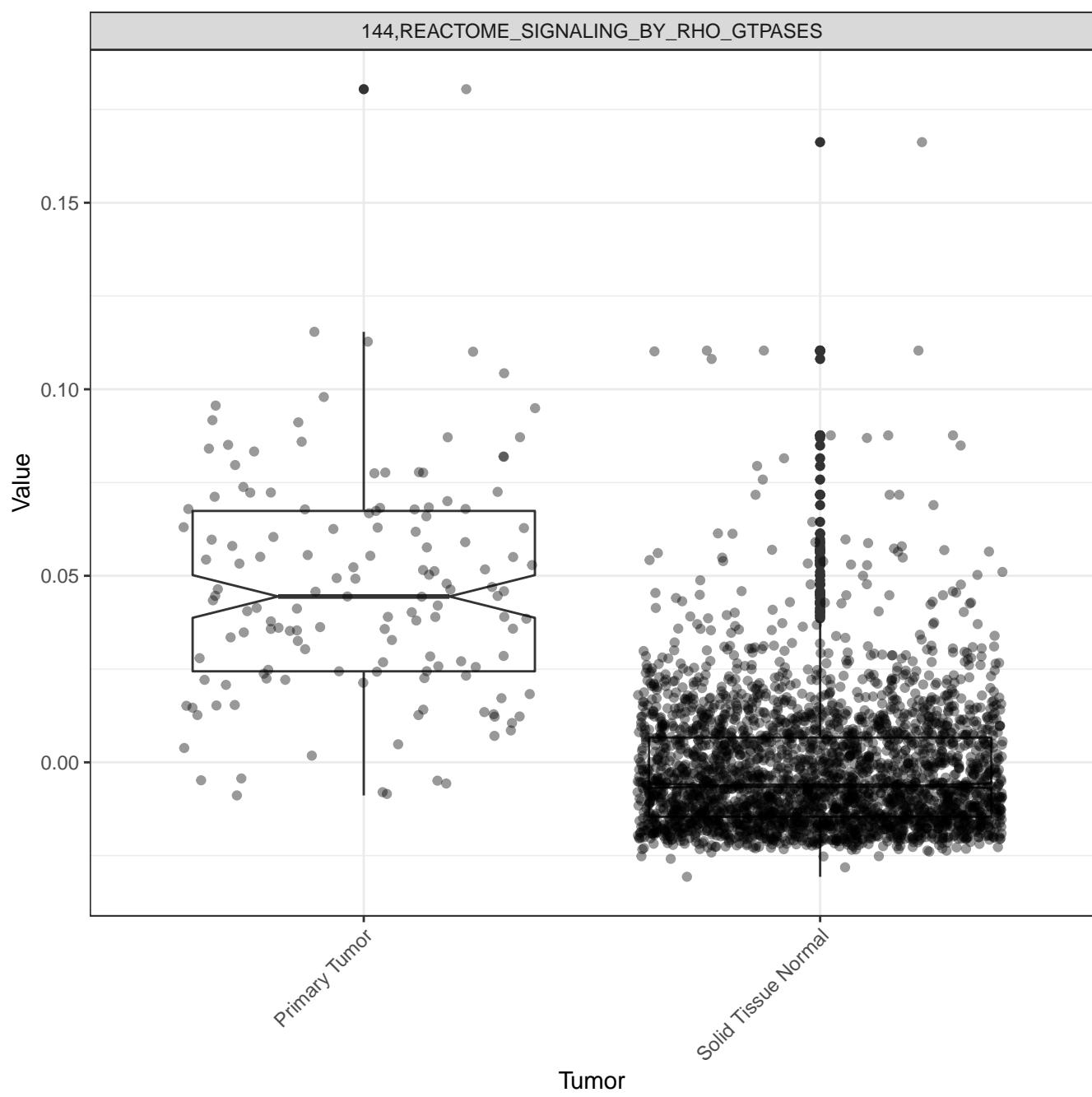
Solid Tissue Normal



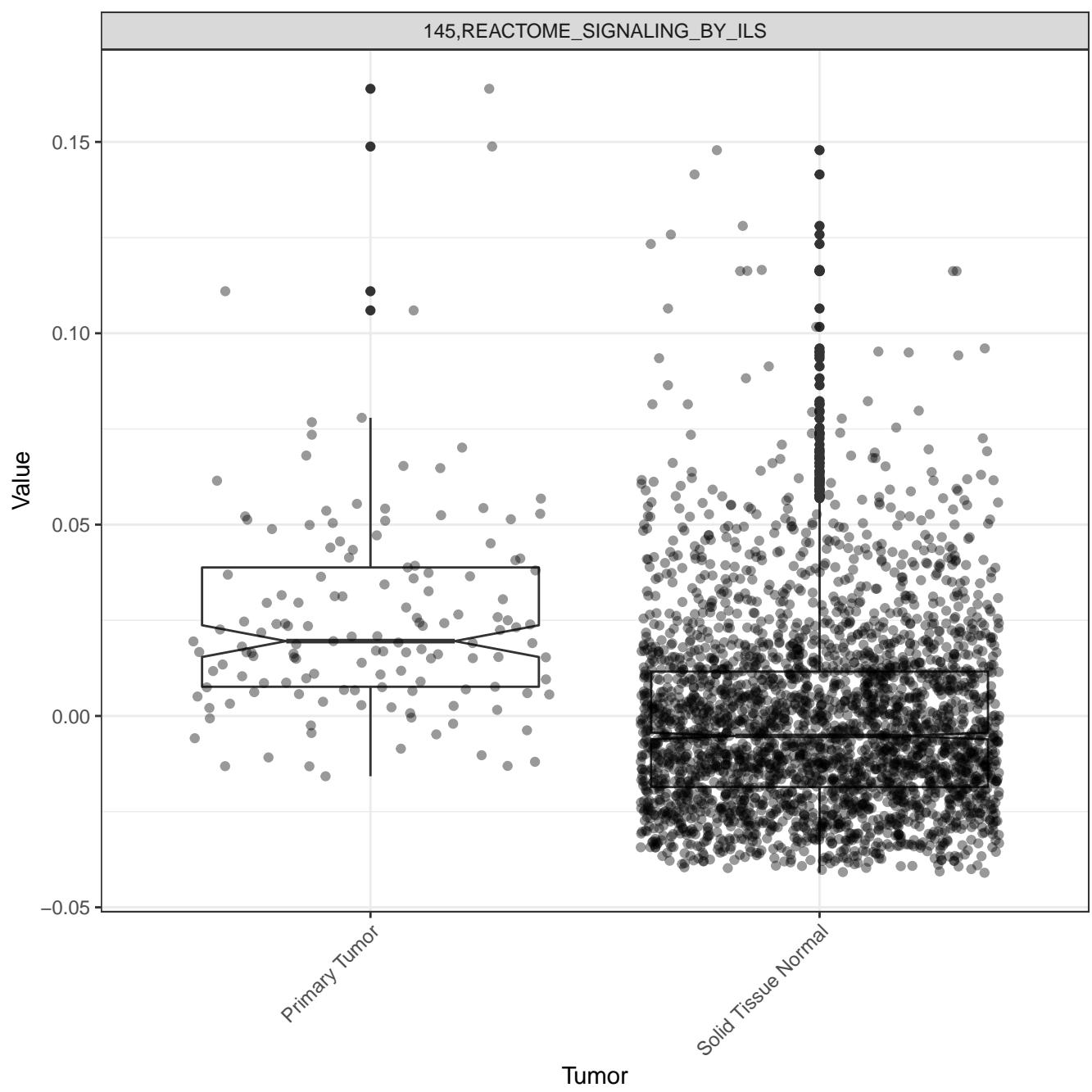
# 143,KEGG\_UBIQUITIN\_MEDIATED\_PROTEOLYSIS



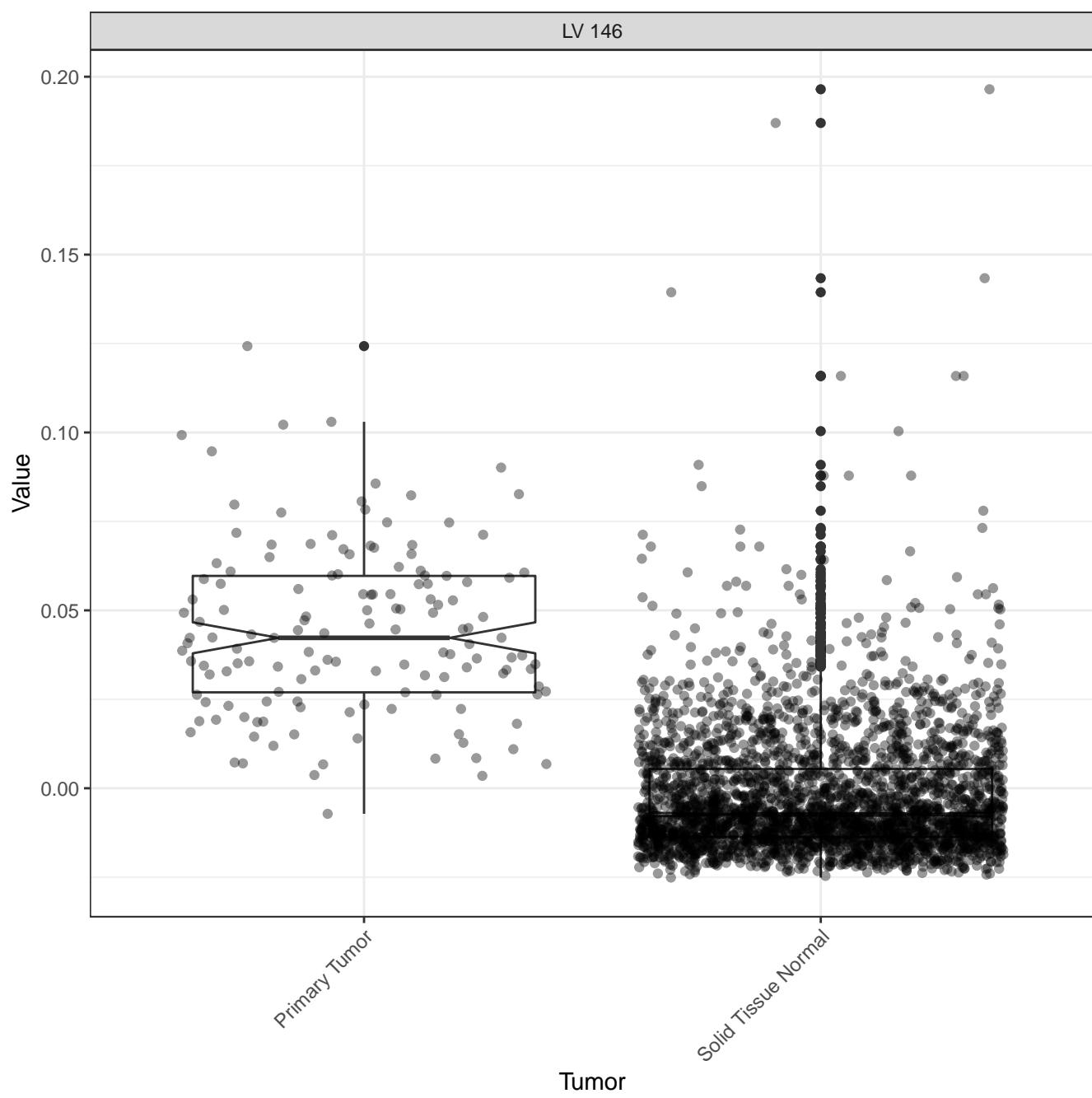
## 144,REACTOME\_SIGNALING\_BY\_RHO\_GTPASES



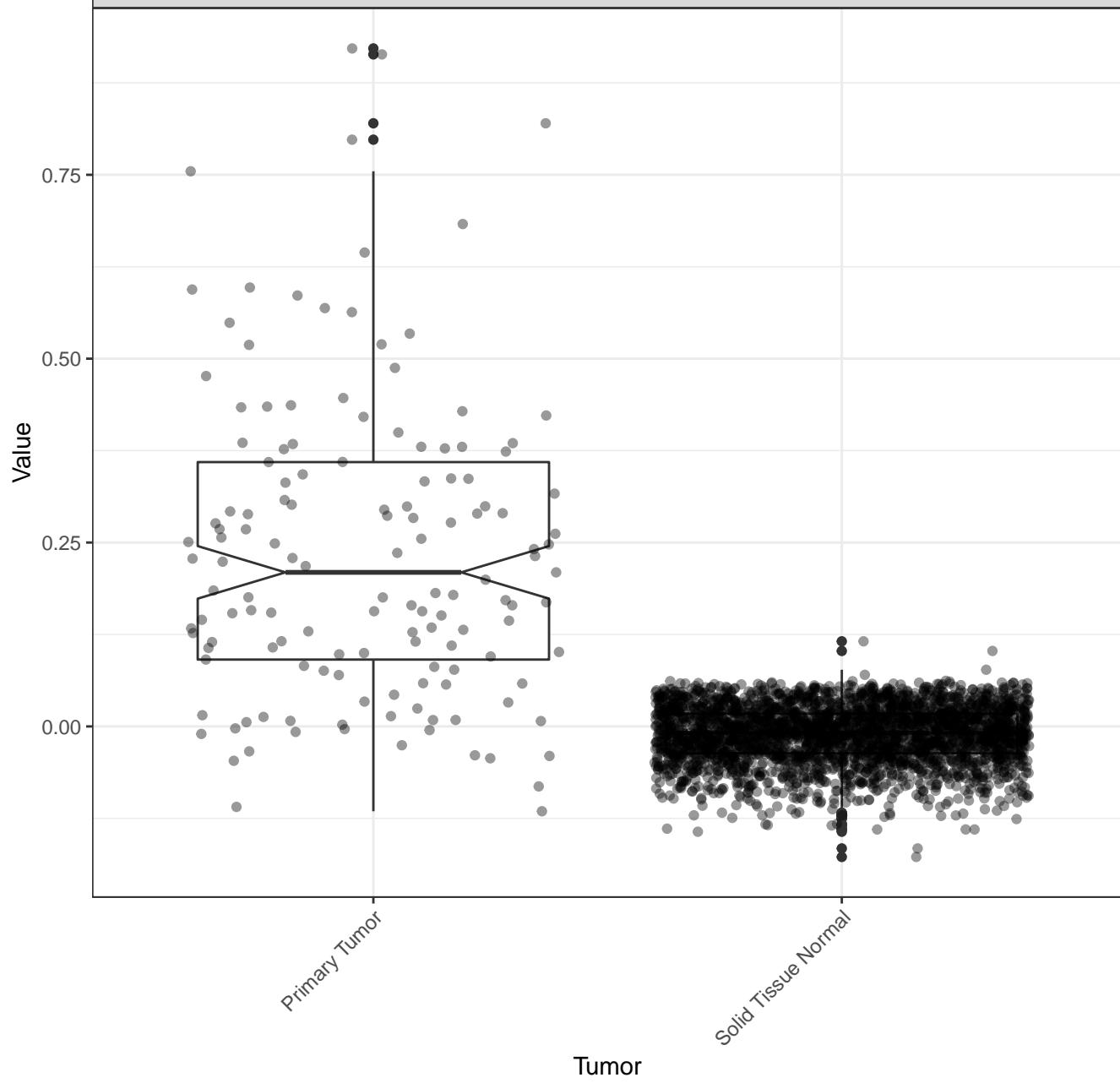
## 145,REACTOME\_SIGNALING\_BY\_ILS



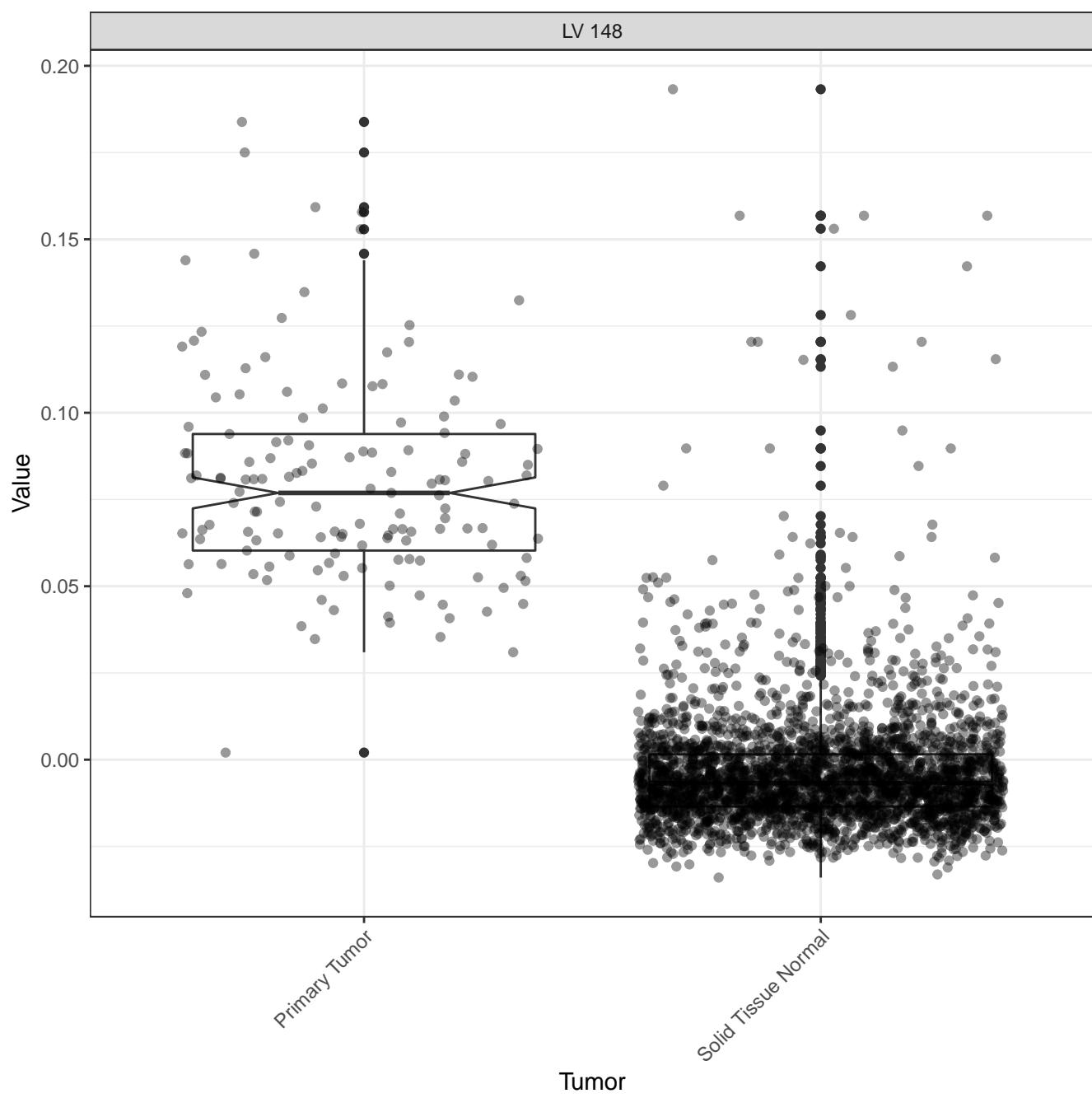
LV 146



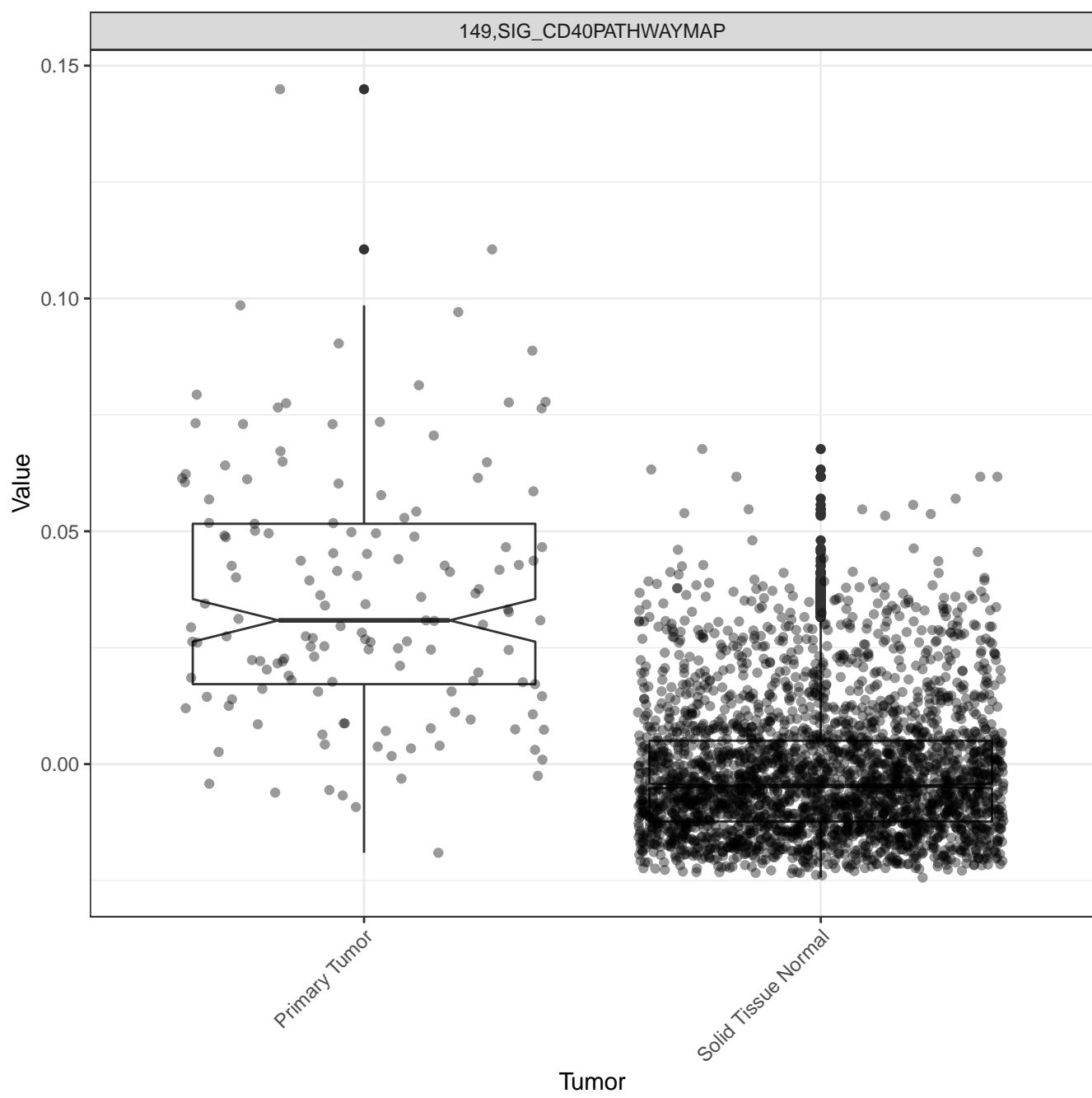
## 147,PID\_AURORA\_B\_PATHWAY



LV 148



## 149,SIG\_CD40PATHWAYMAP



## 150,REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PROTEASOME\_DEGRADATION

Value

0.15

0.10

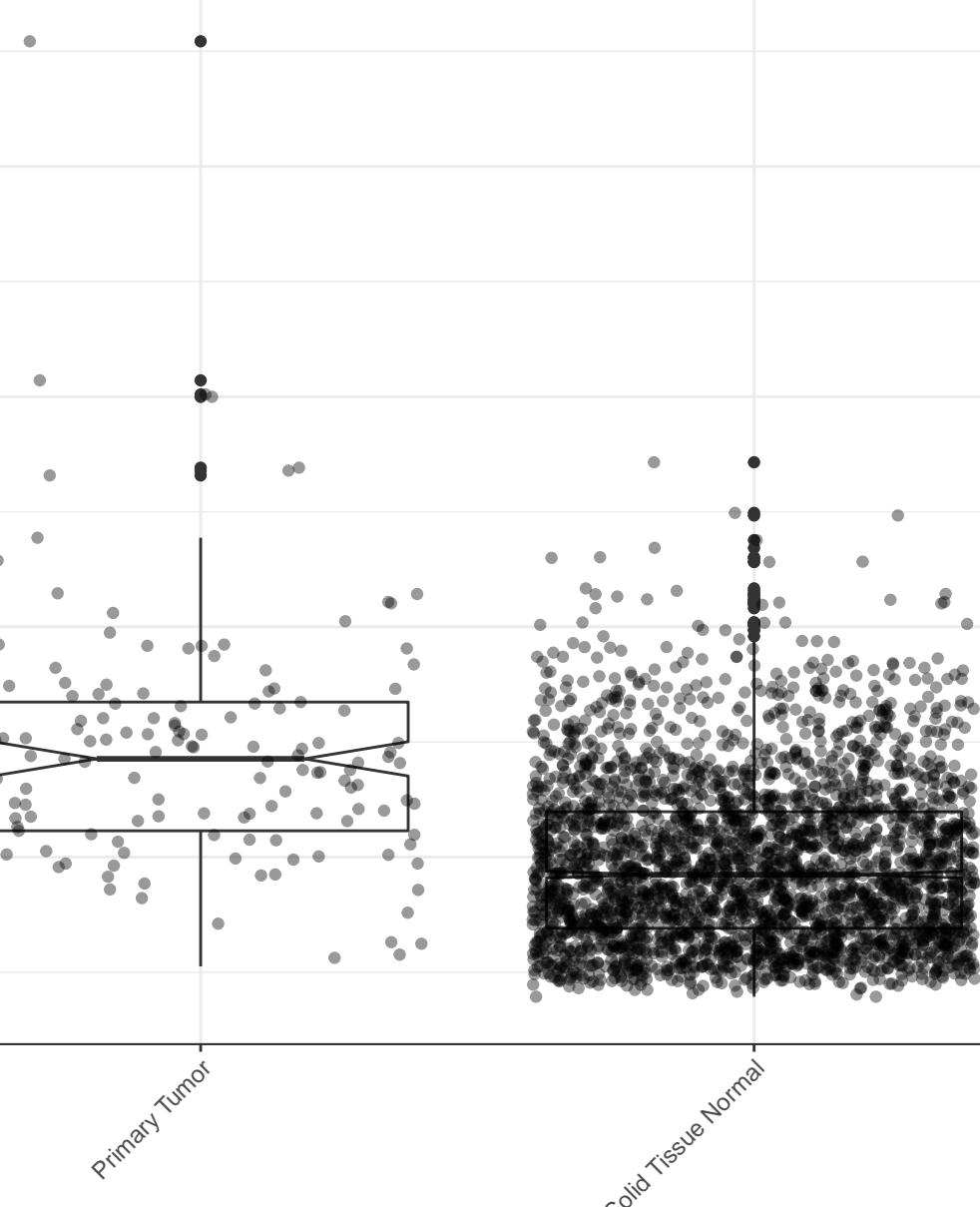
0.05

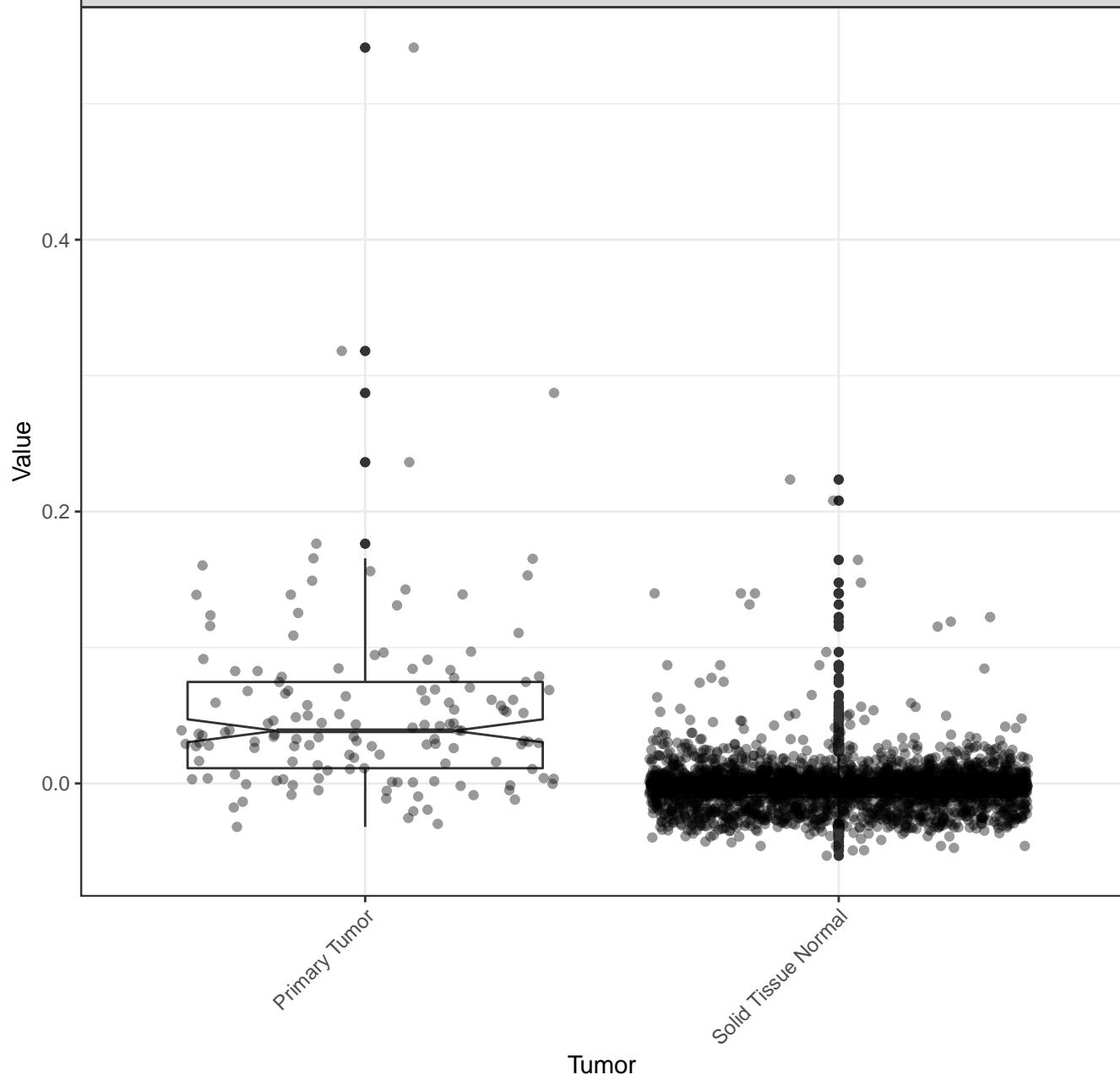
0.00

Primary Tumor

Solid Tissue Normal

Tumor





## 152,KEGG\_ARRHYTHMOGENIC\_RIGHT\_VENTRICULAR\_CARDIOMYOPATHY\_ARVC

Value

0.15

0.10

0.05

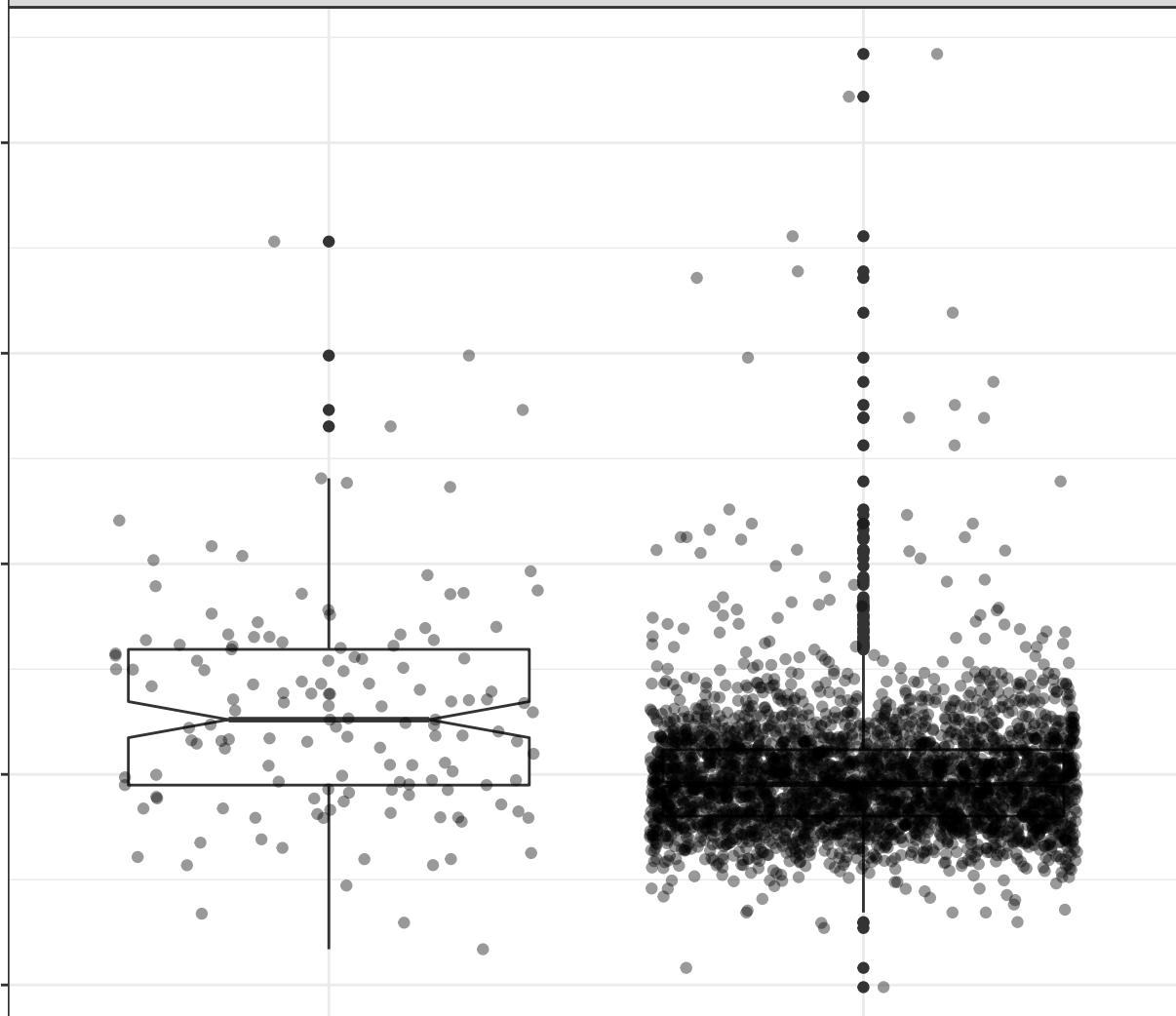
0.00

-0.05

Primary Tumor

Solid Tissue Normal

Tumor



Value

0.15

0.10

0.05

0.00

-0.05

Primary Tumor

Solid Tissue Normal

Tumor



# 154,KEGG\_CYSTEINE\_AND\_METHIONINE\_METABOLISM

Value

0.15

0.10

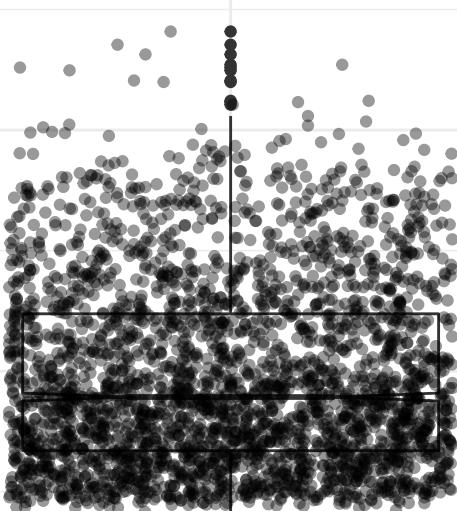
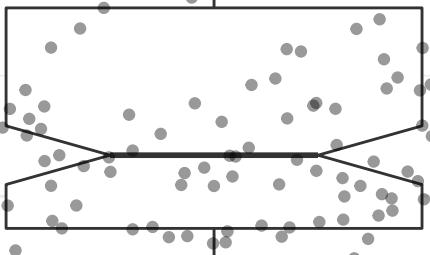
0.05

0.00

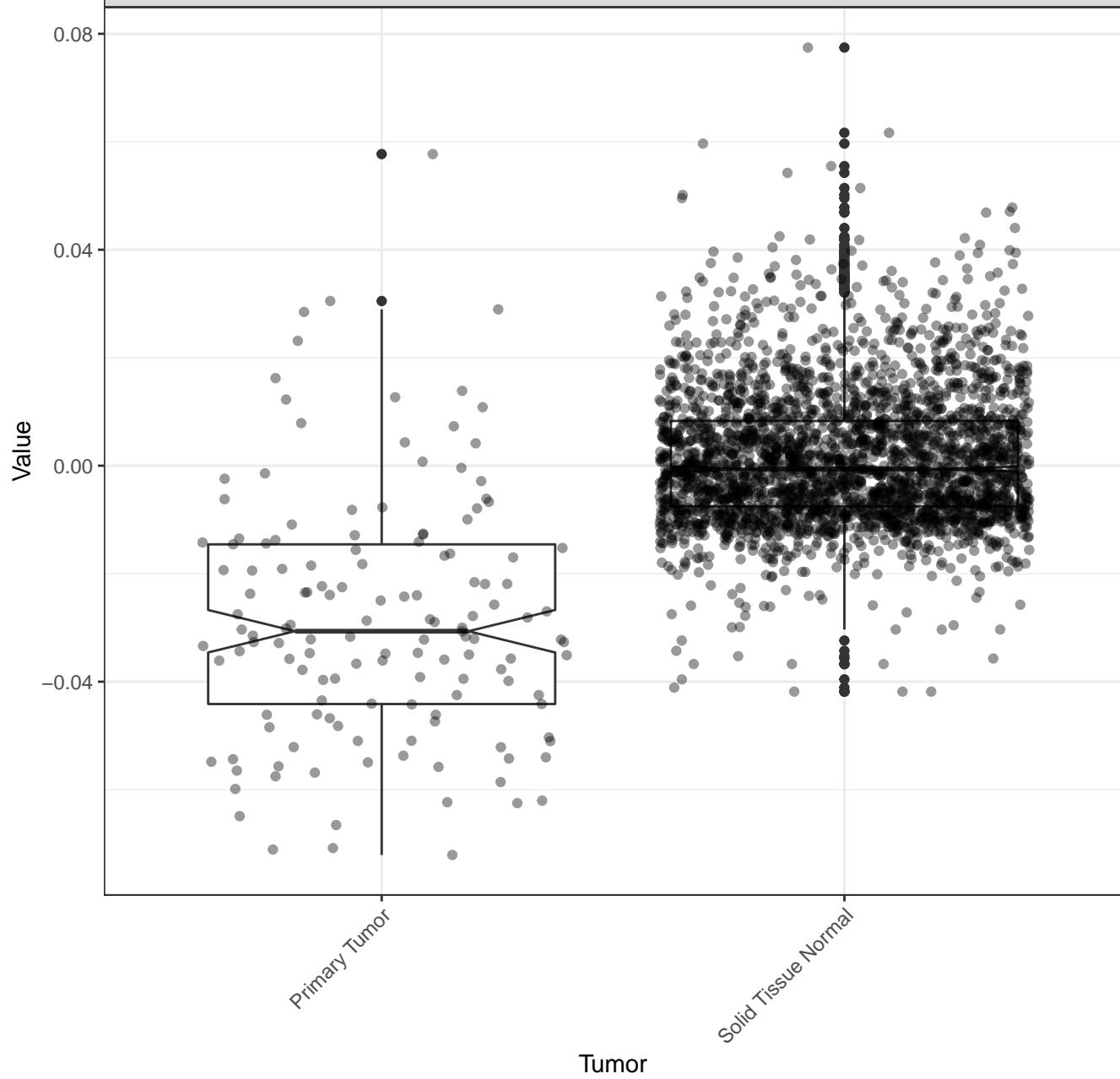
Primary Tumor

Solid Tissue Normal

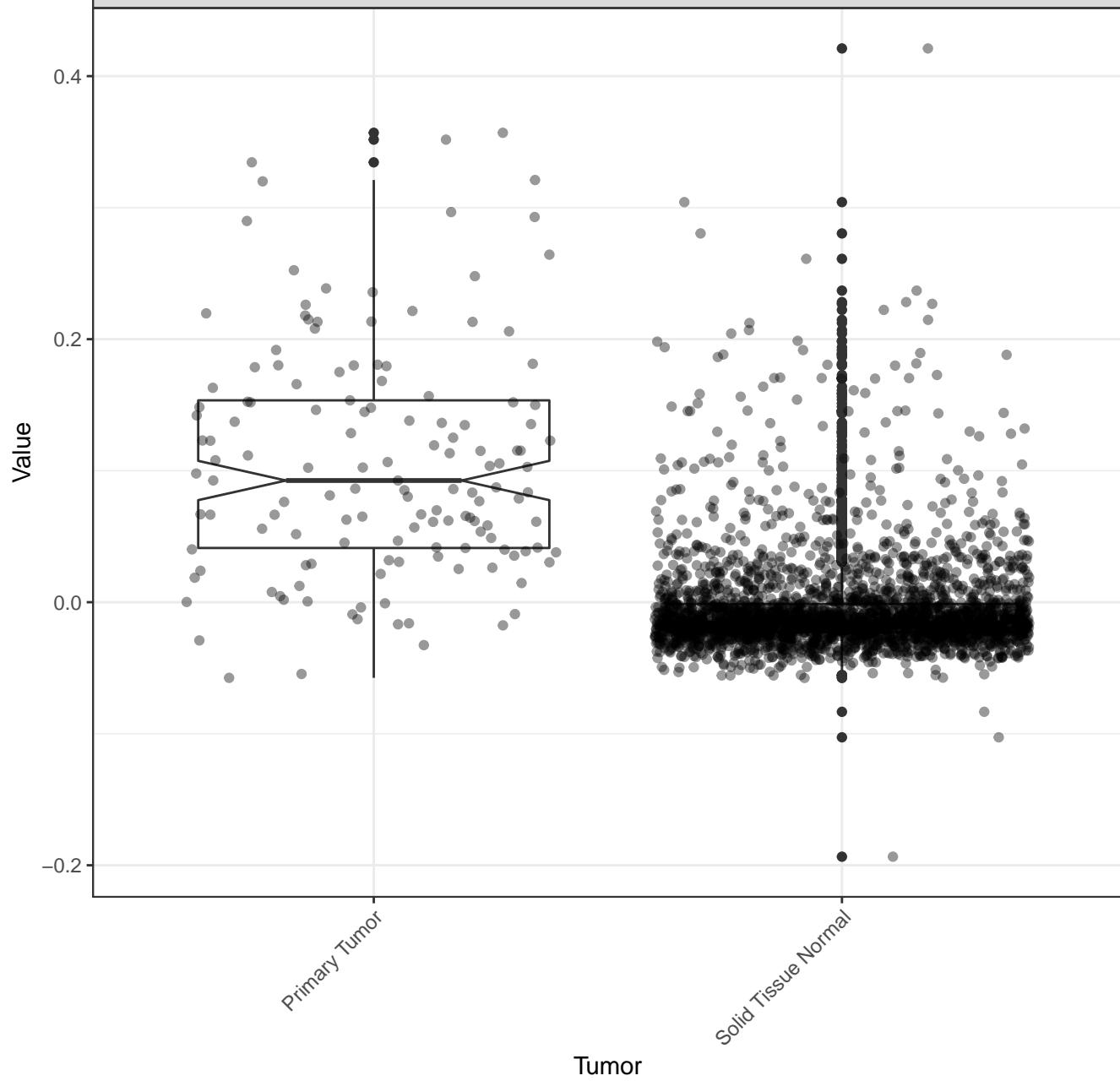
Tumor



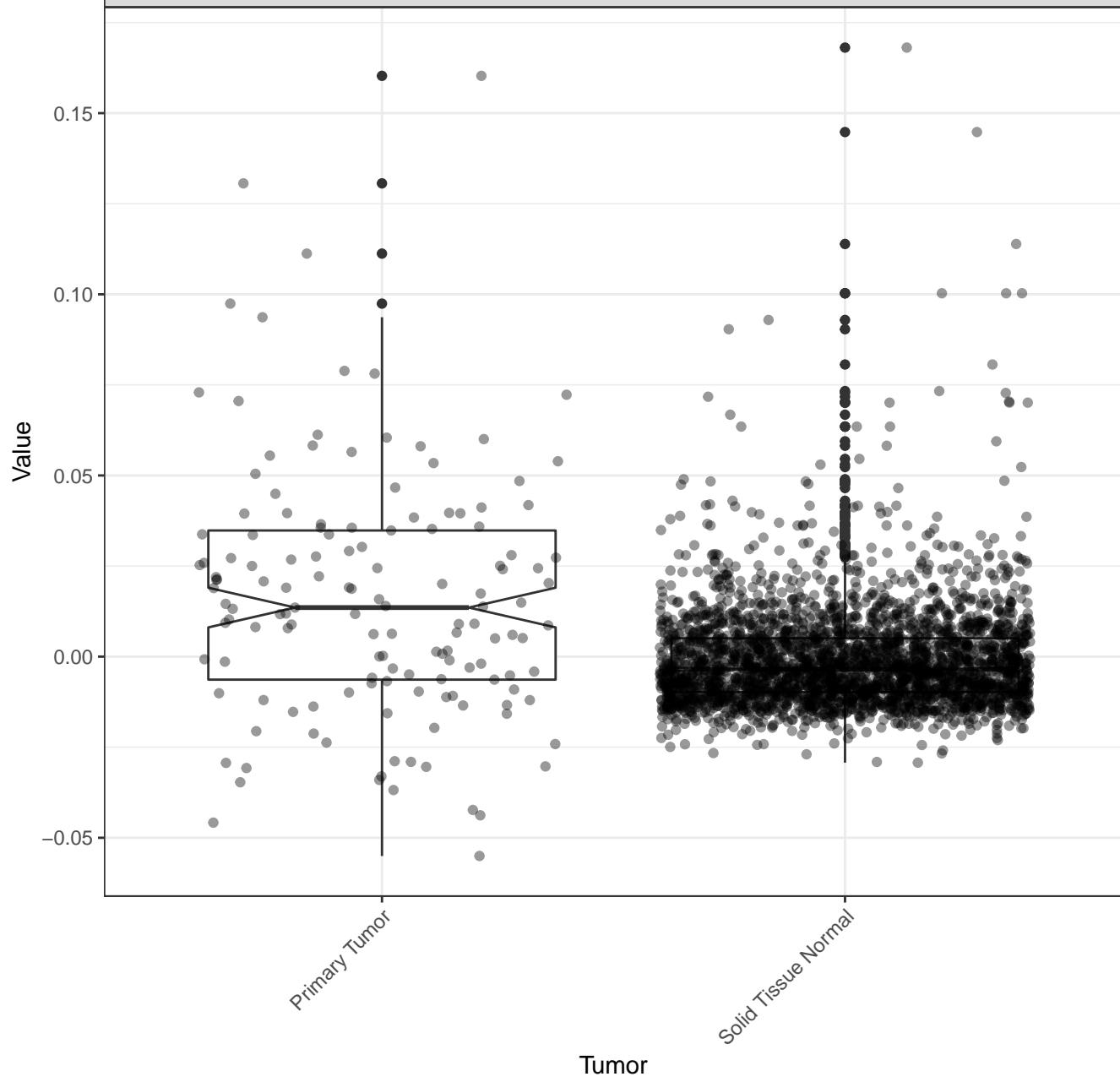
### 155,KEGG\_OOCYTE\_MEIOSIS



## 156,DMAP\_MONO2



## 157,PID\_HES\_HEYPATHWAY



Value

0.15

0.10

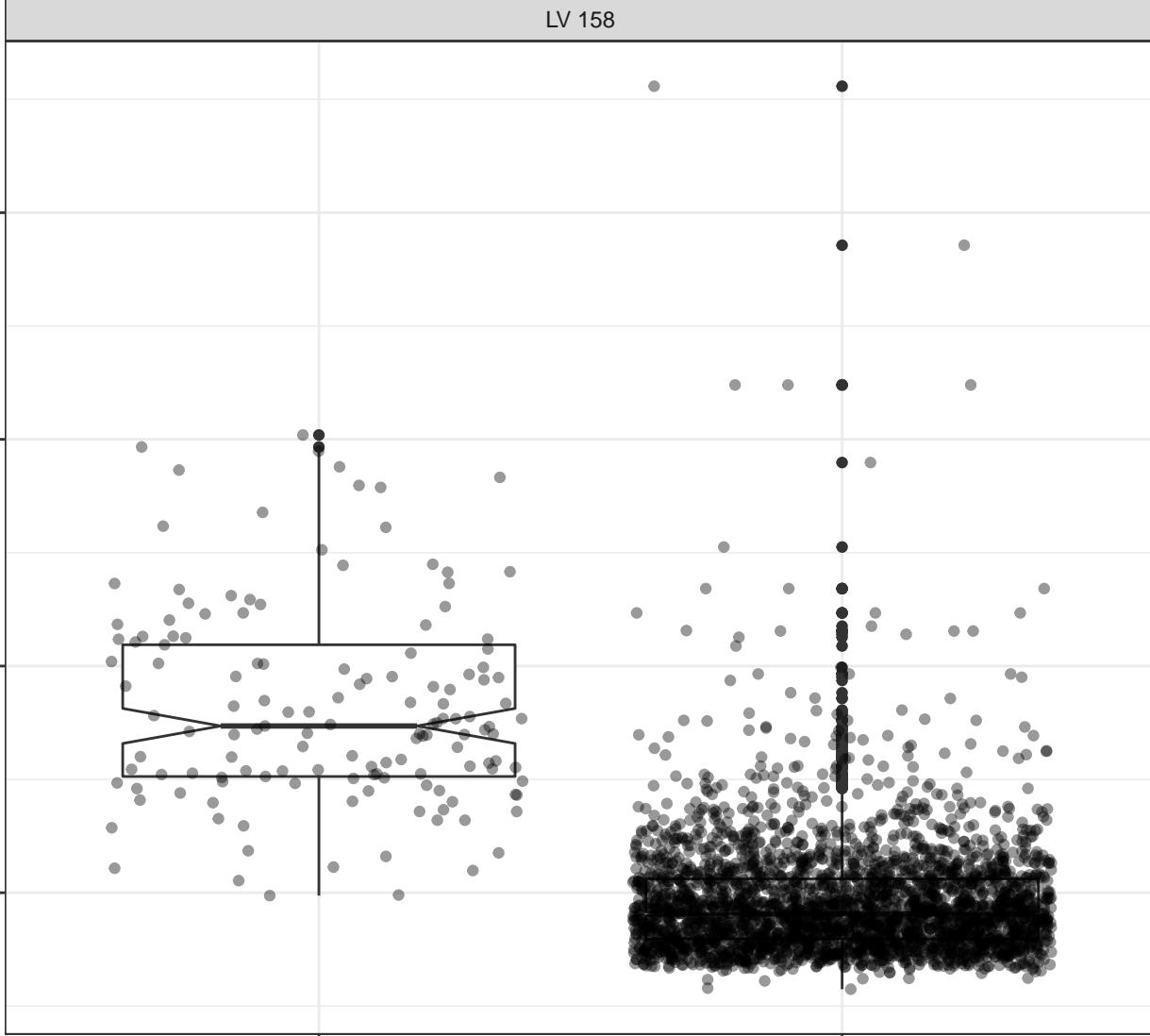
0.05

0.00

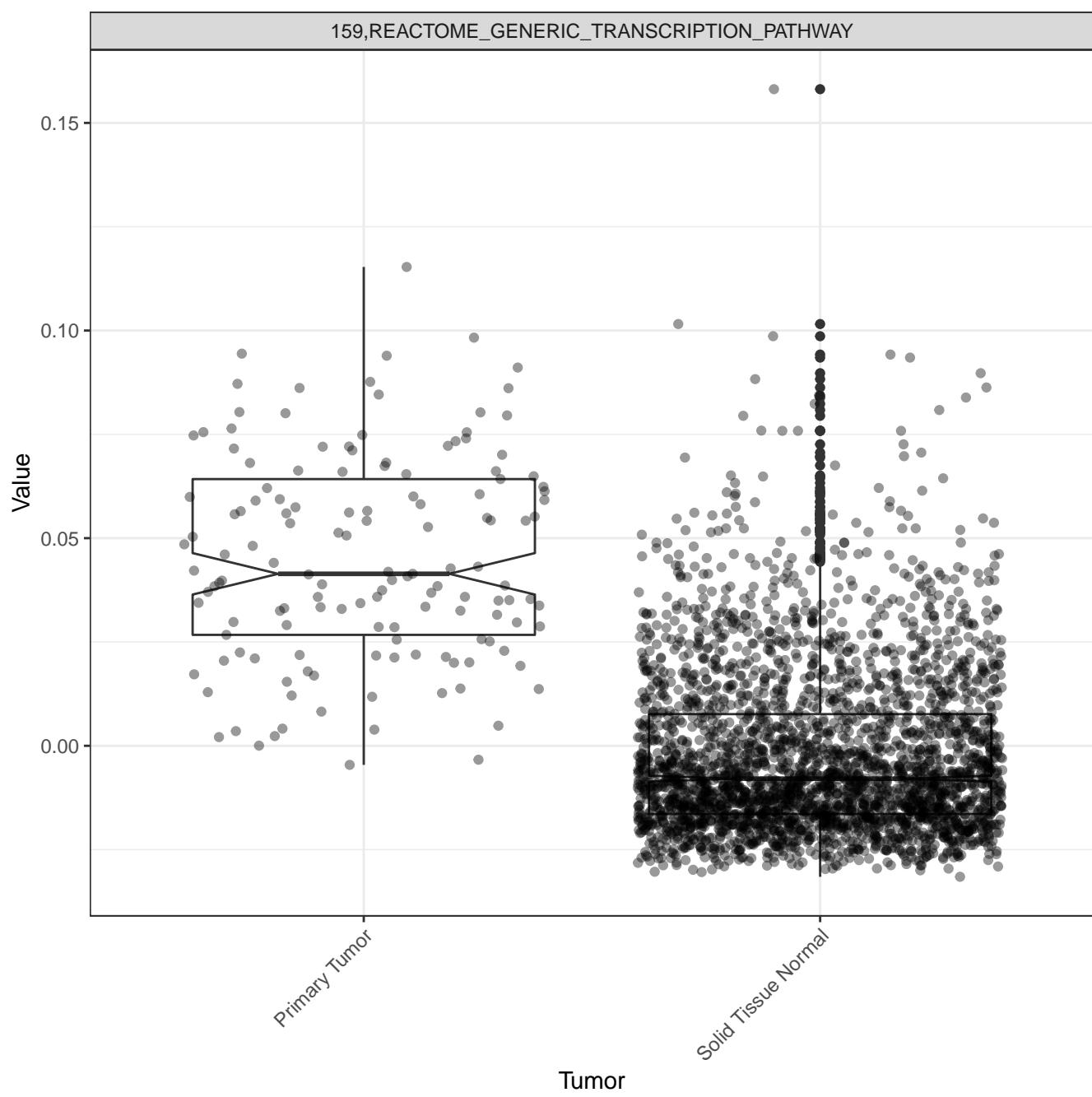
Primary Tumor

Solid Tissue Normal

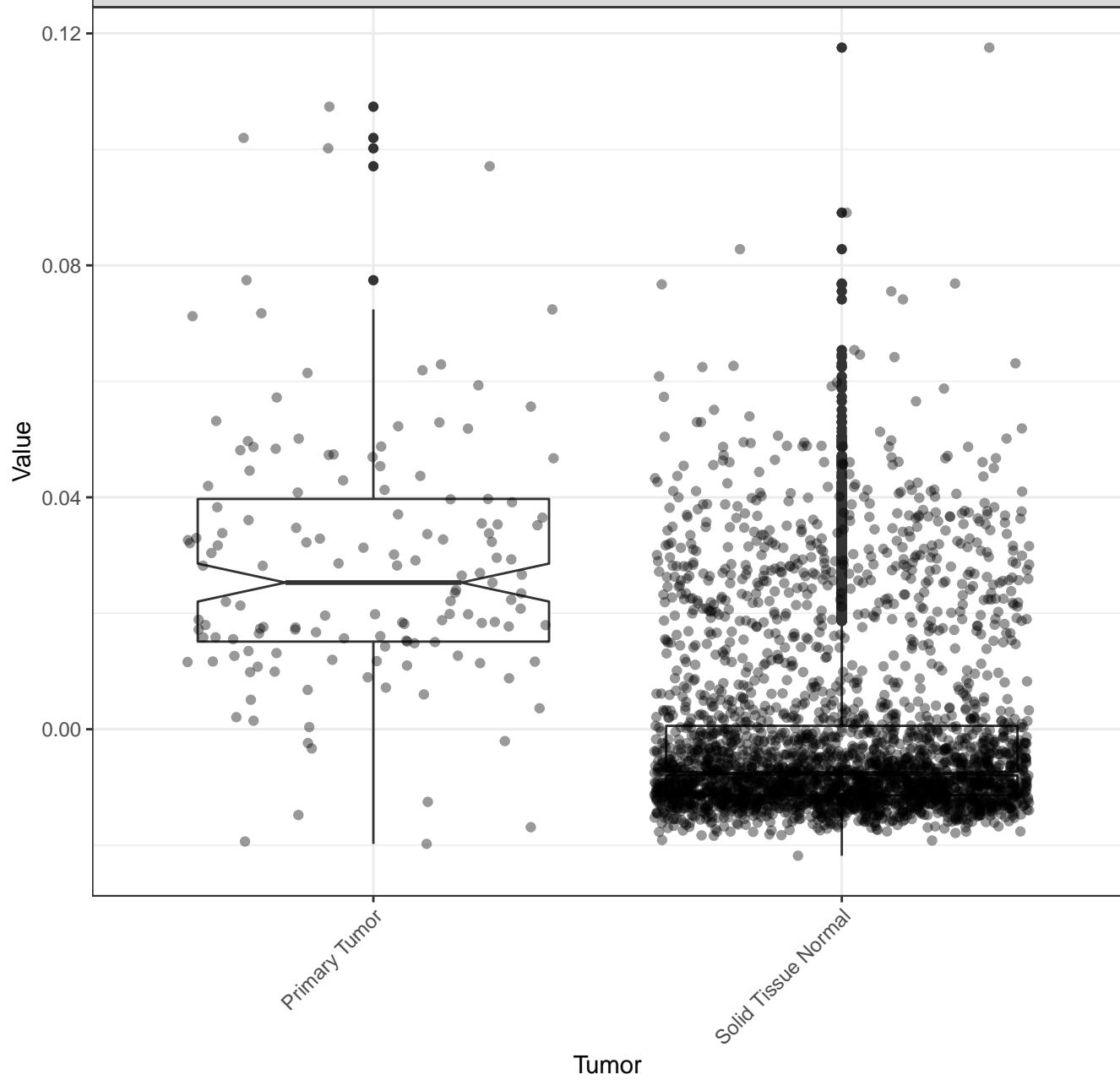
Tumor



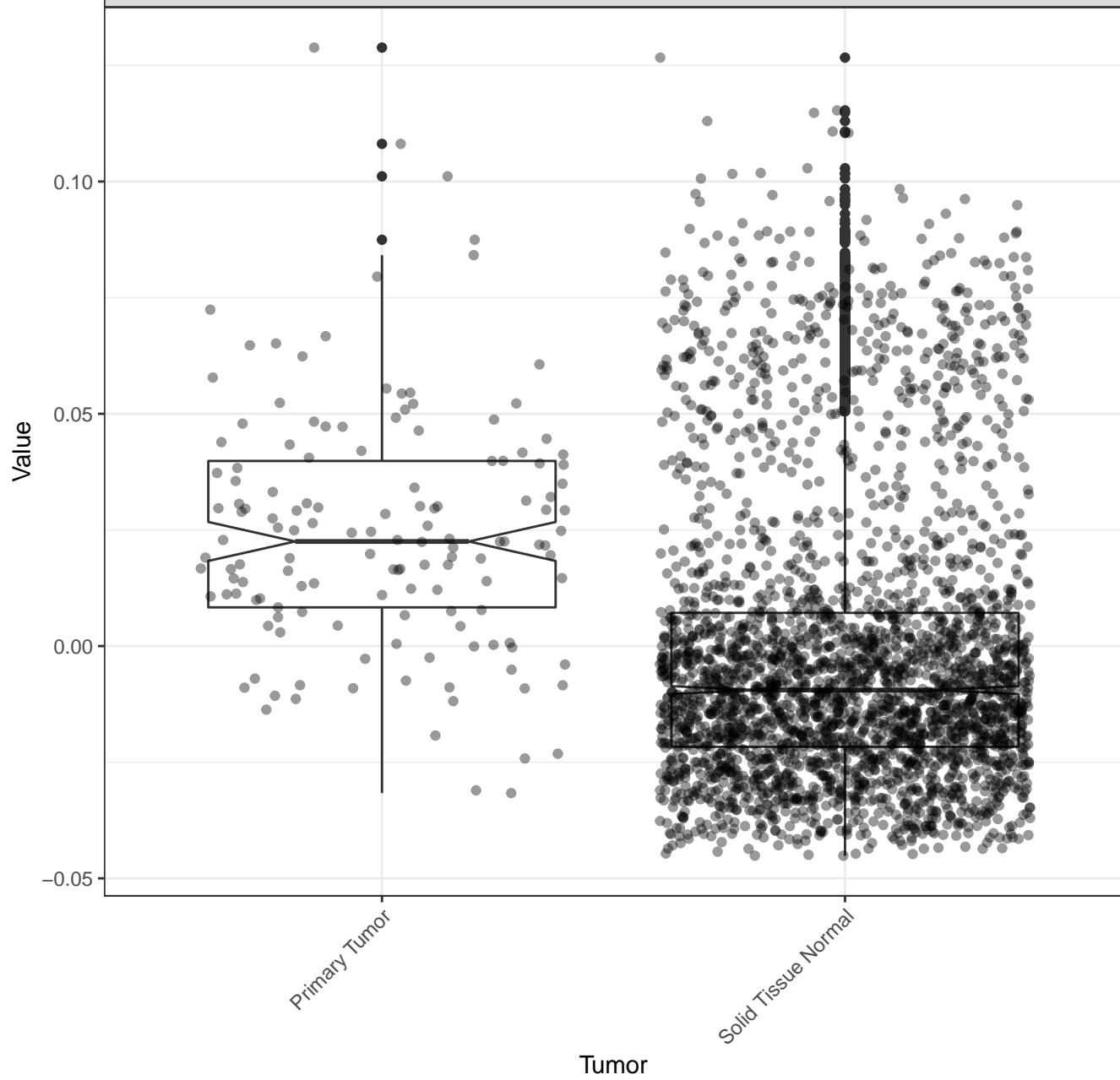
## 159,REACTOME\_GENERIC\_TRANSSCRIPTION\_PATHWAY



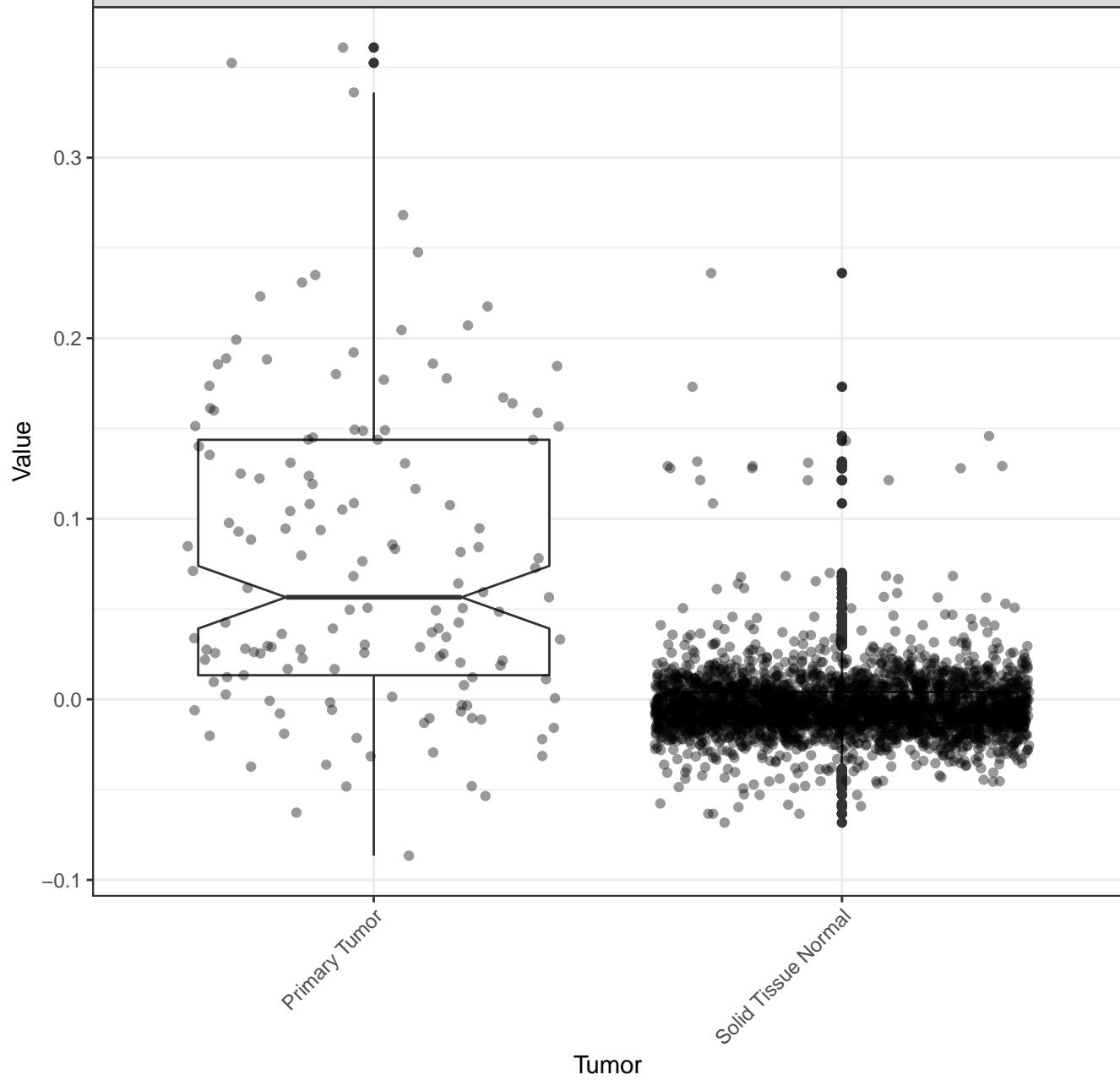
160,REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING



# 161,PID\_ARF6\_TRAFFICKINGPATHWAY



# 162,KEGG\_GLYCOLYSIS\_GLUCONEOGENESIS



# 163,KEGG\_COMPLEMENT\_AND\_COAGULATION\_CASCADES

Value

0.4

0.3

0.2

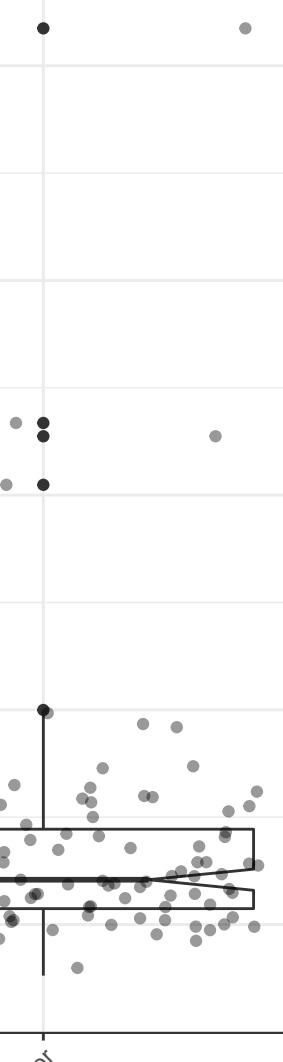
0.1

0.0

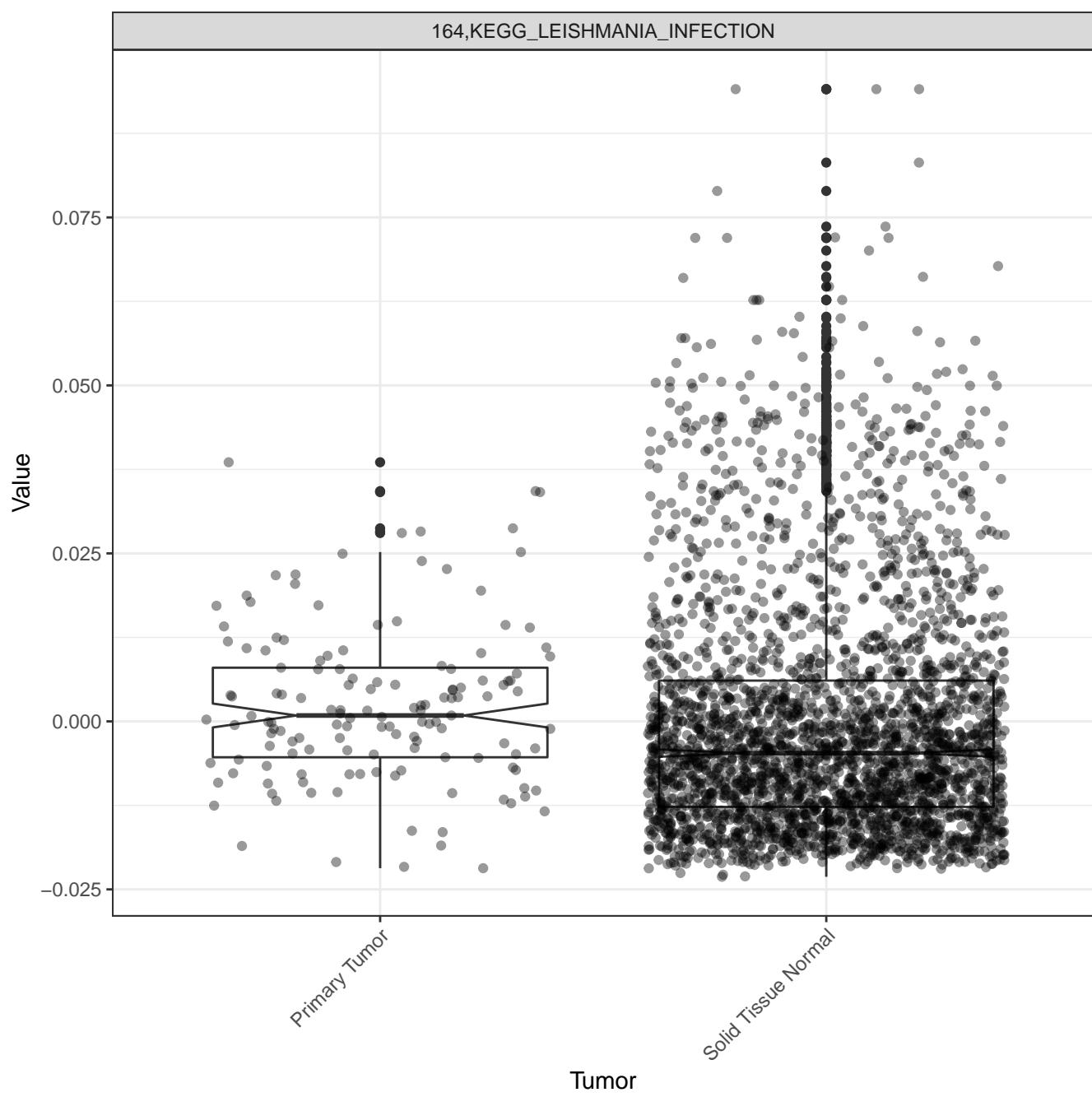
Primary Tumor

Solid Tissue Normal

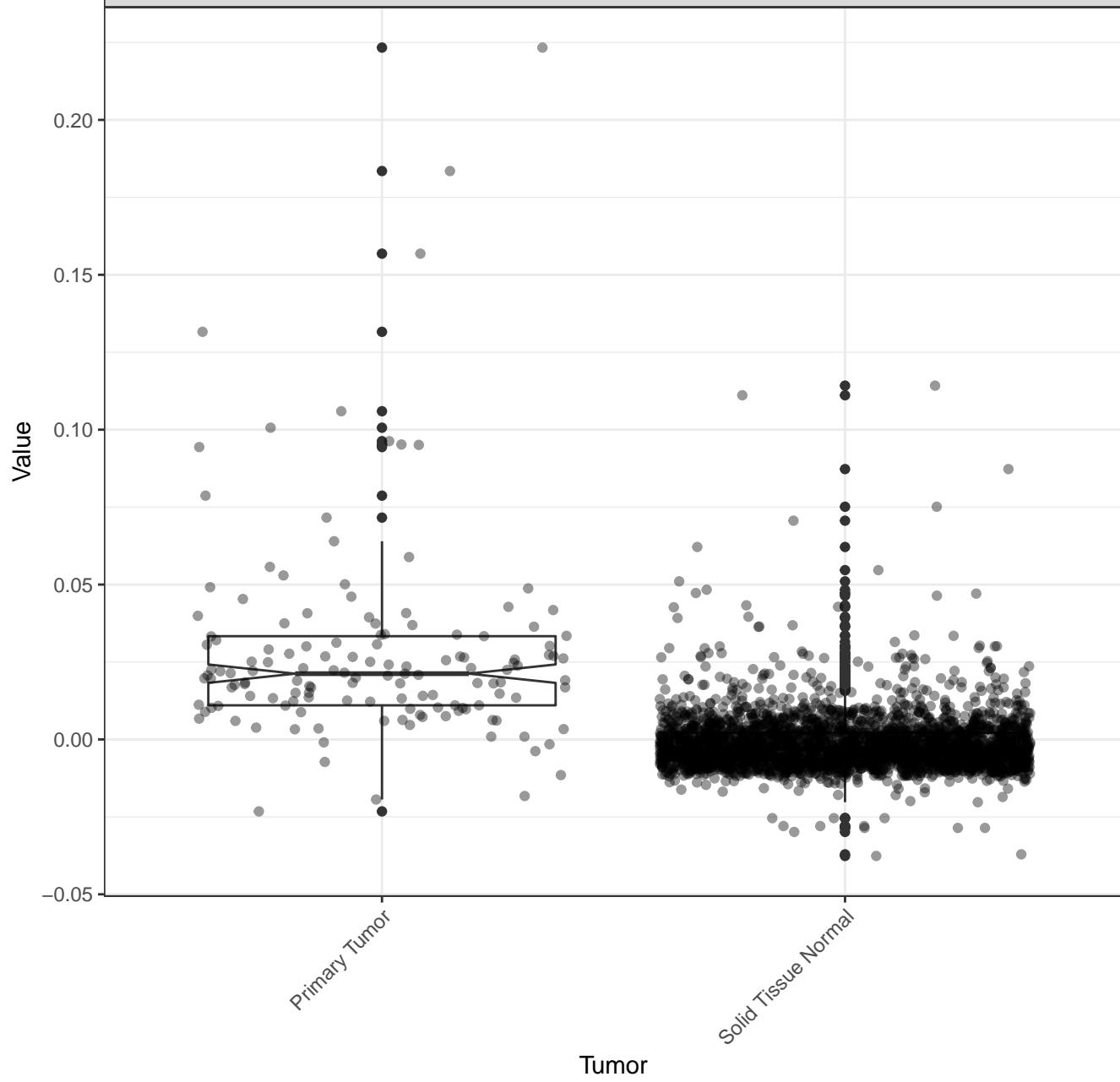
Tumor



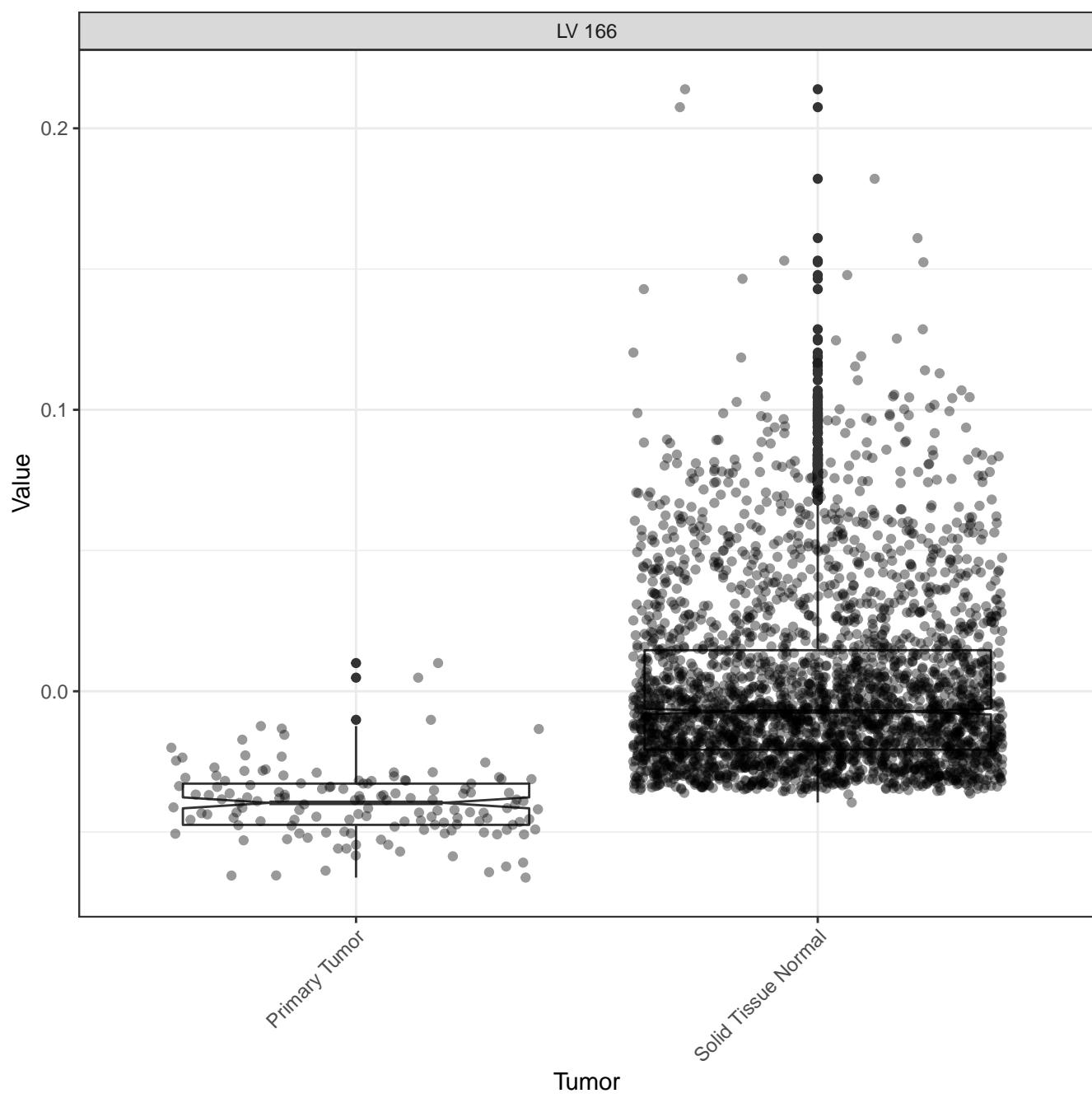
# 164,KEGG\_LEISHMANIA\_INFECT



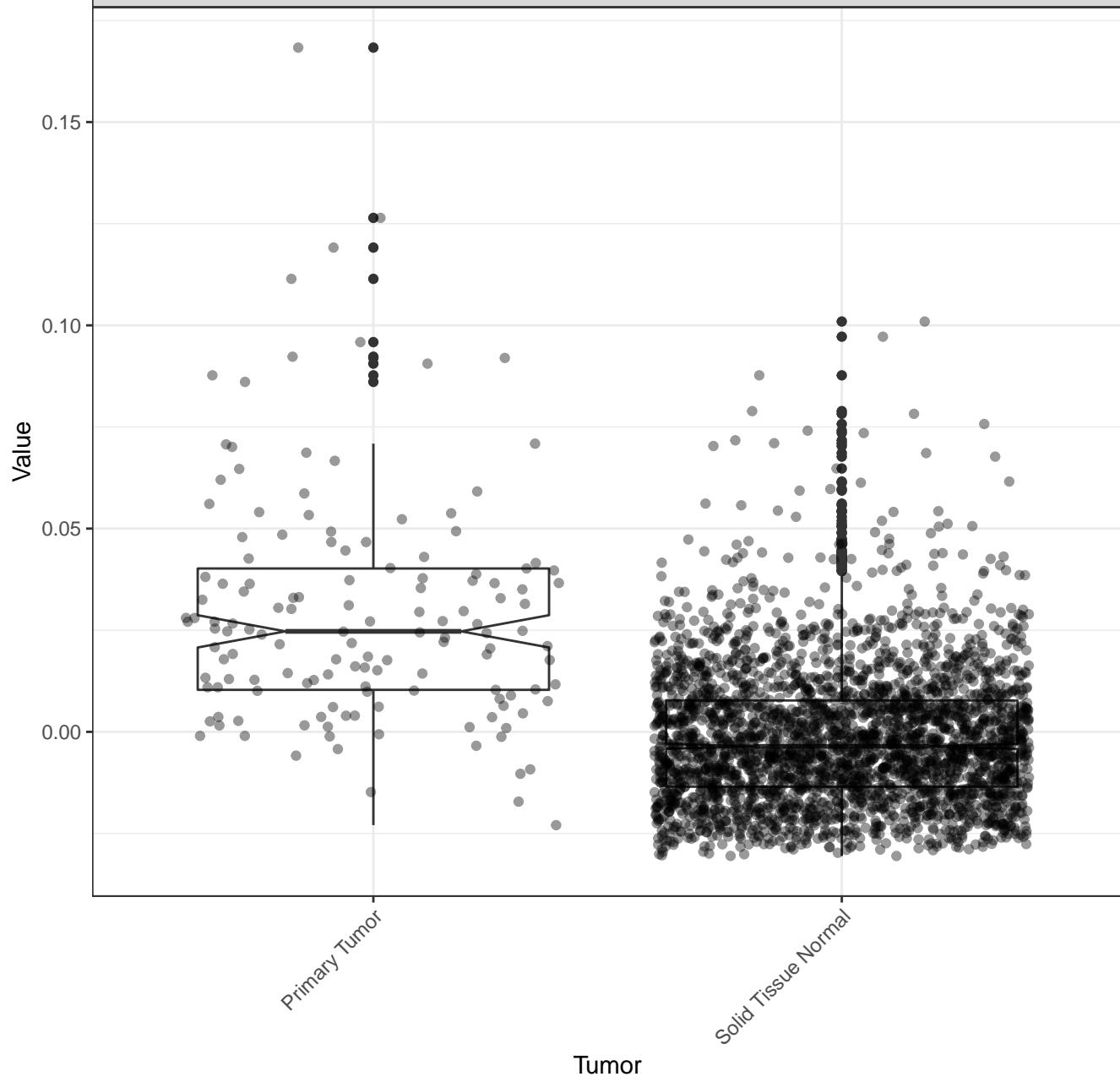
## 165,DMAP\_MECA1



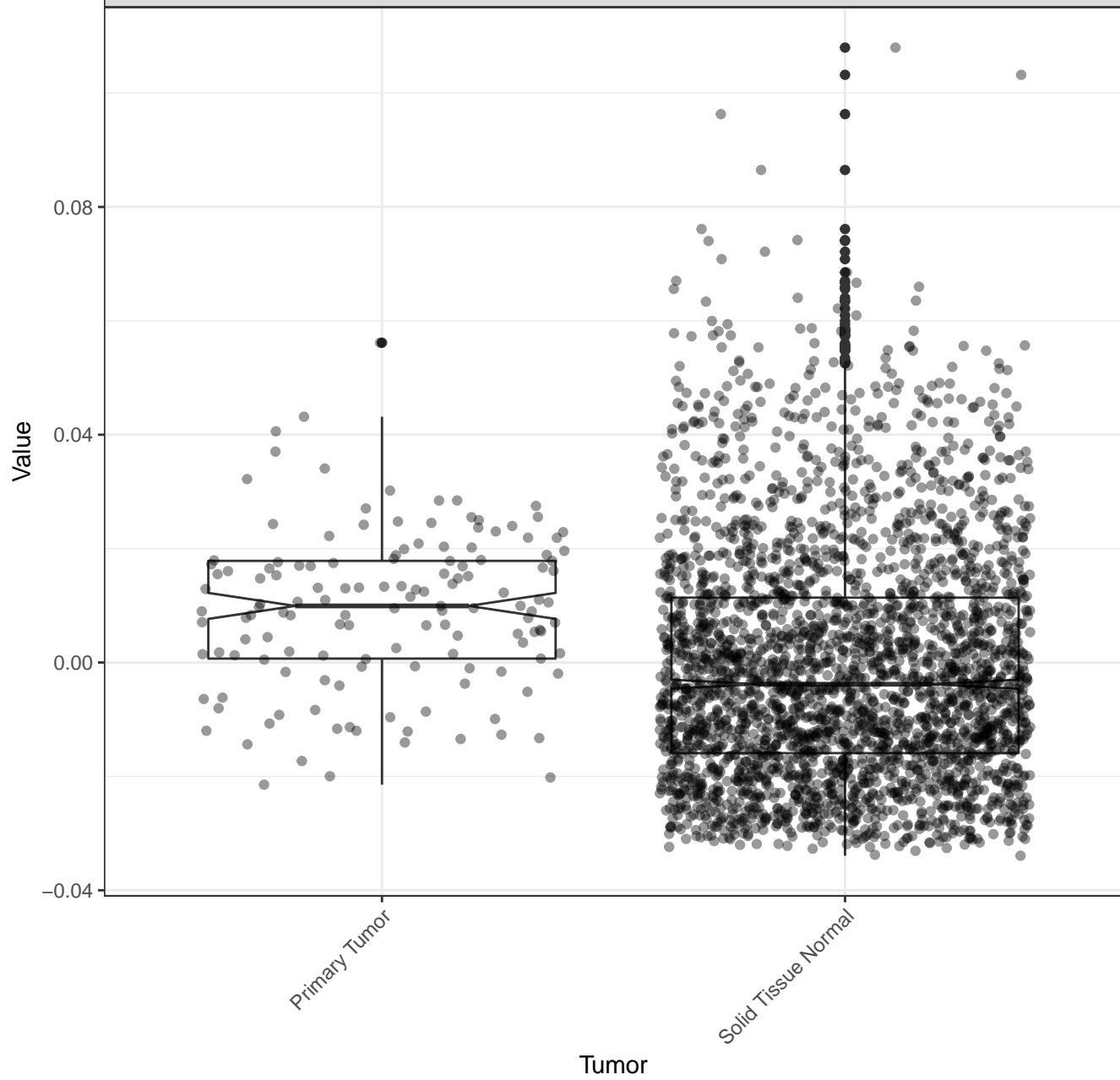
LV 166



## 167,PID\_LKB1\_PATHWAY



## 168,REACTOME\_DOWNSTREAM\_SIGNALING\_EVENTS\_OF\_B\_CELL\_RECECTOR\_BCR



# 169,REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES

Value

0.3

0.2

0.1

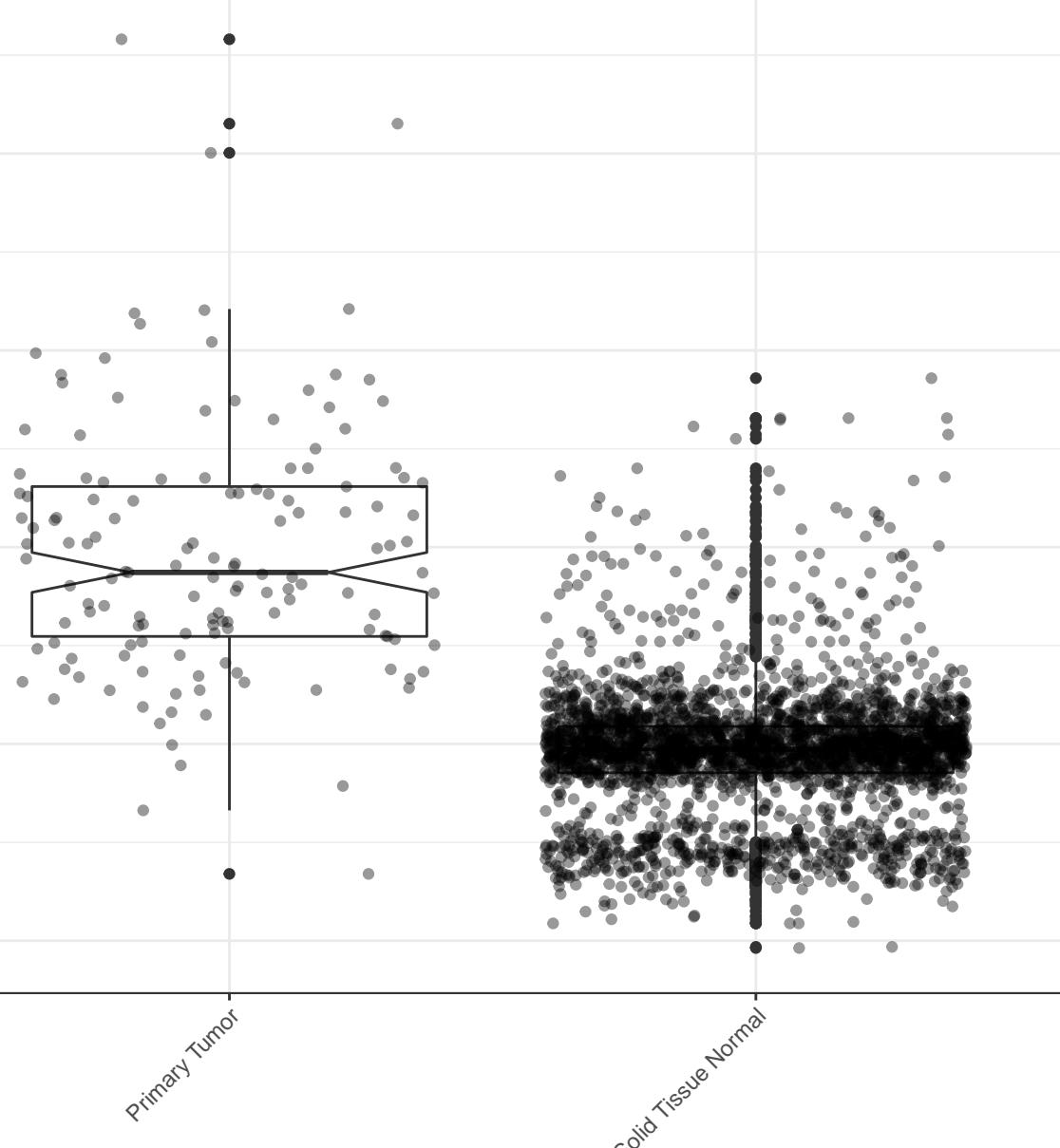
0.0

-0.1

Primary Tumor

Tumor

Solid Tissue Normal



# 170,KEGG\_TOLL\_LIKE\_RECEPTOR\_SIGNALING\_PATHWAY

Value

0.3

0.2

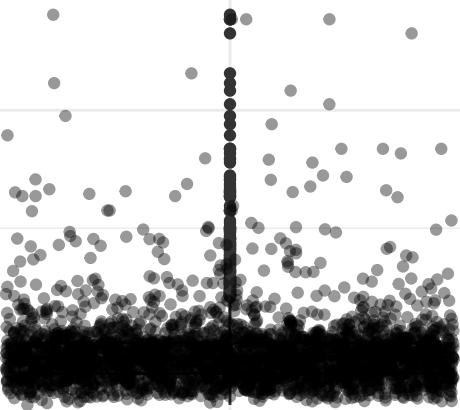
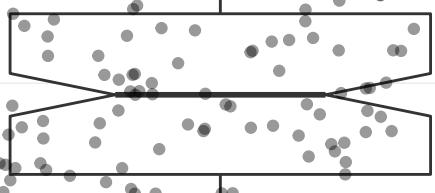
0.1

0.0

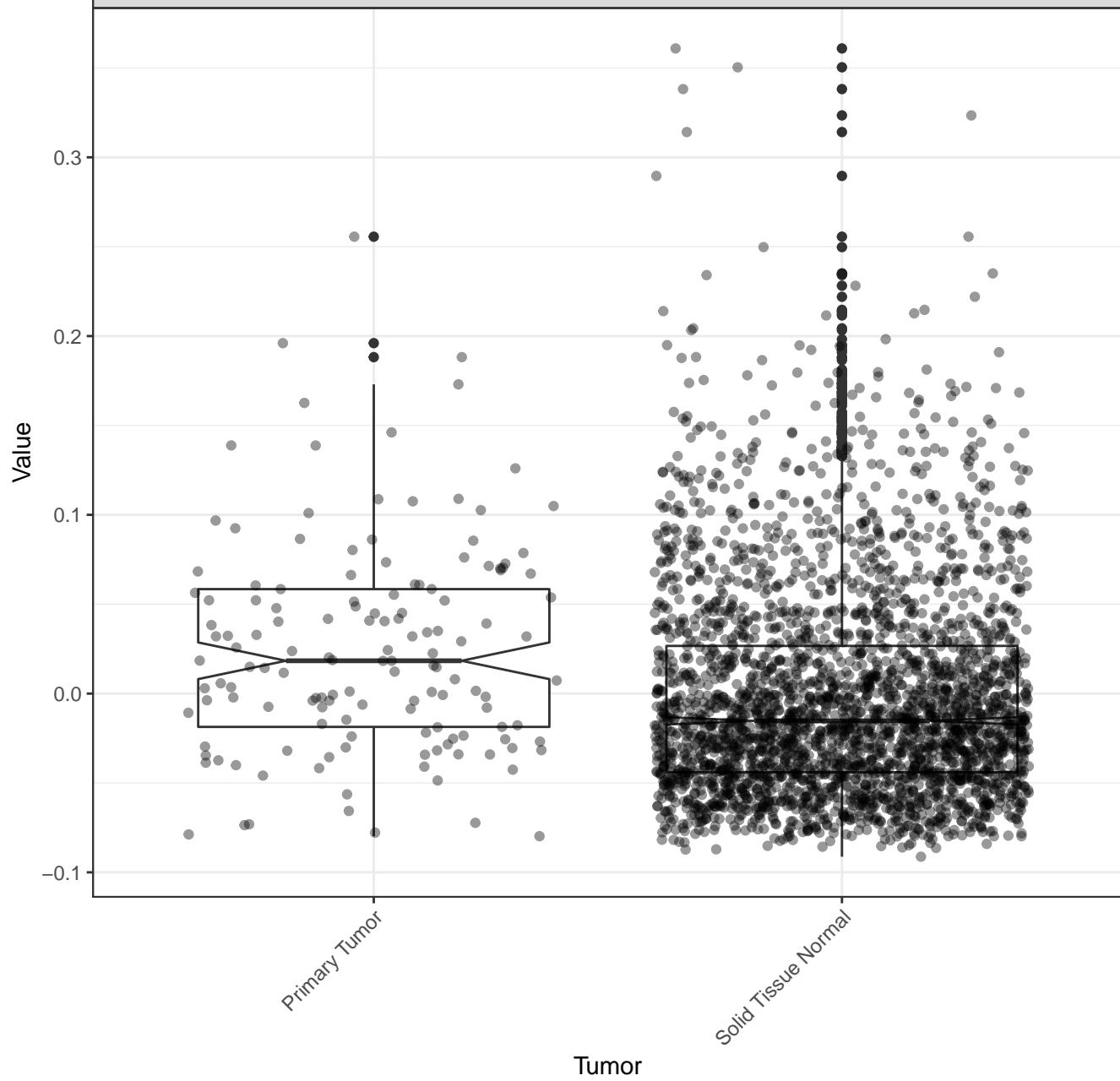
Primary Tumor

Solid Tissue Normal

Tumor



# 171,REACTOME\_LATE\_PHASE\_OF\_HIV\_LIFE\_CYCLE



## 172,REACTOME\_DEADENYLATION\_DEPENDENT\_MRNA\_DECAY

Value

0.075

0.050

0.025

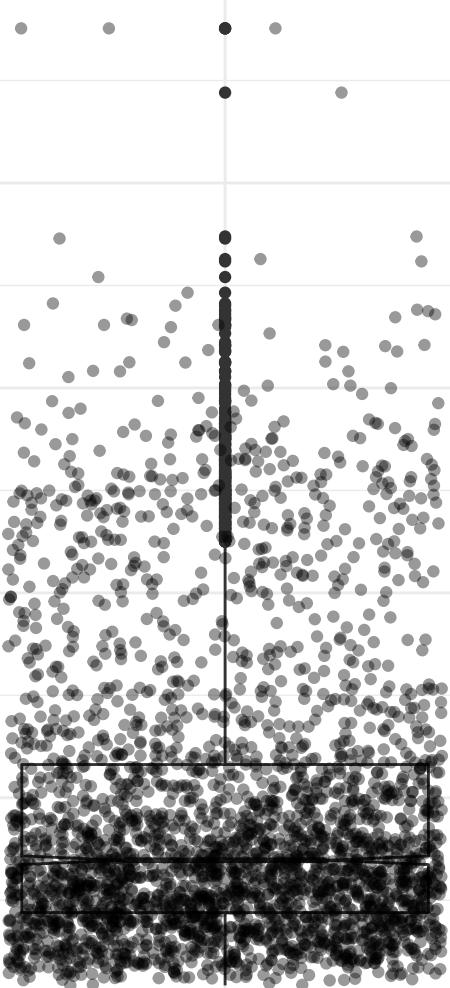
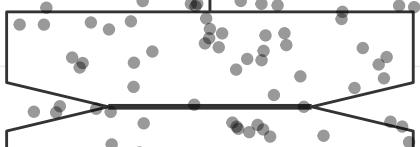
0.000

-0.025

Primary Tumor

Solid Tissue Normal

Tumor



LV 173

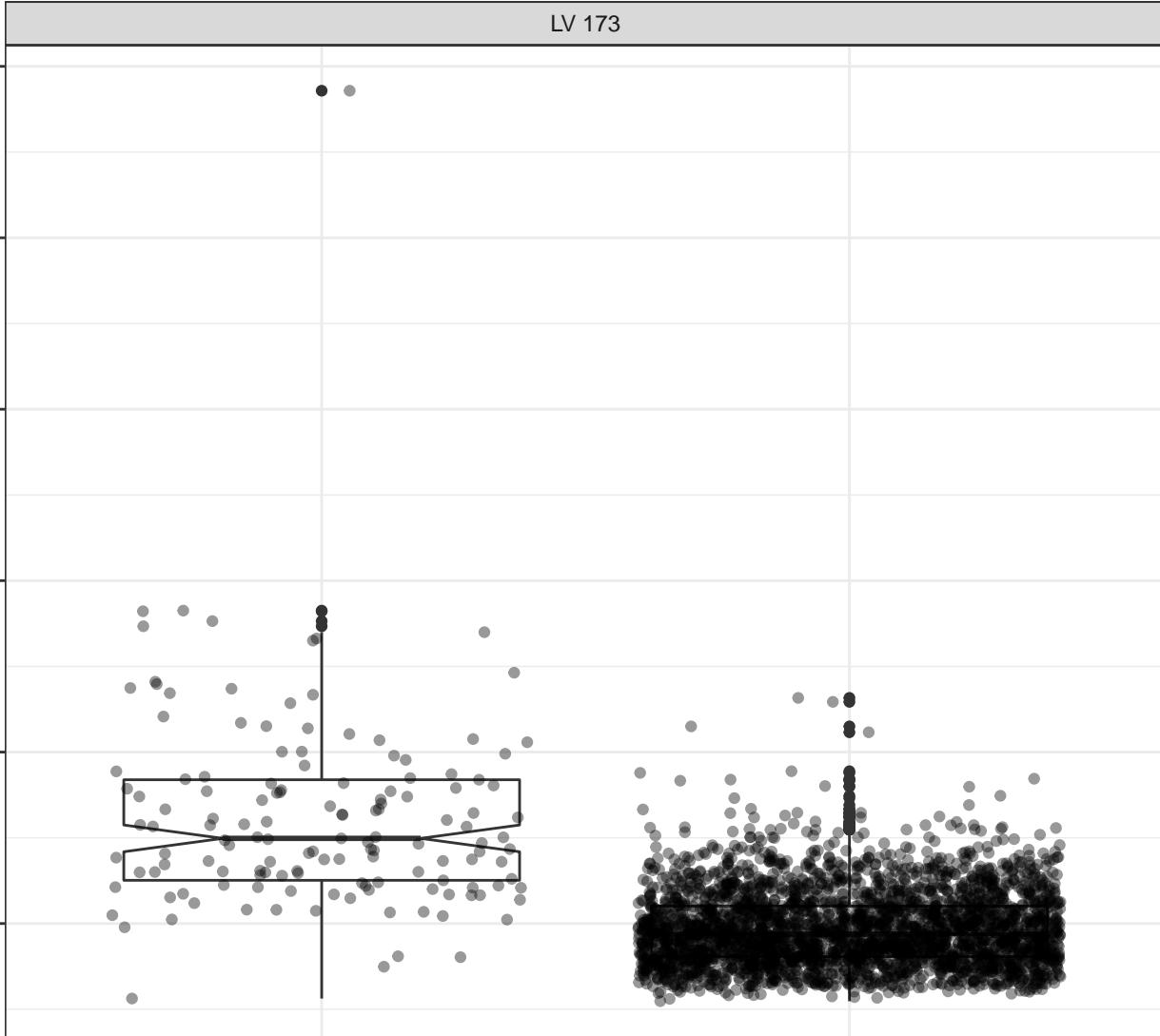
Value

0.25  
0.20  
0.15  
0.10  
0.05  
0.00

Primary Tumor

Solid Tissue Normal

Tumor



174,REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES

Value

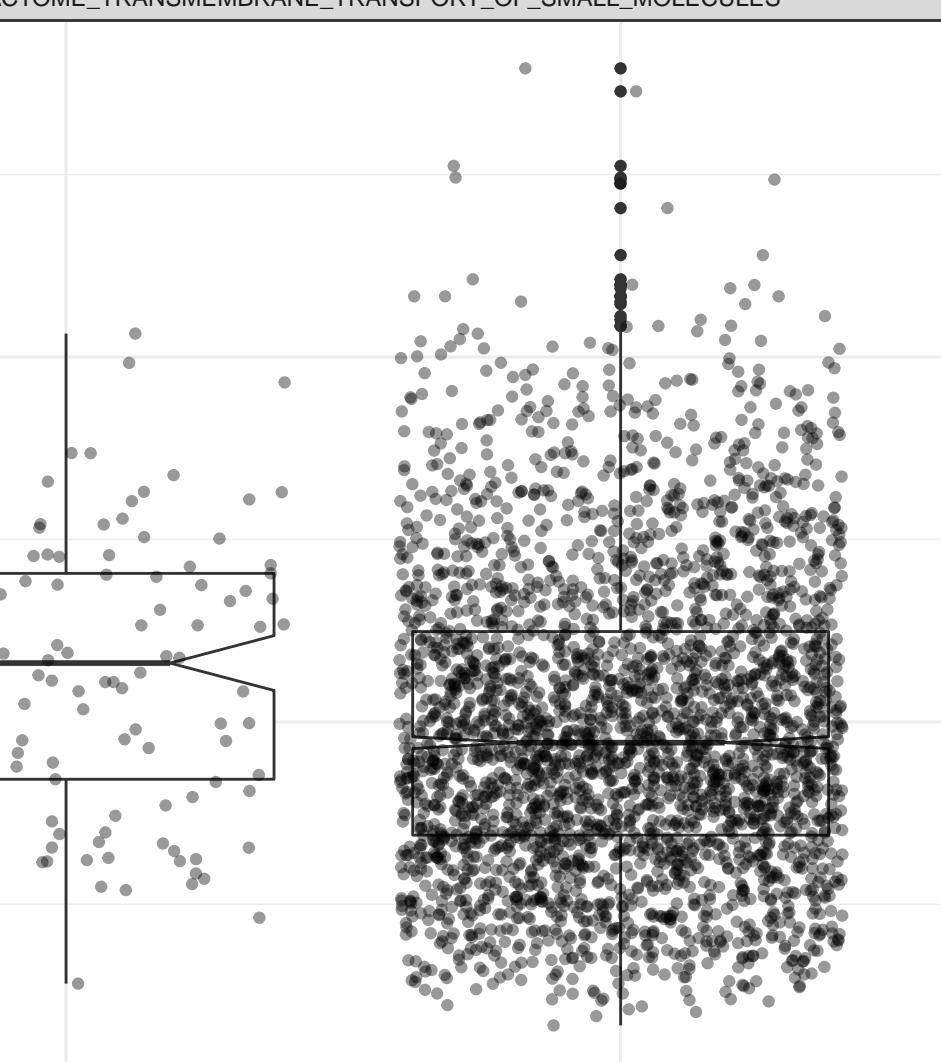
0.05

0.00

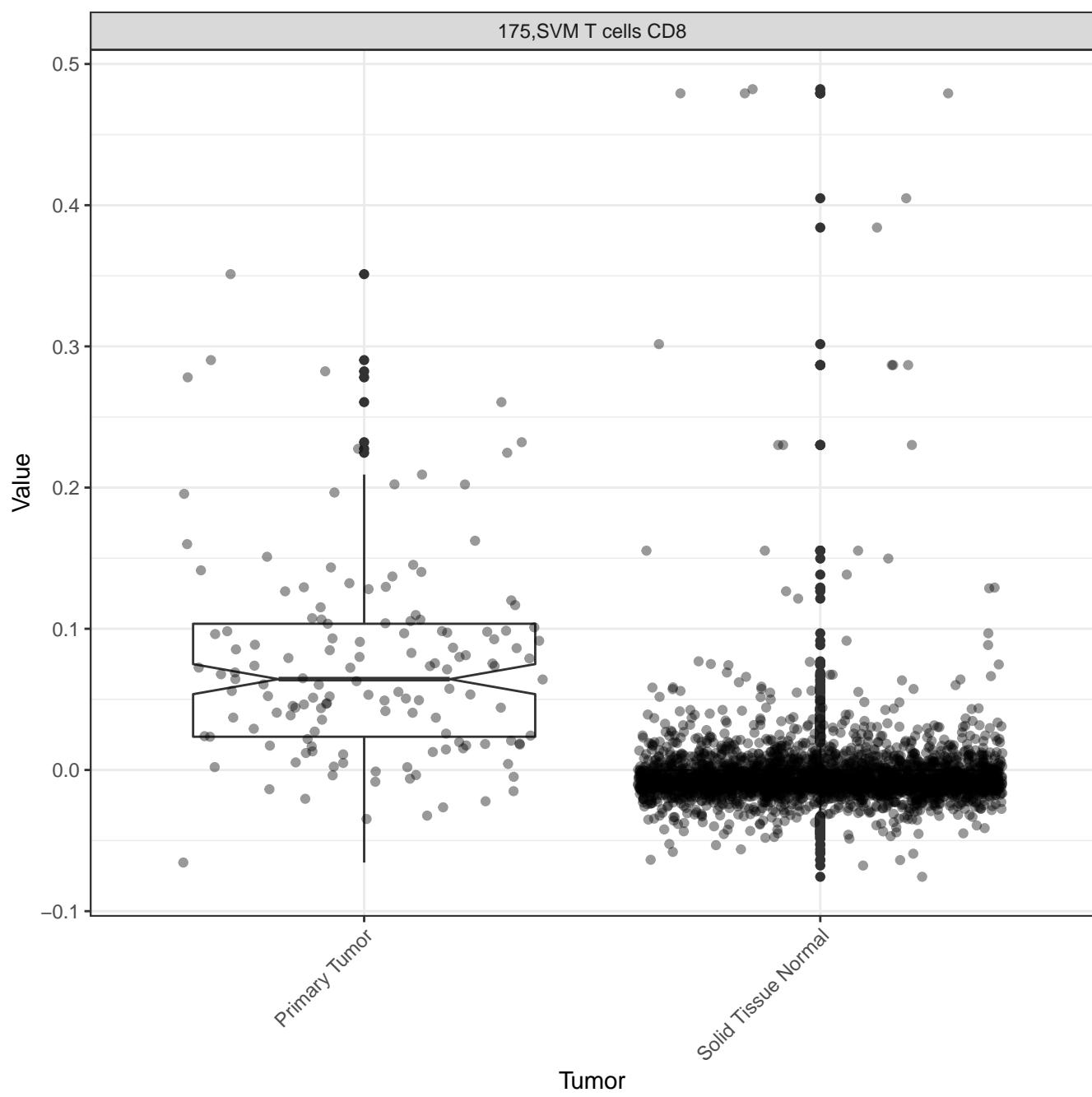
Primary Tumor

Tumor

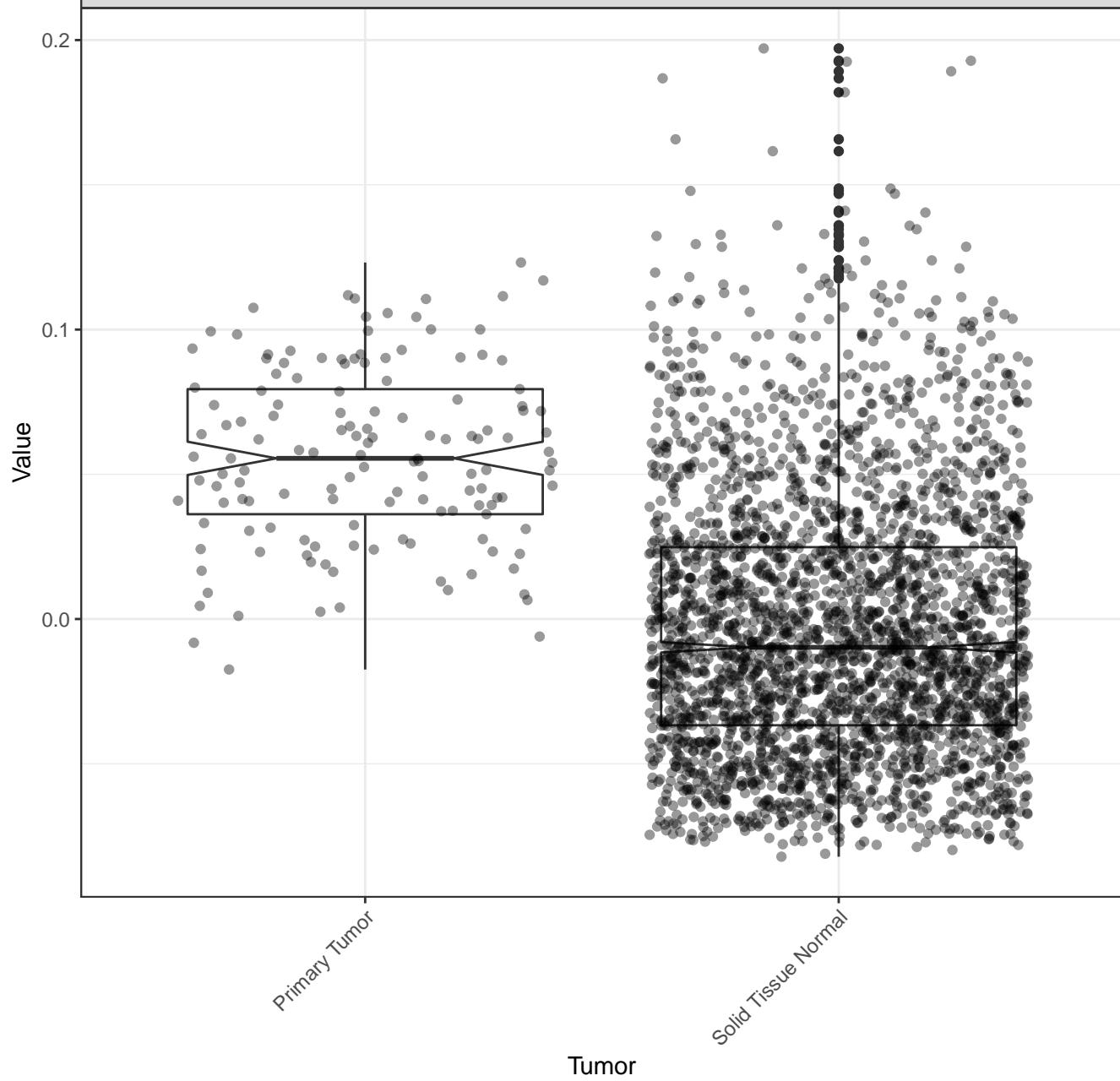
Solid Tissue Normal



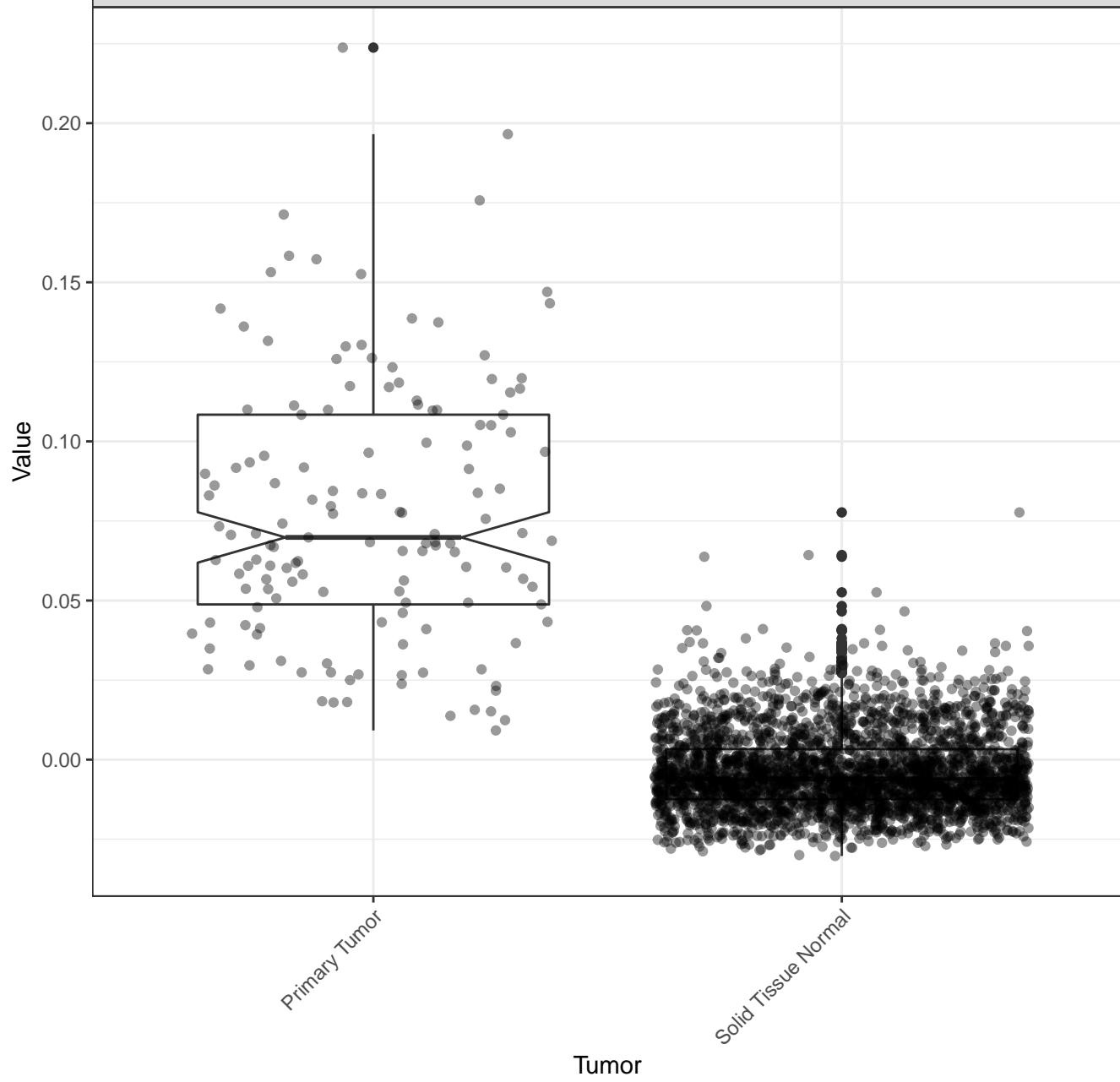
# 175,SVM T cells CD8



# 176,KEGG\_UBIQUITIN\_MEDIATED\_PROTEOLYSIS



## 177,PID\_CDC42\_PATHWAY



LV 178

Value

0.15

0.10

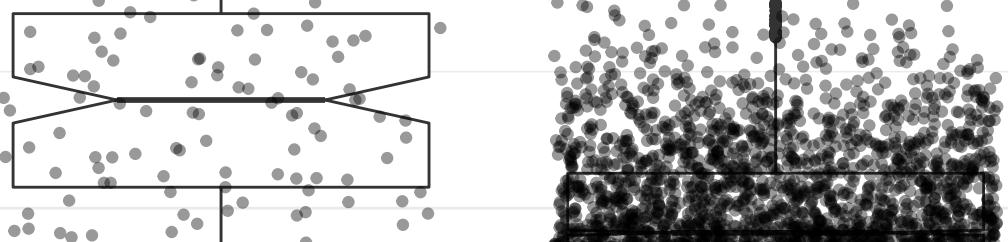
0.05

0.00

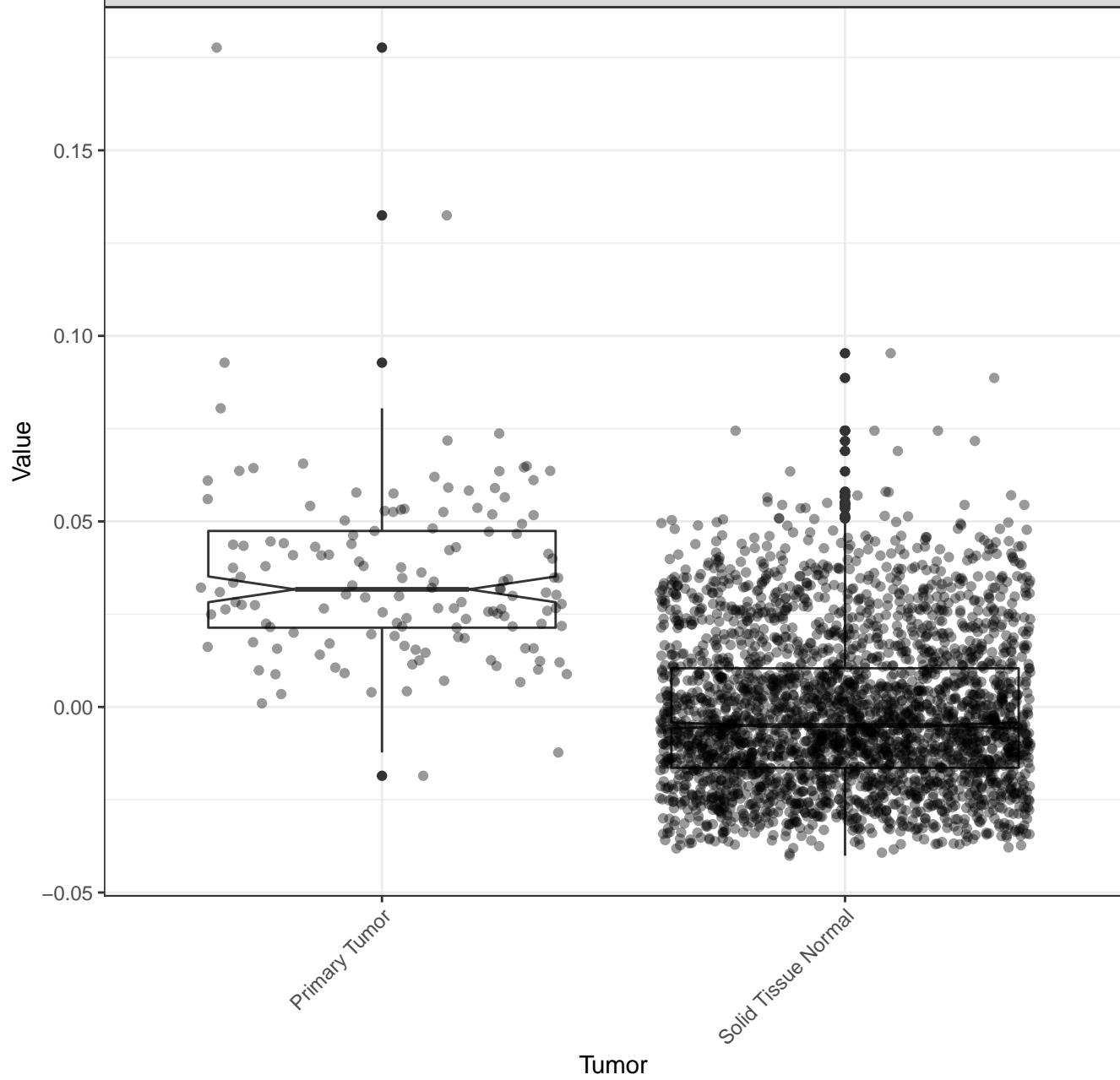
Primary Tumor

Solid Tissue Normal

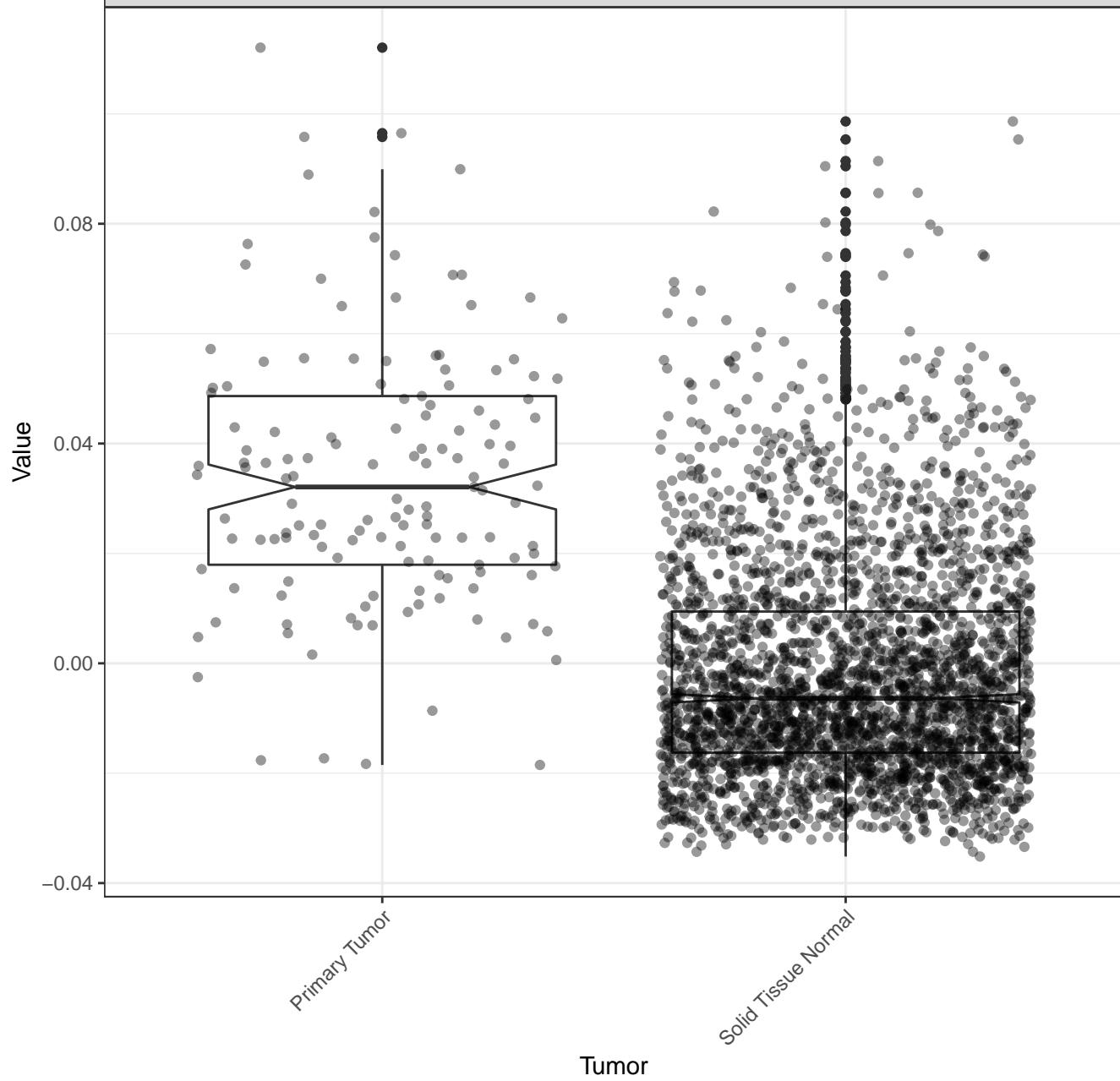
Tumor

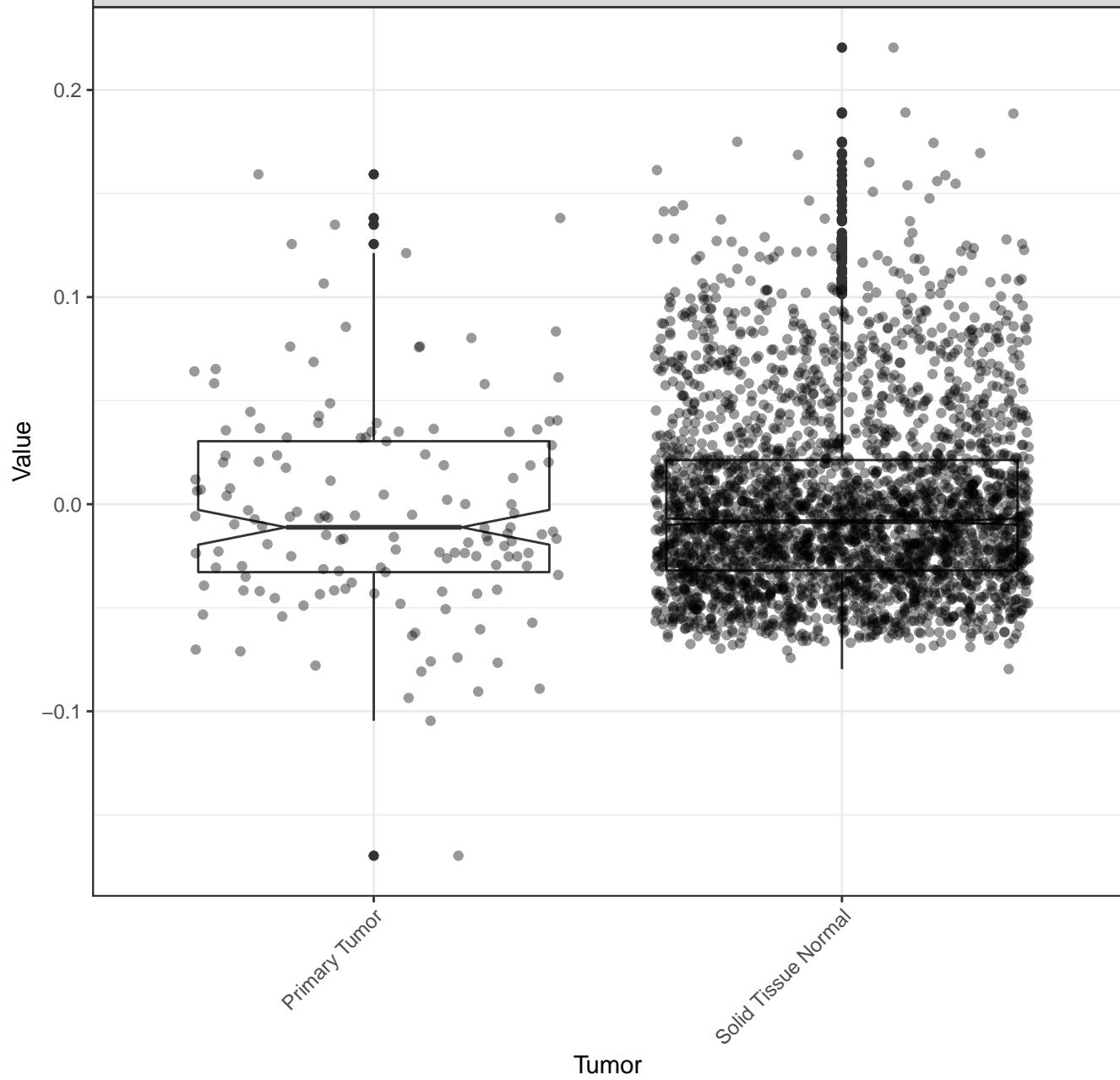


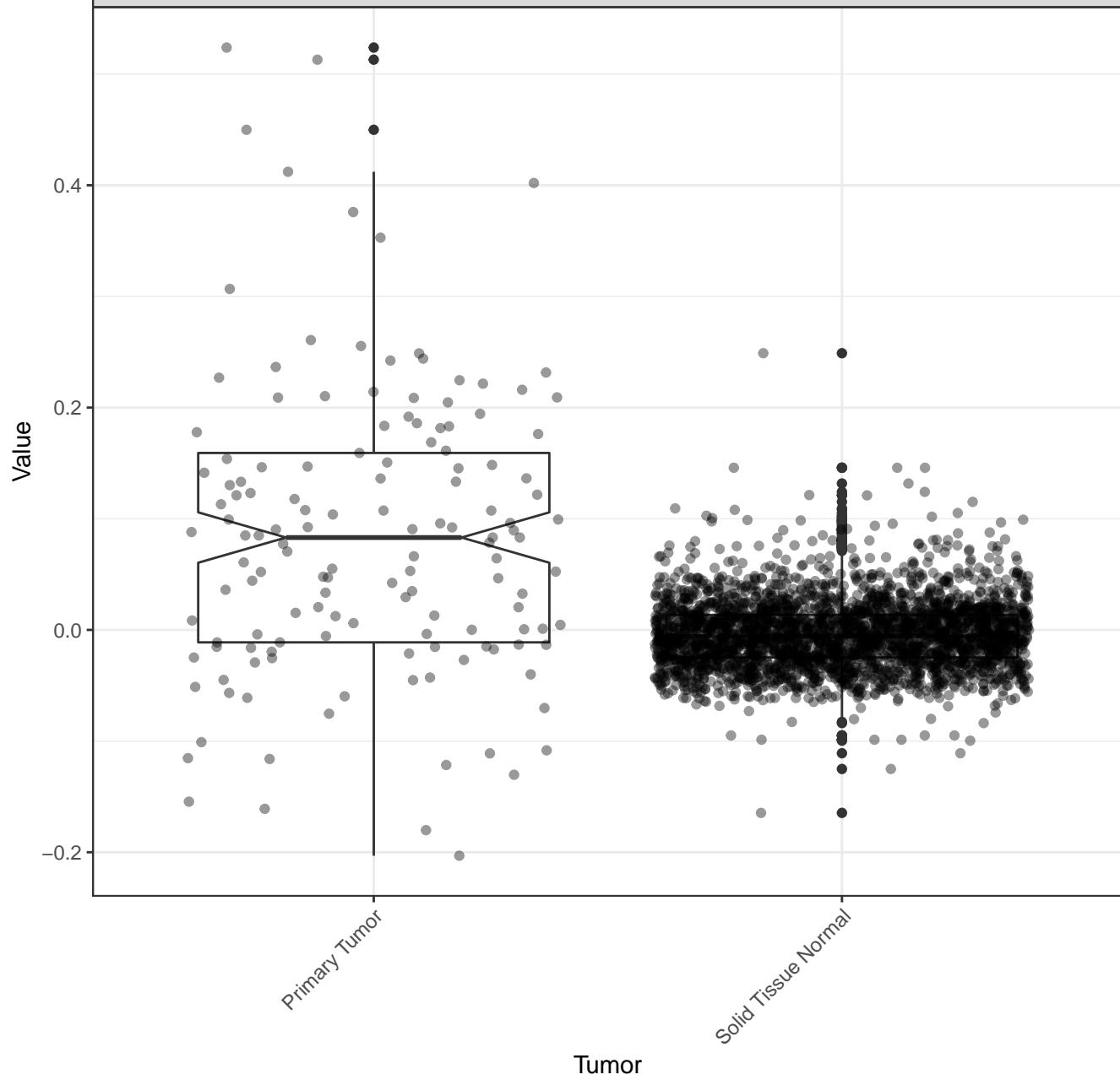
# 179,REACTOME\_AMINO\_ACID\_AND\_OLIGOPEPTIDE\_SLC\_TRANSPORTERS



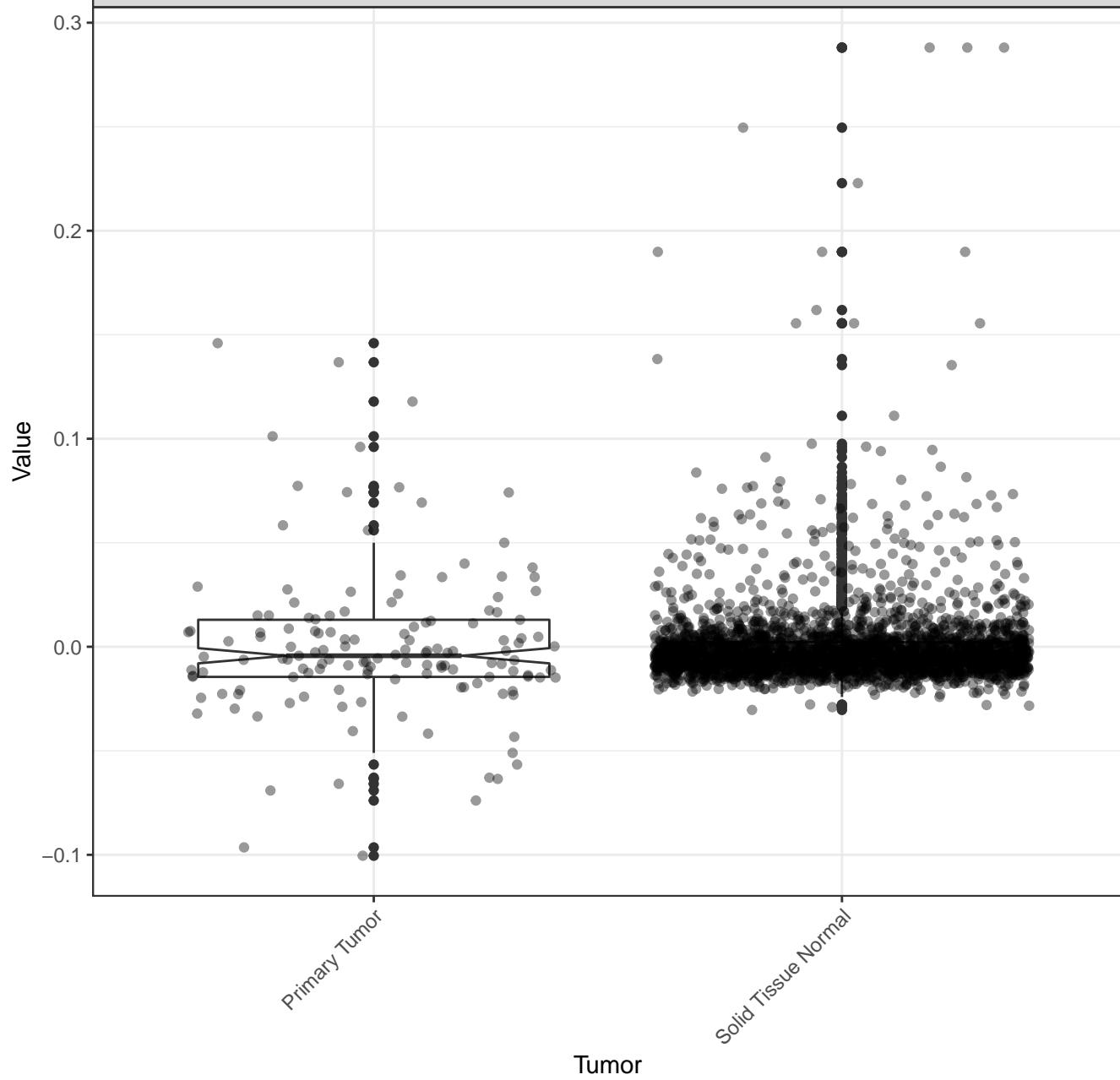
180,REACTOME\_PROTEIN\_FOLDING



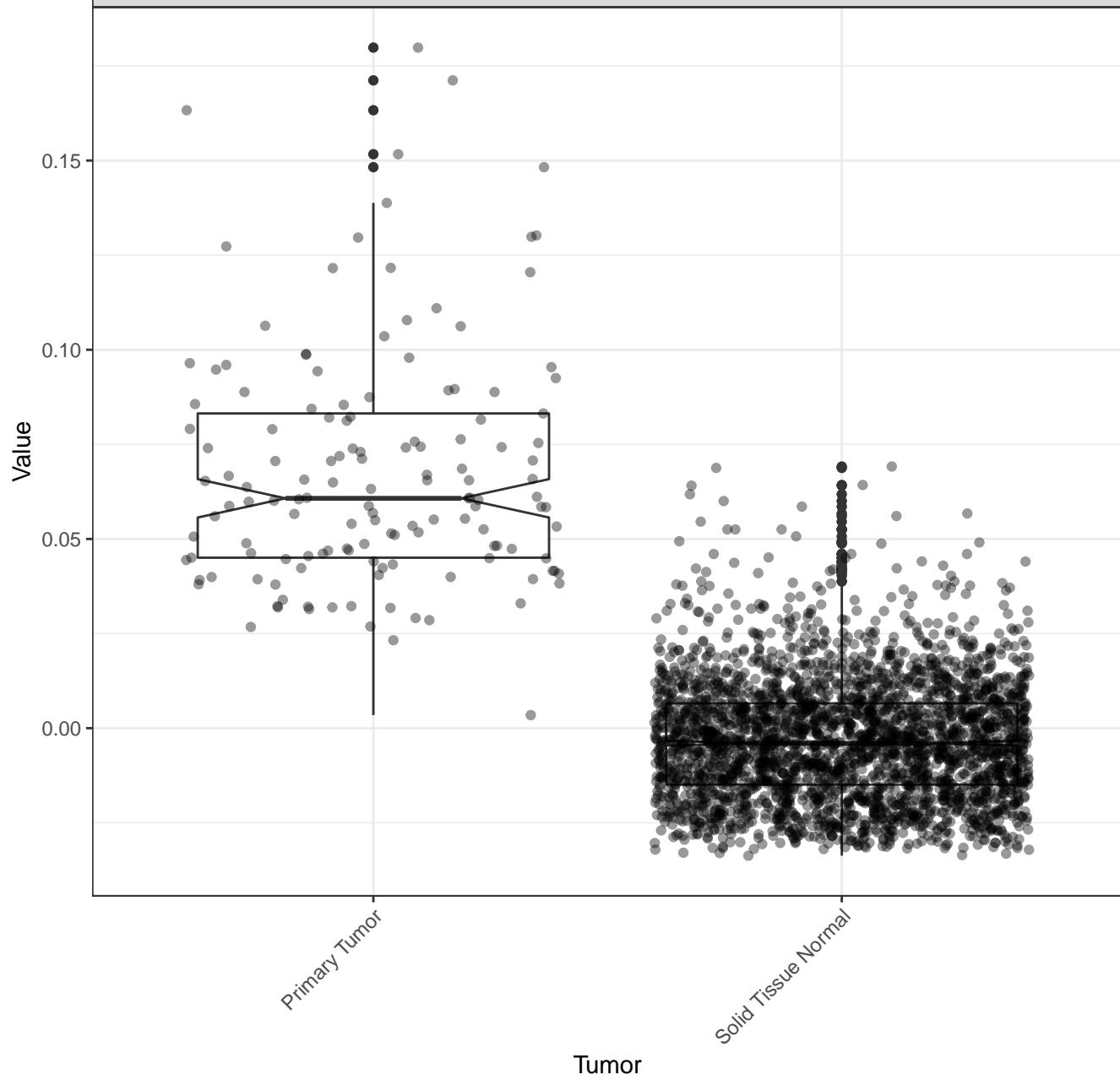




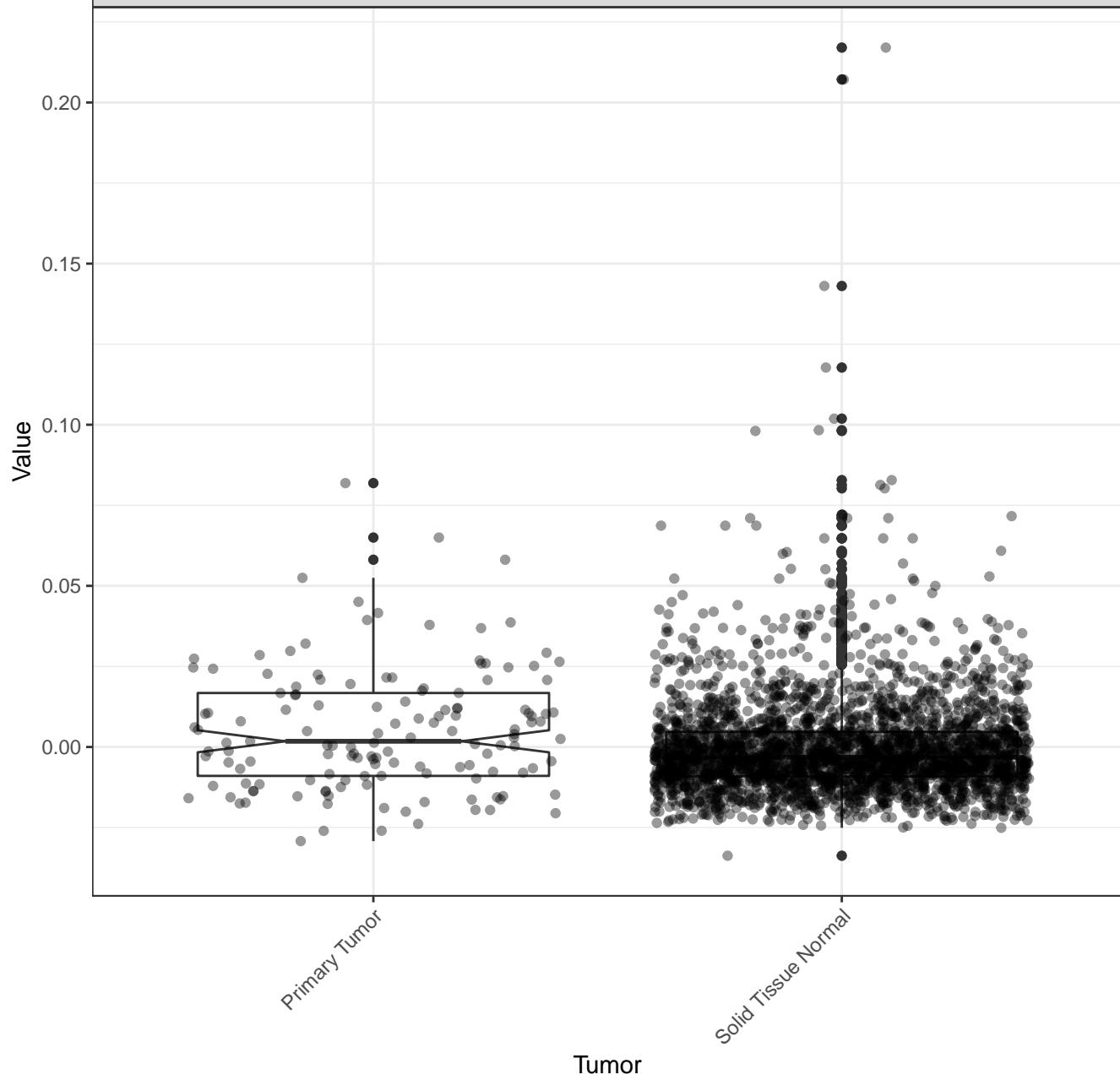
# 183,IRIS\_DendriticCell-LPSstimulated



## 184,REACTOME\_TRNA\_AMINOACYLATION



## 185,PID\_DELTANP63PATHWAY



186,SVM T cells CD4 memory activated

Value

0.5

0.4

0.3

0.2

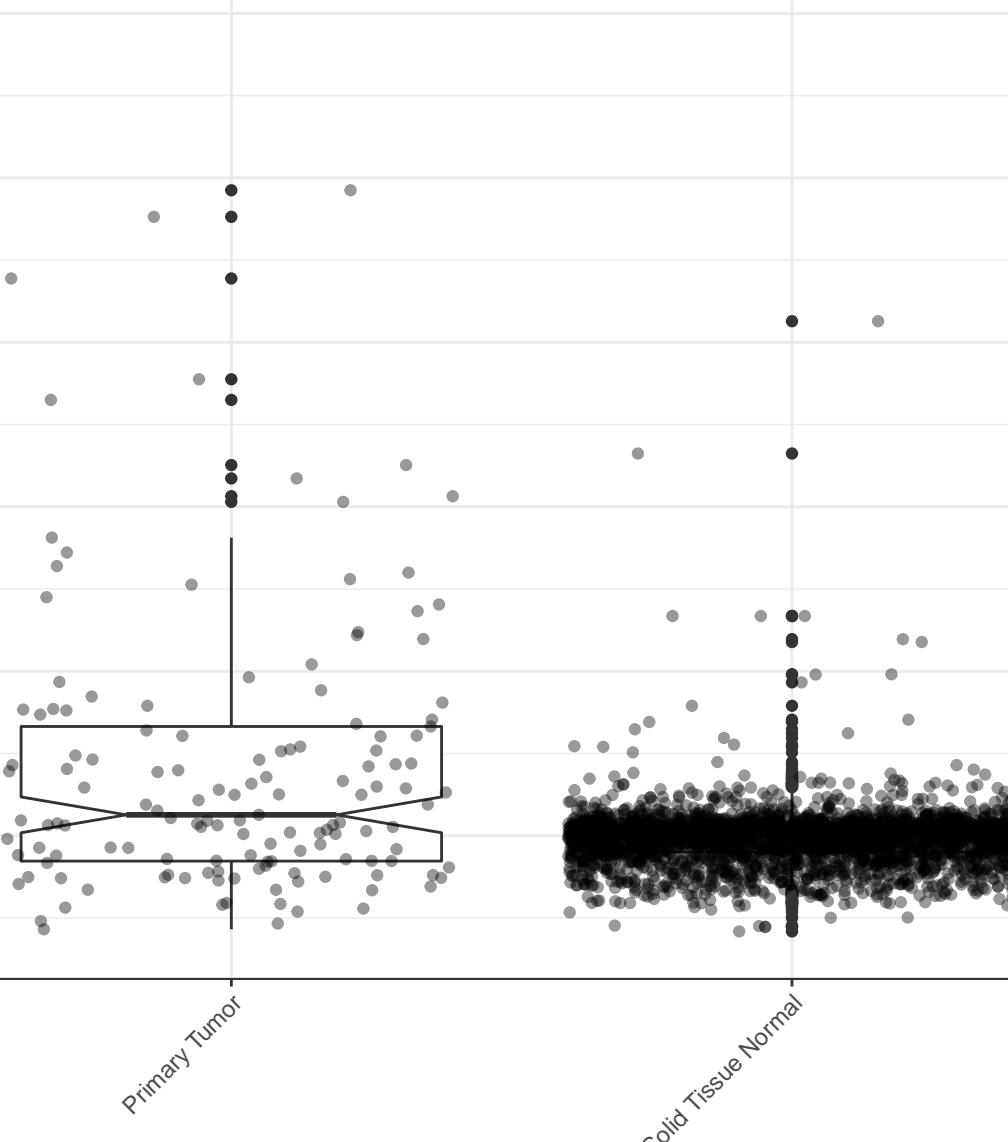
0.1

0.0

Primary Tumor

Solid Tissue Normal

Tumor



# 187,KEGG\_PHOSPHATIDYLINOSITOL\_SIGNALING\_SYSTEM

Value

0.2

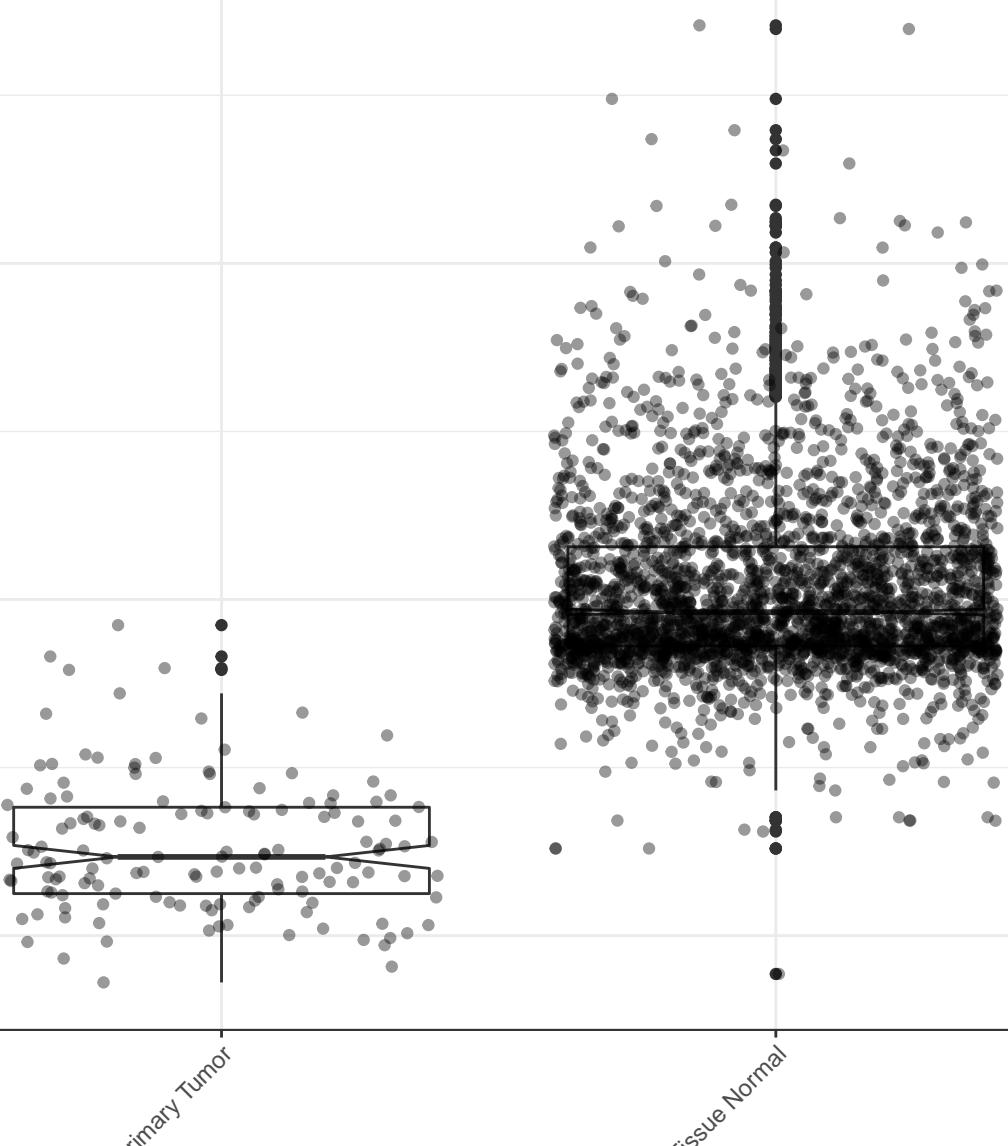
0.0

-0.2

Primary Tumor

Solid Tissue Normal

Tumor



# 188,KEGG\_PATHWAYS\_IN\_CANCER

Value

0.20

0.15

0.10

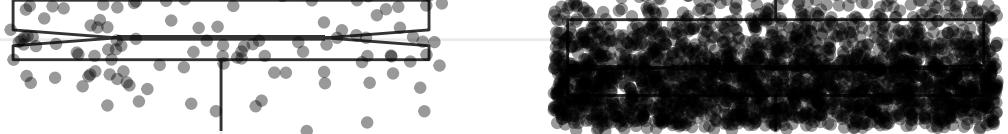
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



# 189,REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES

Value

0.20

0.15

0.10

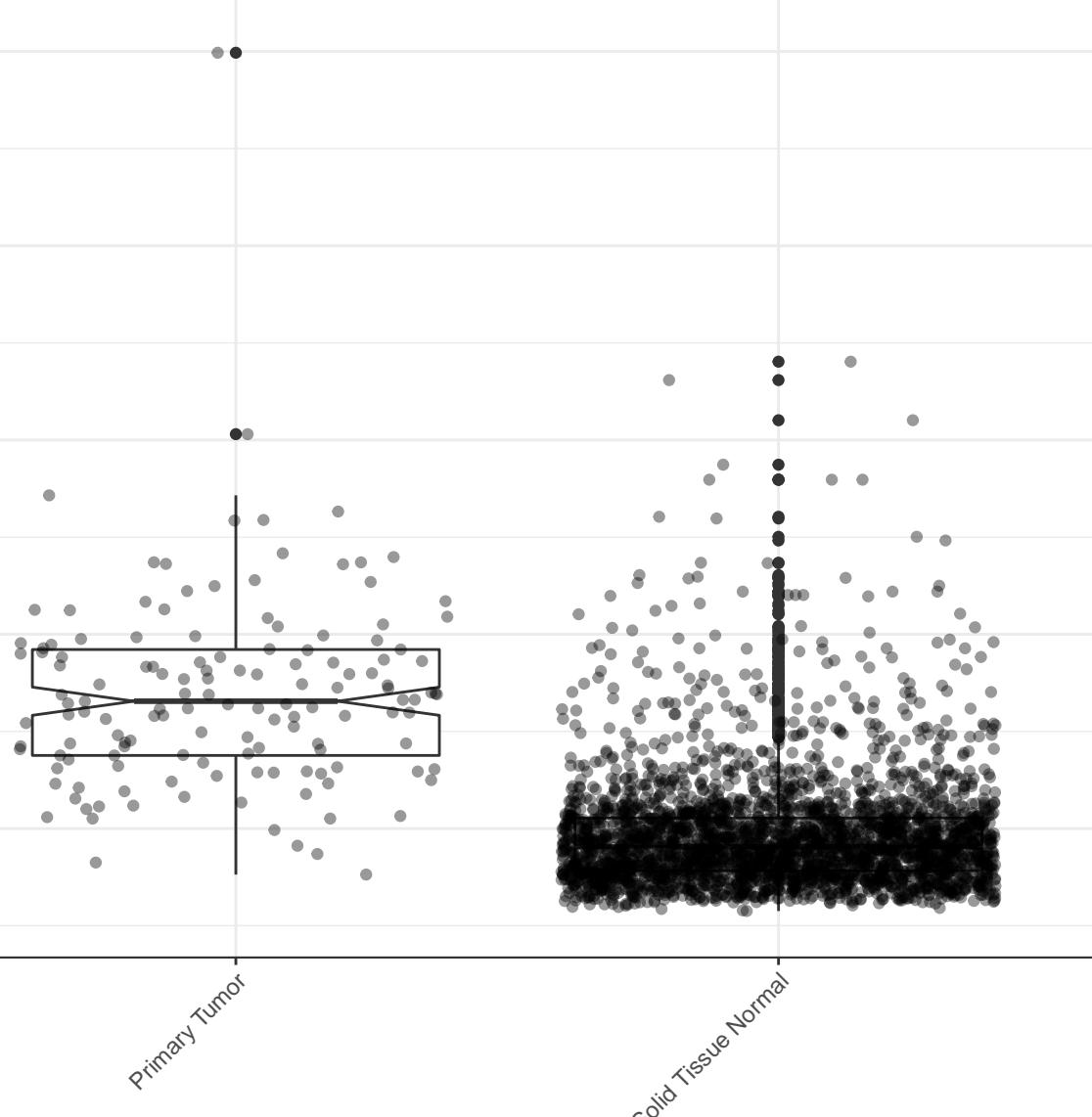
0.05

0.00

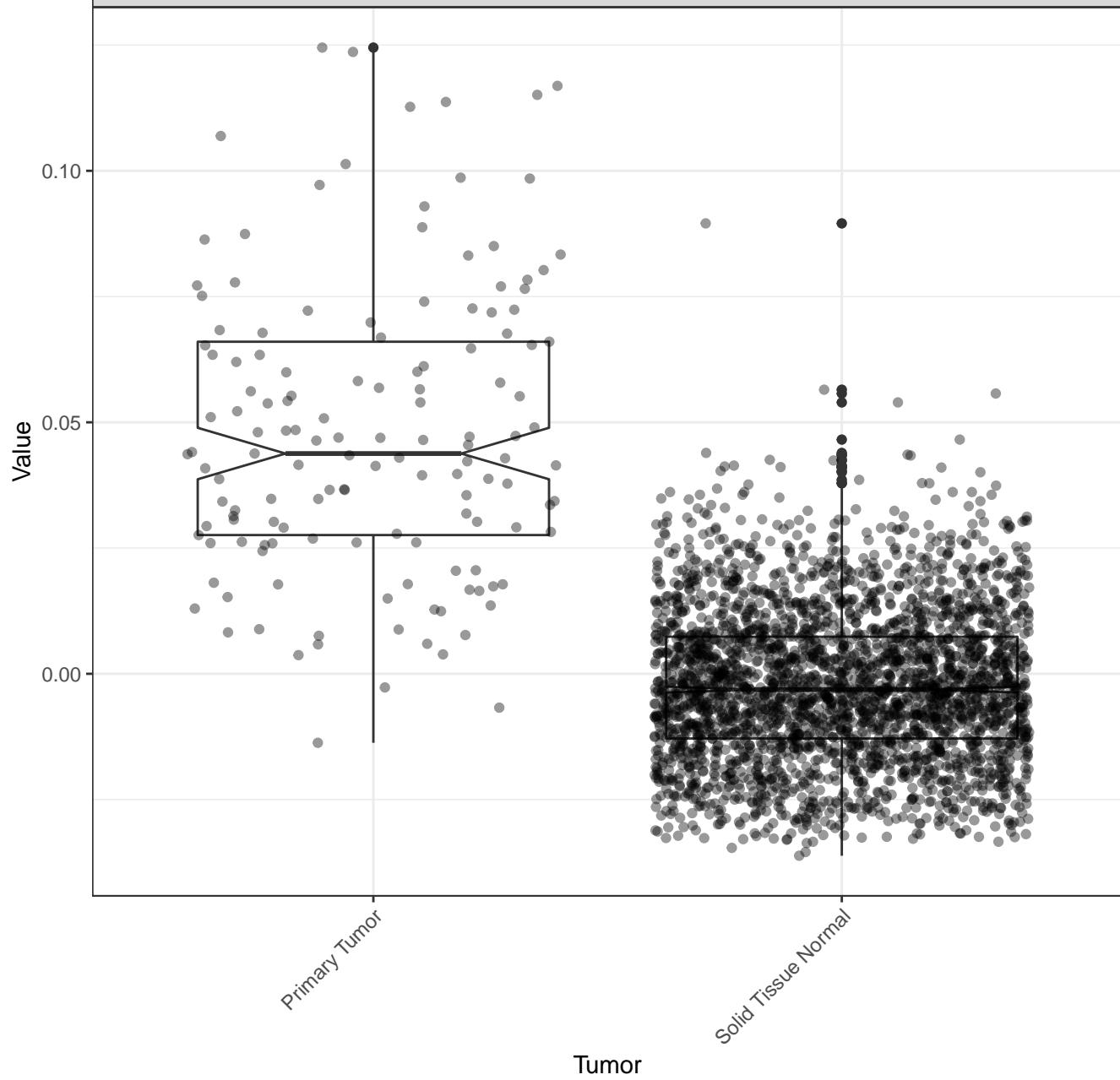
Primary Tumor

Solid Tissue Normal

Tumor



## 190,MIPS\_SPLICEOSOME



# 191,KEGG\_PHOSPHATIDYLINOSITOL\_SIGNALING\_SYSTEM

Value

0.10

0.05

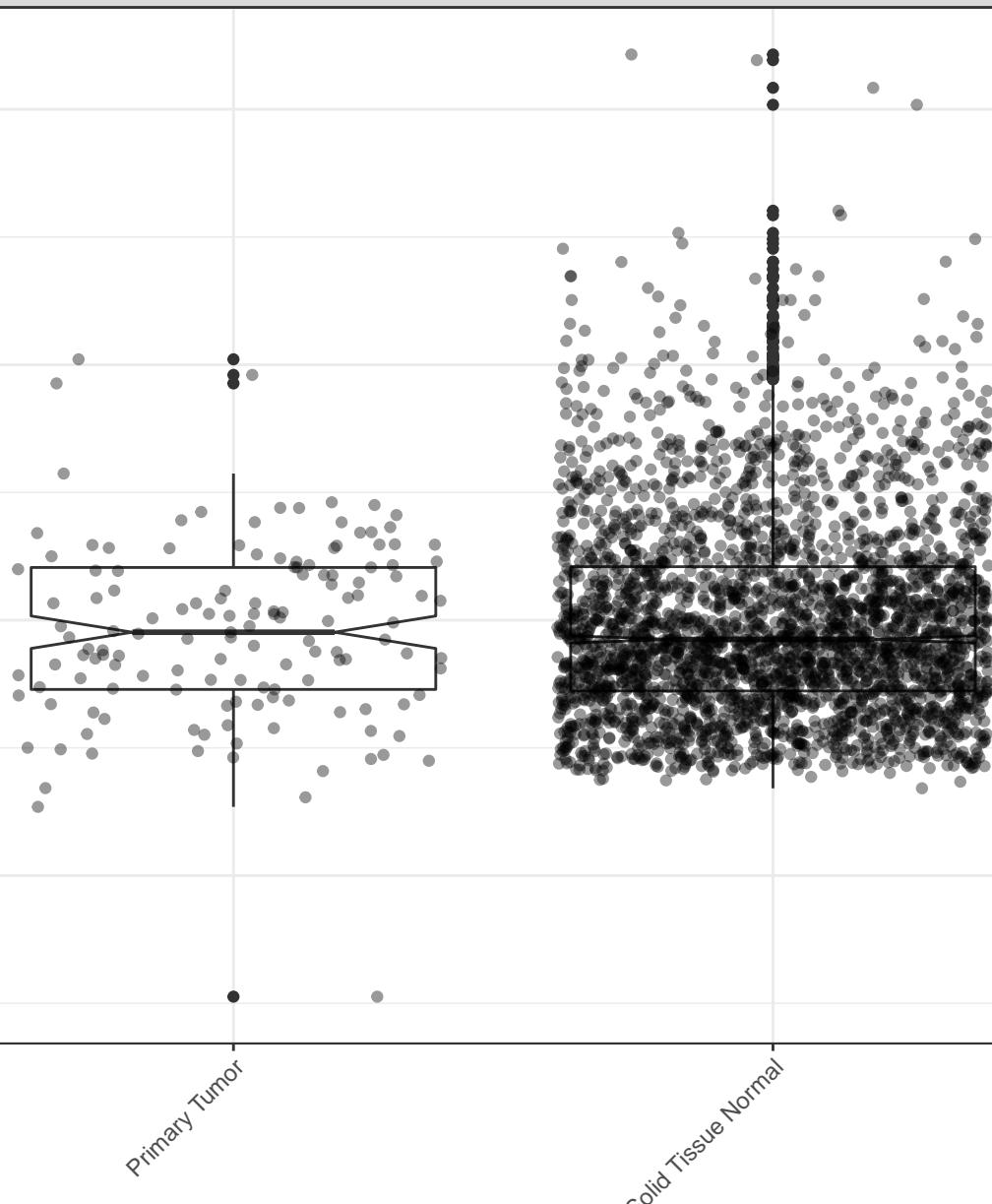
0.00

-0.05

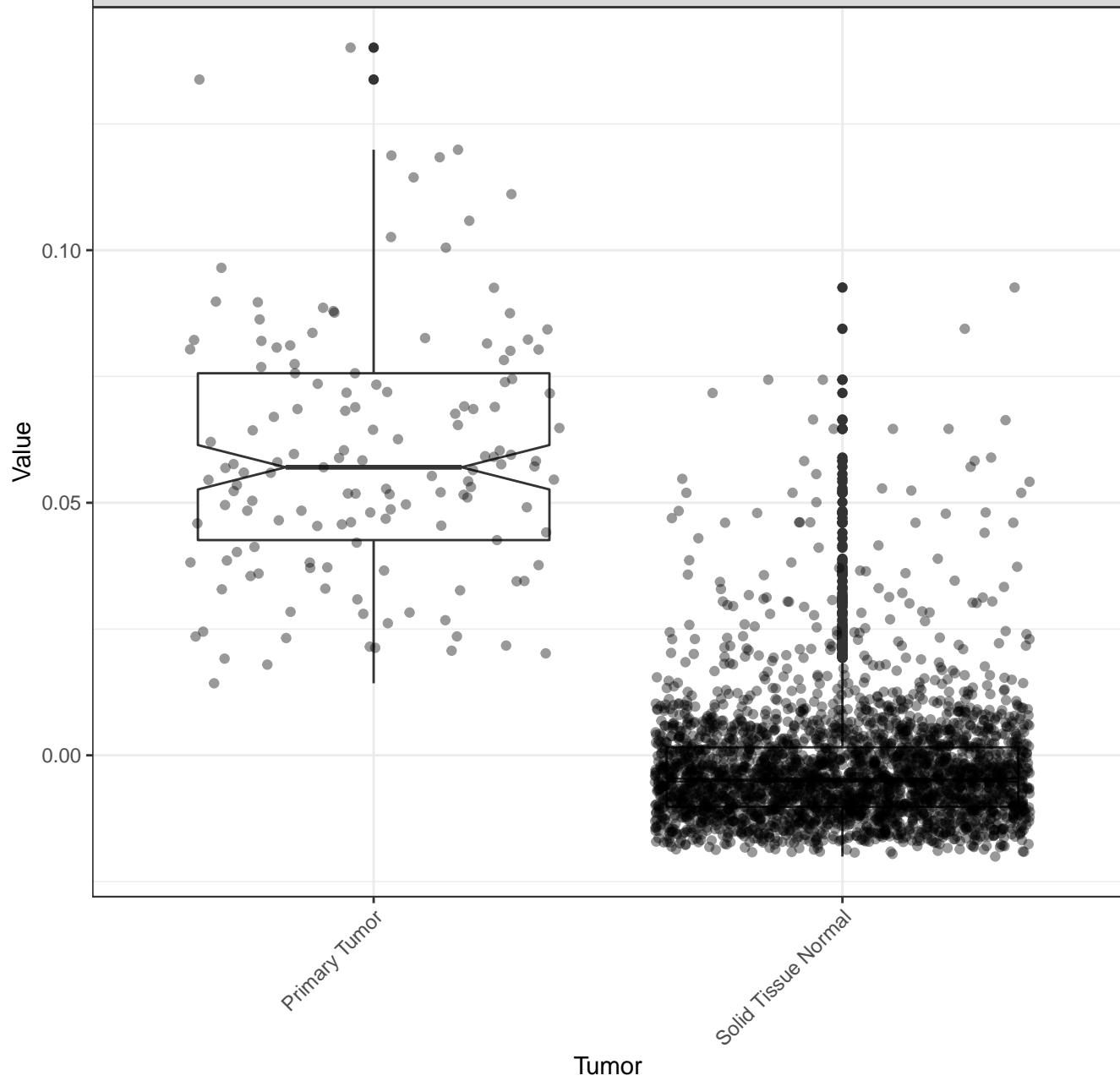
Primary Tumor

Solid Tissue Normal

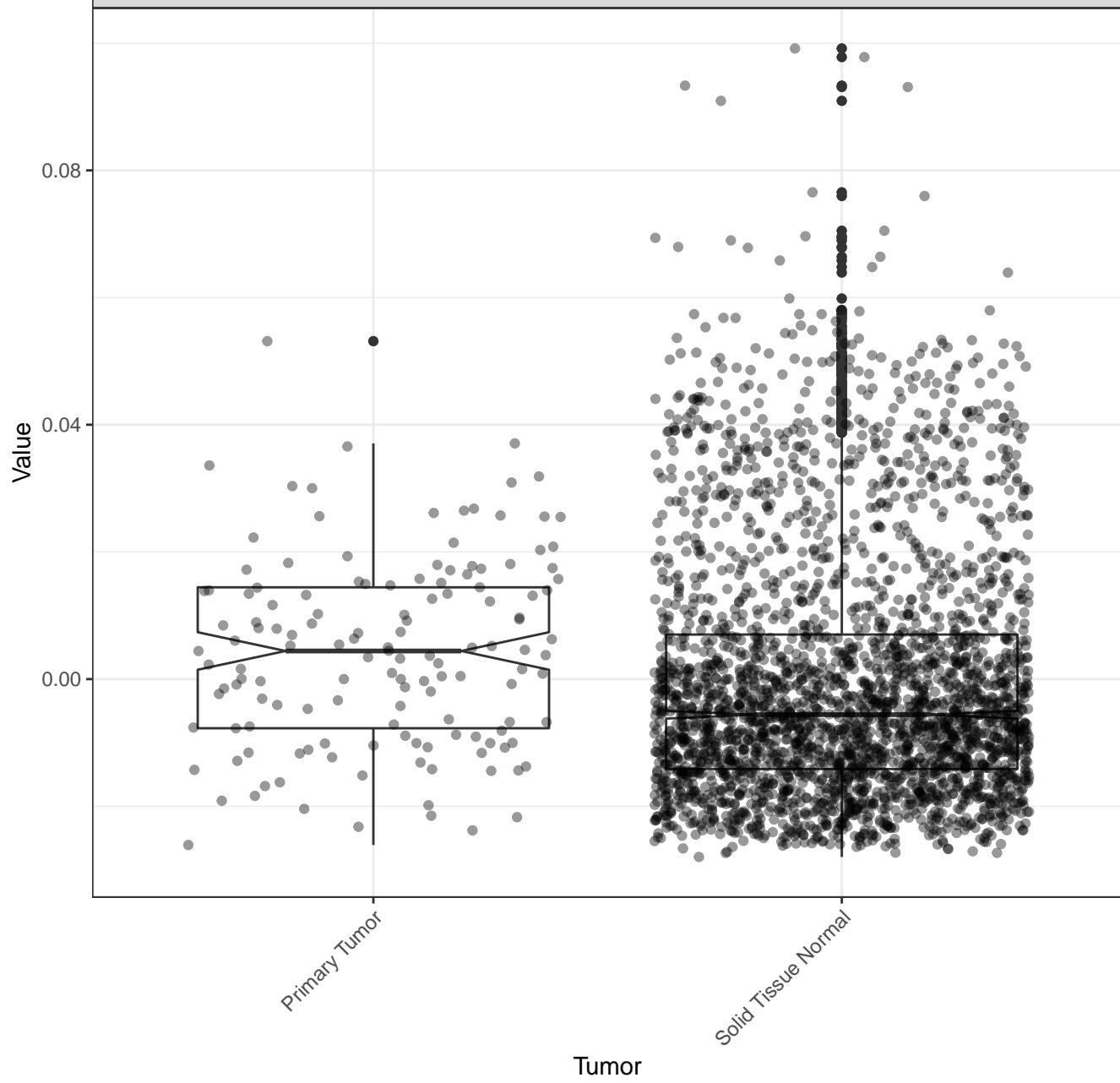
Tumor



# 192,REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION



## 193,DMAP\_ERY3



# 194,REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM

Value

0.10

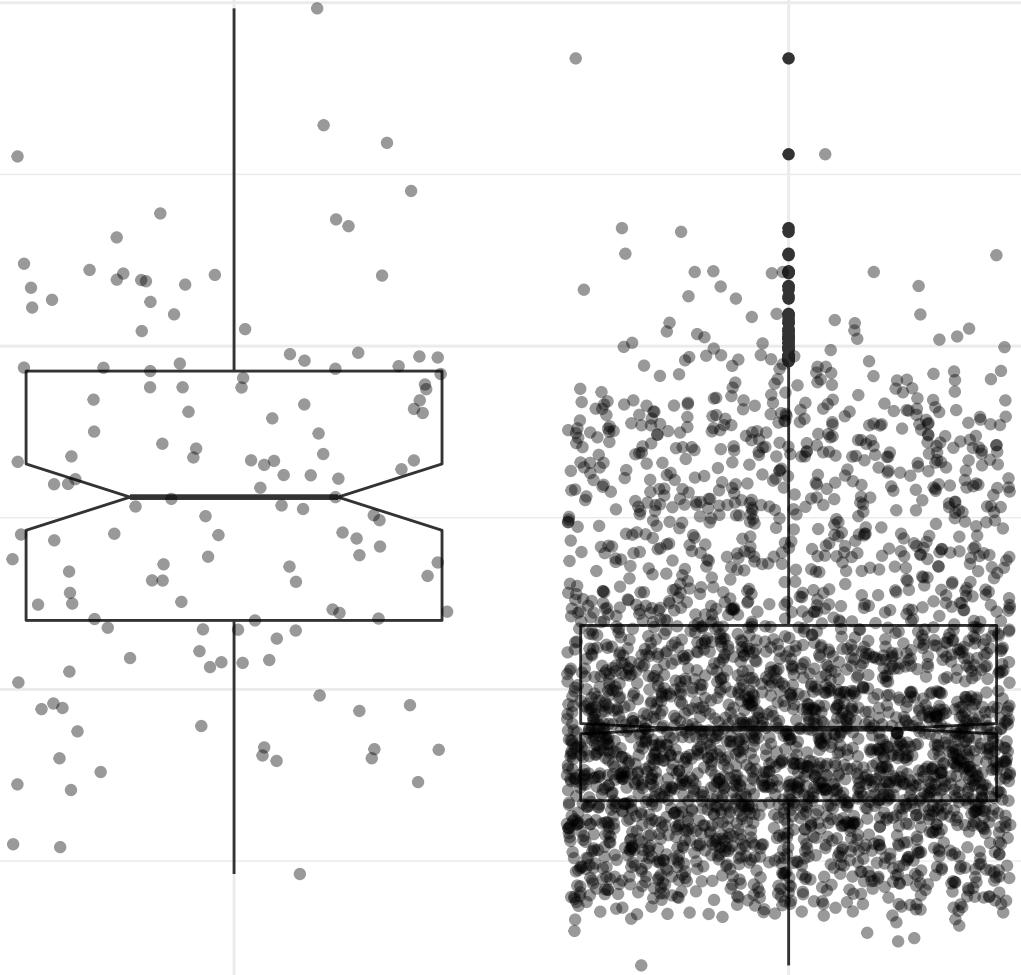
0.05

0.00

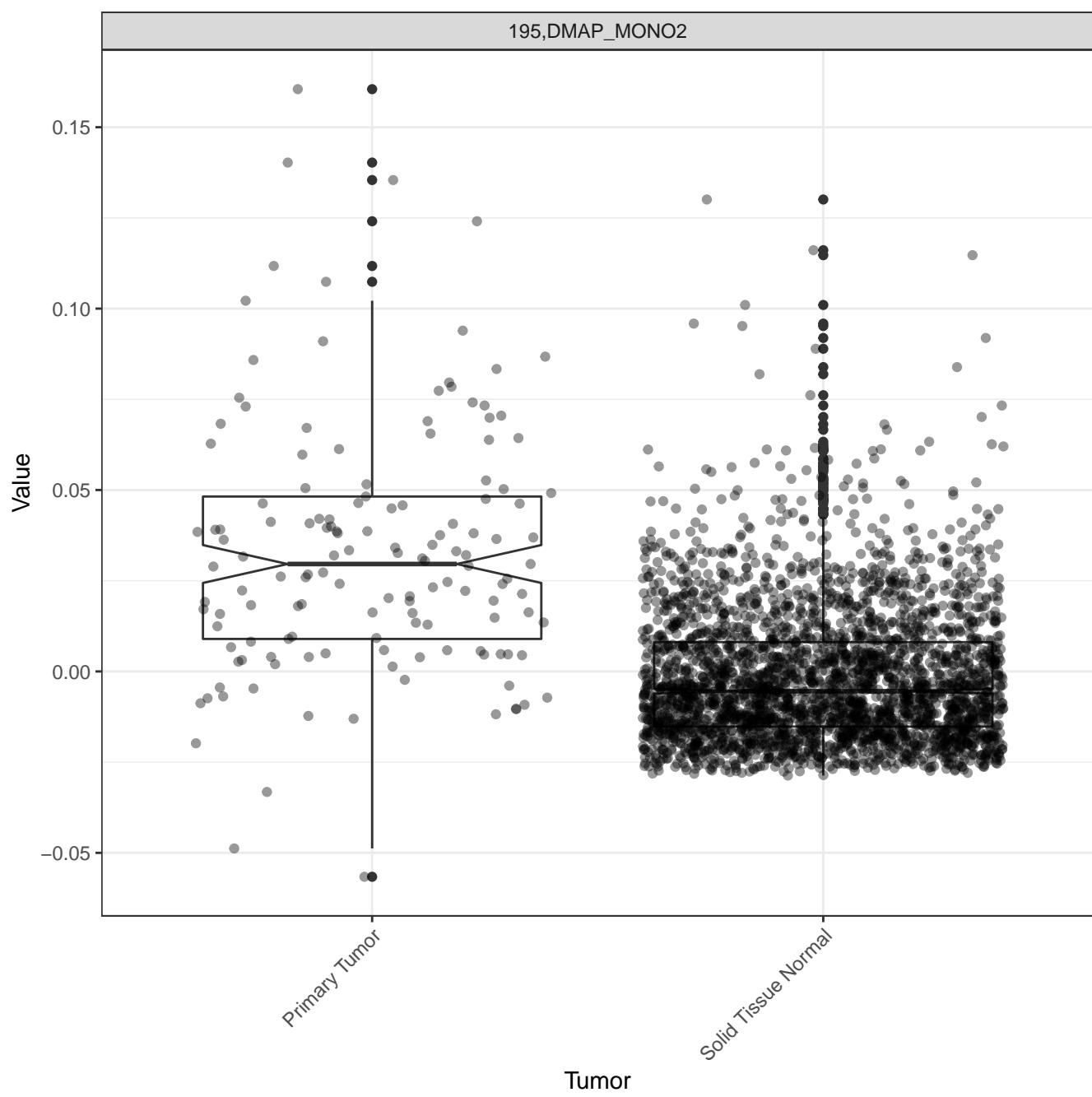
Primary Tumor

Solid Tissue Normal

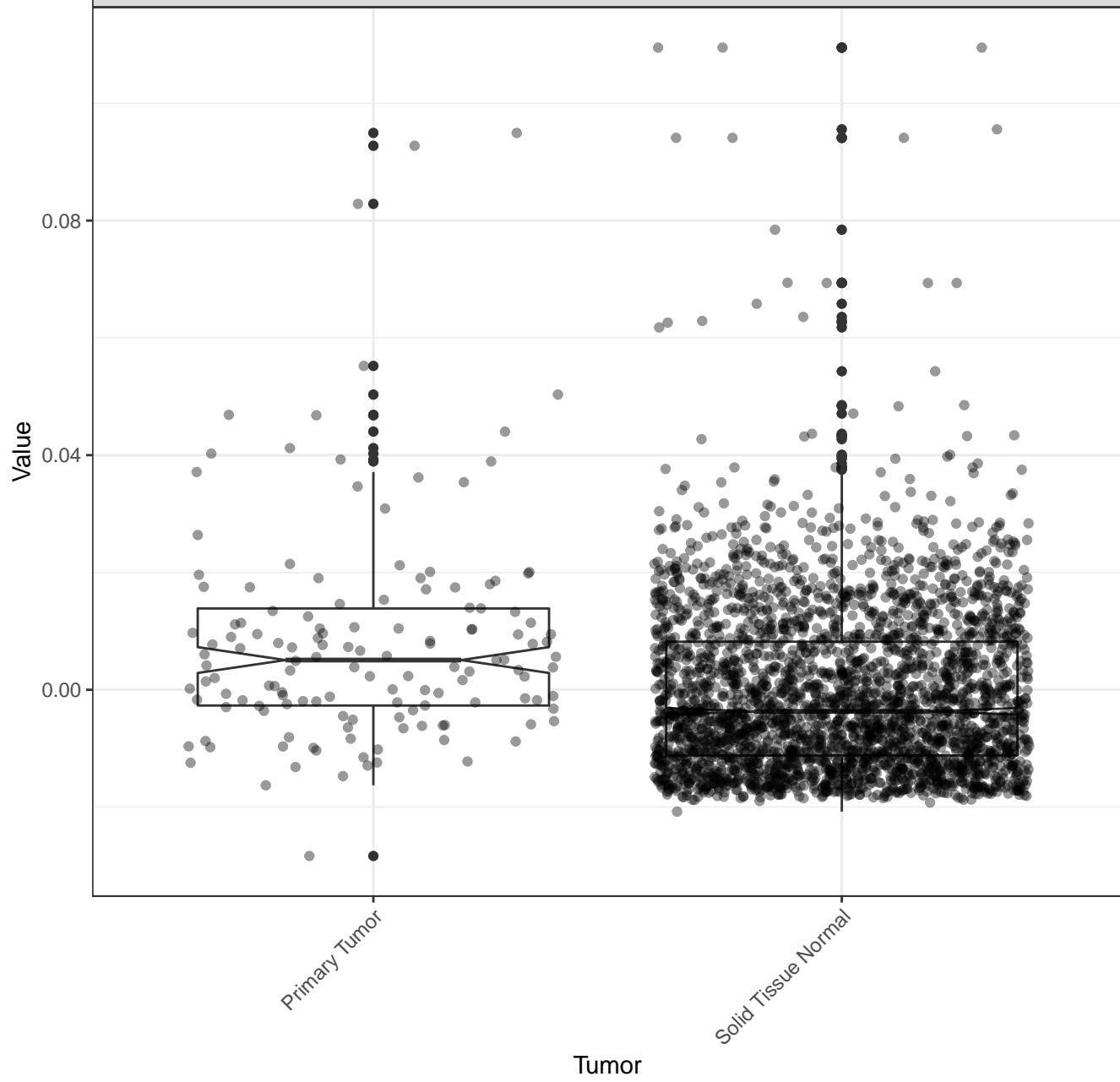
Tumor



## 195,DMAP\_MONO2



# 196,KEGG\_ABC\_TRANSPORTERS



197,REACTOME\_NONSENSE\_MEDIATED\_DECAY\_ENHANCED\_BY\_THE\_EXON\_JUNCTION\_COMPLEX

Value

0.10

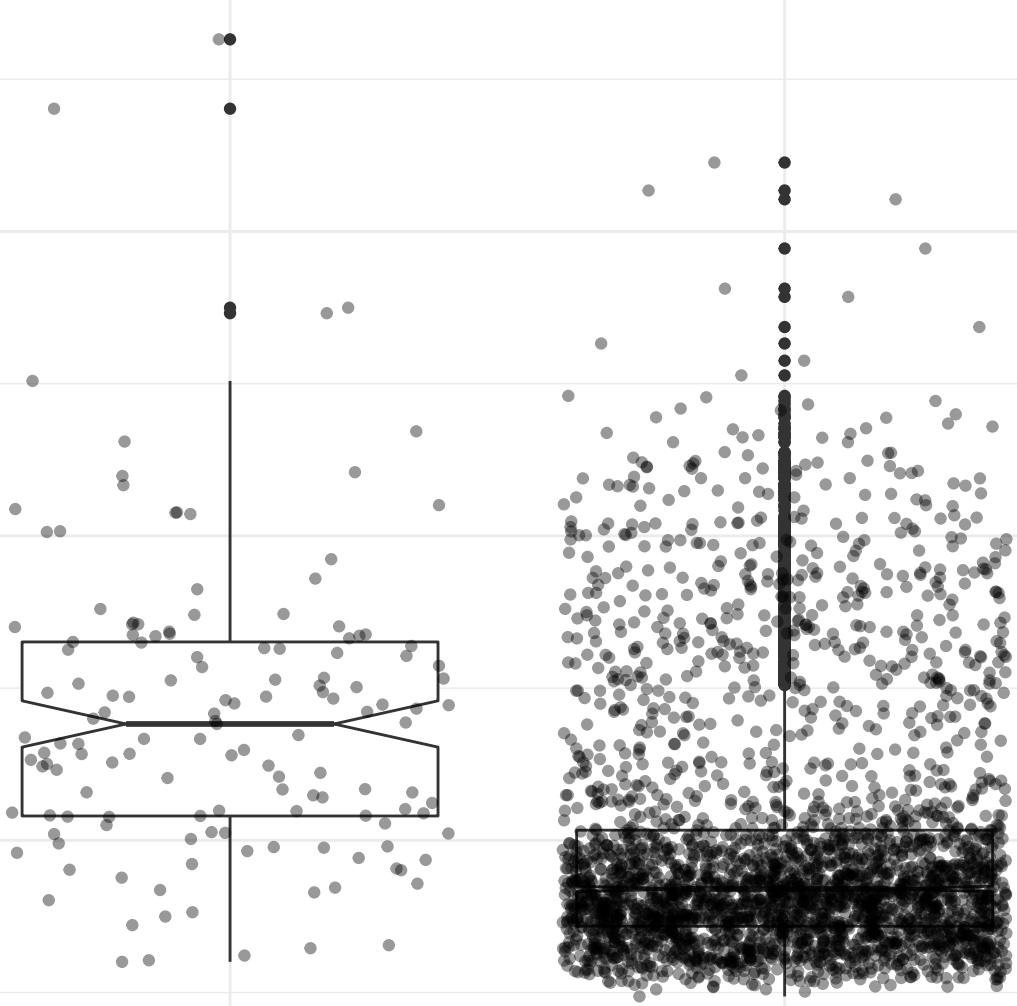
0.05

0.00

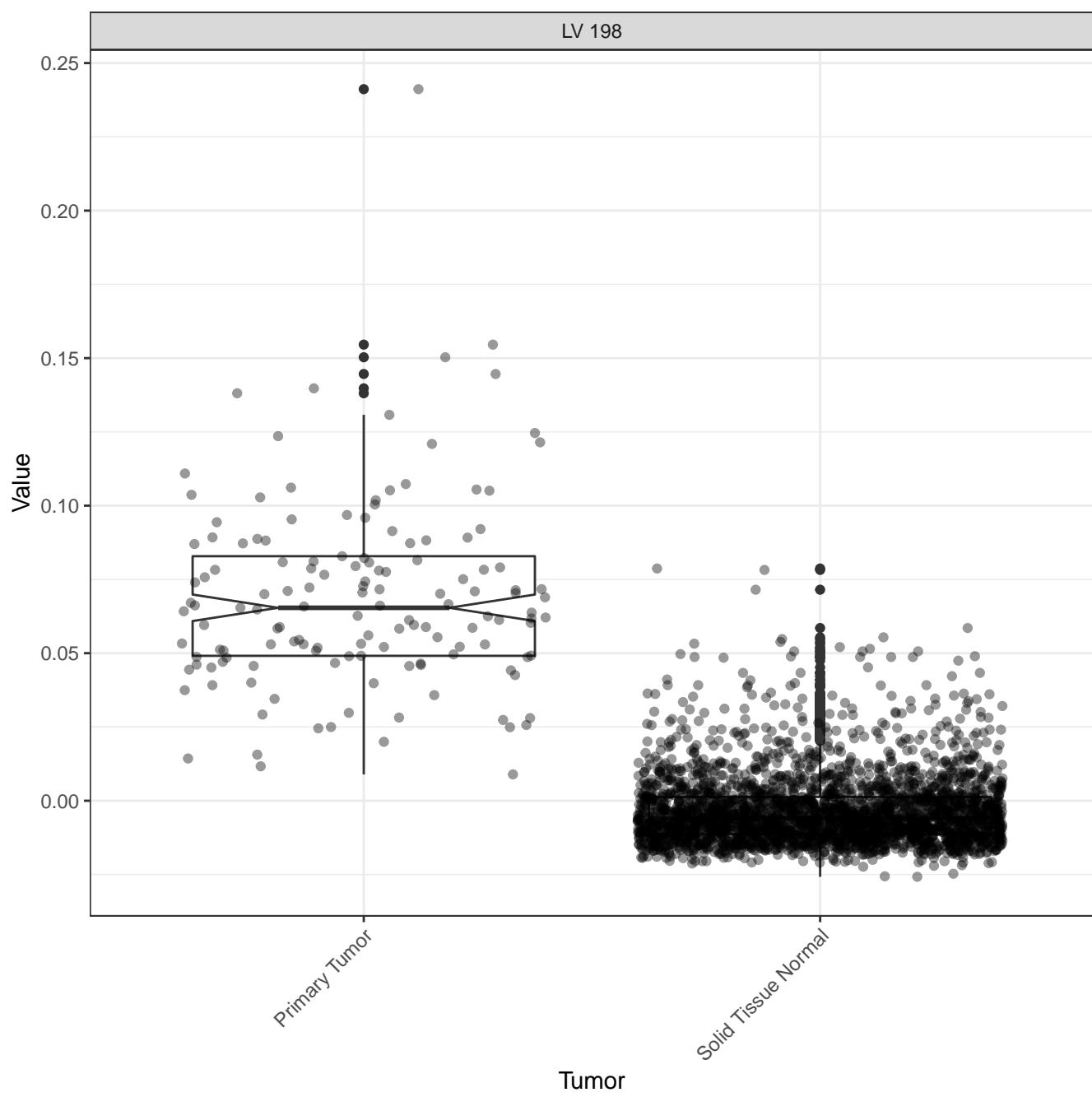
Primary Tumor

Tumor

Solid Tissue Normal



LV 198



# 199,KEGG\_AUTOIMMUNE\_THYROID\_DISEASE

Value

1.0

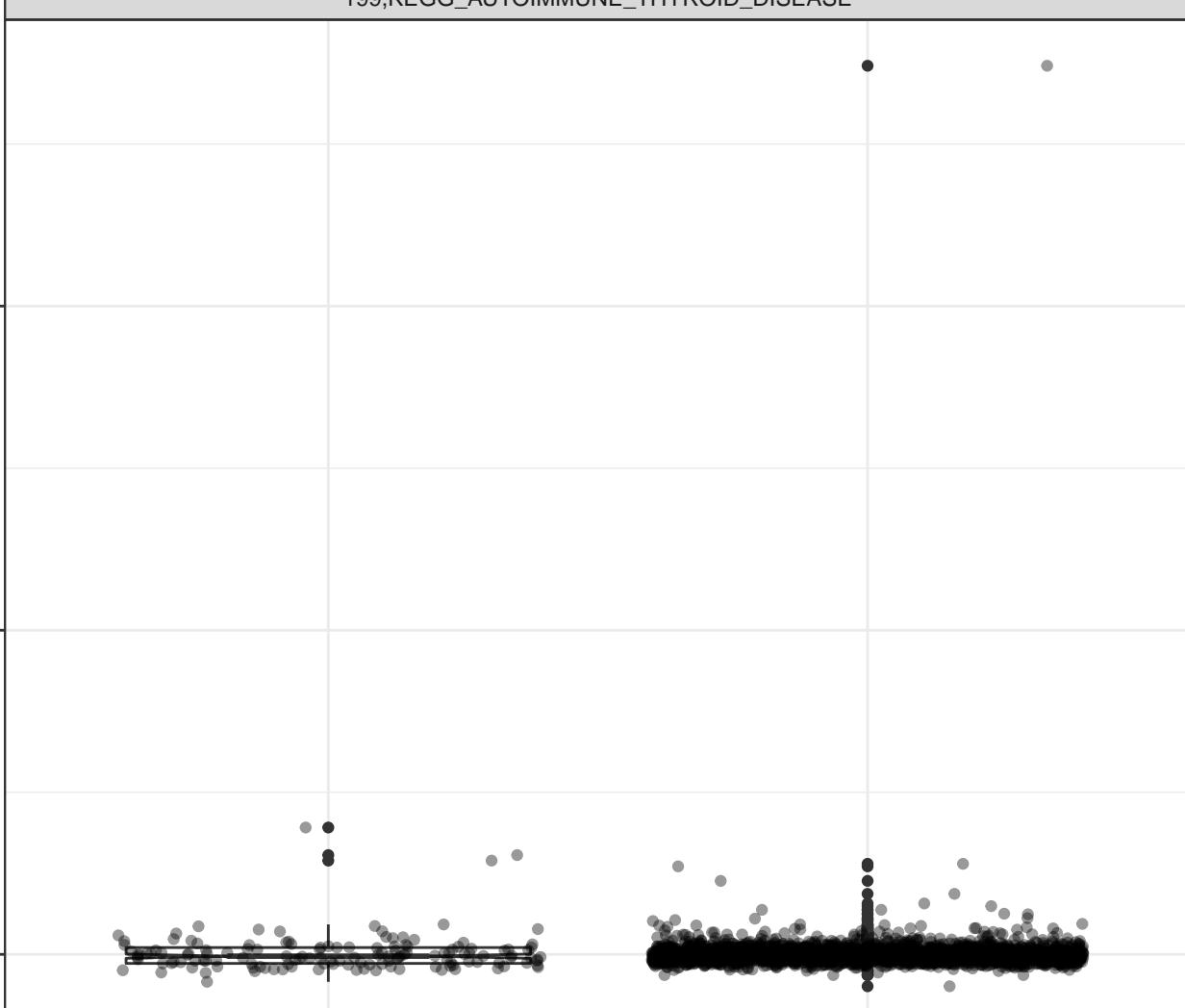
0.5

0.0

Primary Tumor

Solid Tissue Normal

Tumor



LV 200

Value

0.15

0.10

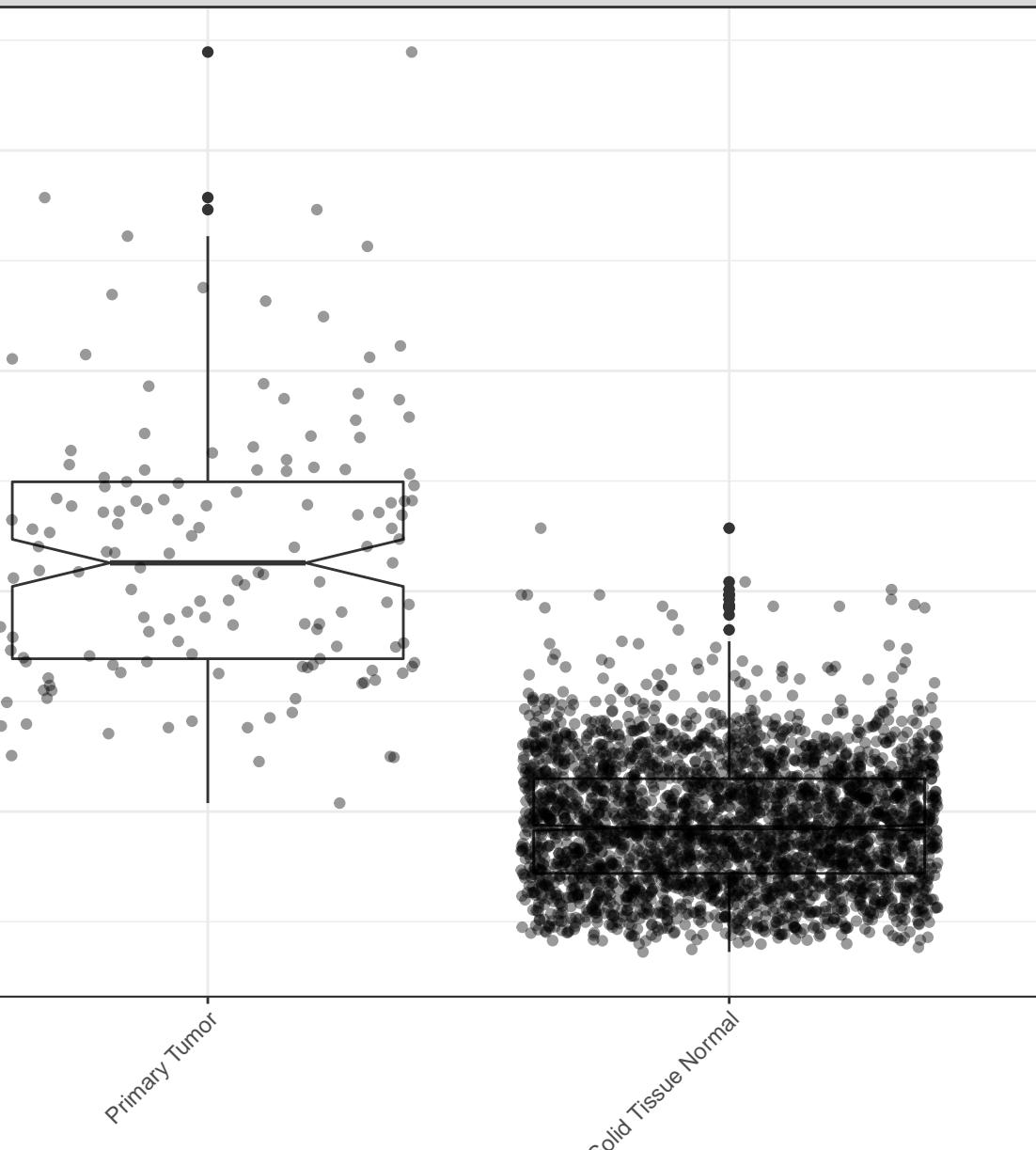
0.05

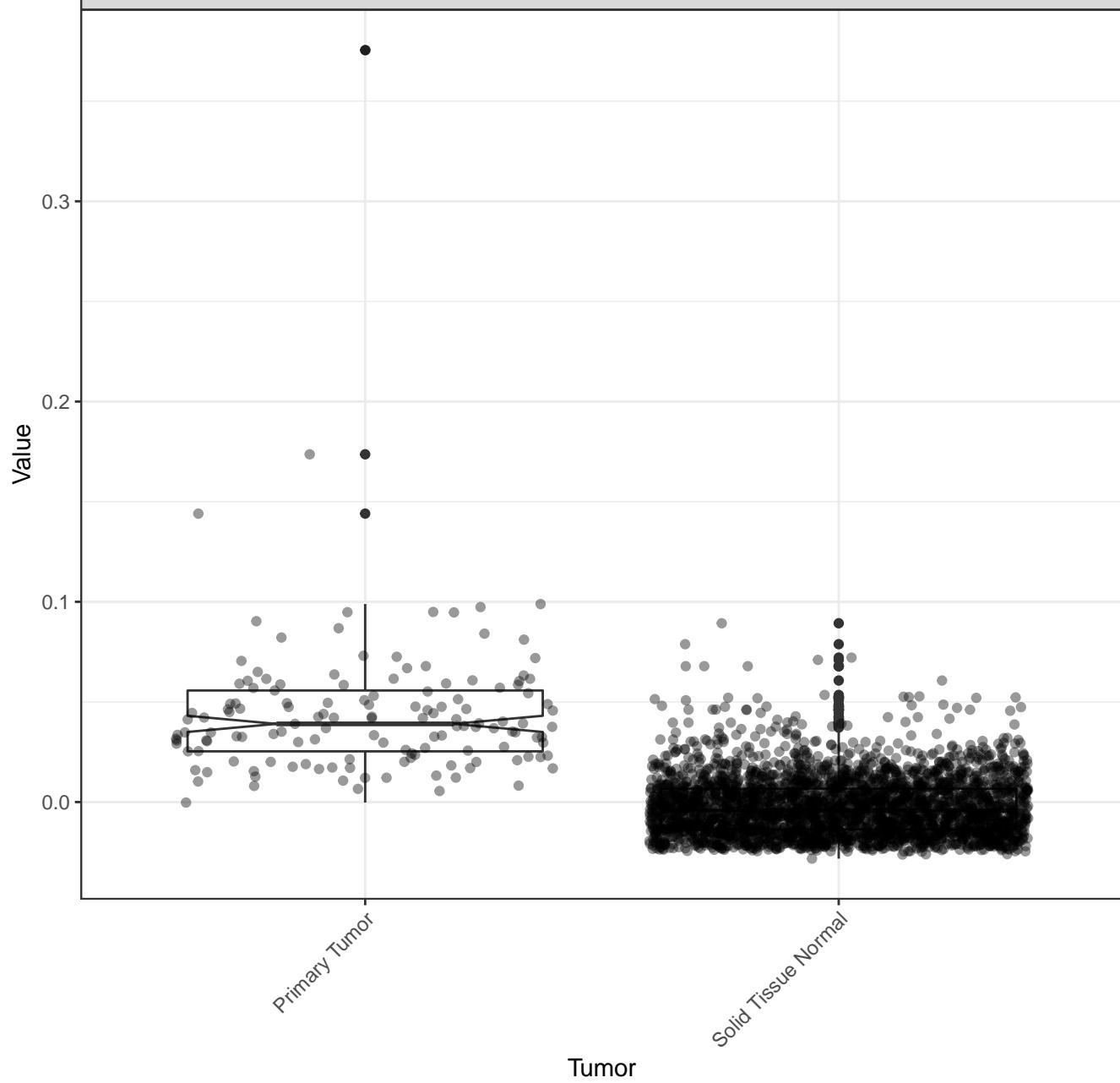
0.00

Primary Tumor

Solid Tissue Normal

Tumor





Value

0.20

0.15

0.10

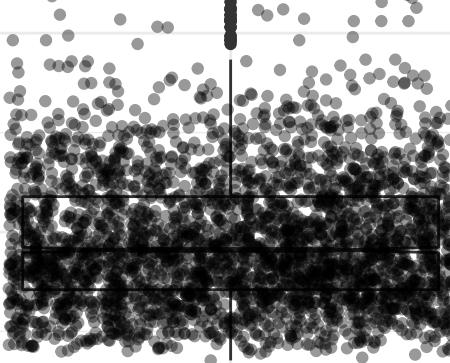
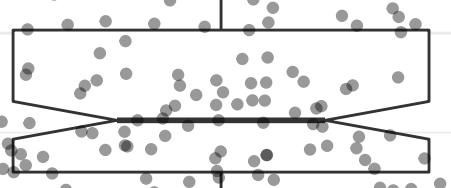
0.05

0.00

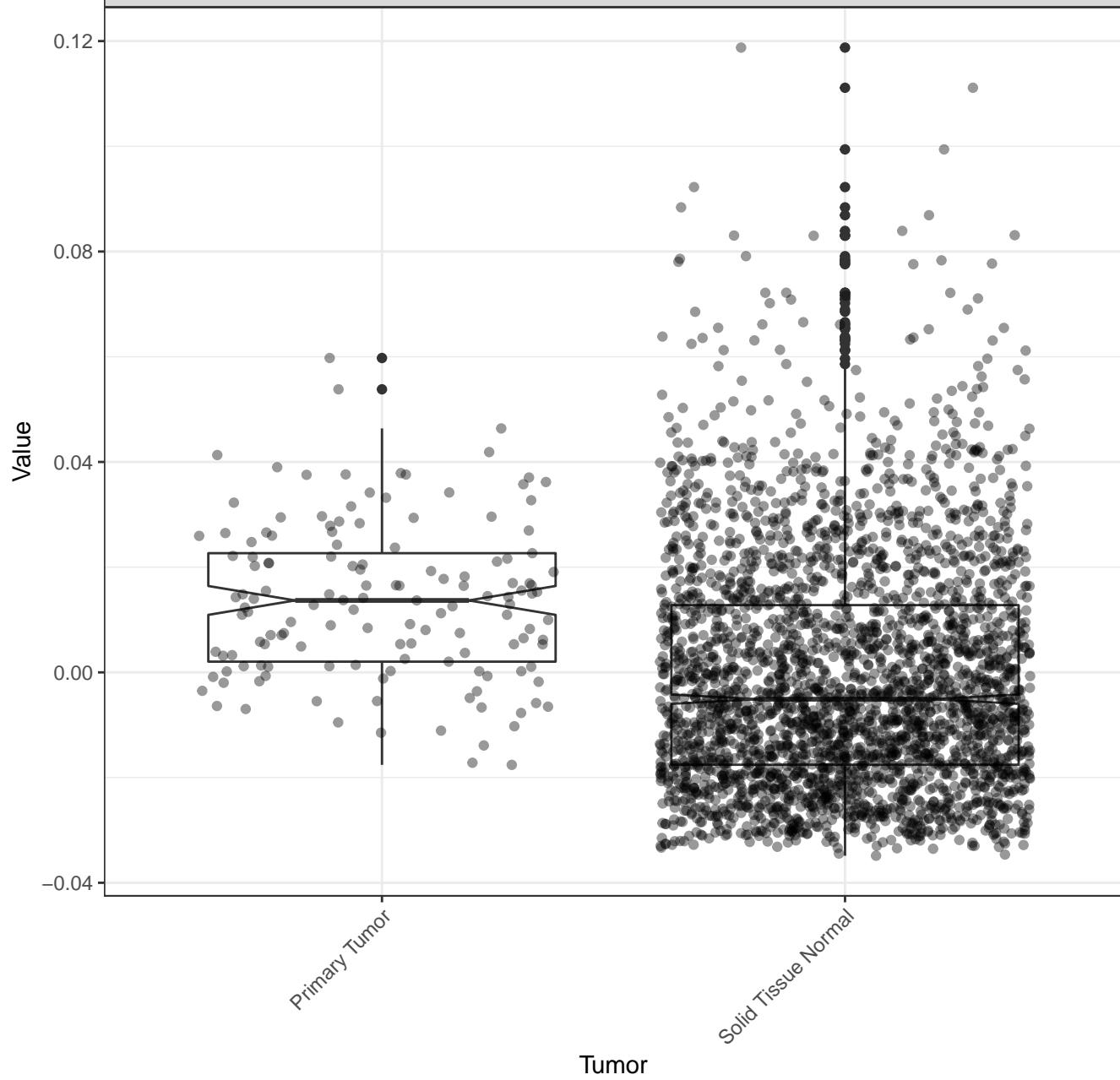
Primary Tumor

Solid Tissue Normal

Tumor



# E\_NEUROTRANSMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSY



Value

0.15

0.10

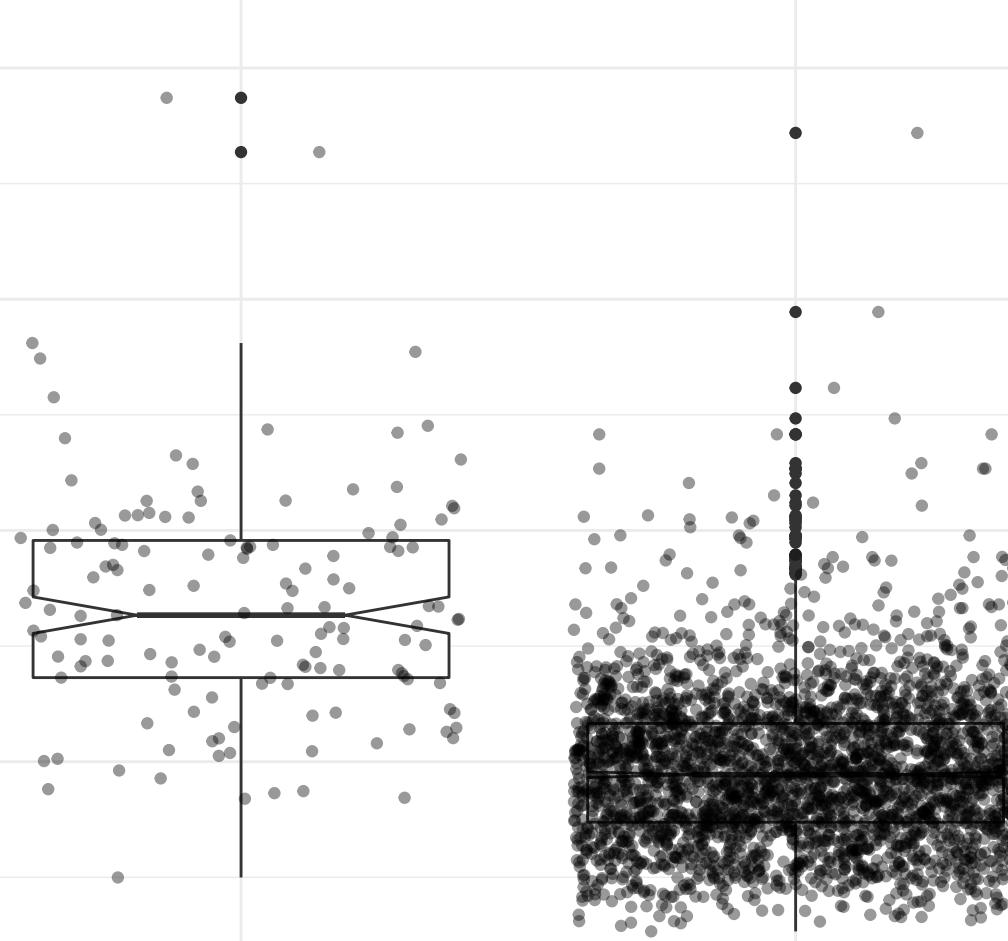
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



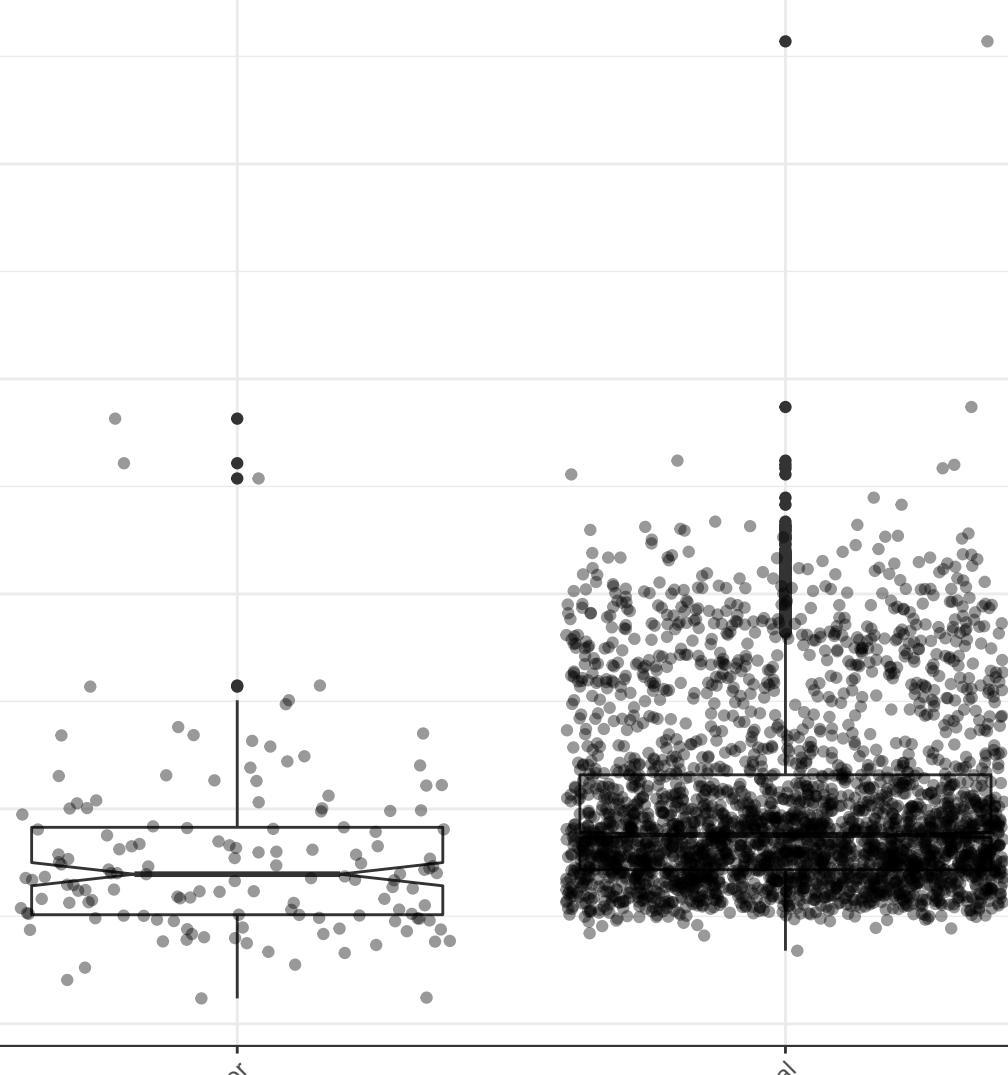
Value

0.15  
0.10  
0.05  
0.00  
-0.05

Primary Tumor

Solid Tissue Normal

Tumor



Value

0.10

0.05

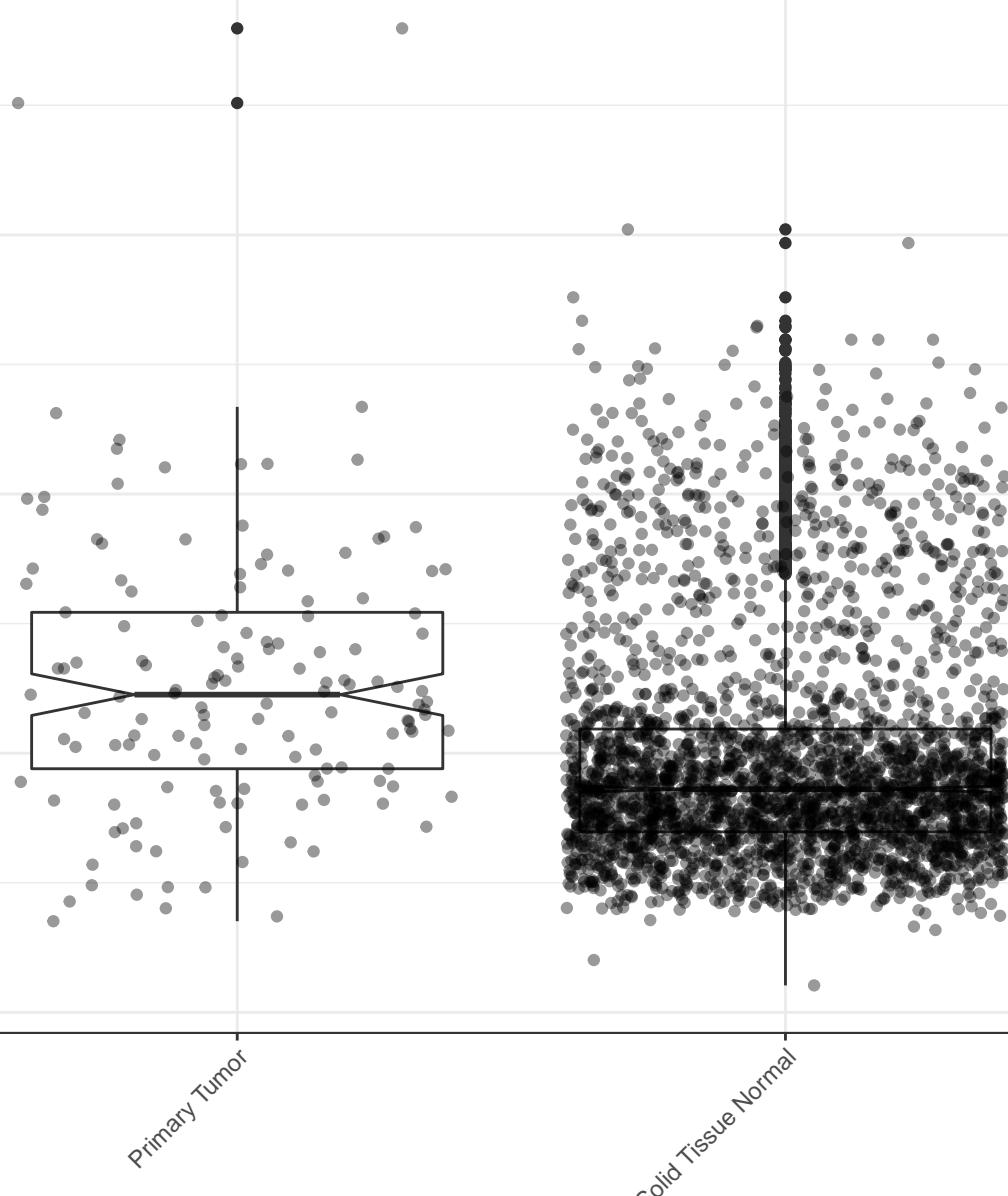
0.00

-0.05

Primary Tumor

Solid Tissue Normal

Tumor



207,REACTOME\_GLOBAL\_GENOMIC\_NER\_GG\_NER

Value

0.15

0.10

0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor

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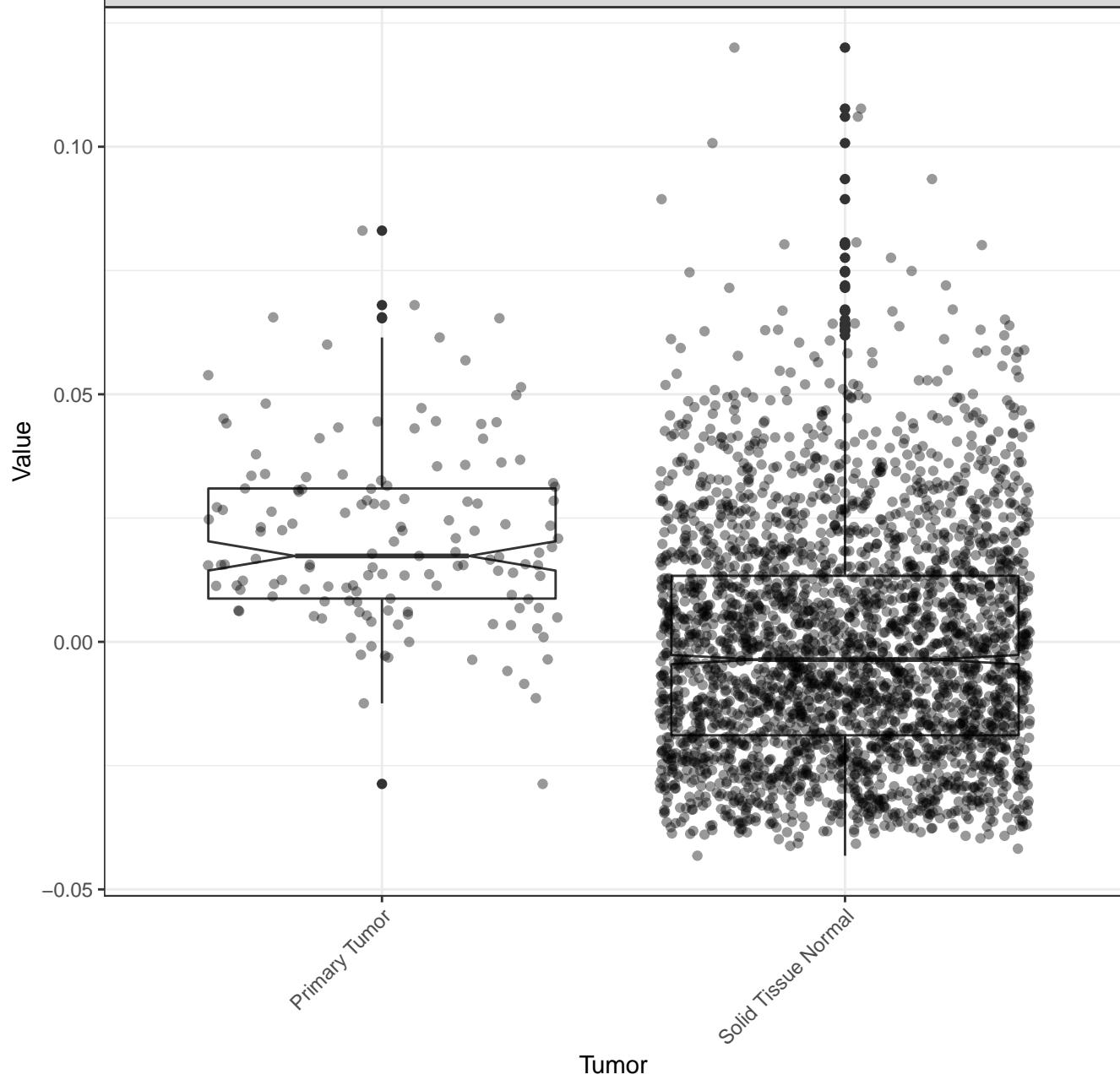
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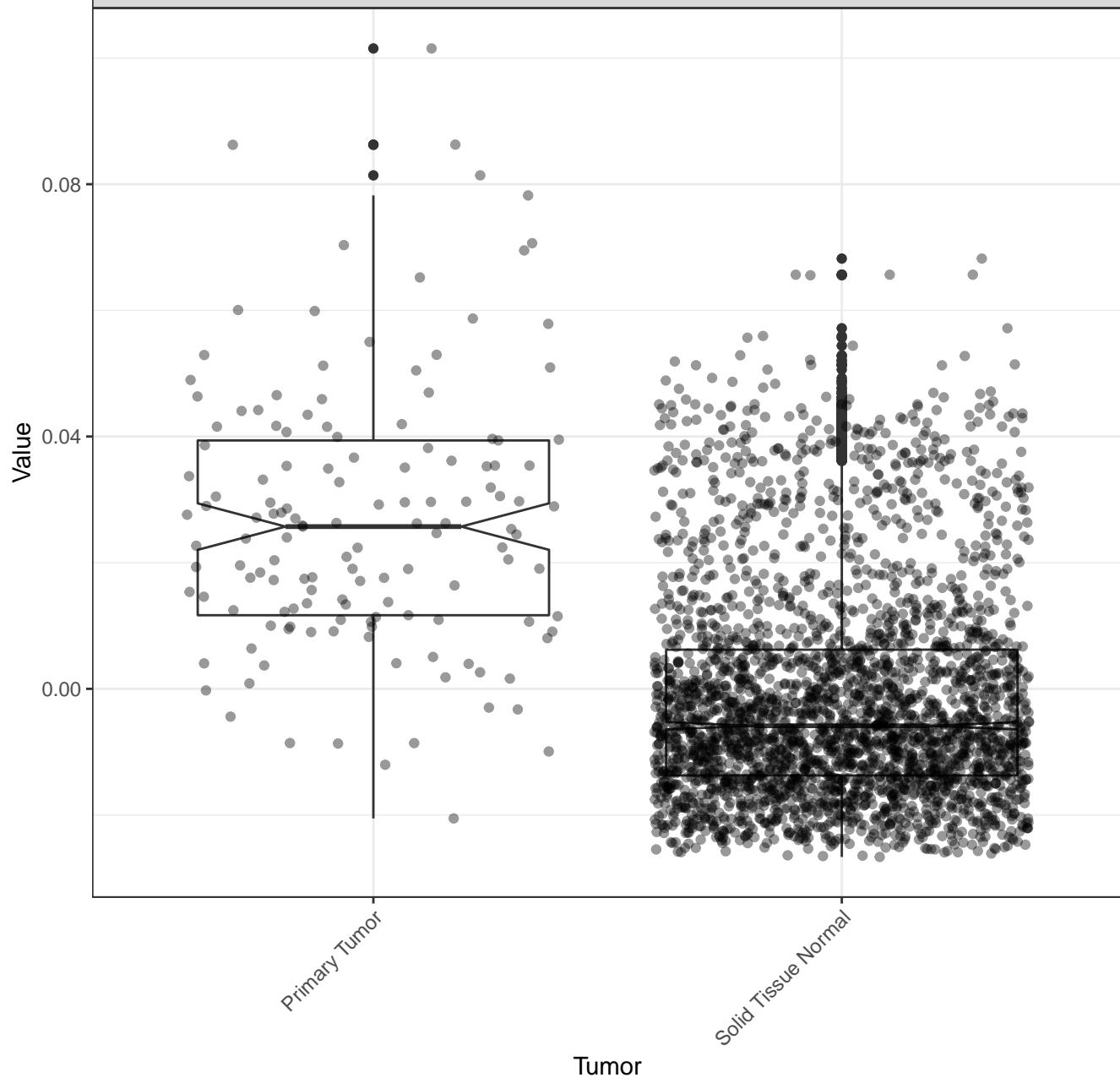
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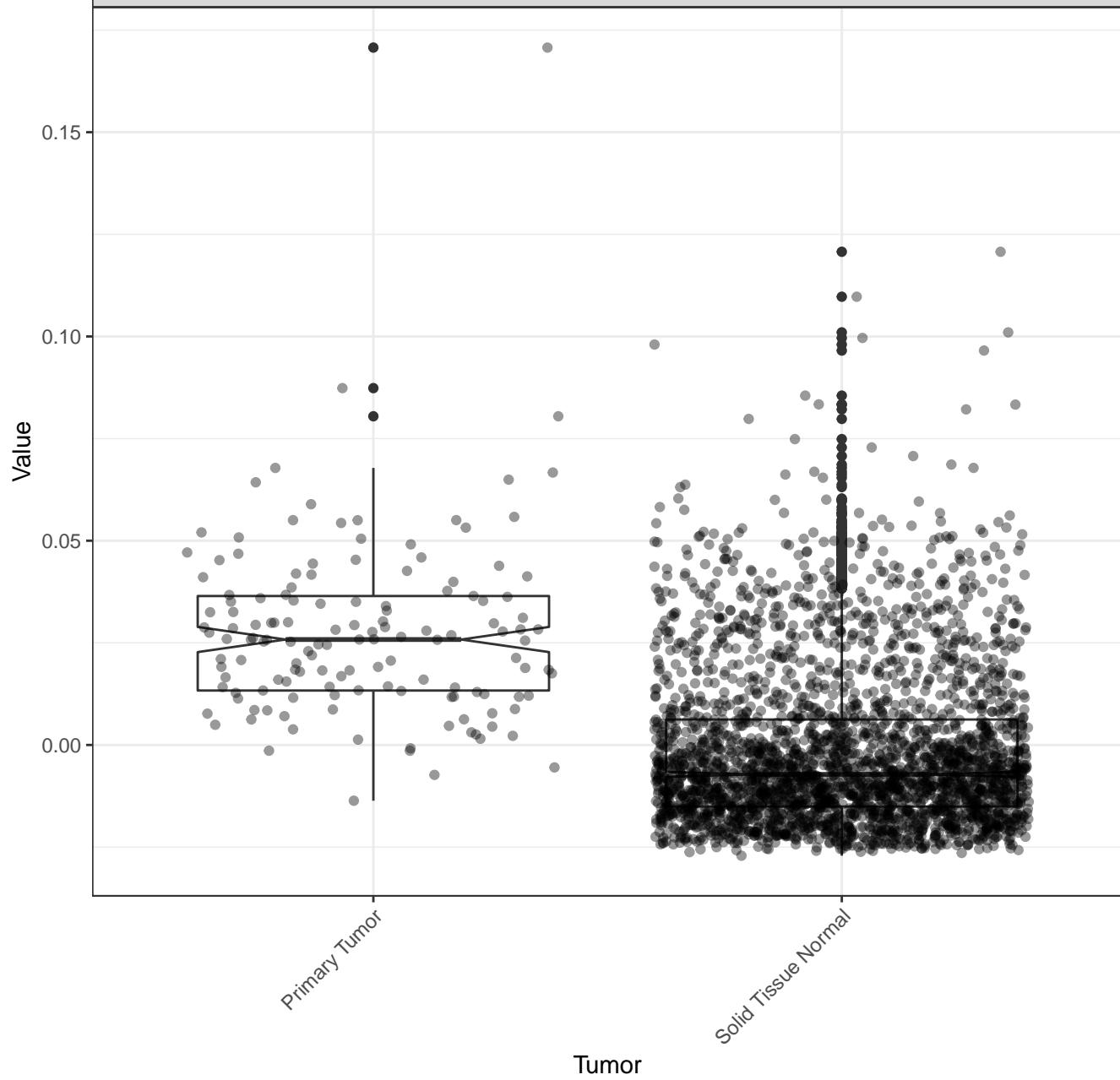
# 208,KEGG\_BASAL\_TRANSSCRIPTION\_FACTORS



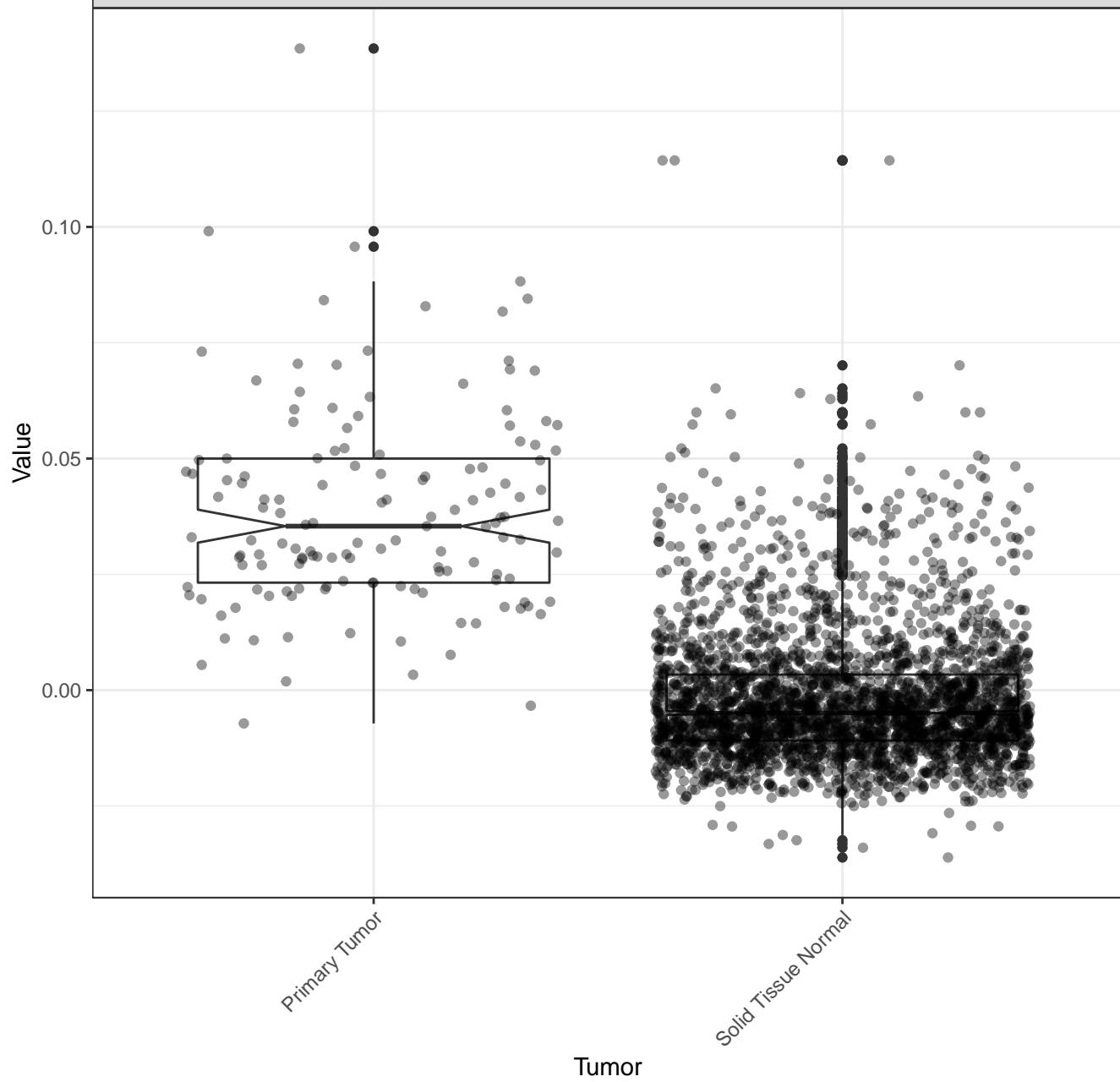
## 209,PID\_CERAMIDE\_PATHWAY



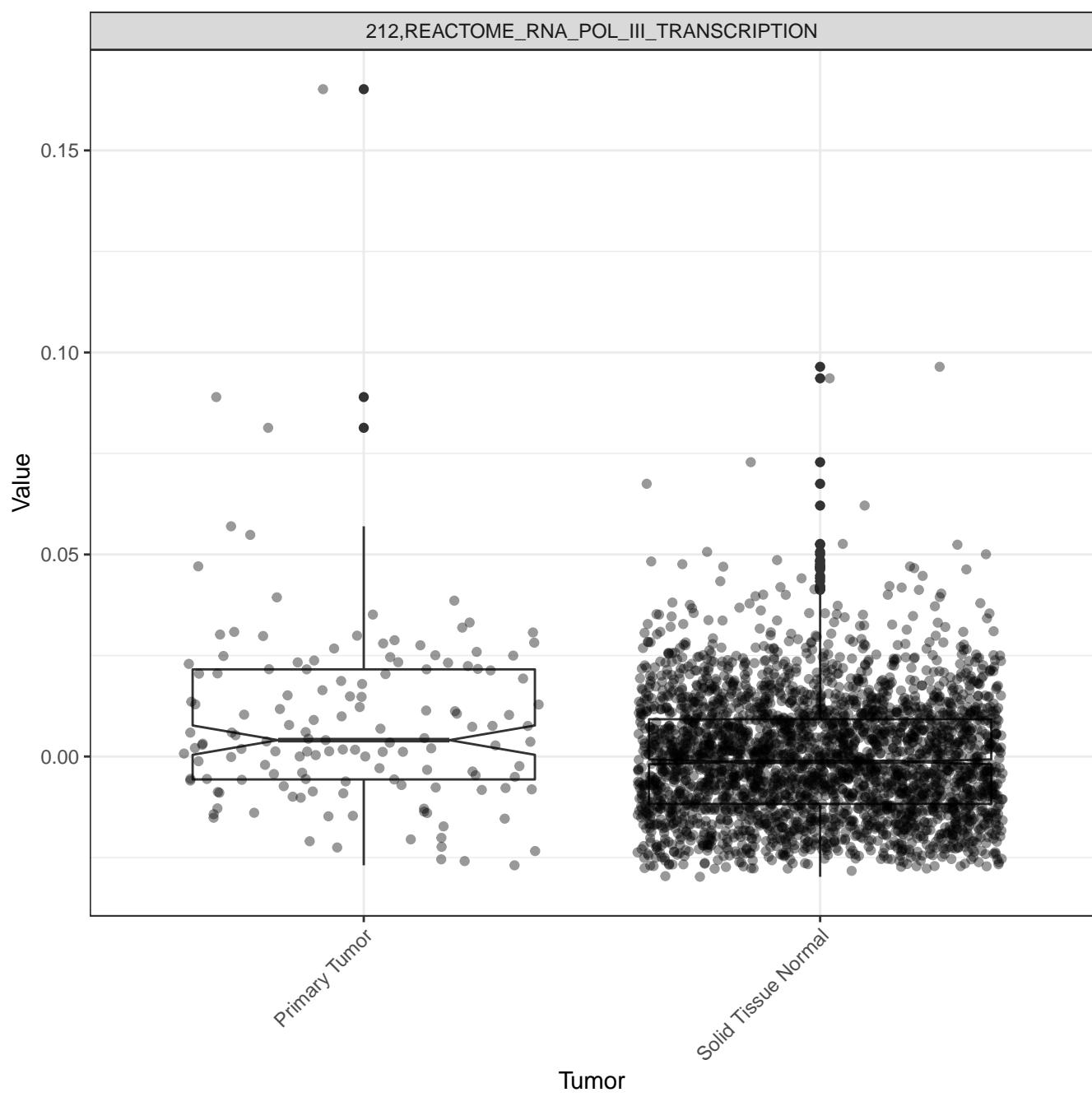
## 210,PID\_HES\_HEYPATHWAY



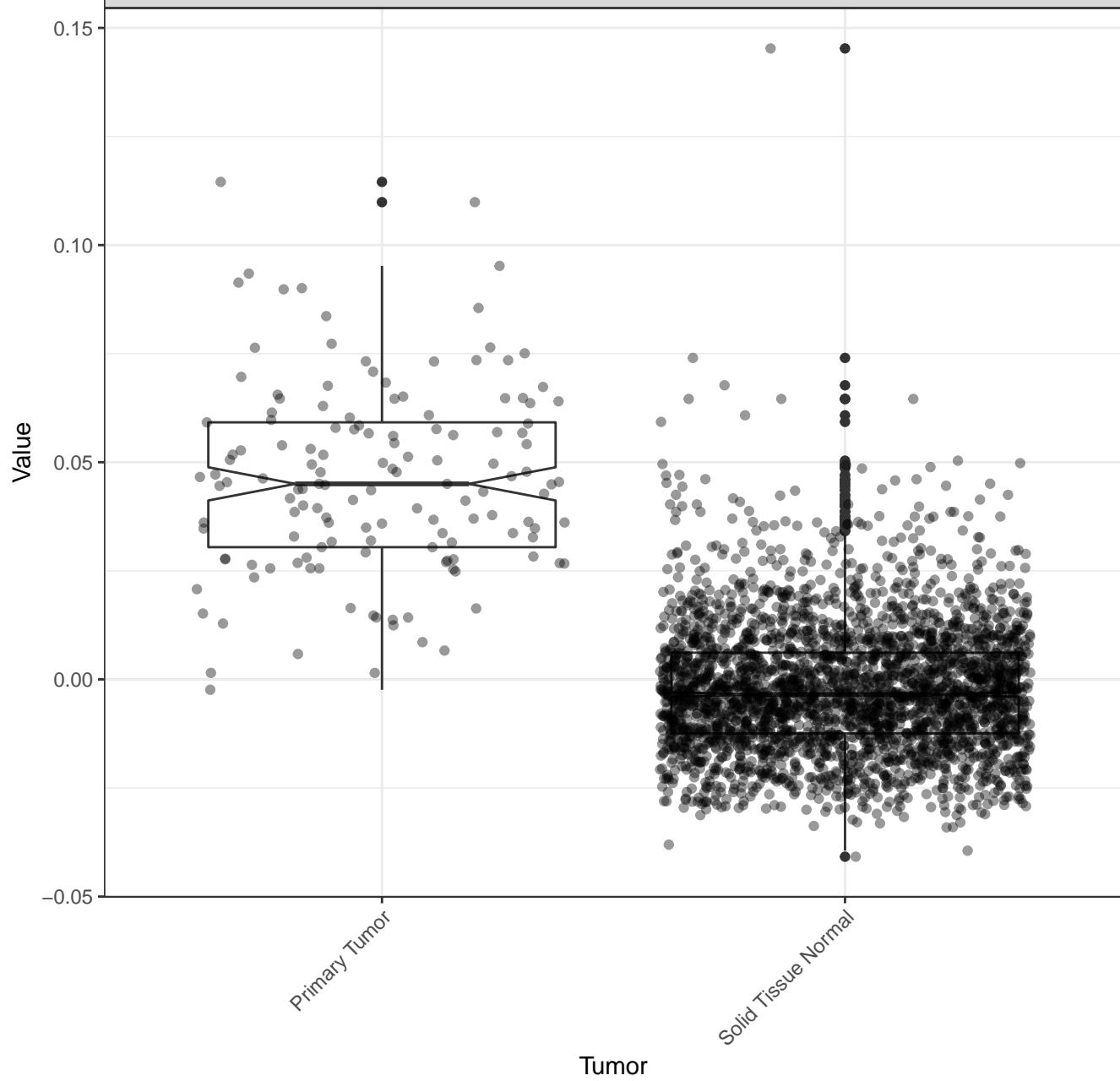
211,IRIS\_PlasmaCell–FromBoneMarrow



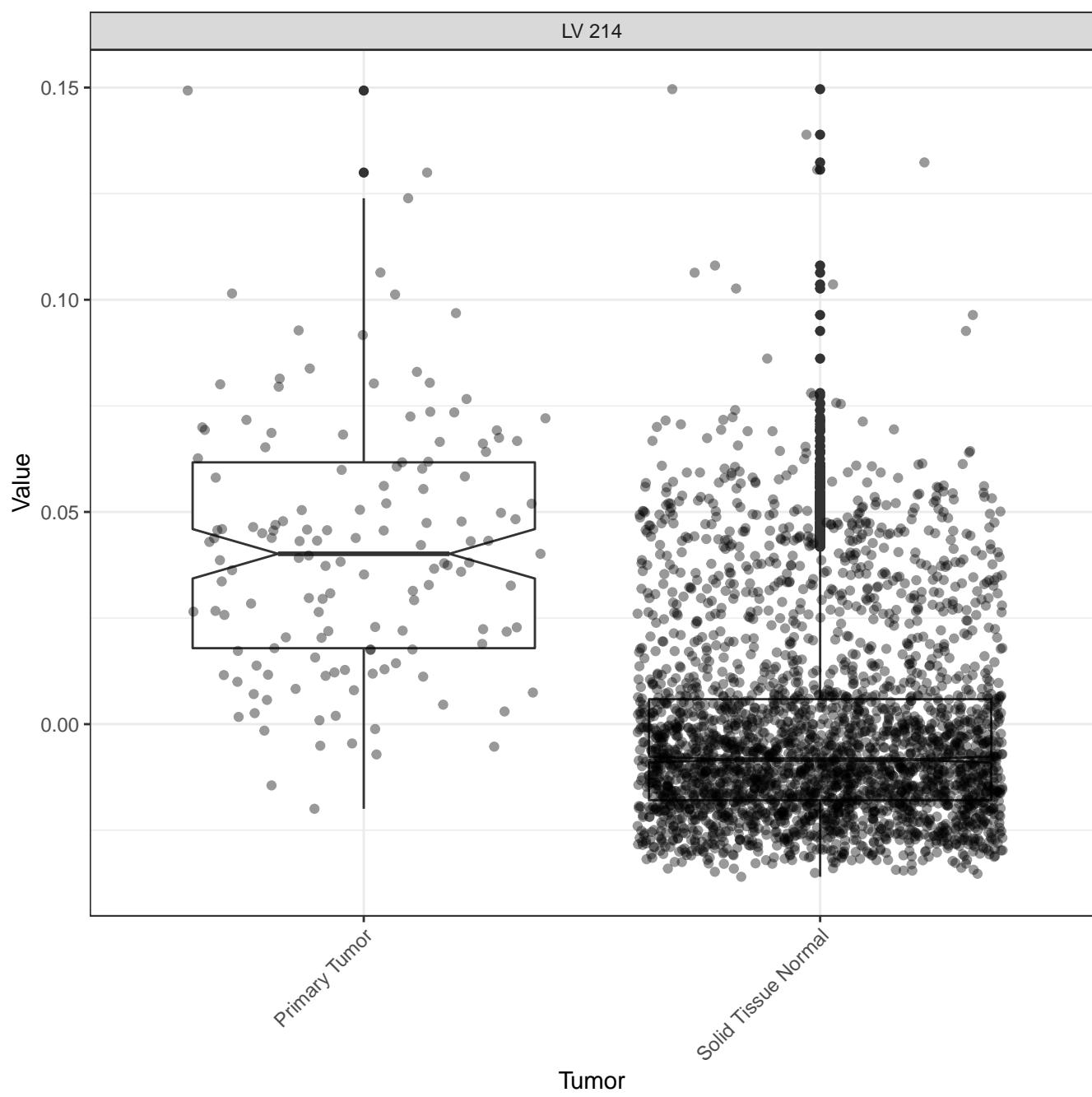
# 212,REACTOME\_RNA\_POL\_III\_TRANSCRIPTION



## 213,PID\_MYC\_ACTIVPATHWAY



LV 214



LV 215

Value

0.10

0.05

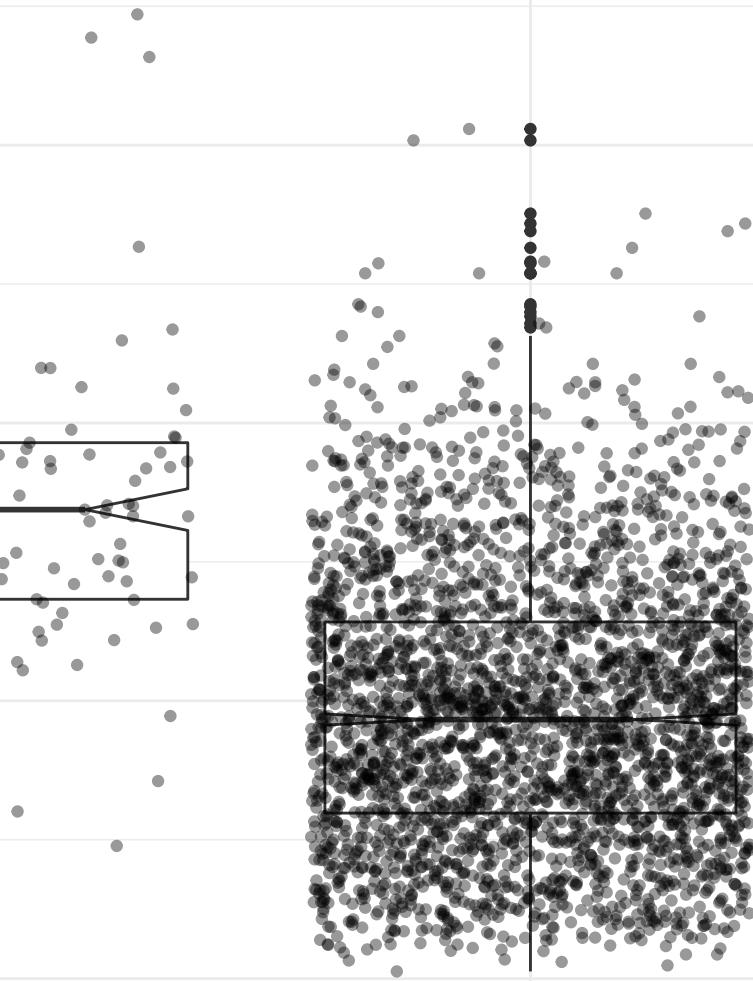
0.00

-0.05

Primary Tumor

Solid Tissue Normal

Tumor



# 216,KEGG\_PATHOGENIC\_ESCHERICHIA\_COLI\_INFECTON

Value

0.50

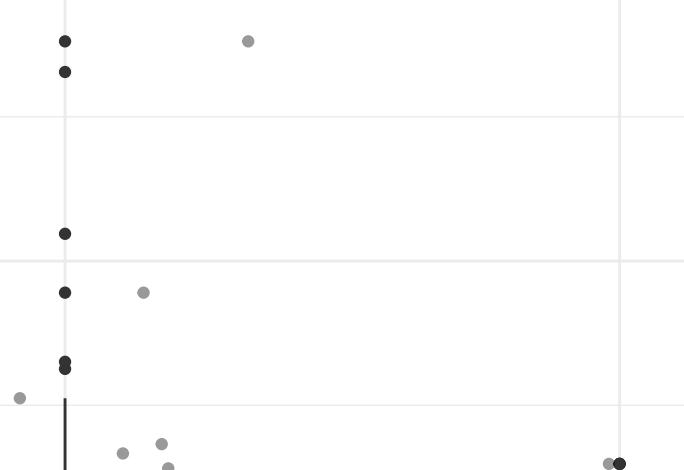
0.25

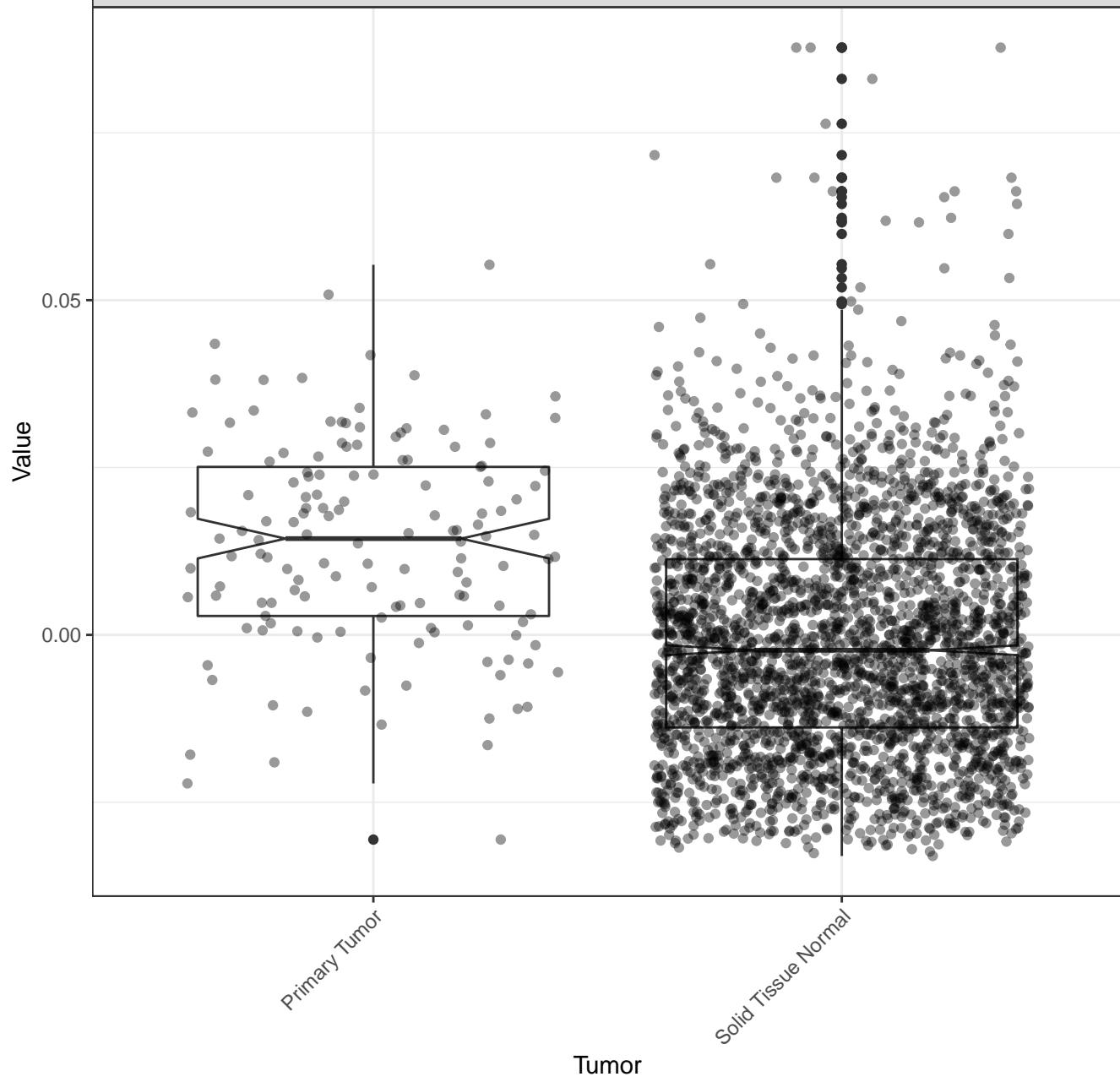
0.00

Primary Tumor

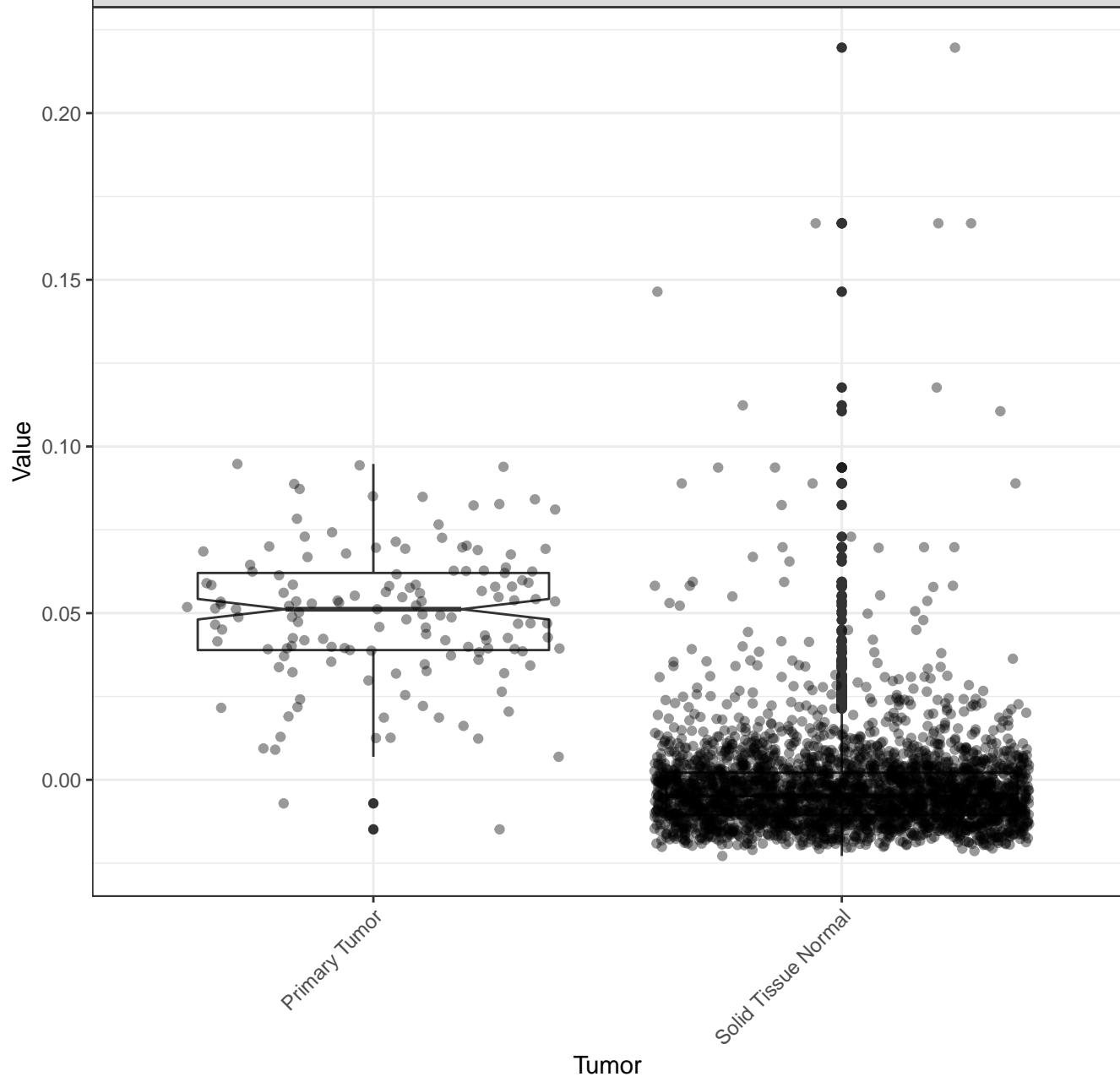
Solid Tissue Normal

Tumor

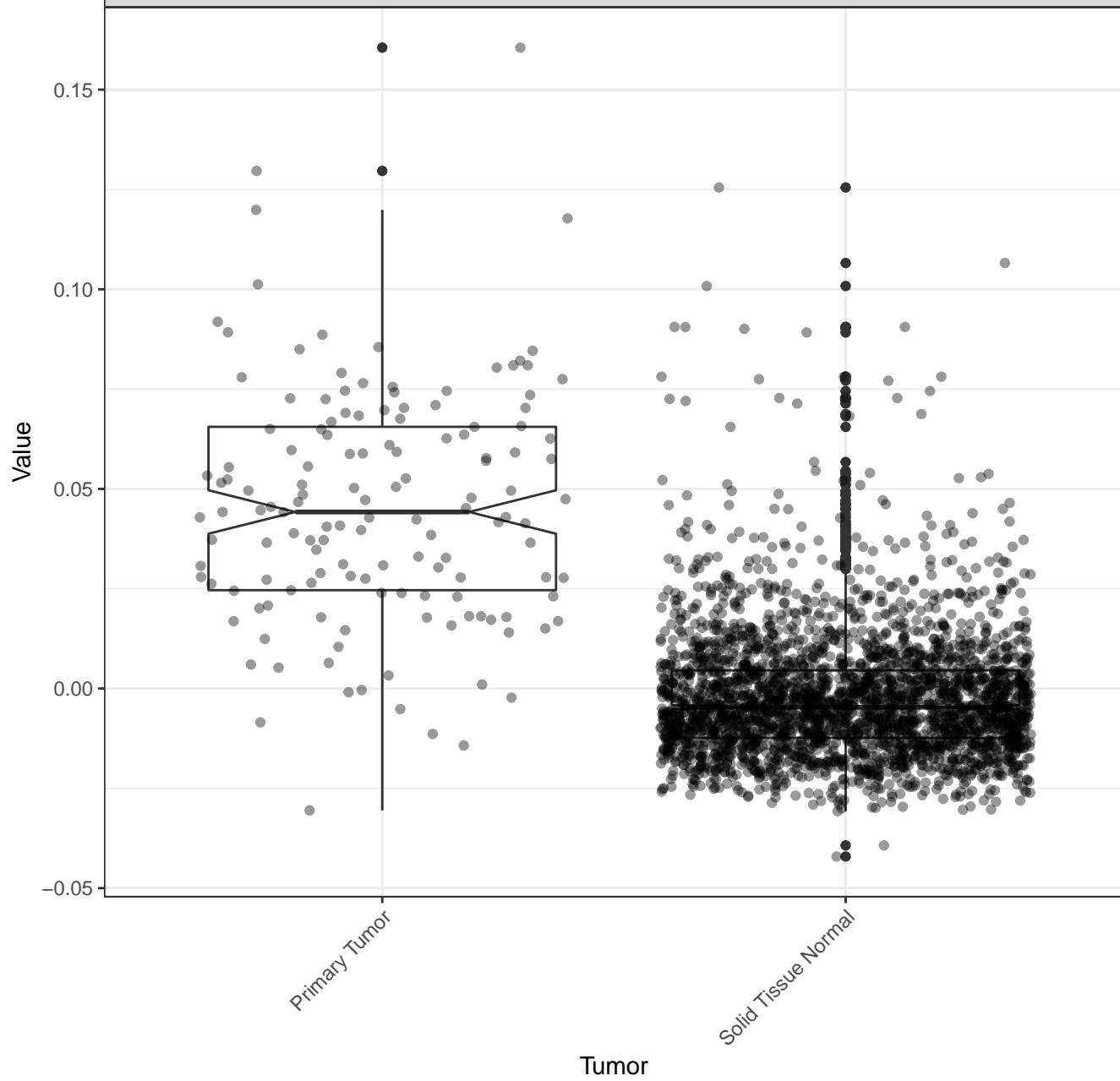




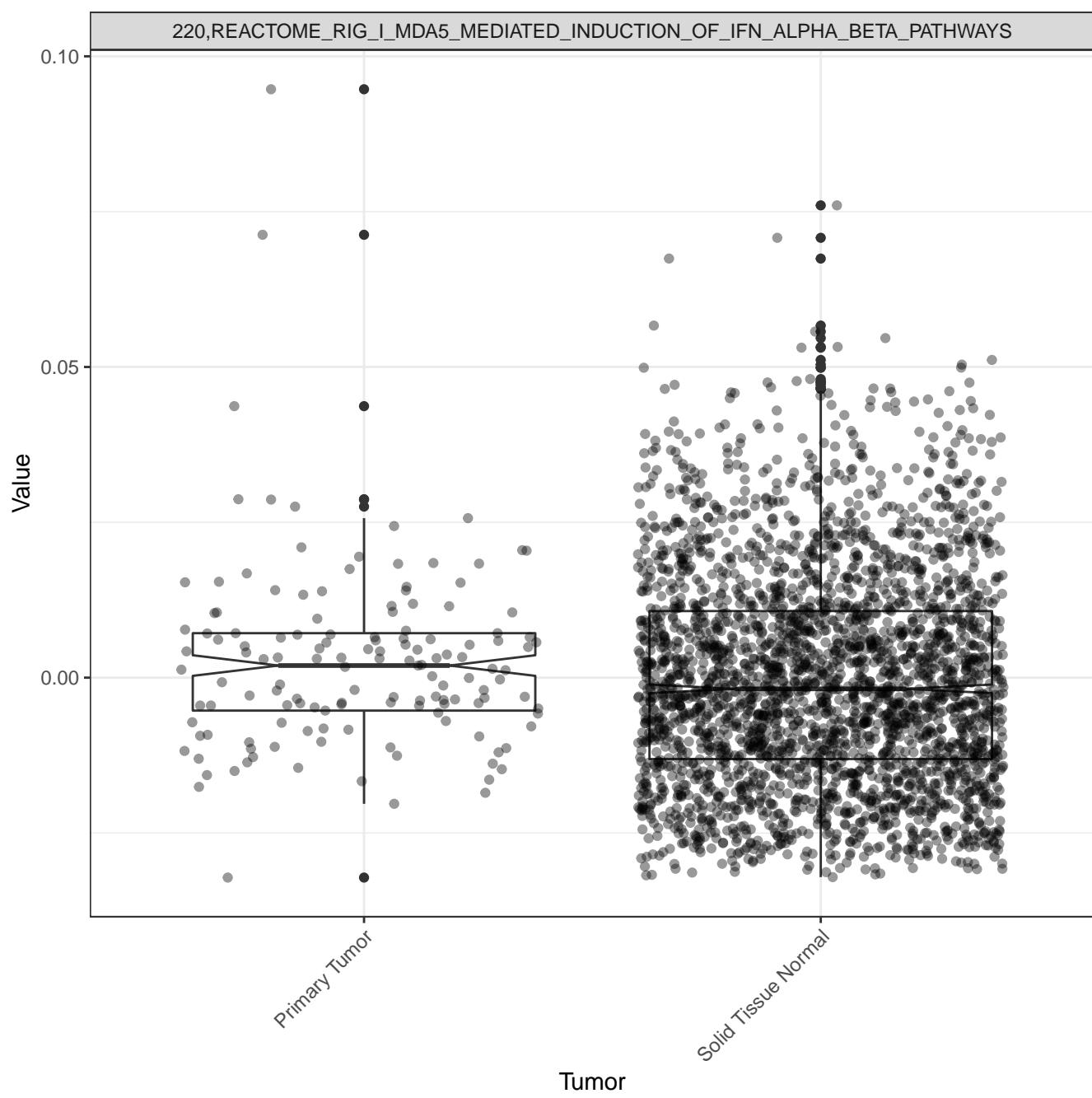
## 218,IRIS\_Monocyte-Day7



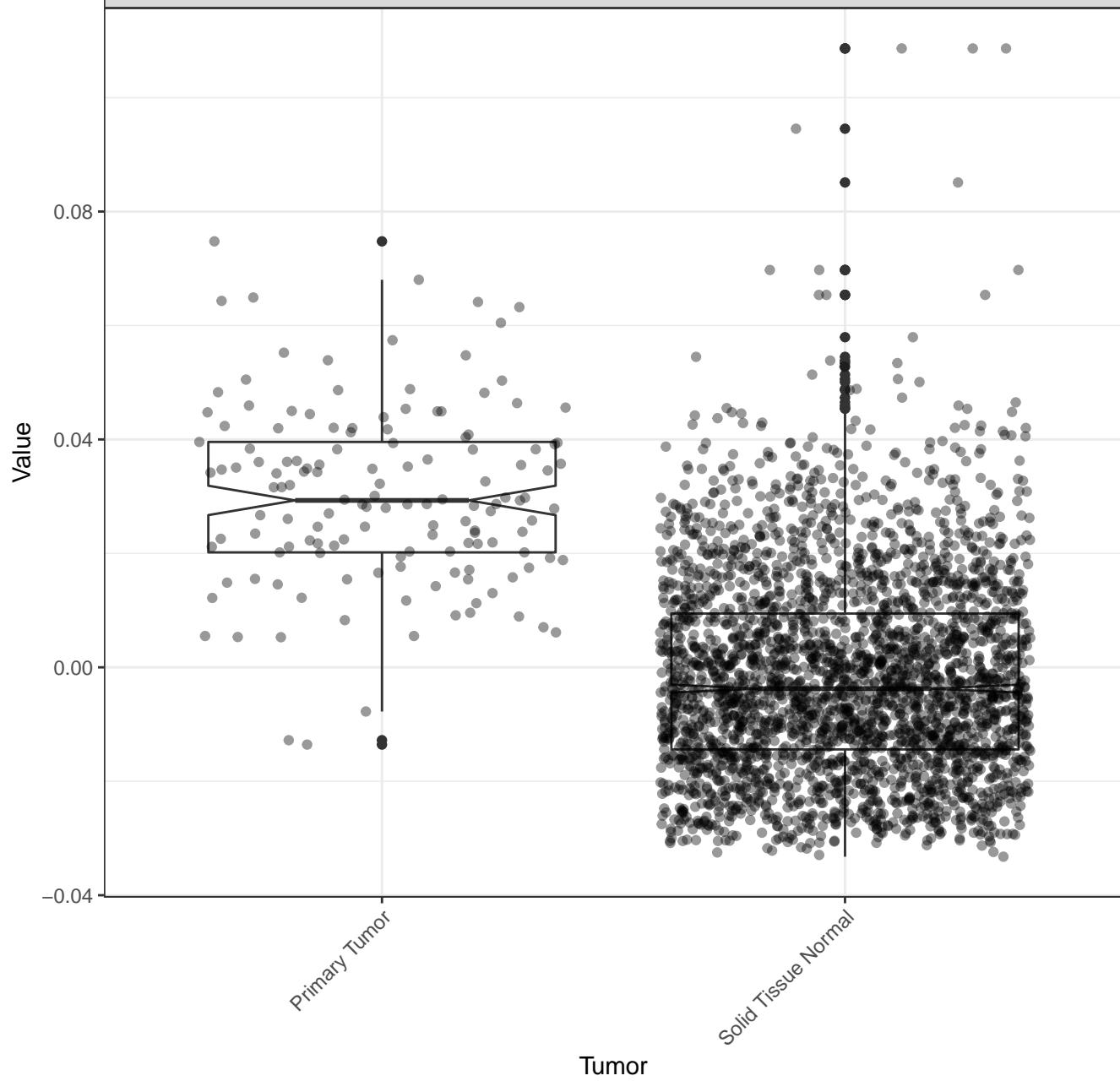
# 219,REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TRANSPORT



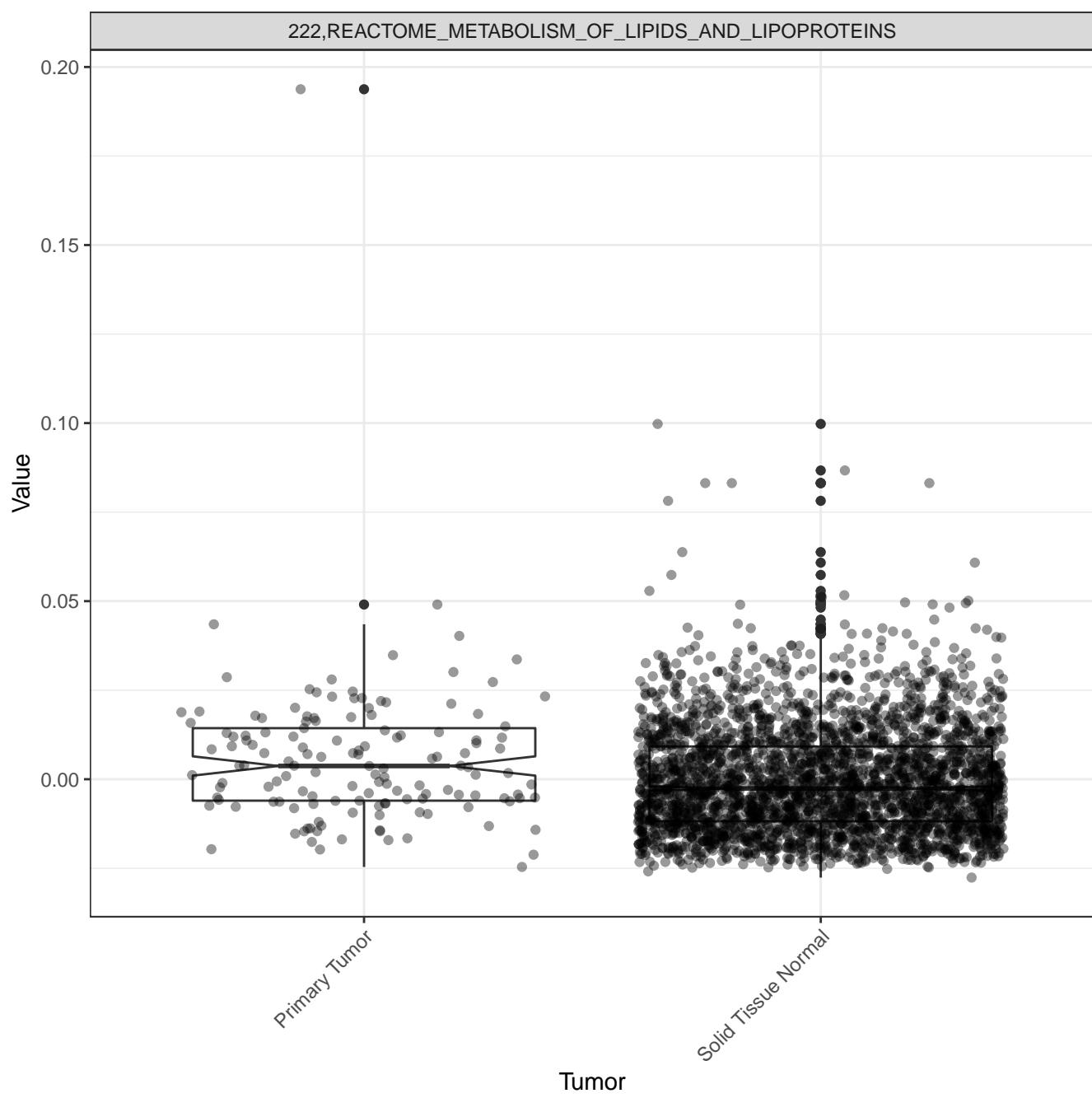
## 220,REACTOME\_RIG\_I\_MDA5\_MEDIATED\_INDUCTION\_OF\_IFN\_ALPHA\_BETA\_PATHWAYS



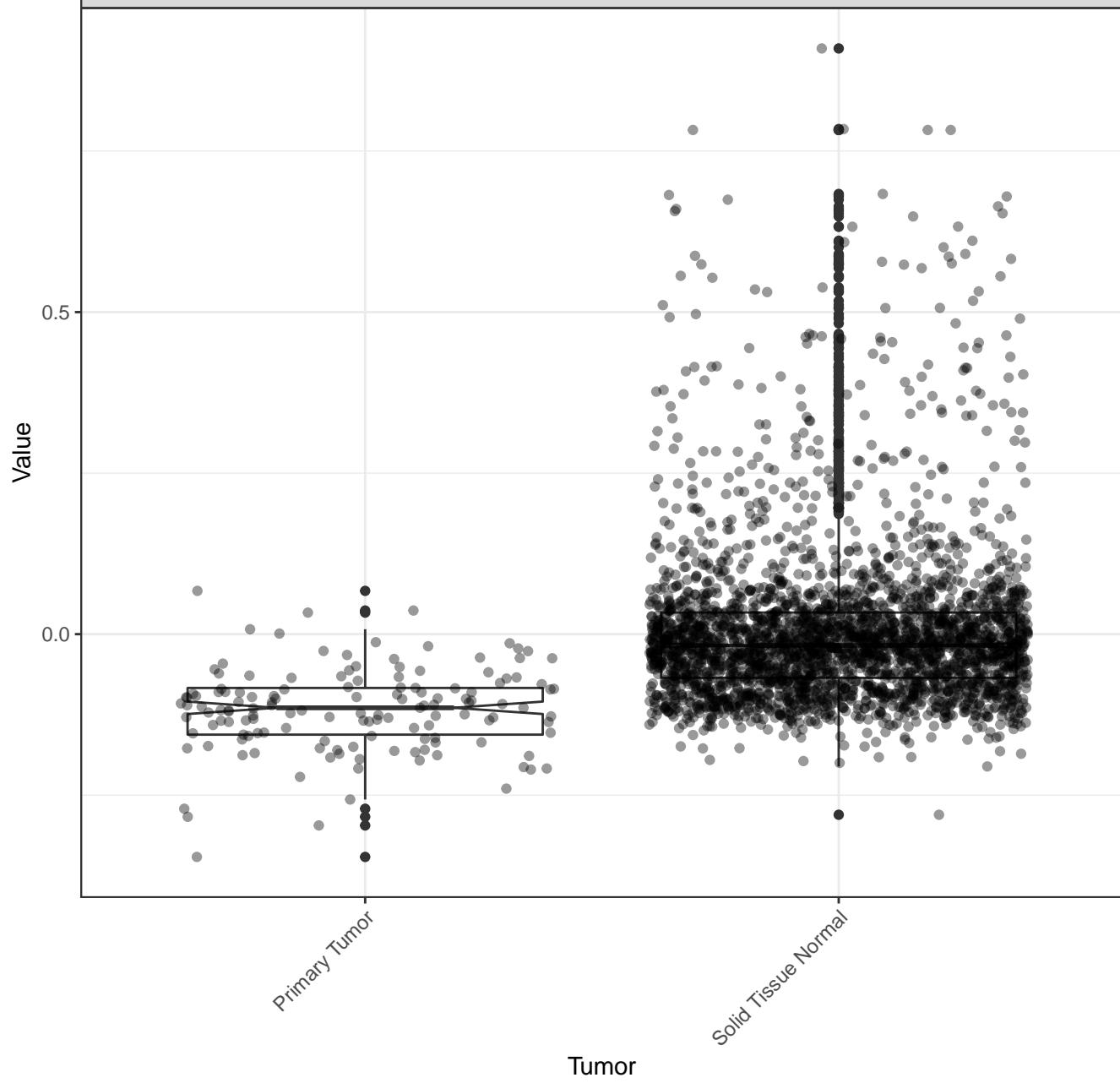
## 221,DMAP\_ERY4

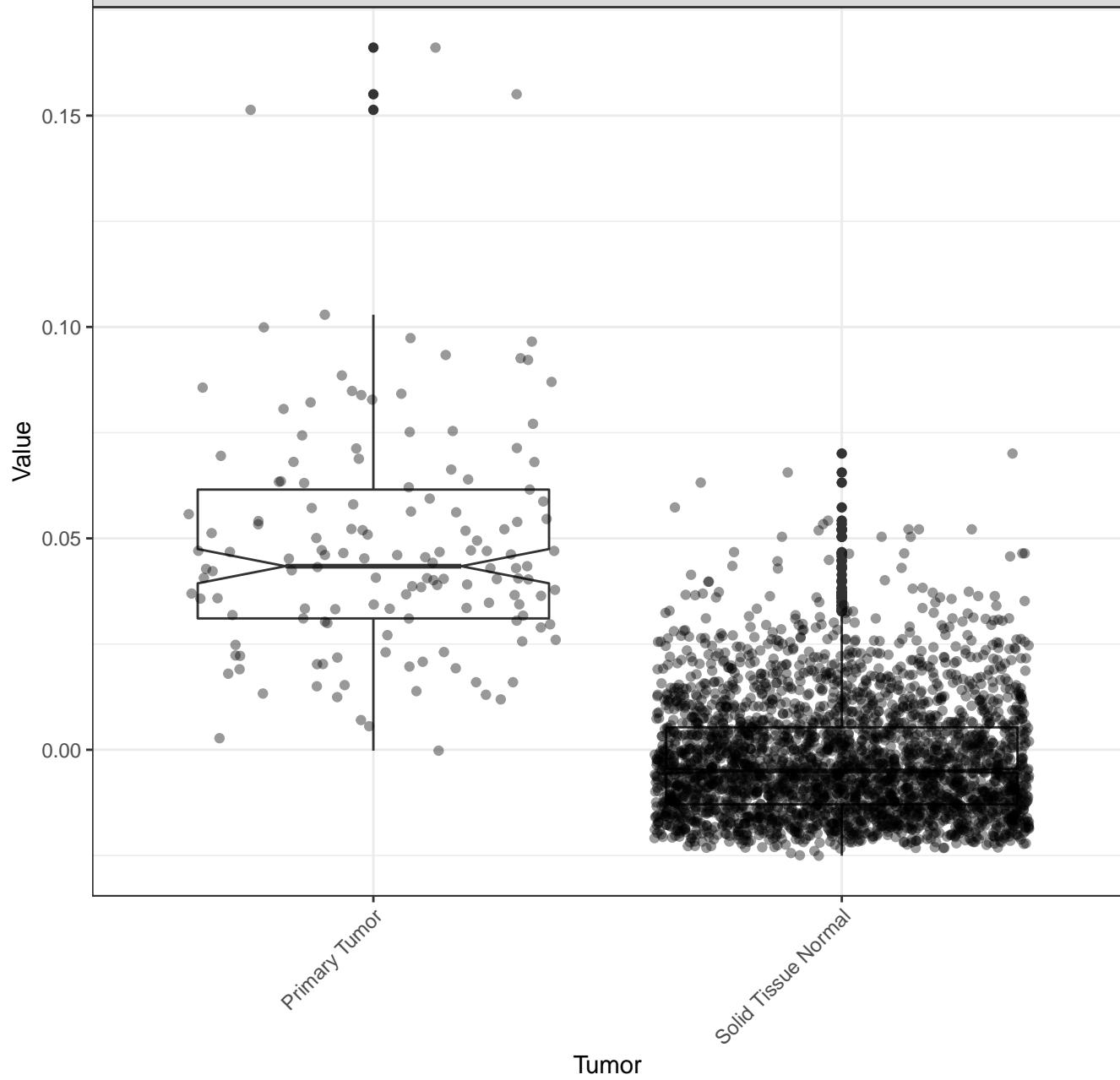


## 222,REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

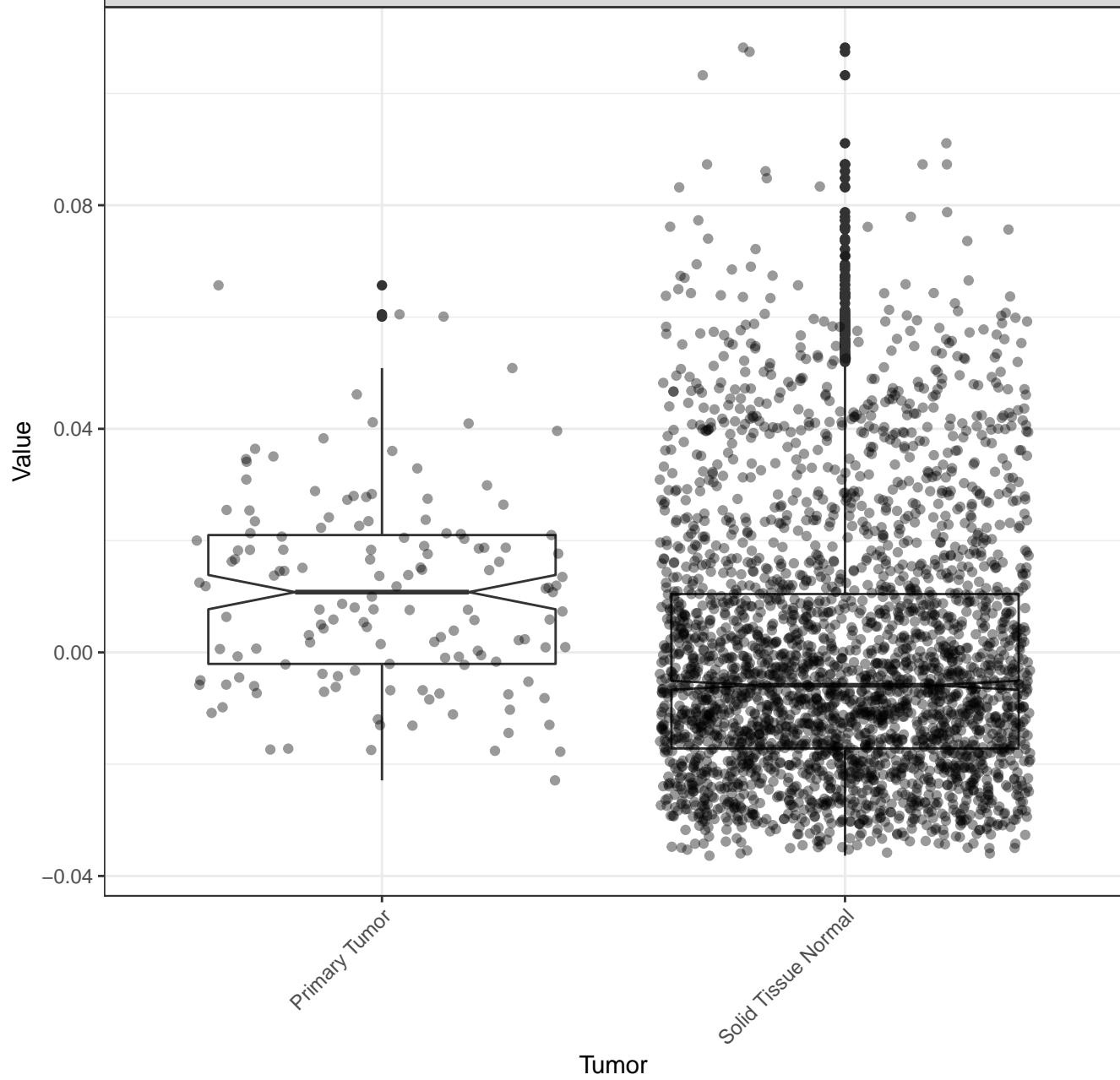


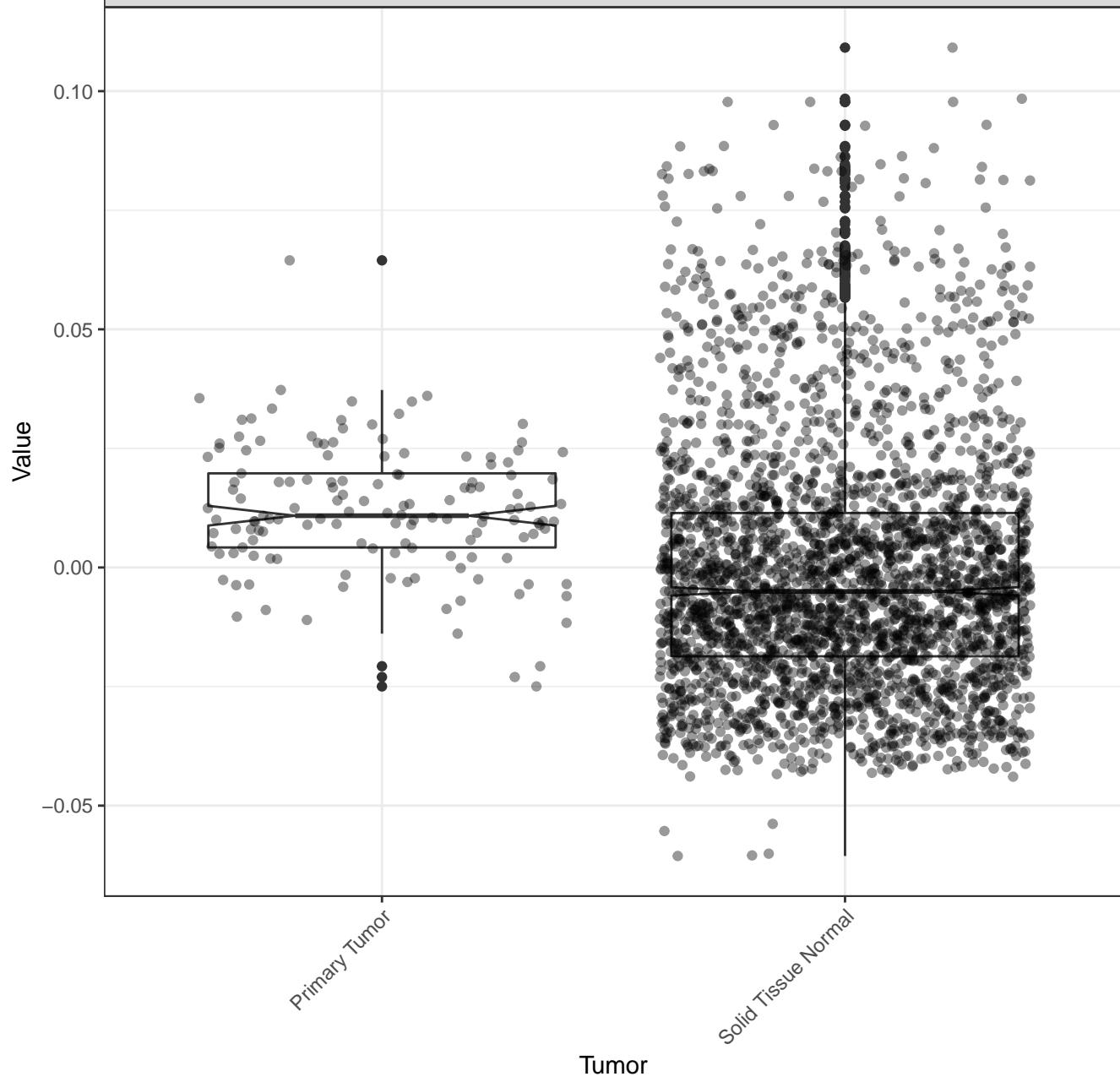
## 223,PID\_P75NTRPATHWAY





## 225,KEGG\_CYSTEINE\_AND\_METHIONINE\_METABOLISM





227,REACTOME\_INTERACTIONS\_OF\_VPR\_WITH\_HOST\_CELLULAR\_PROTEINS

Value

0.15

0.10

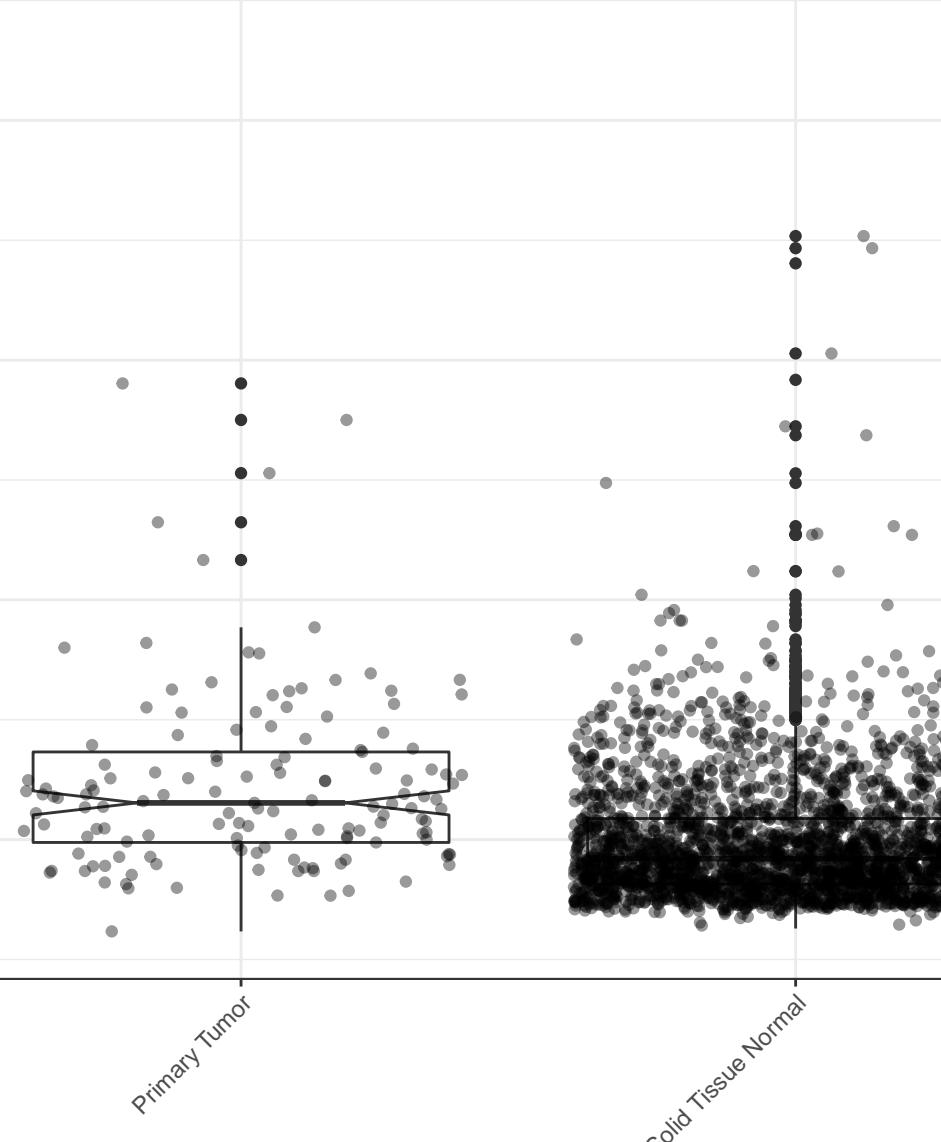
0.05

0.00

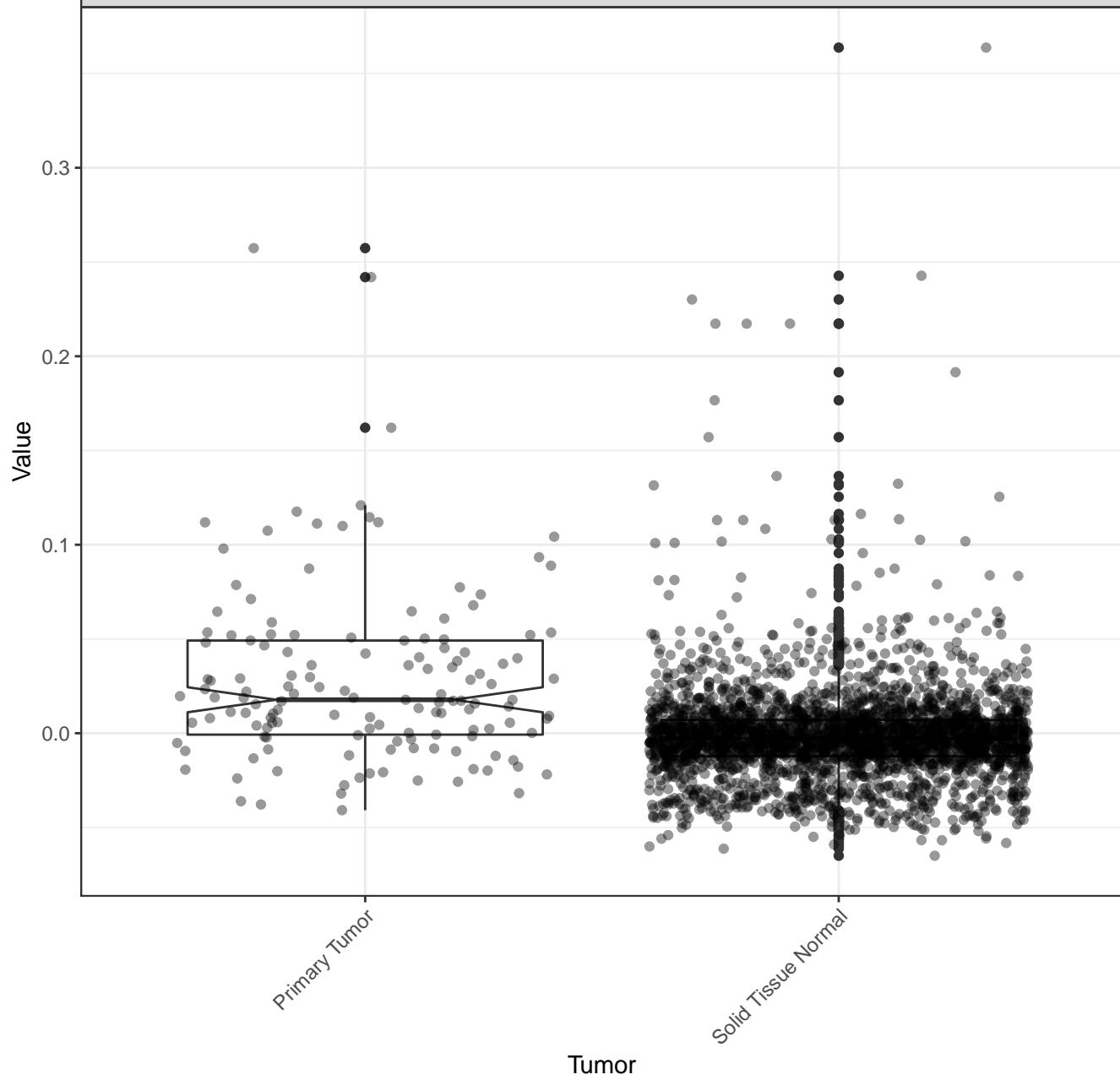
Primary Tumor

Solid Tissue Normal

Tumor



## 228,DMAP\_NKA3



## 229,PID\_ATF2\_PATHWAY

Value

0.10

0.05

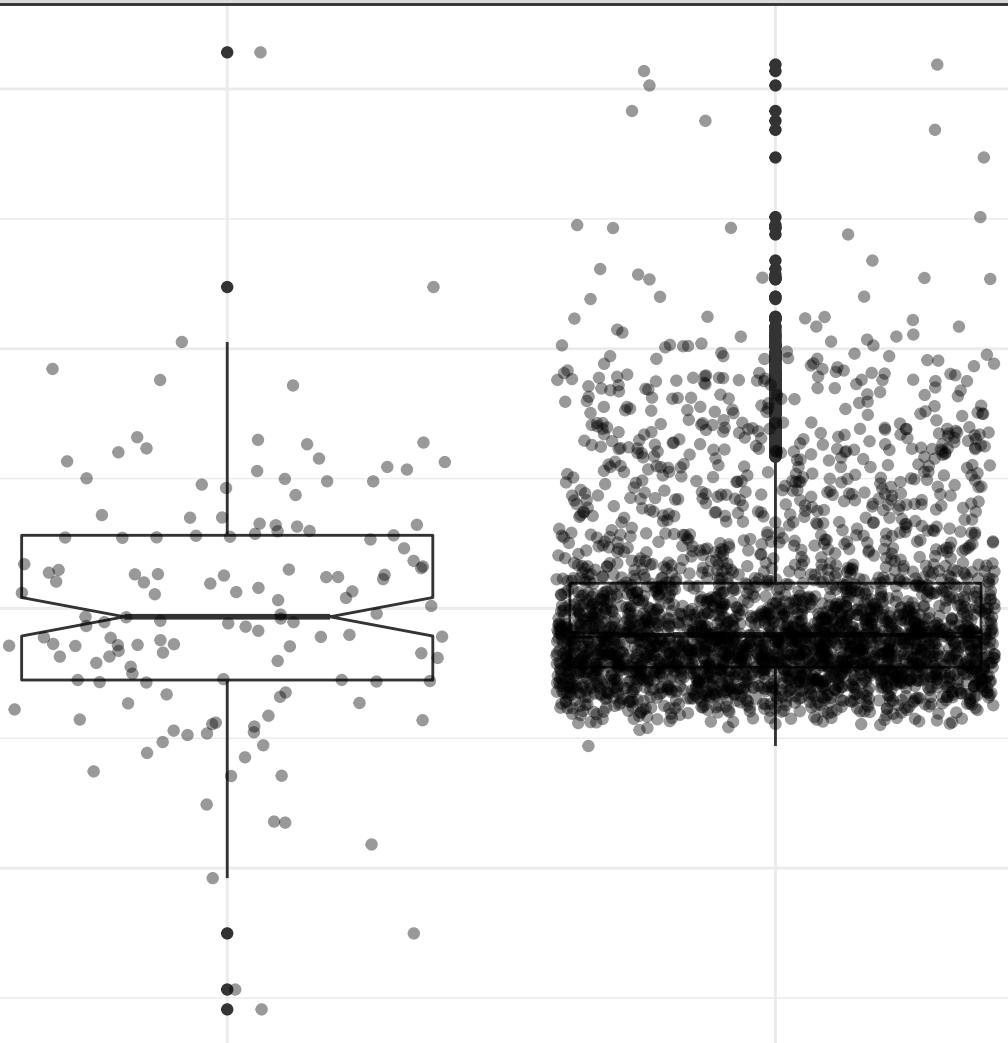
0.00

-0.05

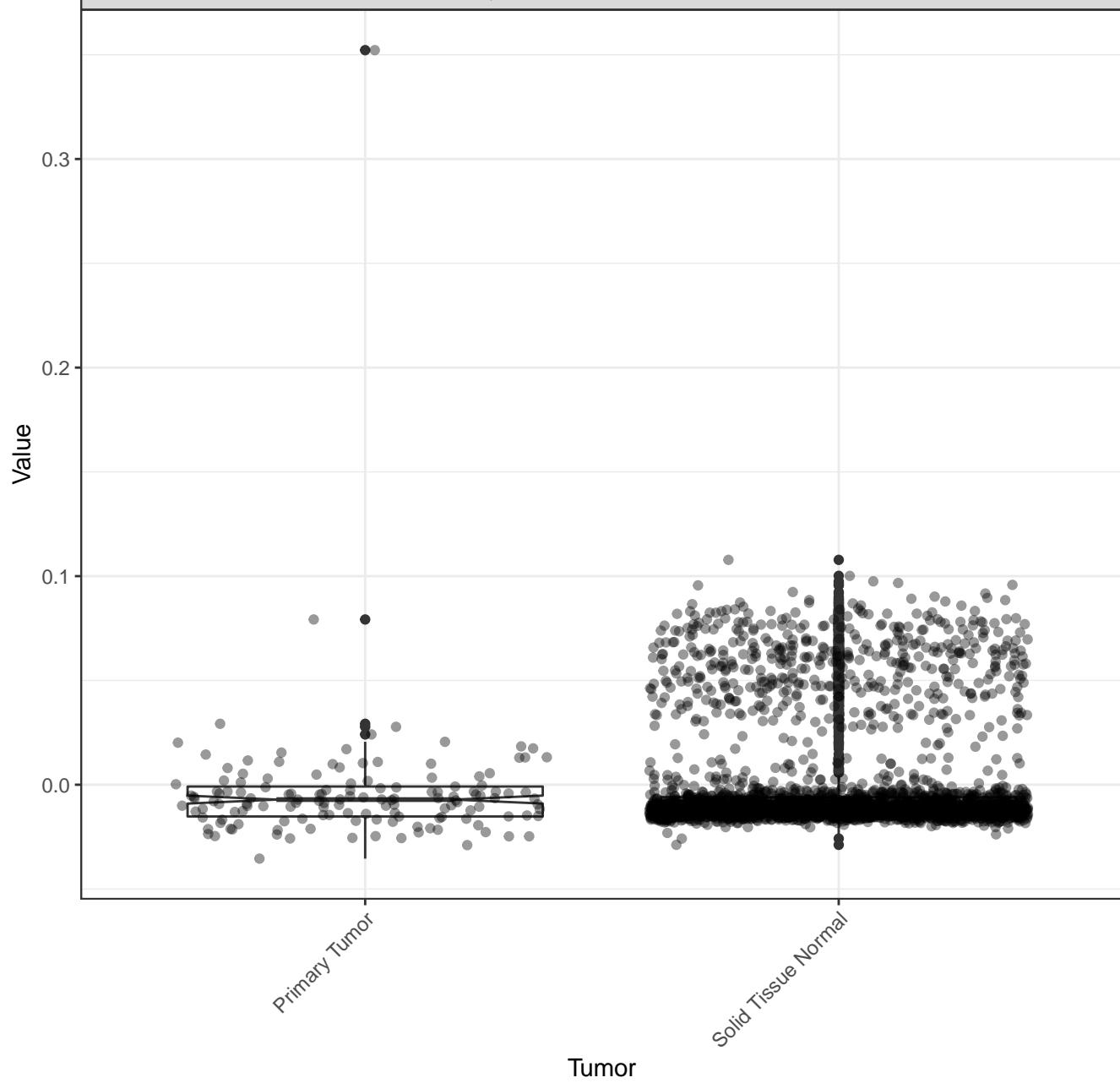
Primary Tumor

Solid Tissue Normal

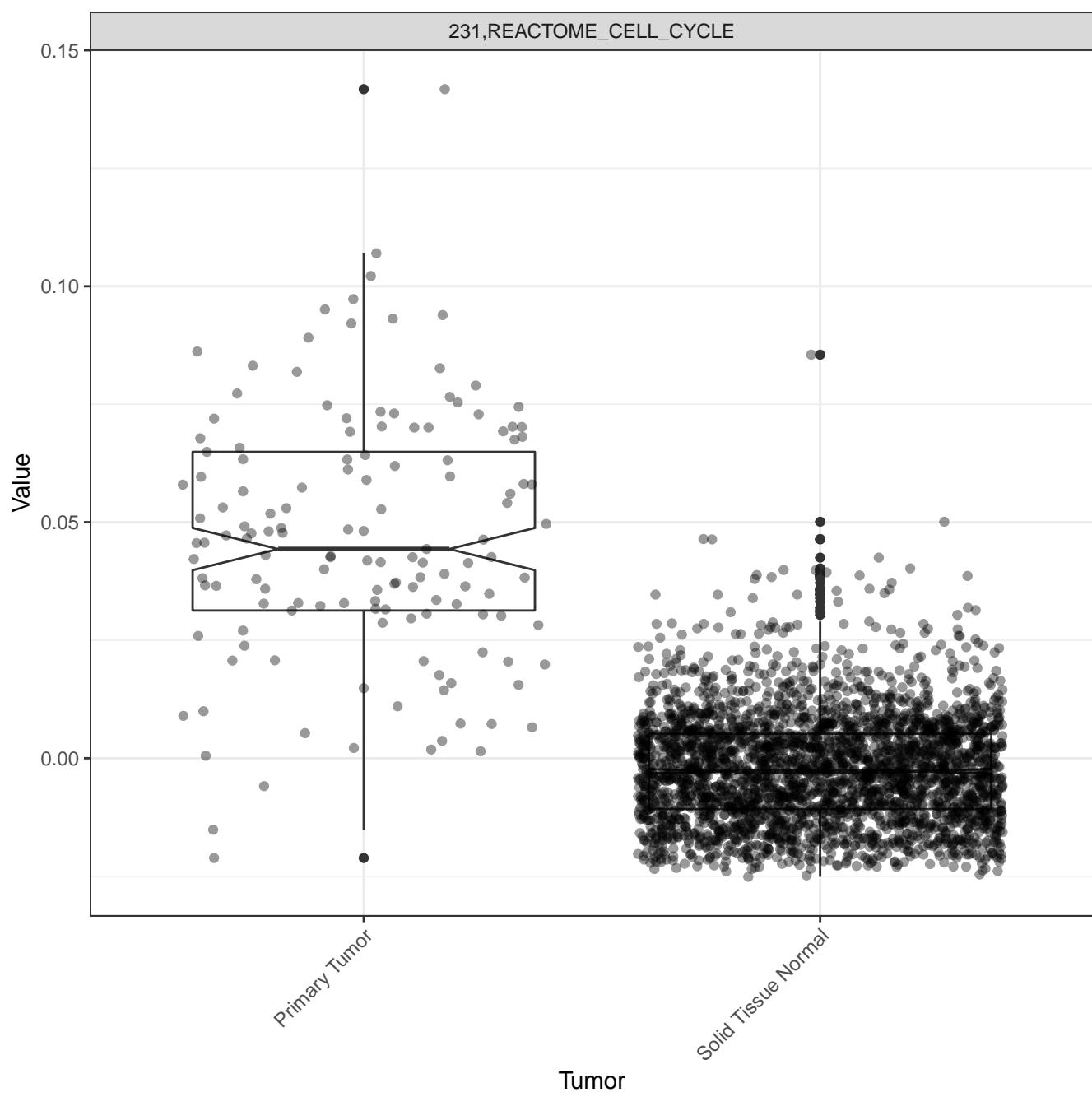
Tumor



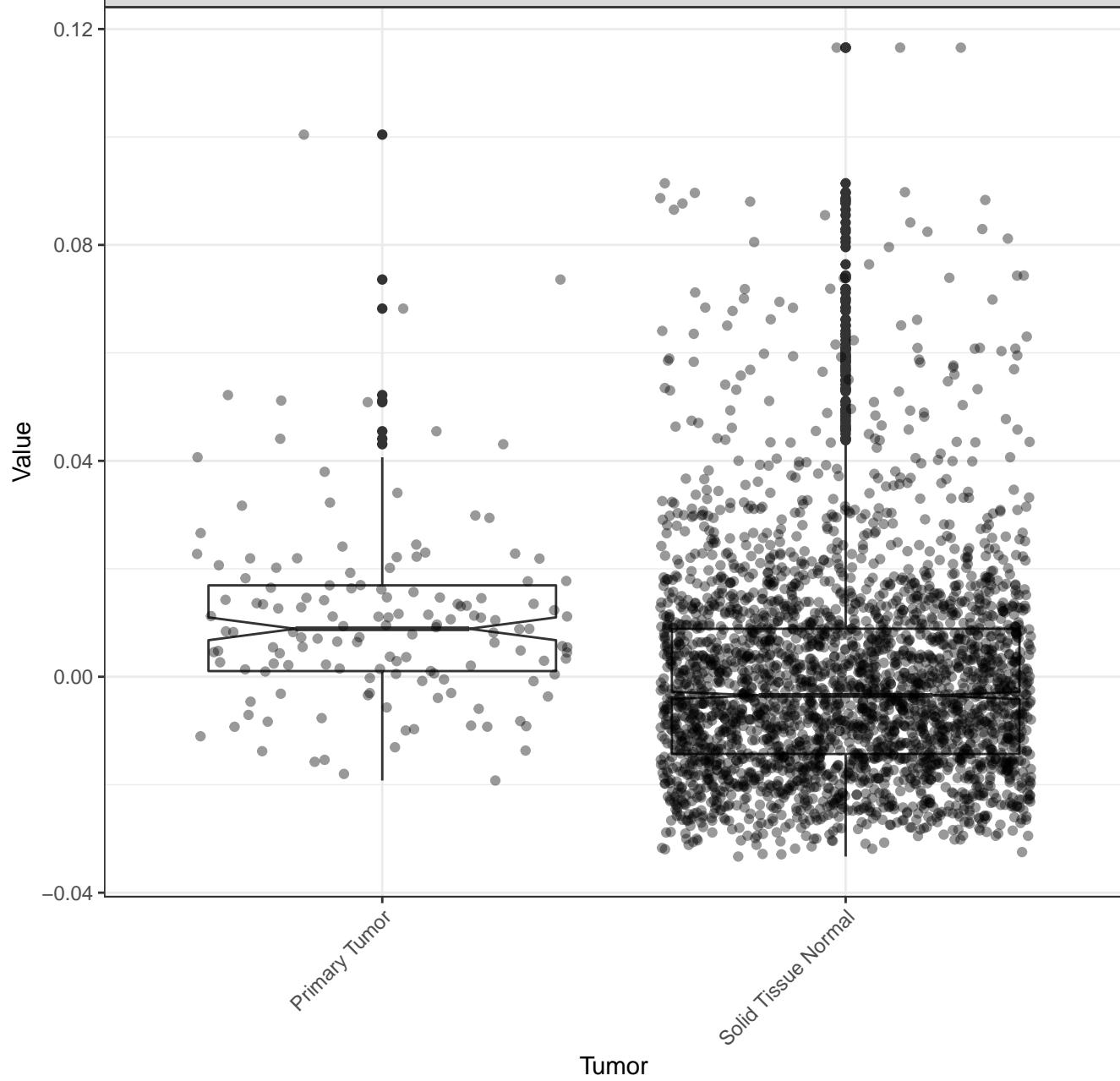
## 230,REACTOME\_CELL\_CYCLE

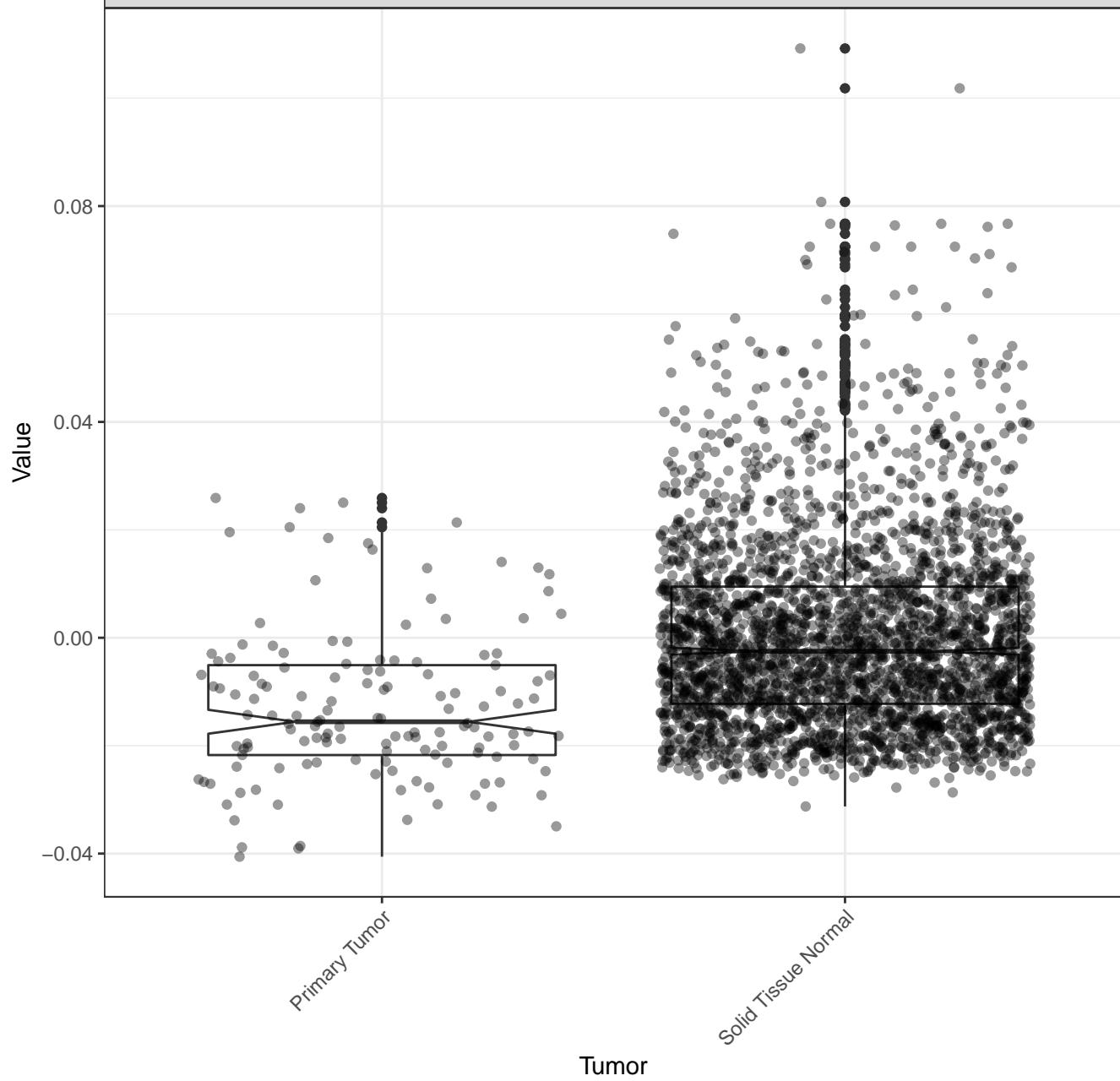


## 231,REACTOME\_CELL\_CYCLE



## 232,REACTOME\_LOSS\_OF\_NLP\_FROM\_MITOTIC\_CENTROSOMES





Value

0.05

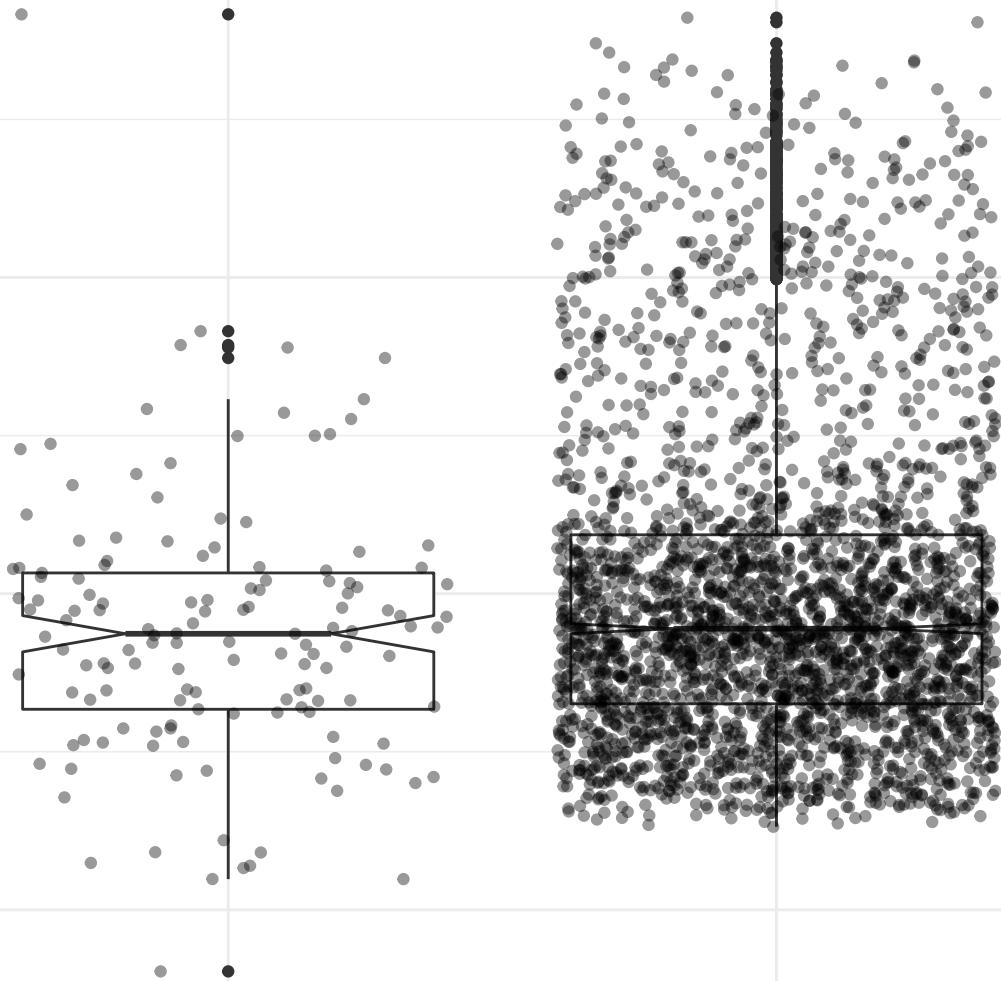
0.00

-0.05

Primary Tumor

Solid Tissue Normal

Tumor



## 235,IRIS\_PlasmaCell–FromBoneMarrow

Value

0.06

0.03

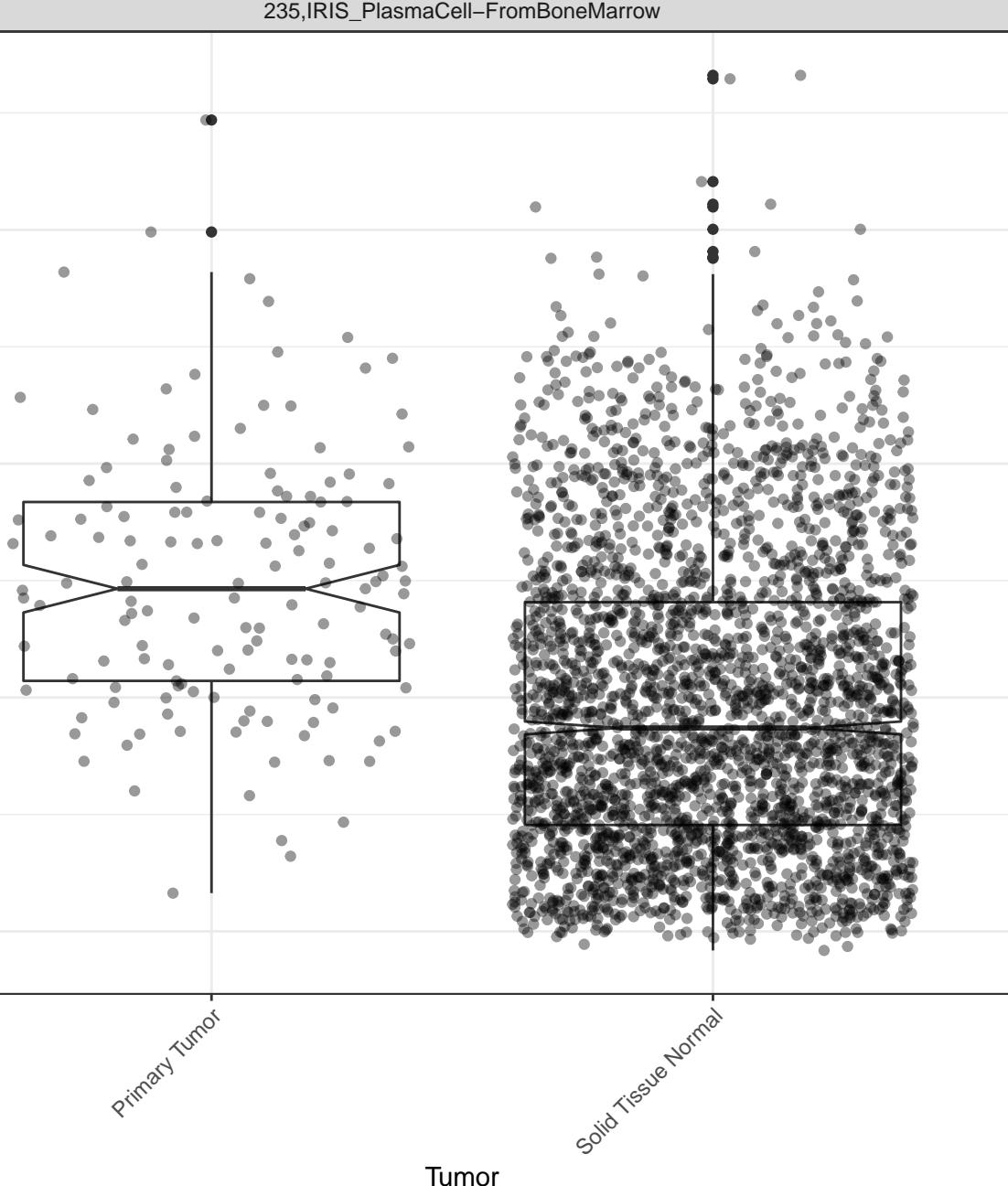
0.00

-0.03

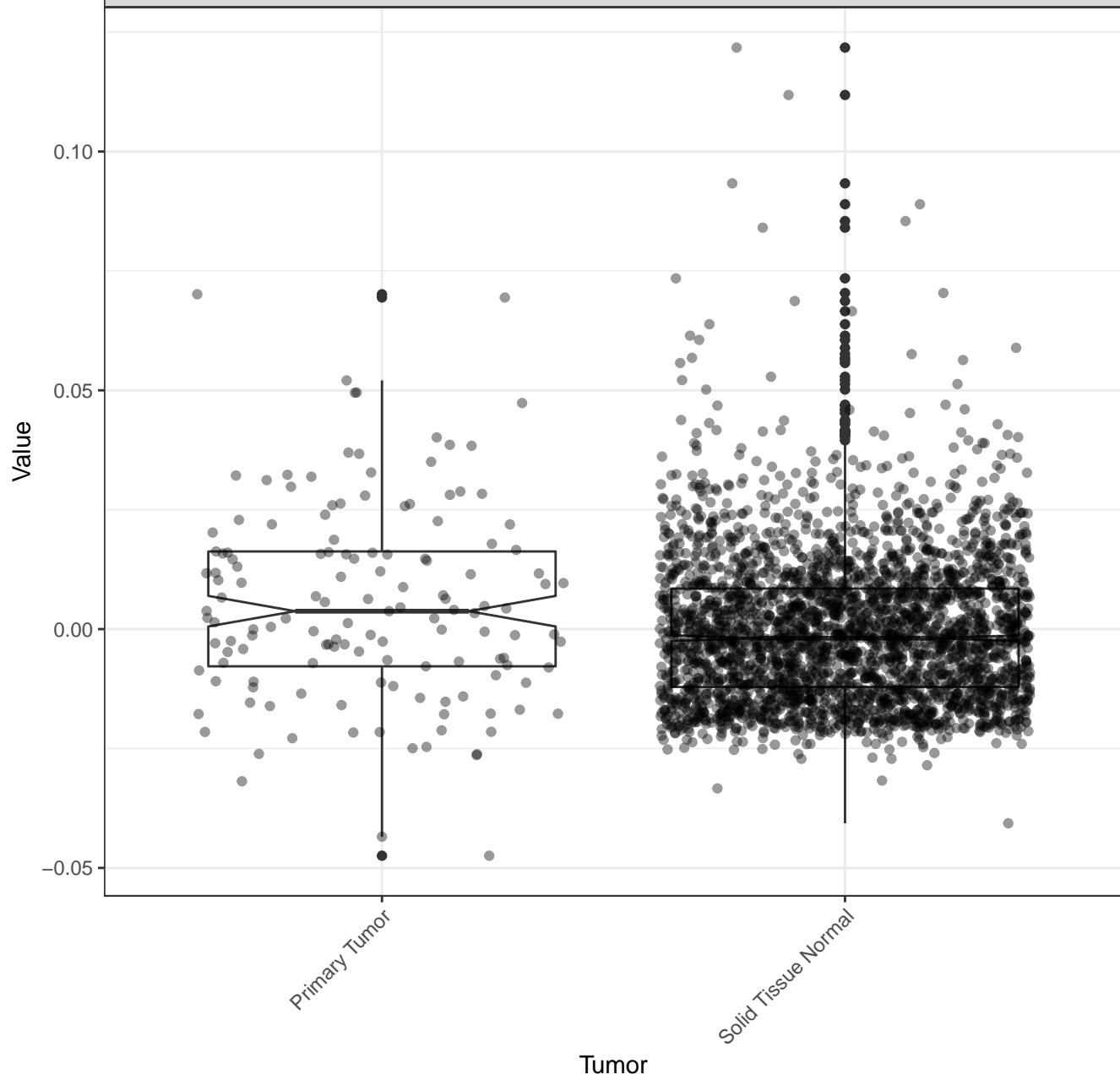
Primary Tumor

Solid Tissue Normal

Tumor



## 236,REACTOME\_MEIOSIS



# 237,SVM Macrophages M0

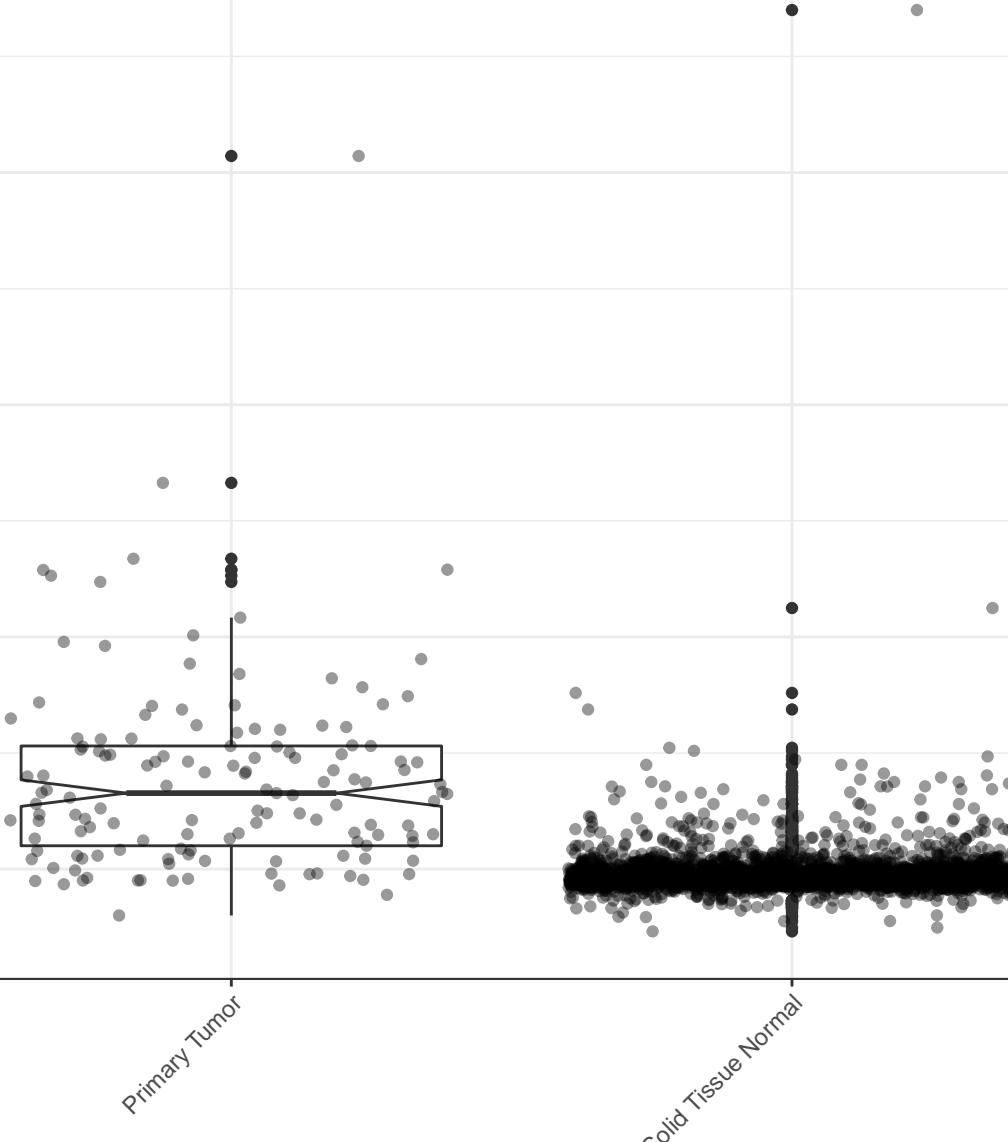
Value

0.8  
0.6  
0.4  
0.2  
0.0

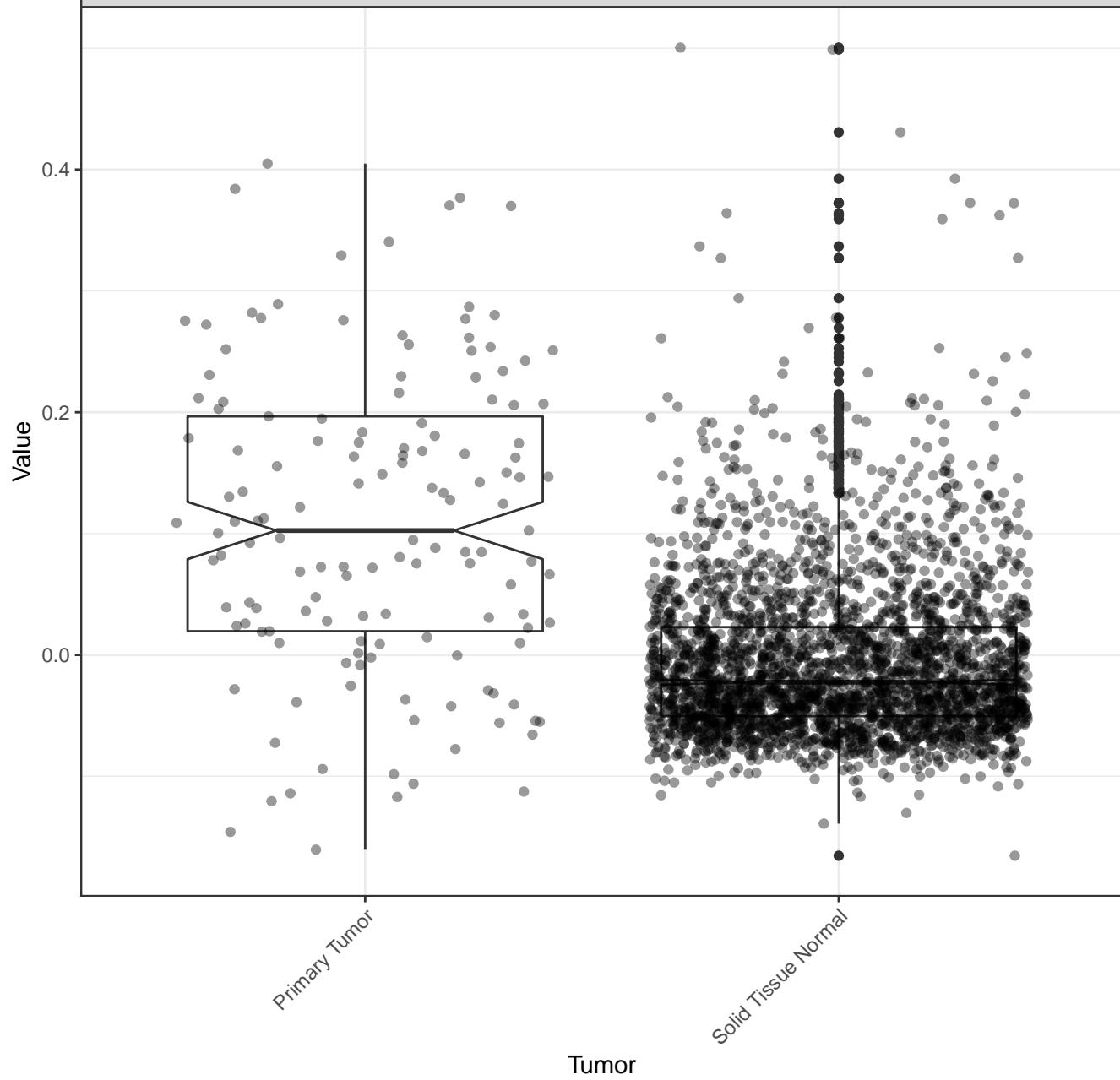
Primary Tumor

Solid Tissue Normal

Tumor



## 238,PID\_FAK\_PATHWAY



LV 239

Value

0.10

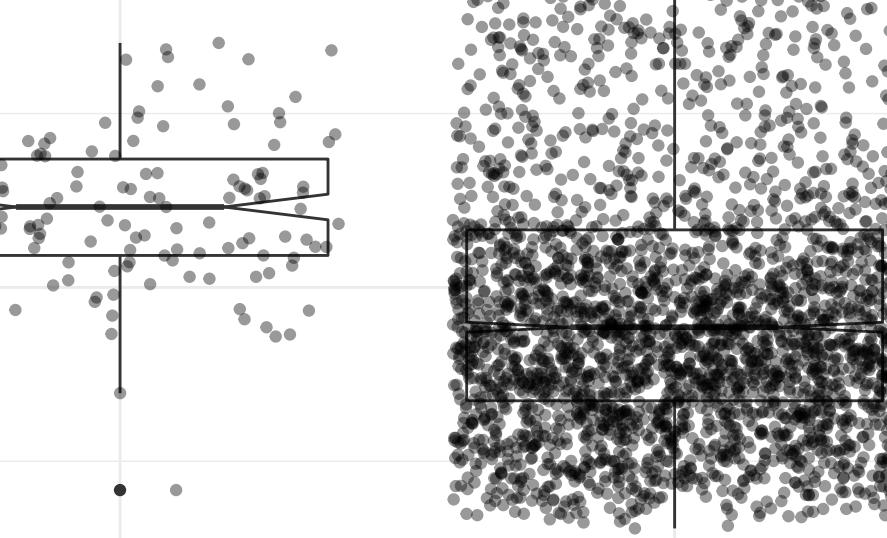
0.05

0.00

Primary Tumor

Tumor

Solid Tissue Normal



240,SVM Dendritic cells activated

Value

0.15

0.10

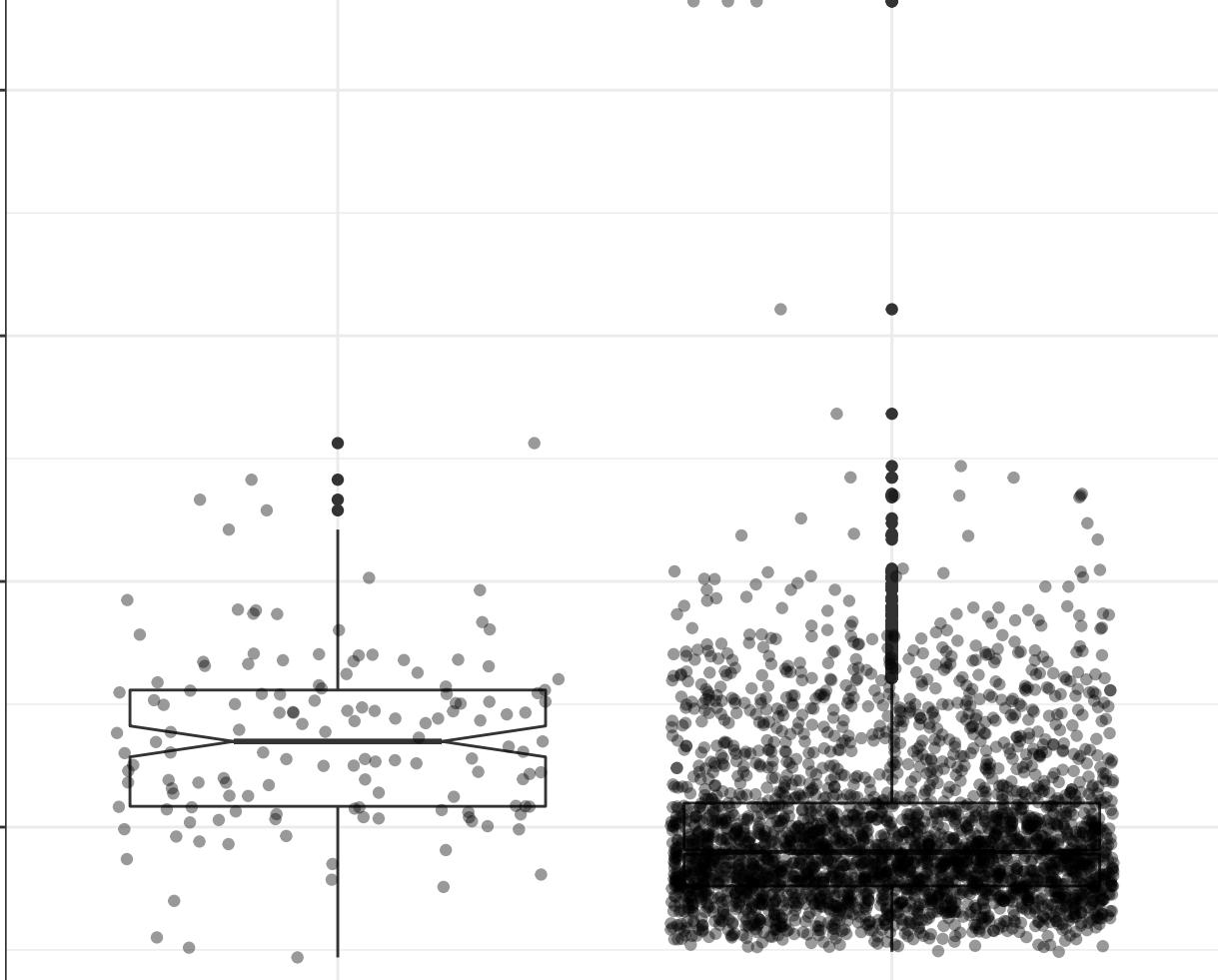
0.05

0.00

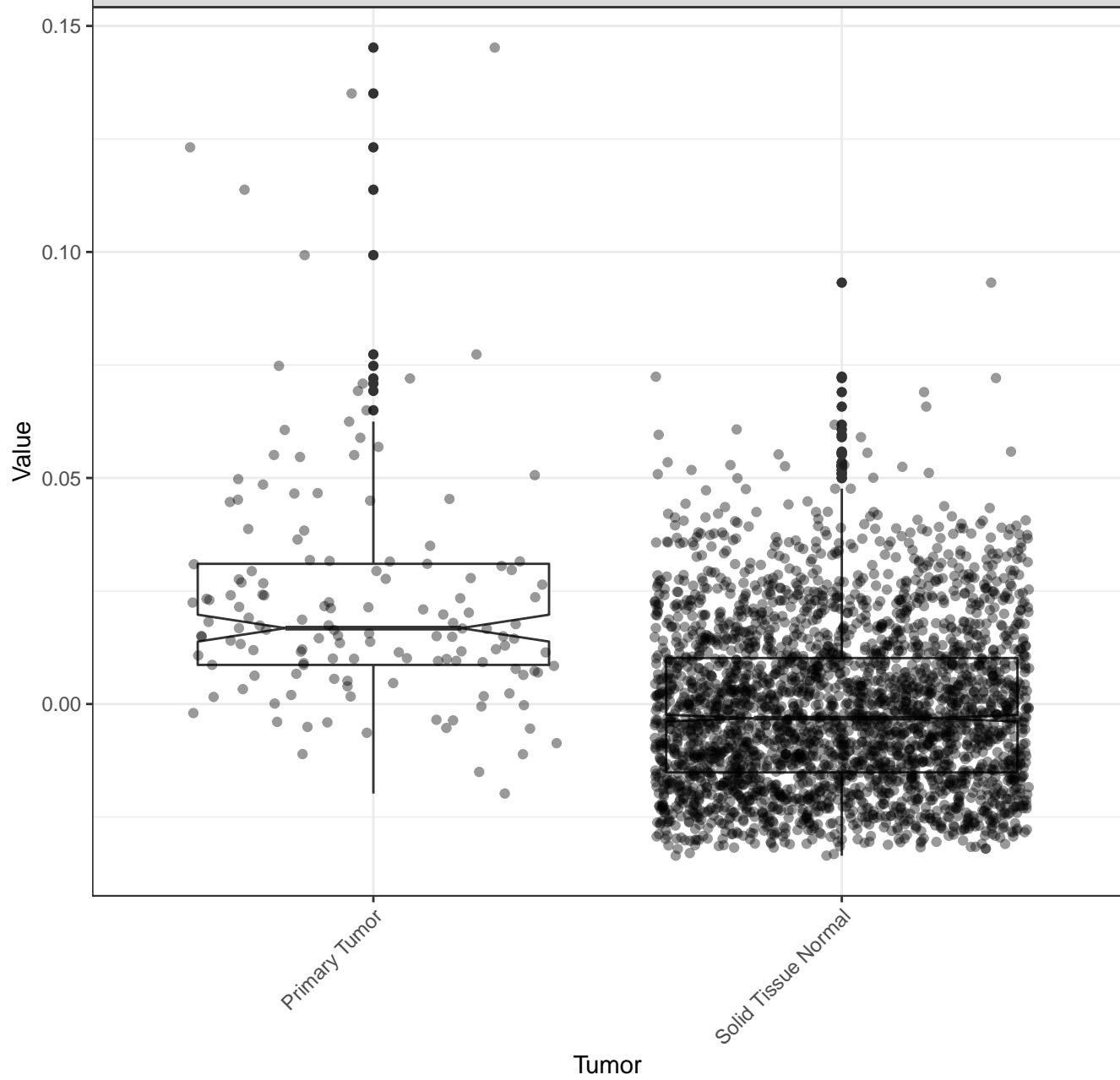
Primary Tumor

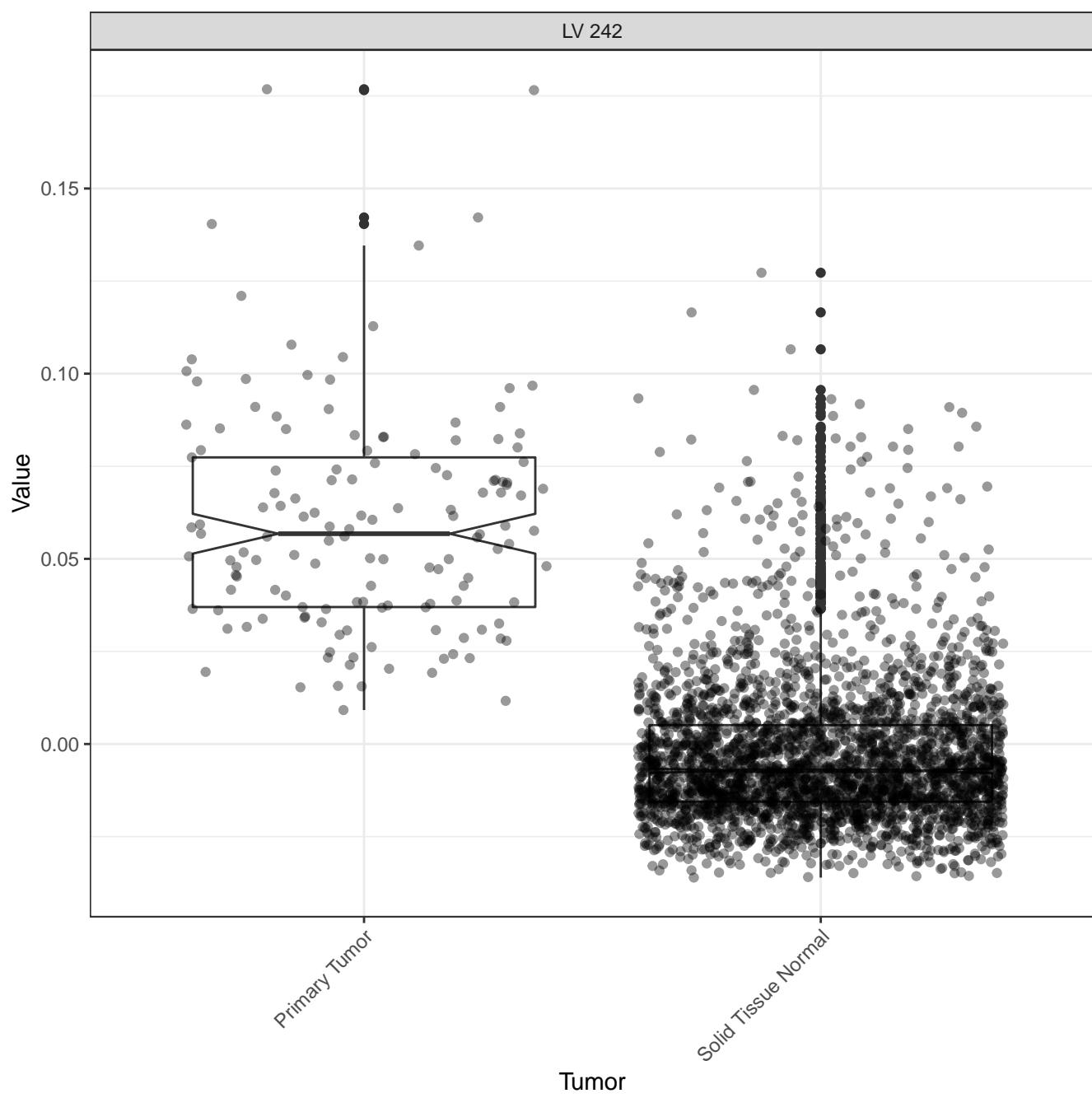
Solid Tissue Normal

Tumor



# 241,KEGG\_CHRONIC\_MYELOID\_LEUKEMIA





LV 243

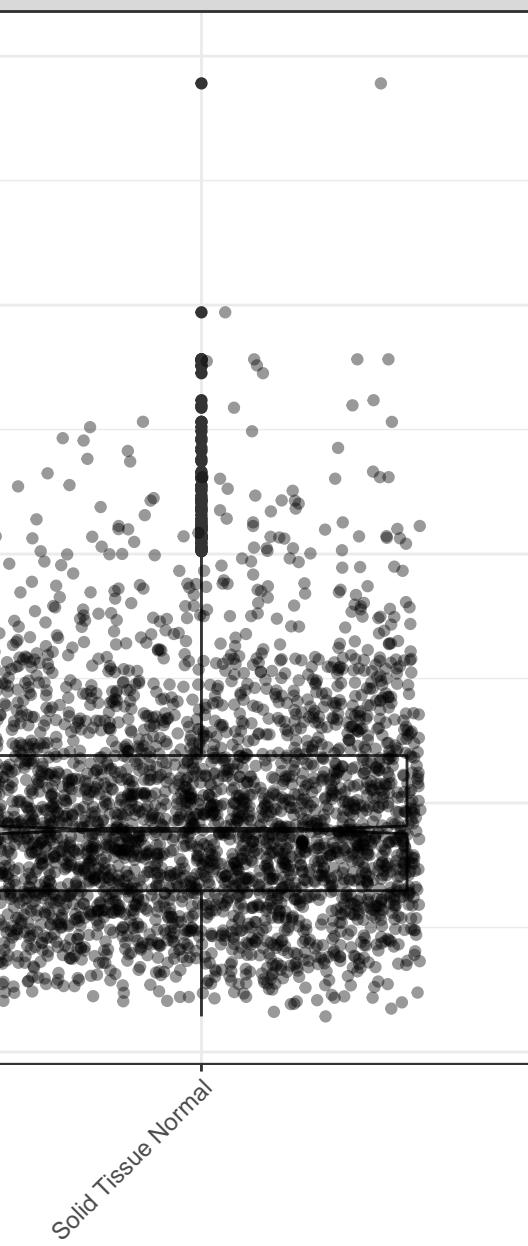
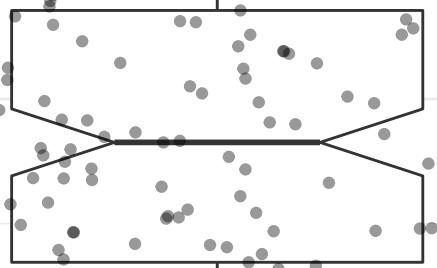
Value

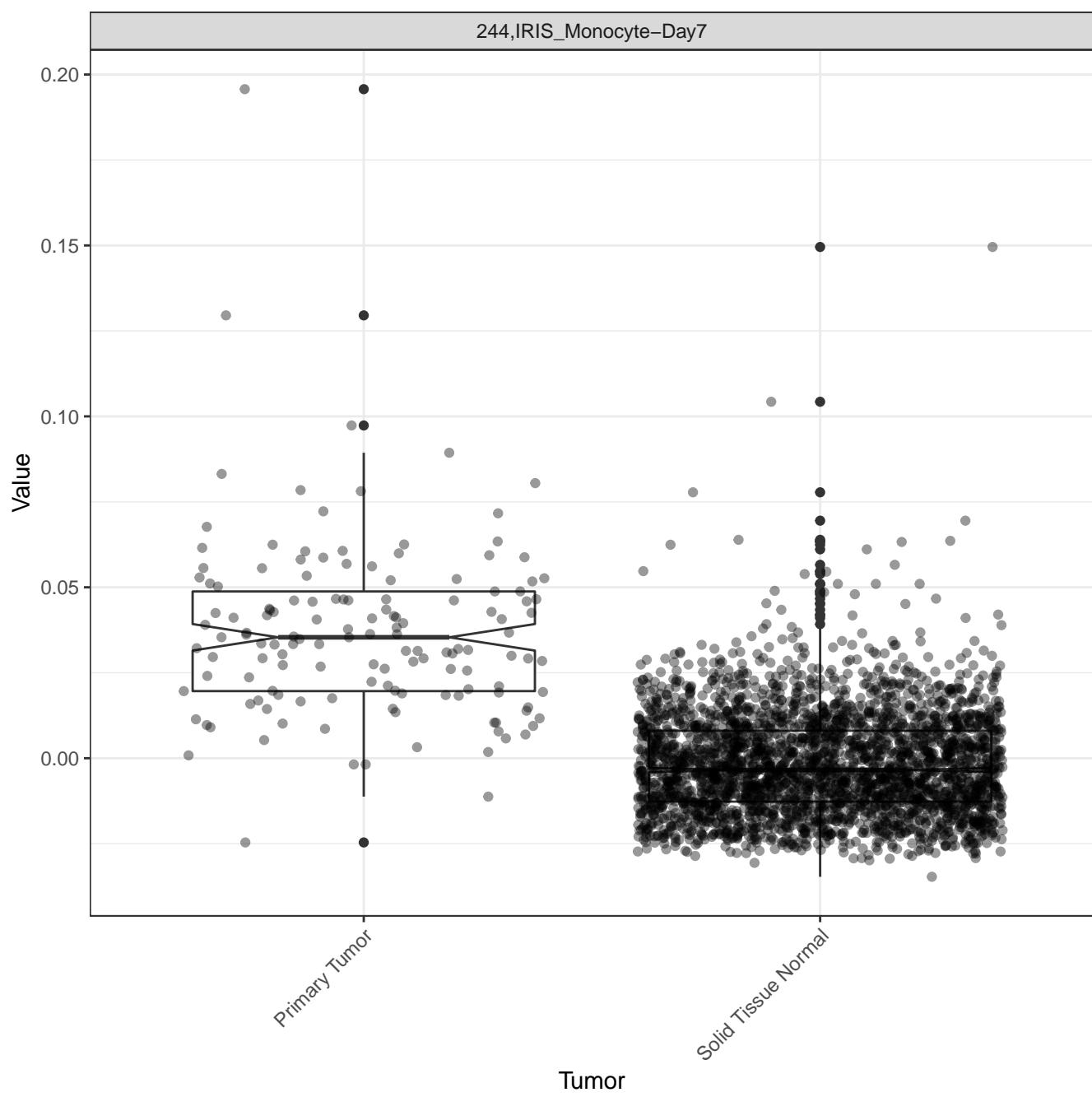
0.12  
0.08  
0.04  
0.00  
-0.04

Primary Tumor

Solid Tissue Normal

Tumor





LV 245

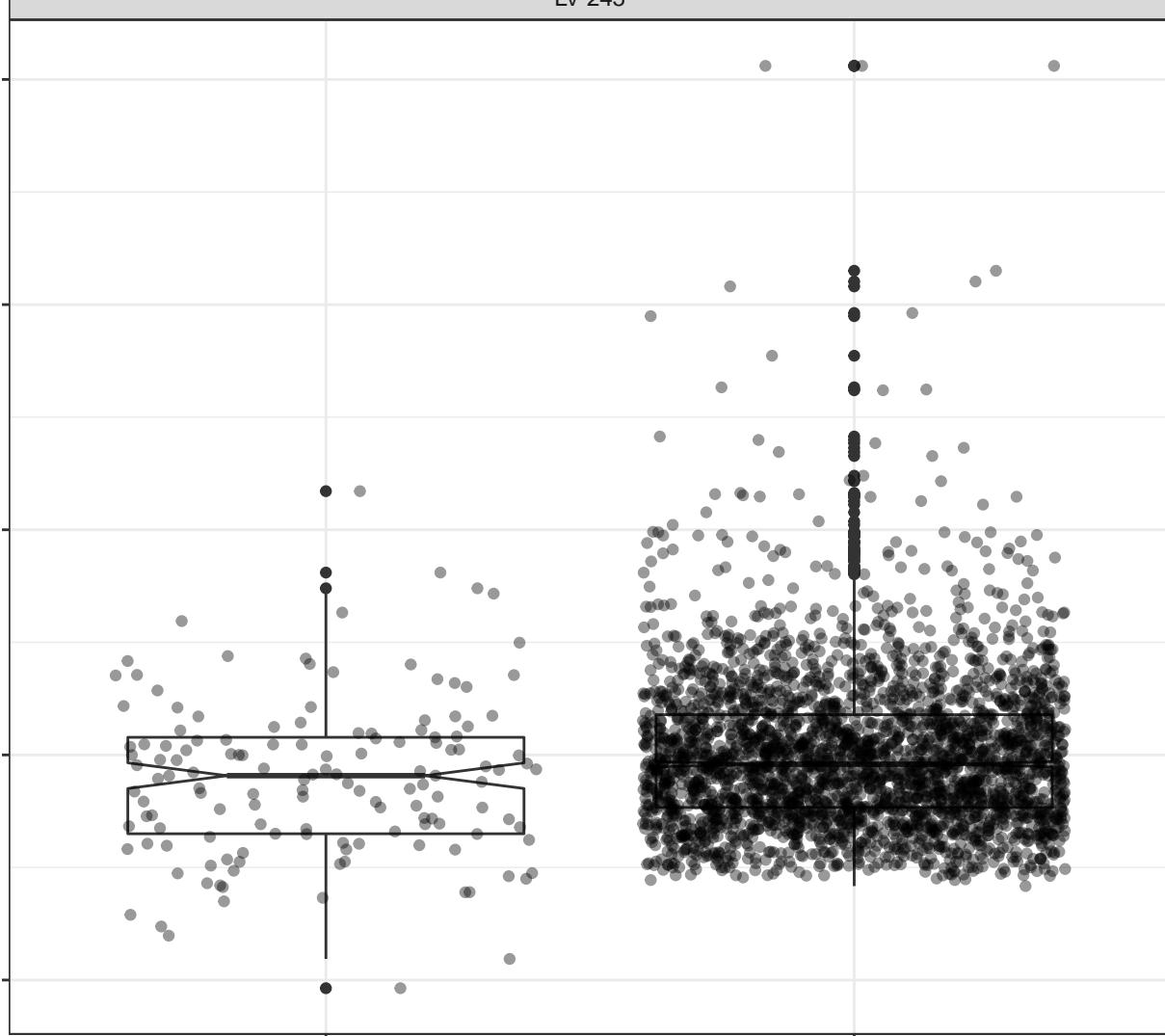
Value

0.15  
0.10  
0.05  
0.00  
-0.05

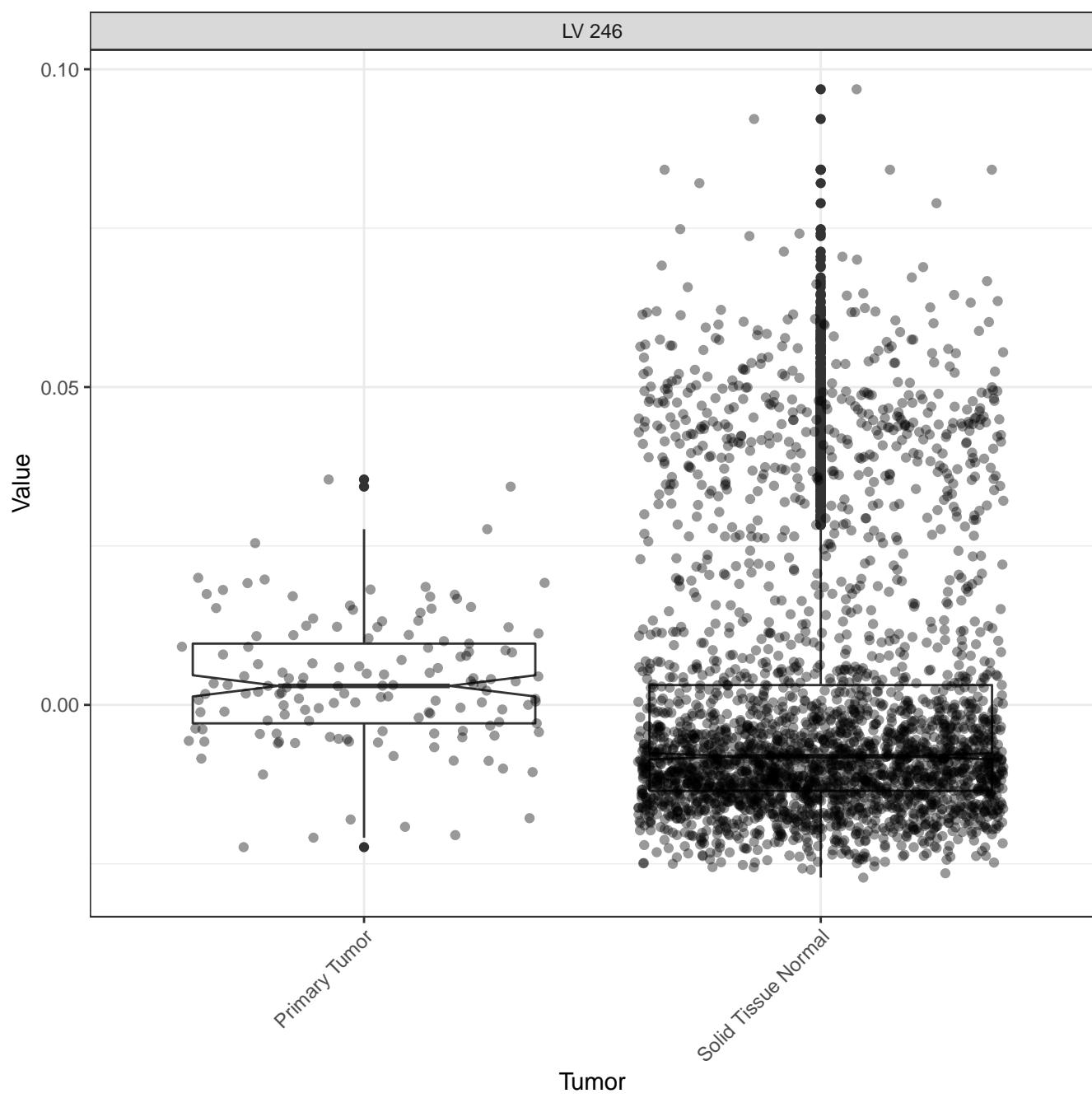
Primary Tumor

Solid Tissue Normal

Tumor



LV 246



LV 247

Value

0.15

0.10

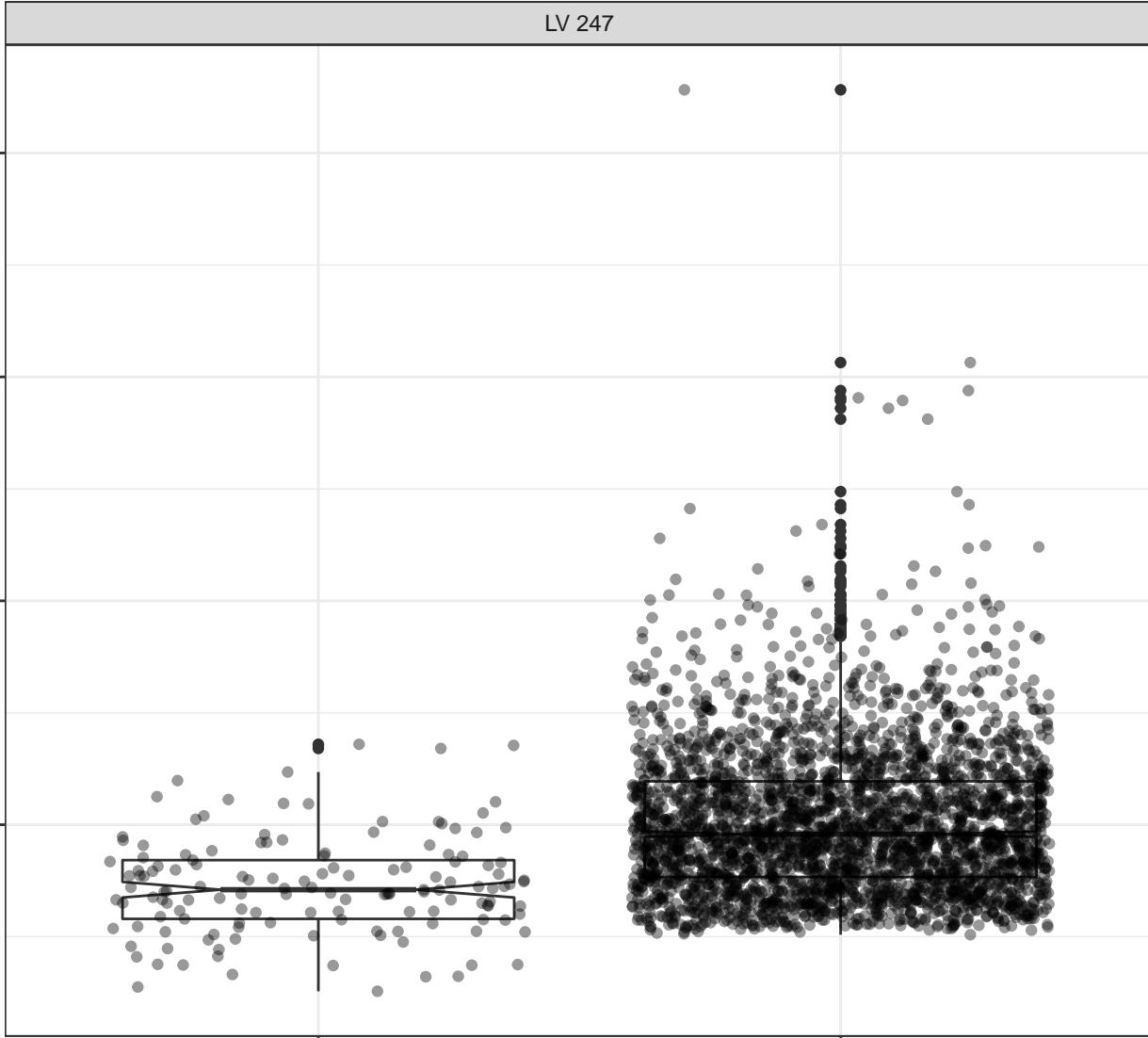
0.05

0.00

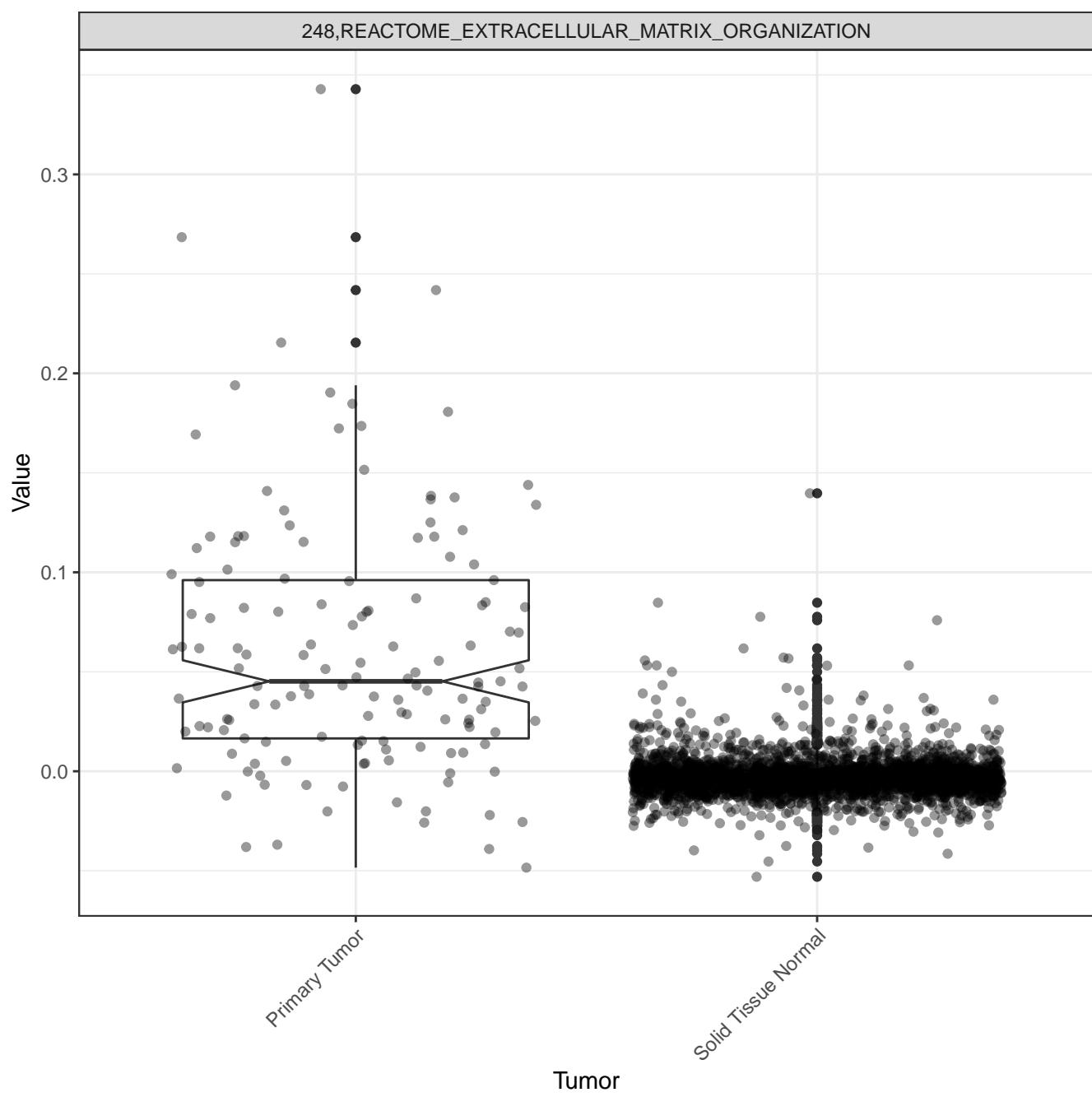
Primary Tumor

Solid Tissue Normal

Tumor



## 248,REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION



LV 249

Value

0.15

0.10

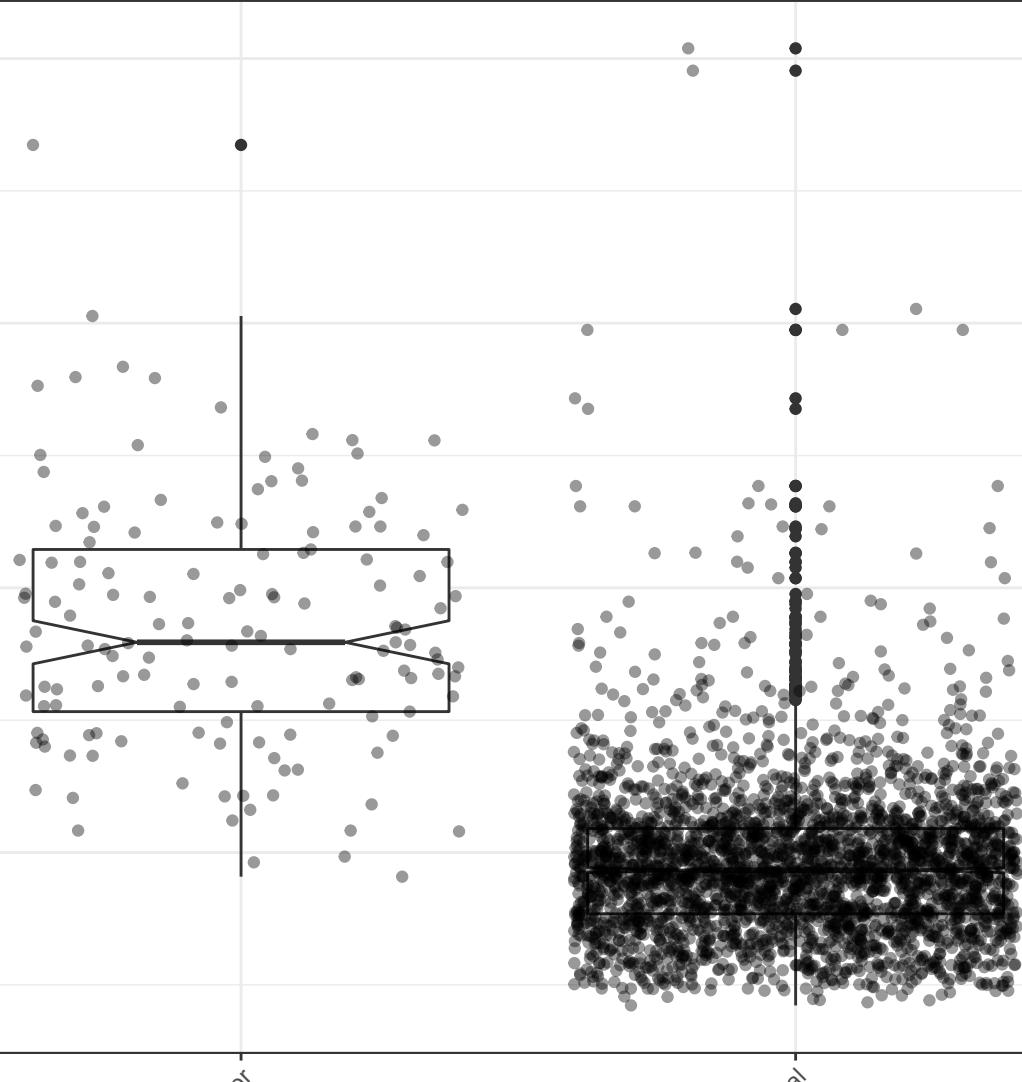
0.05

0.00

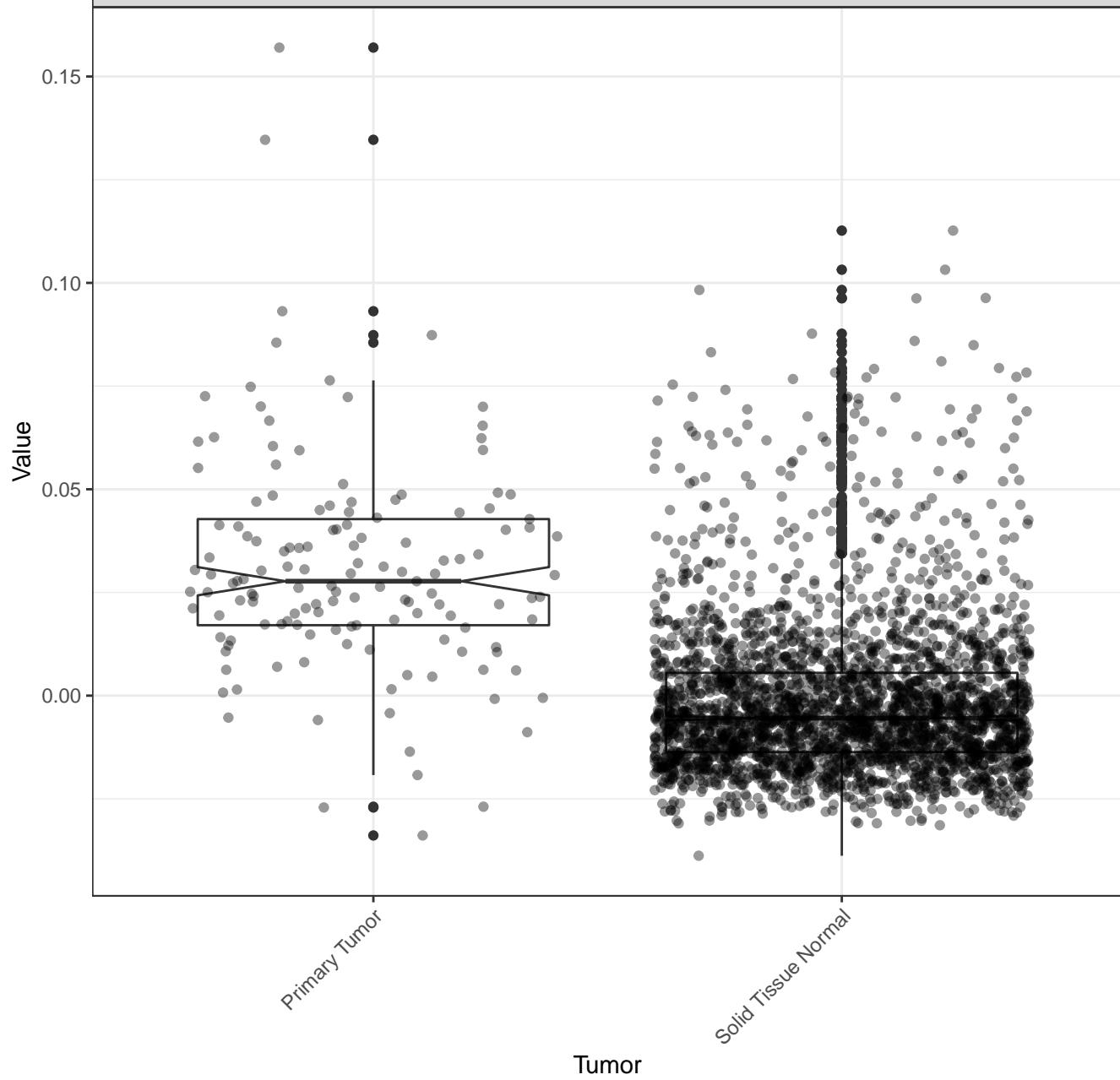
Primary Tumor

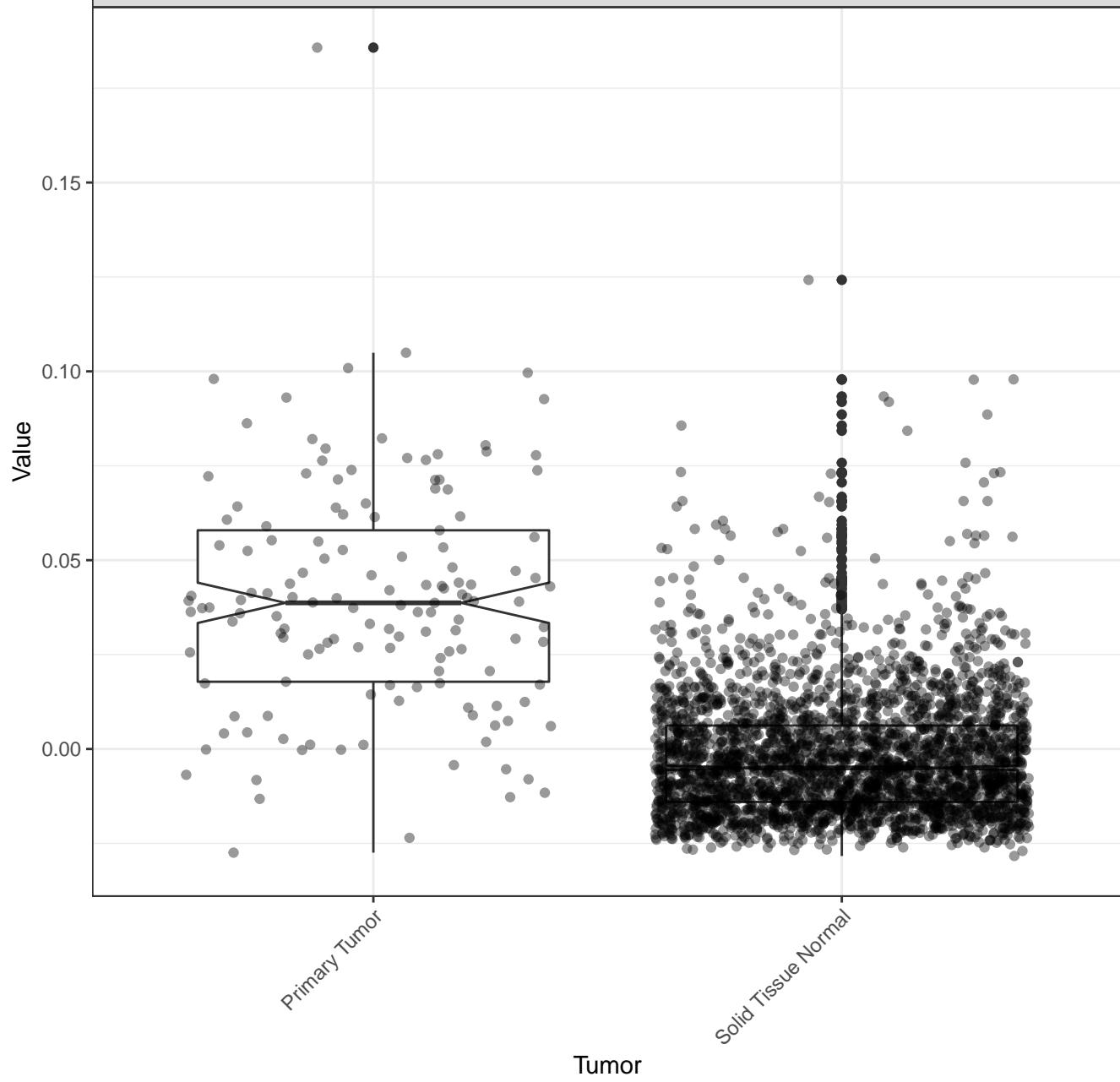
Solid Tissue Normal

Tumor



## 250,DMAP\_HSC1





Value

0.08

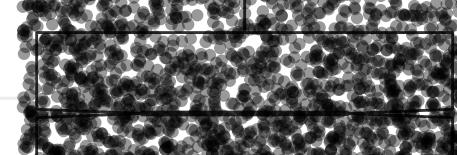
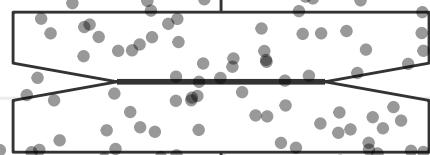
0.04

0.00

Primary Tumor

Solid Tissue Normal

Tumor



253,KEGG\_HEMATOPOIETIC\_CELL\_LINEAGE

Value

0.2

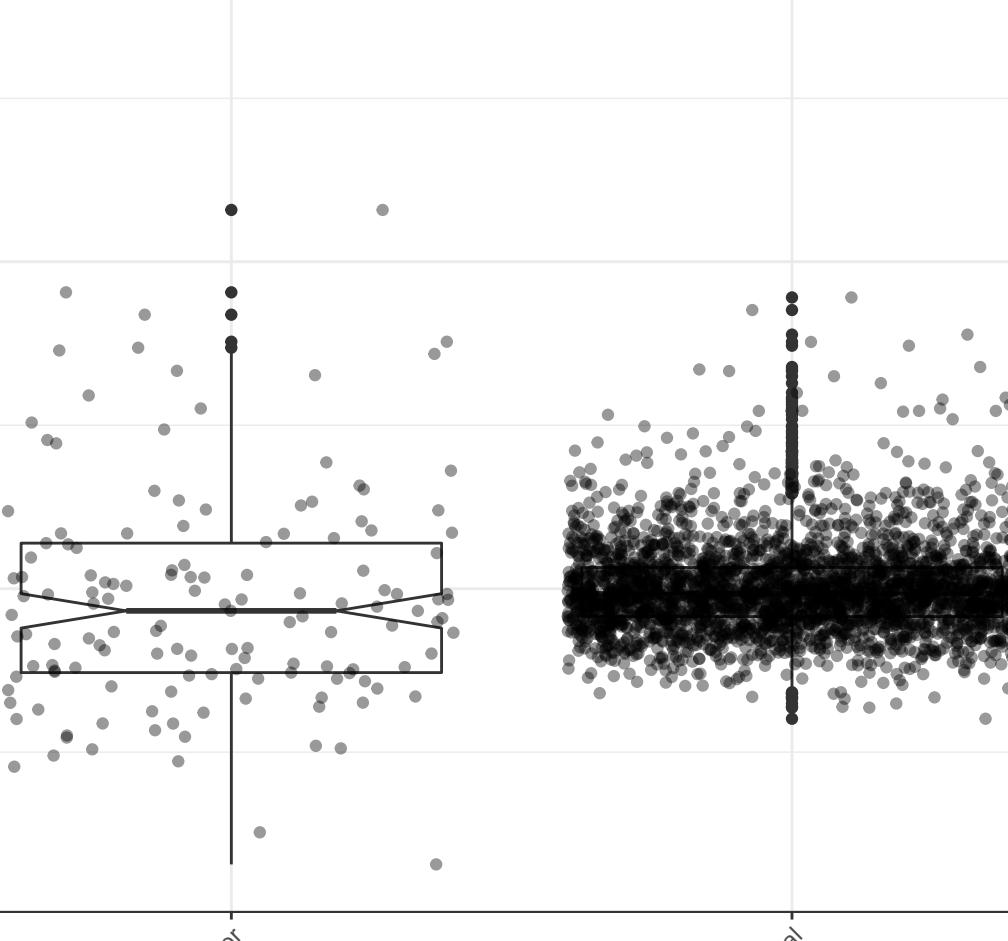
0.1

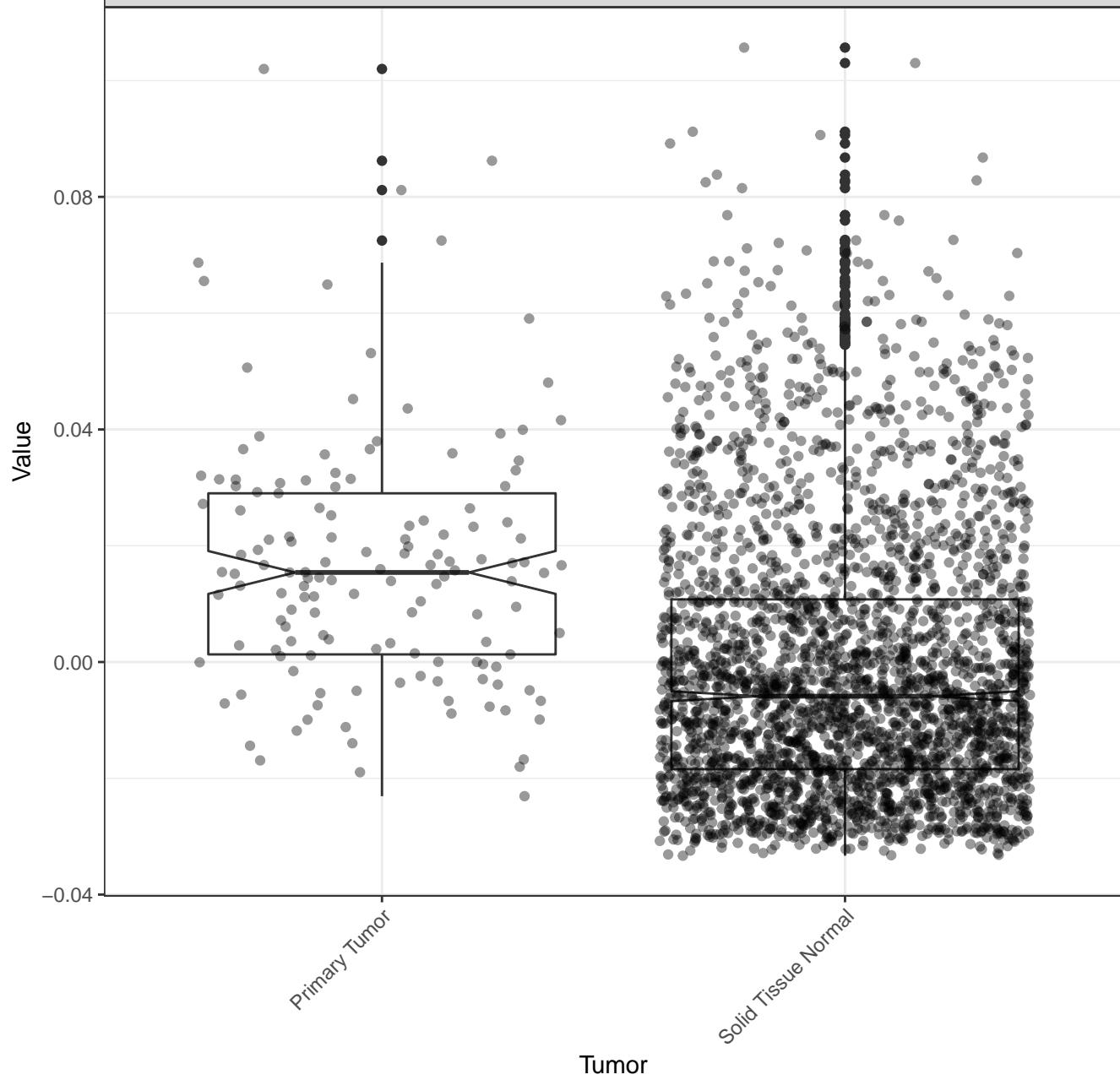
0.0

Primary Tumor

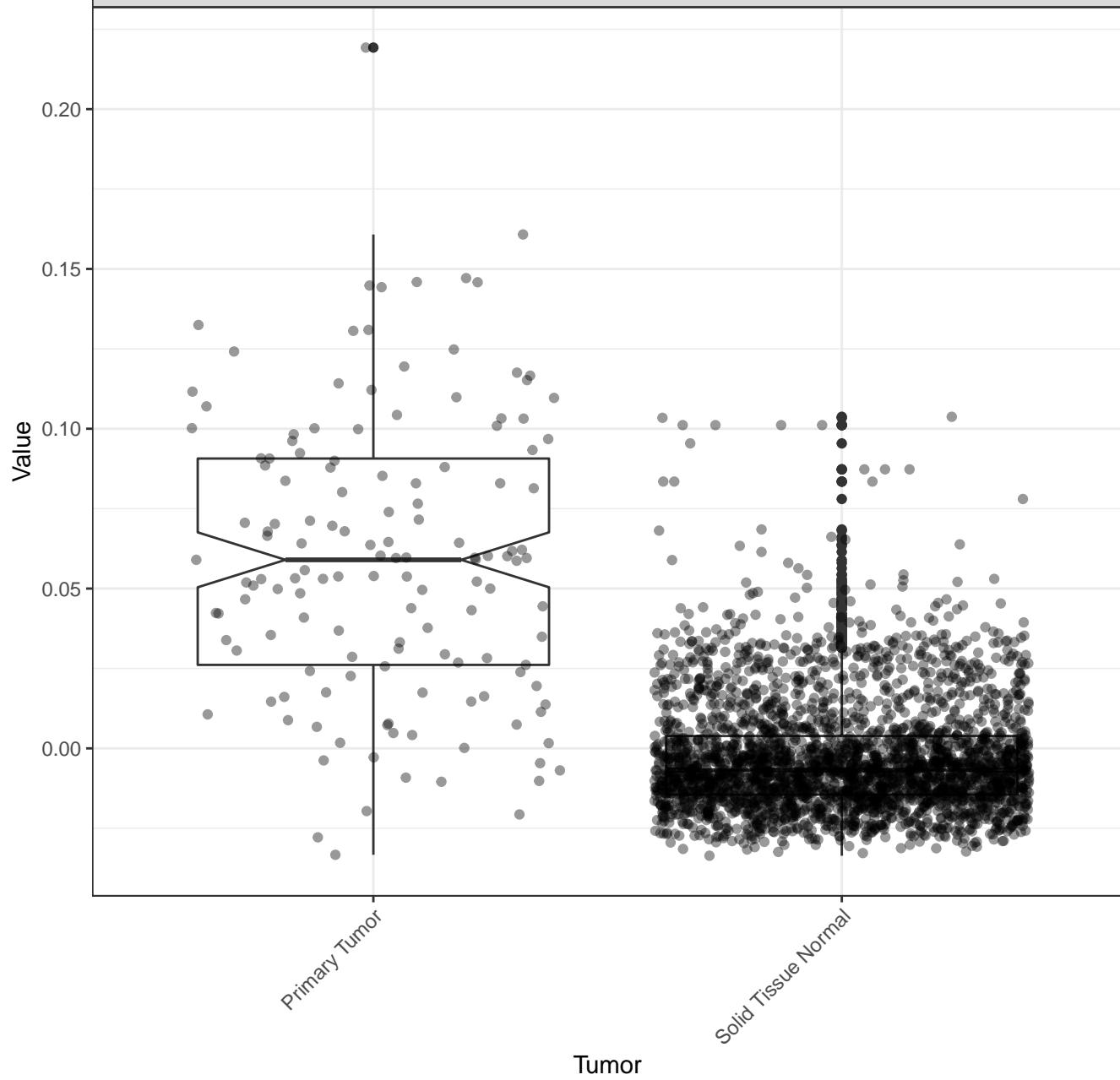
Solid Tissue Normal

Tumor

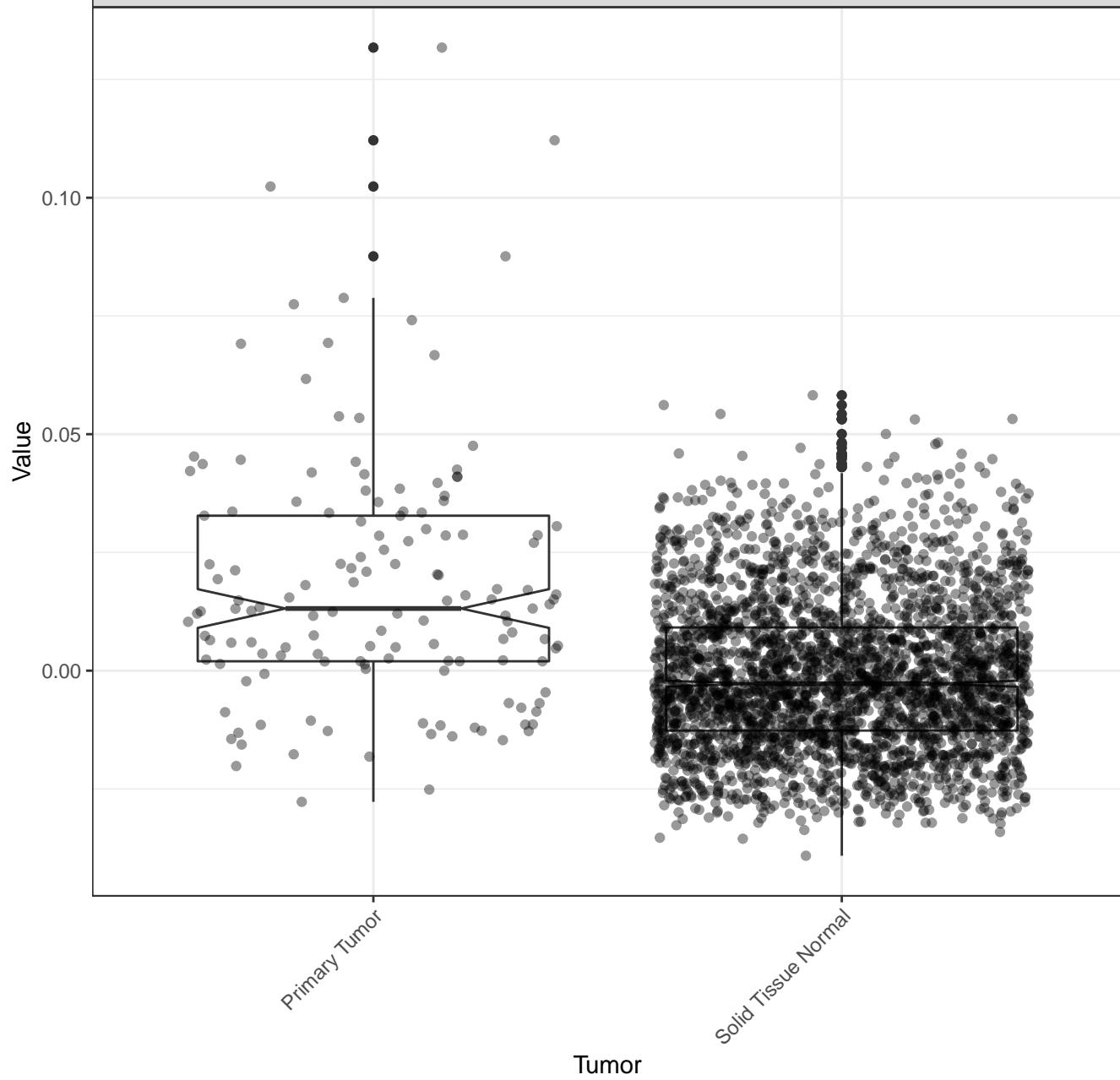


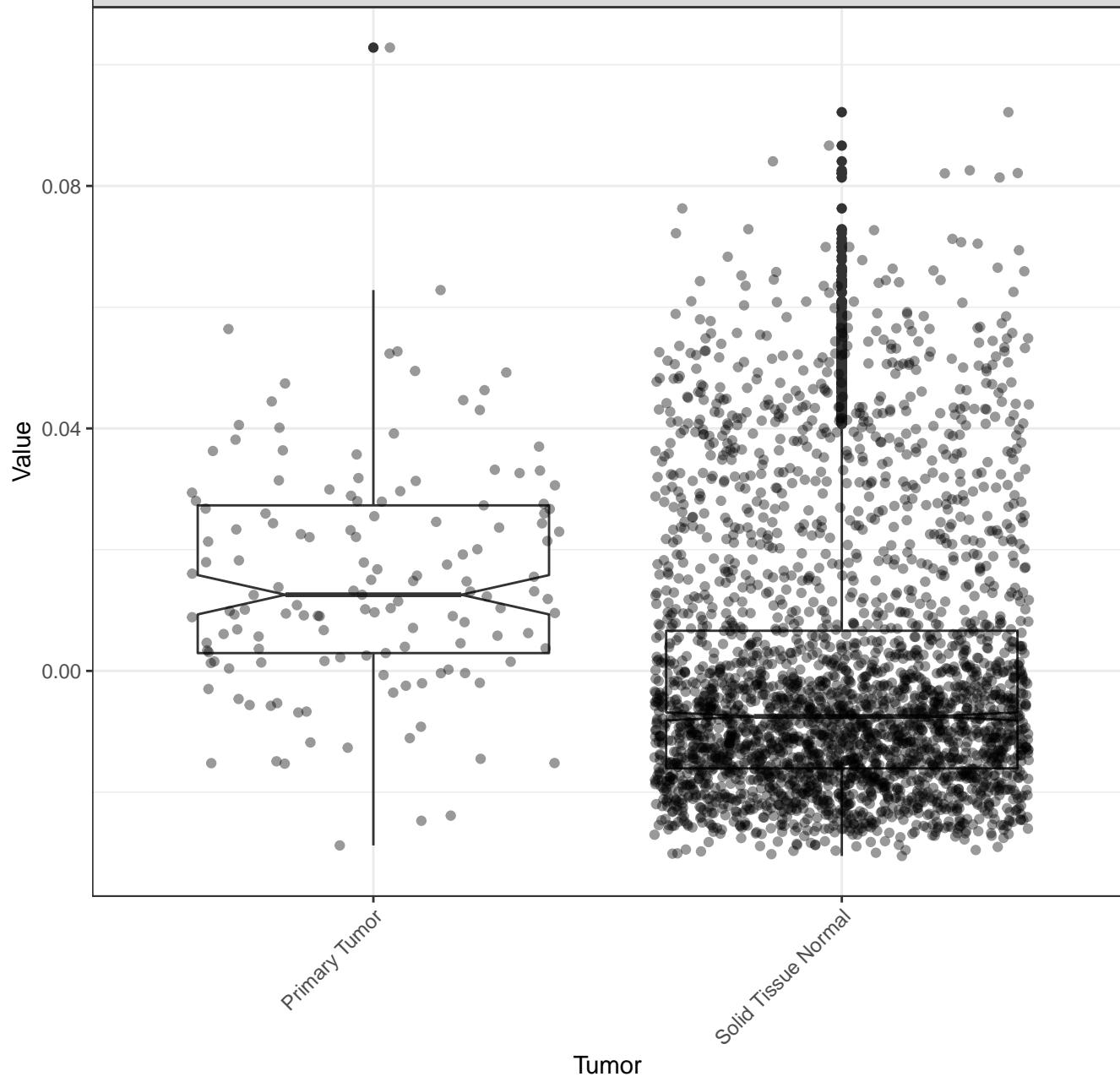


# 255,KEGG\_BASAL\_CELL\_CARCINOMA



# 256,KEGG\_ARGININE\_AND\_PROLINE\_METABOLISM





LV 258

Value

0.20

0.15

0.05

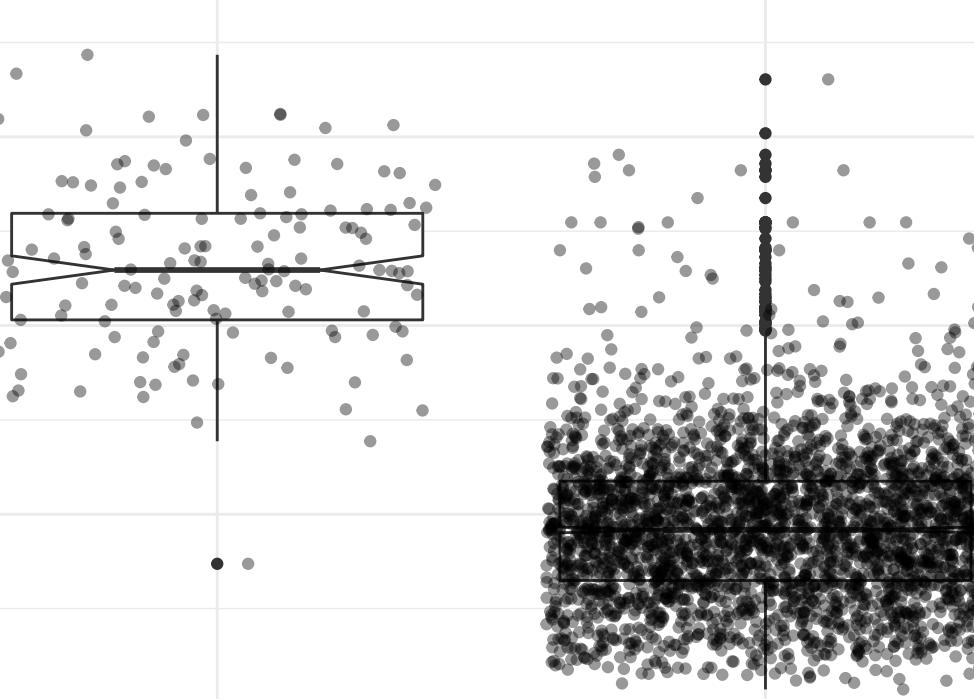
0.00

-0.05

Primary Tumor

Solid Tissue Normal

Tumor



LV 259

Value

0.10

0.05

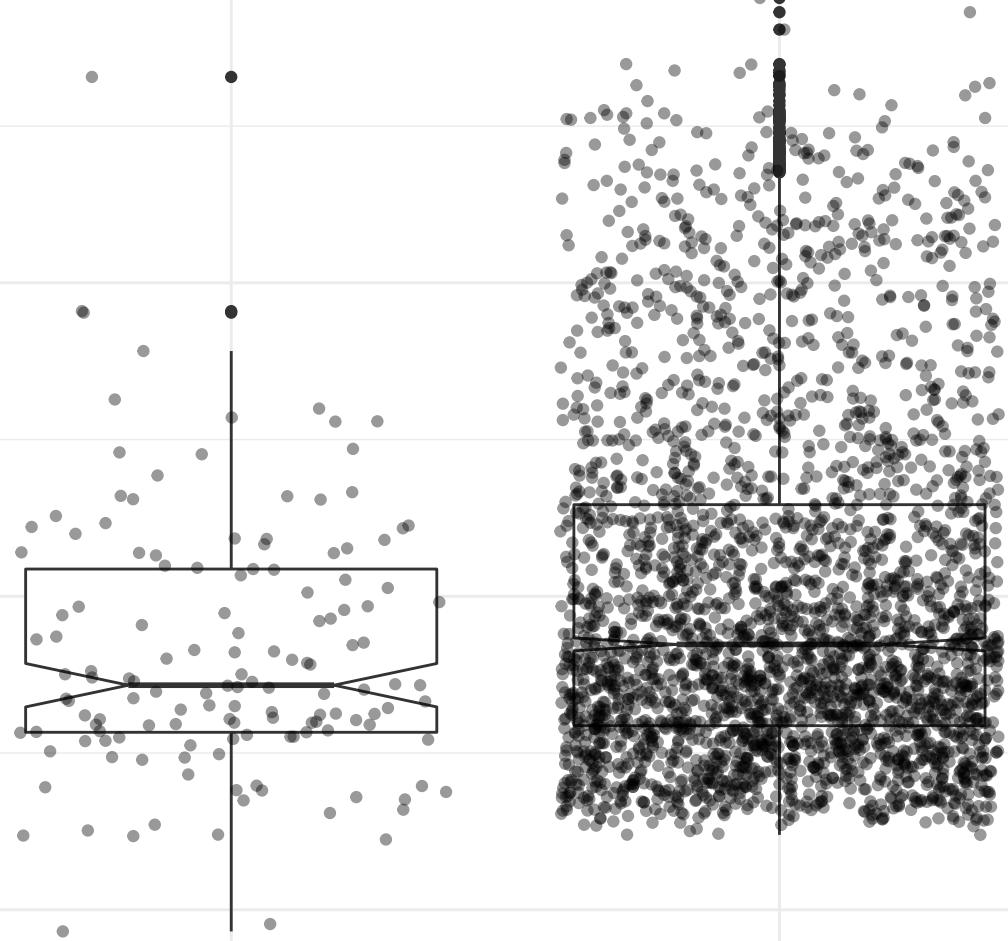
0.00

-0.05

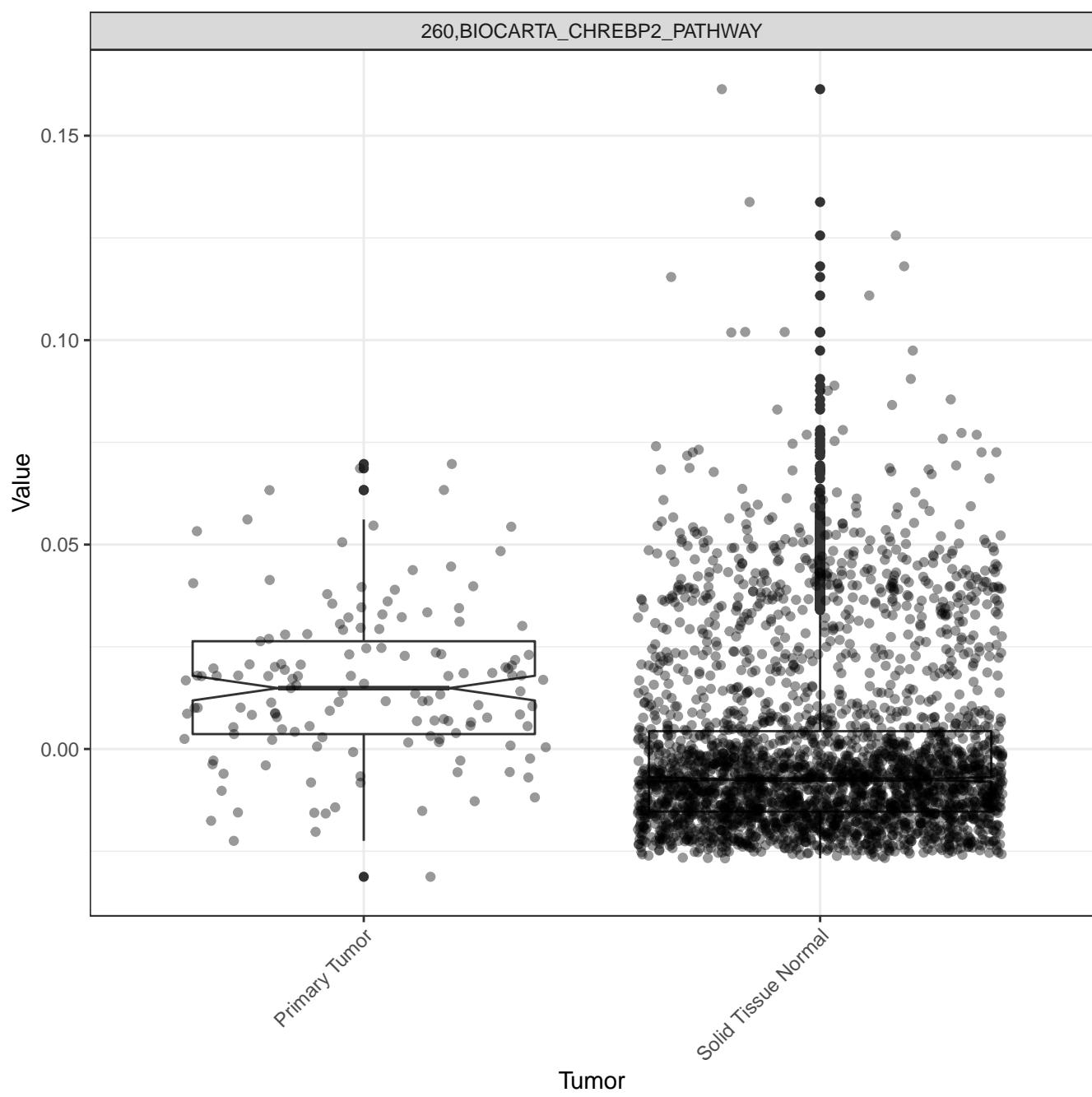
Primary Tumor

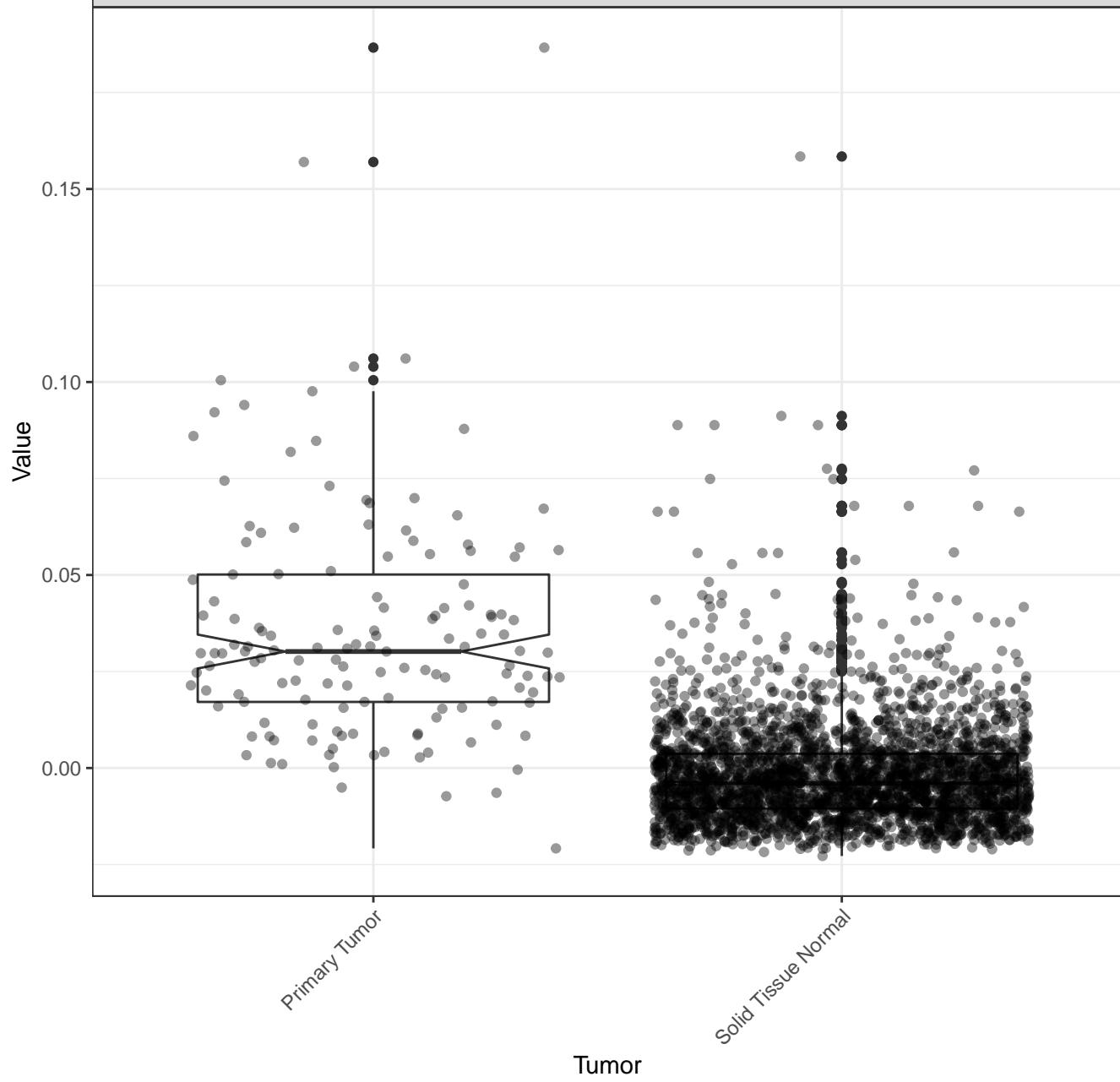
Solid Tissue Normal

Tumor

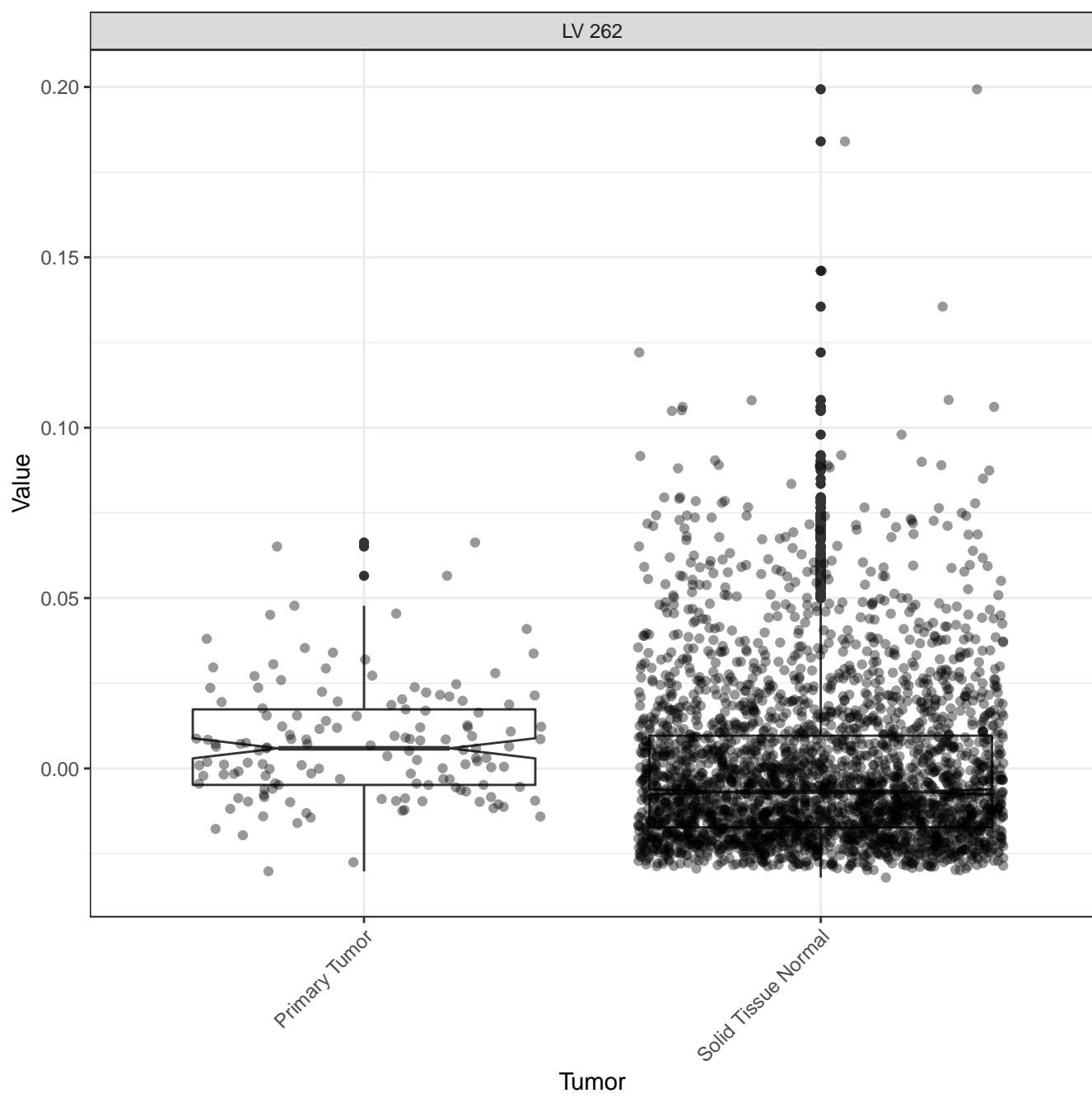


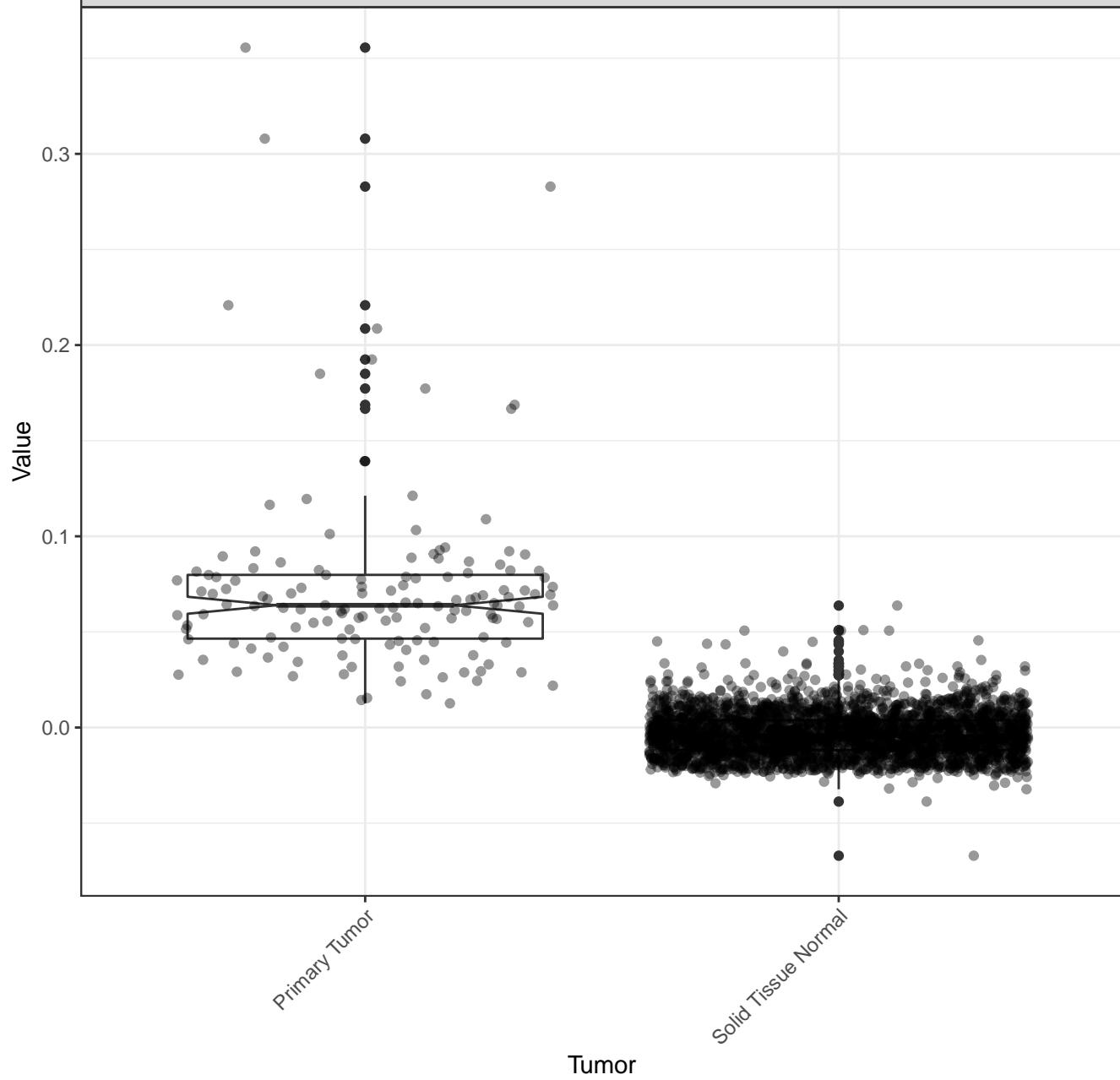
## 260, BIOCARTA\_CHREBP2\_PATHWAY





LV 262





# 264,REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES

Value

0.15  
0.10  
0.05  
0.00

Primary Tumor

Solid Tissue Normal

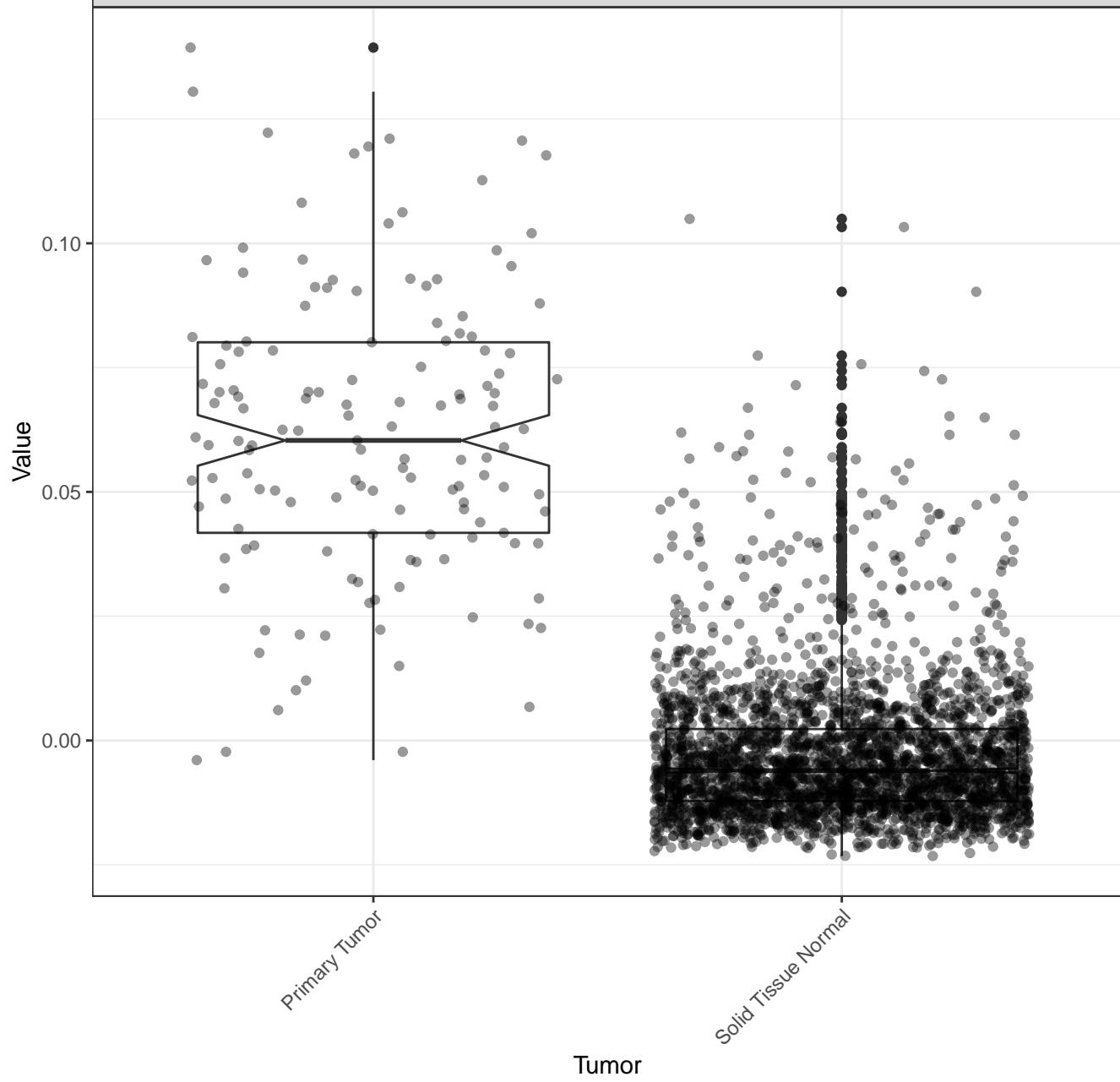
Tumor

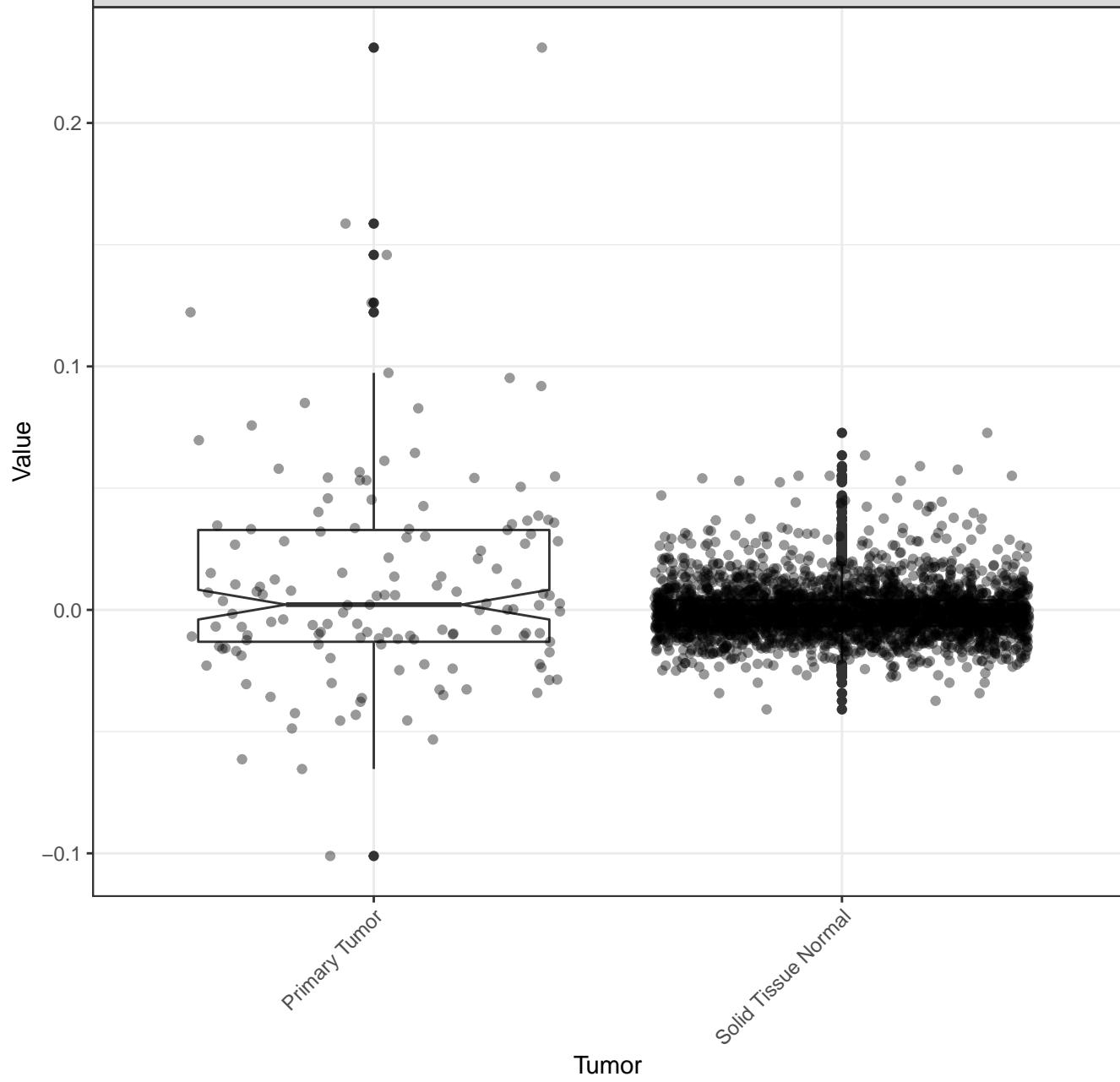
# 264,REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES

Primary Tumor

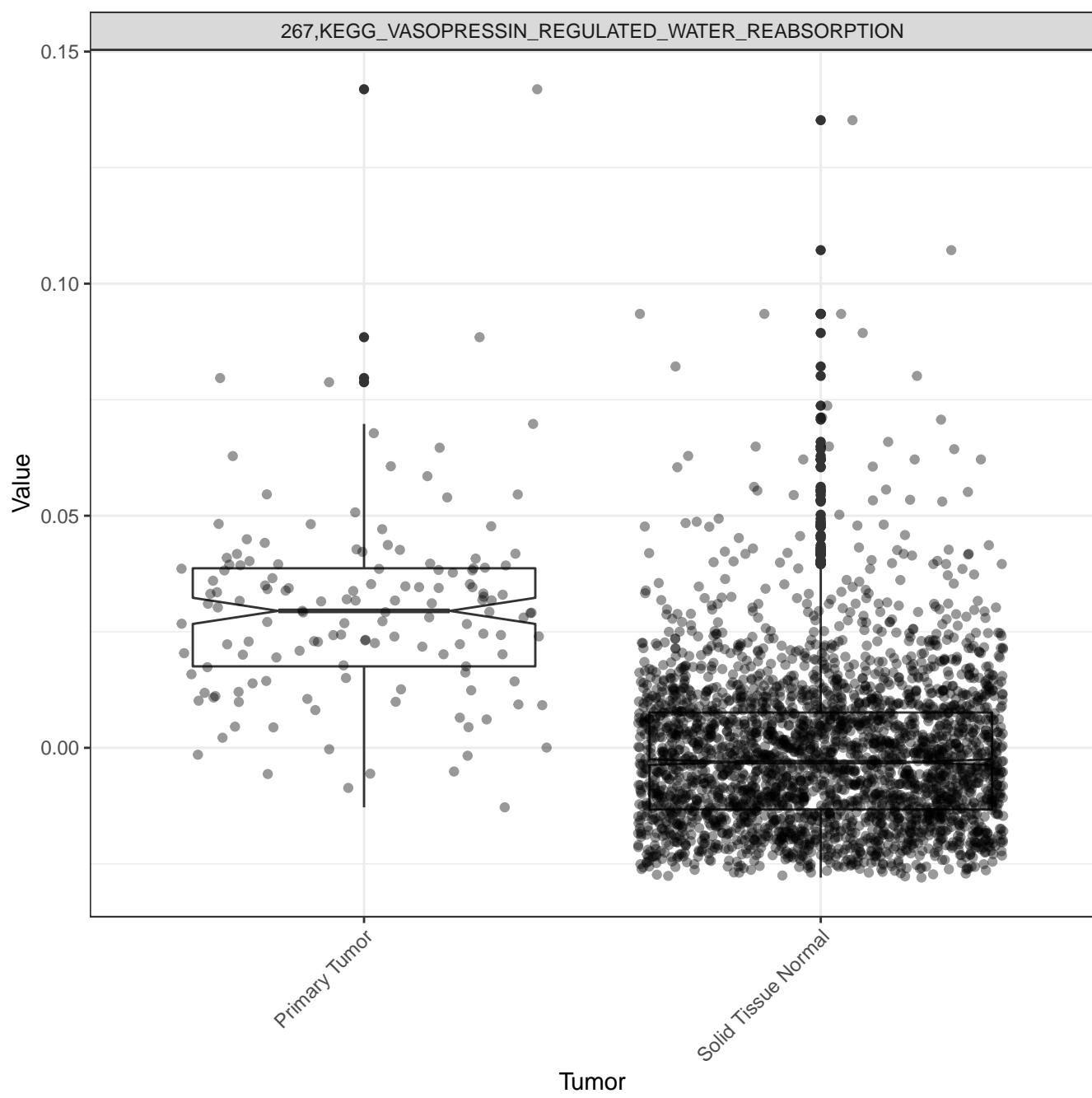
Solid Tissue Normal

Tumor

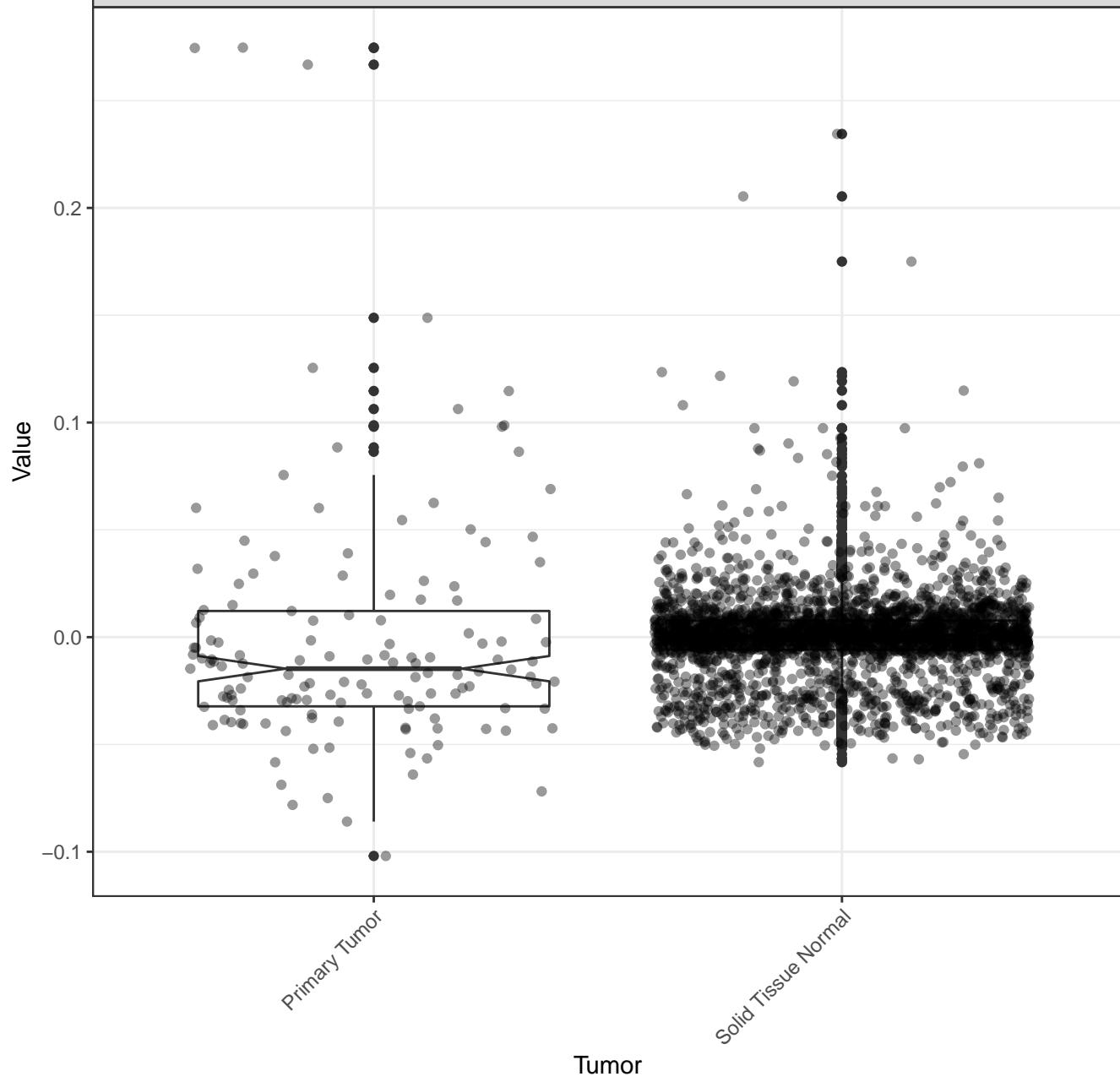




# 267,KEGG\_VASOPRESSIN\_REGULATED\_WATER\_REABSORPTION



# 268,SVM Mast cells activated



269,REACTOME\_ANTIVIRAL\_MECHANISM\_BY\_IFN\_STIMULATED\_GENES

Value

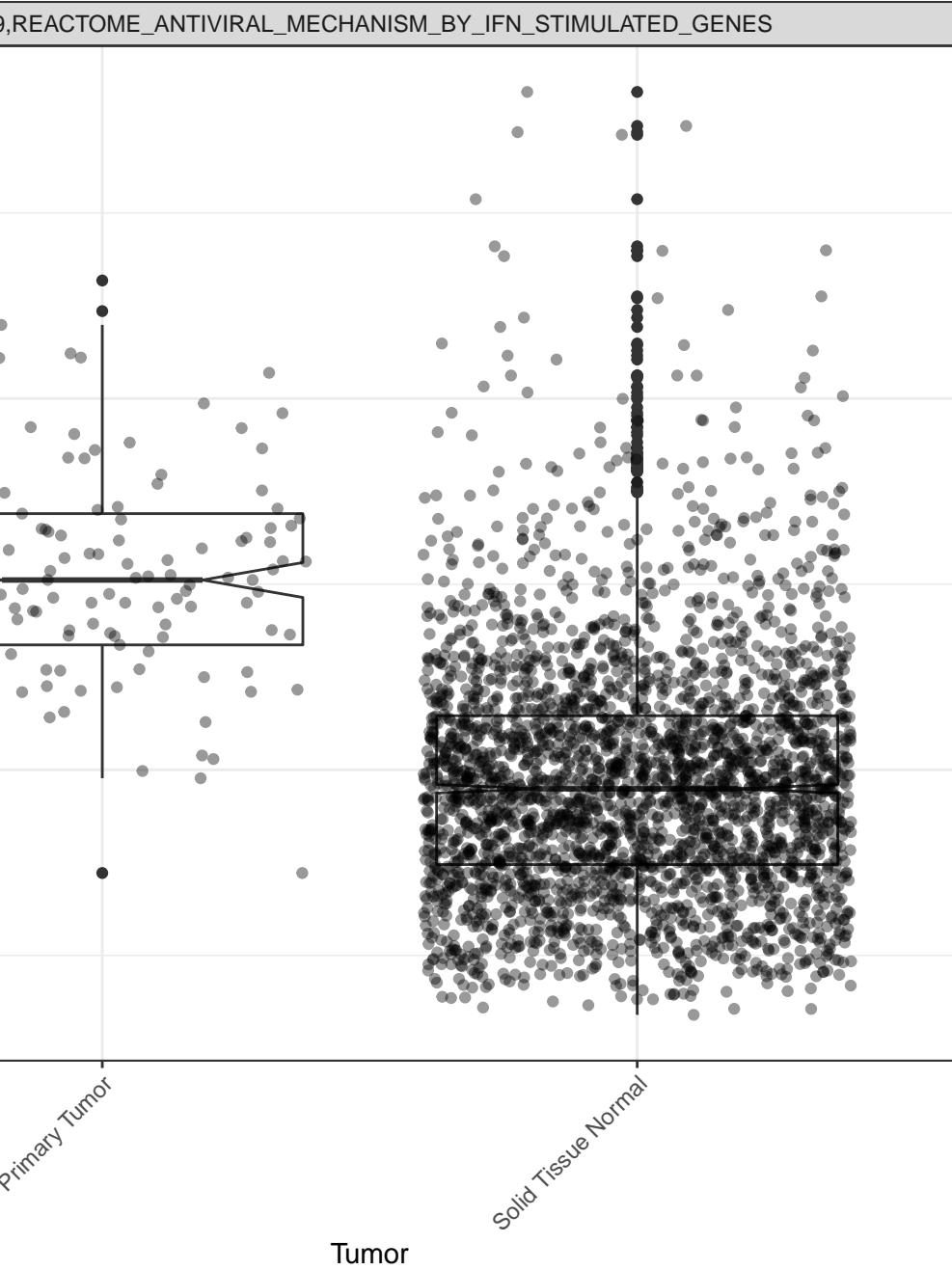
0.05

0.00

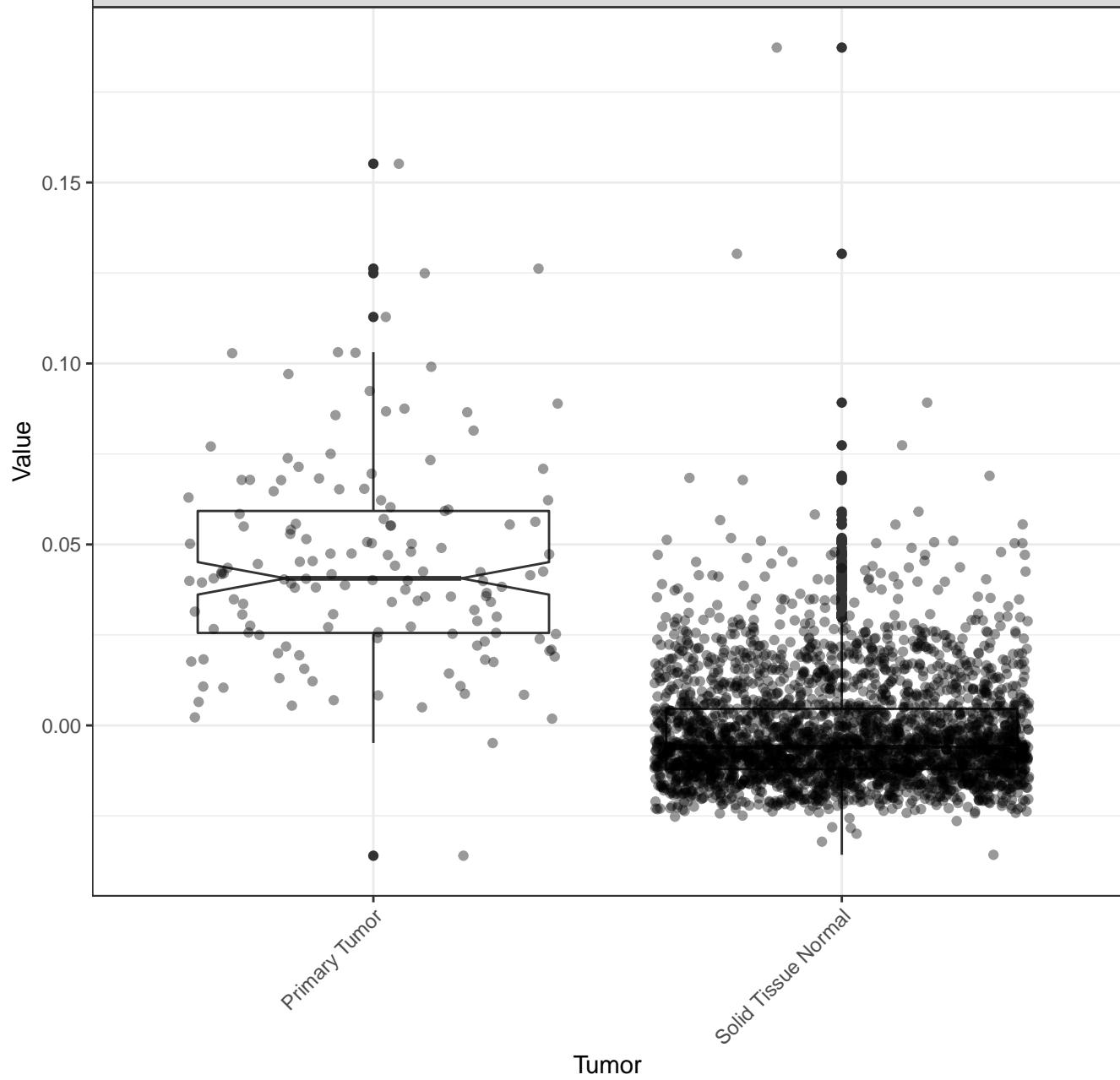
Primary Tumor

Tumor

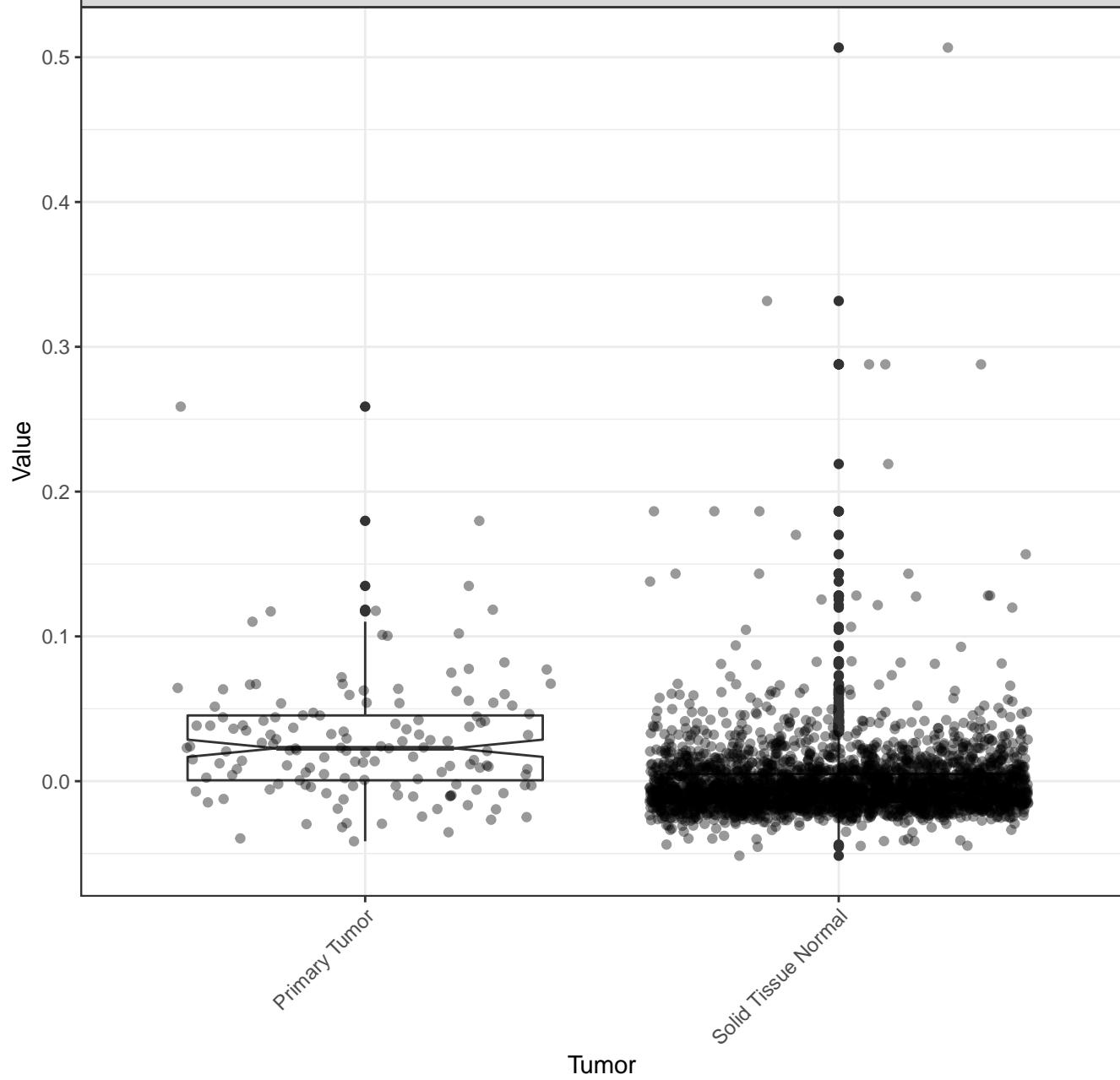
Solid Tissue Normal



## 270,KEGG\_CELL\_CYCLE



# 271,REACTOME\_INTERFERON\_ALPHA\_BETA\_SIGNALING



## 272,KEGG\_LYSOSOME

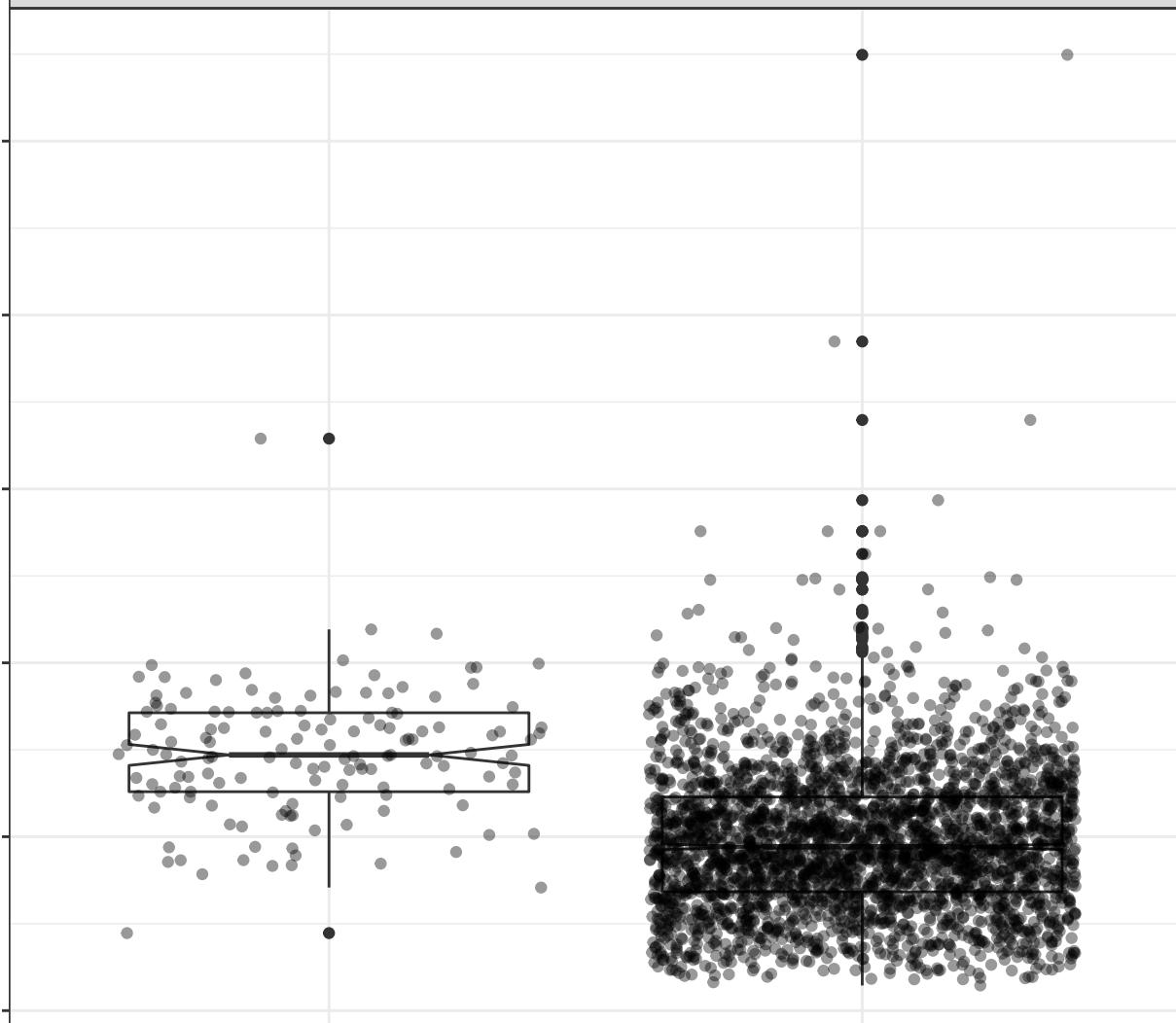
Value

0.20  
0.15  
0.10  
0.05  
0.00  
-0.05

Primary Tumor

Tumor

Solid Tissue Normal



## 273,PID\_RHOA\_PATHWAY

Value

0.20

0.15

0.10

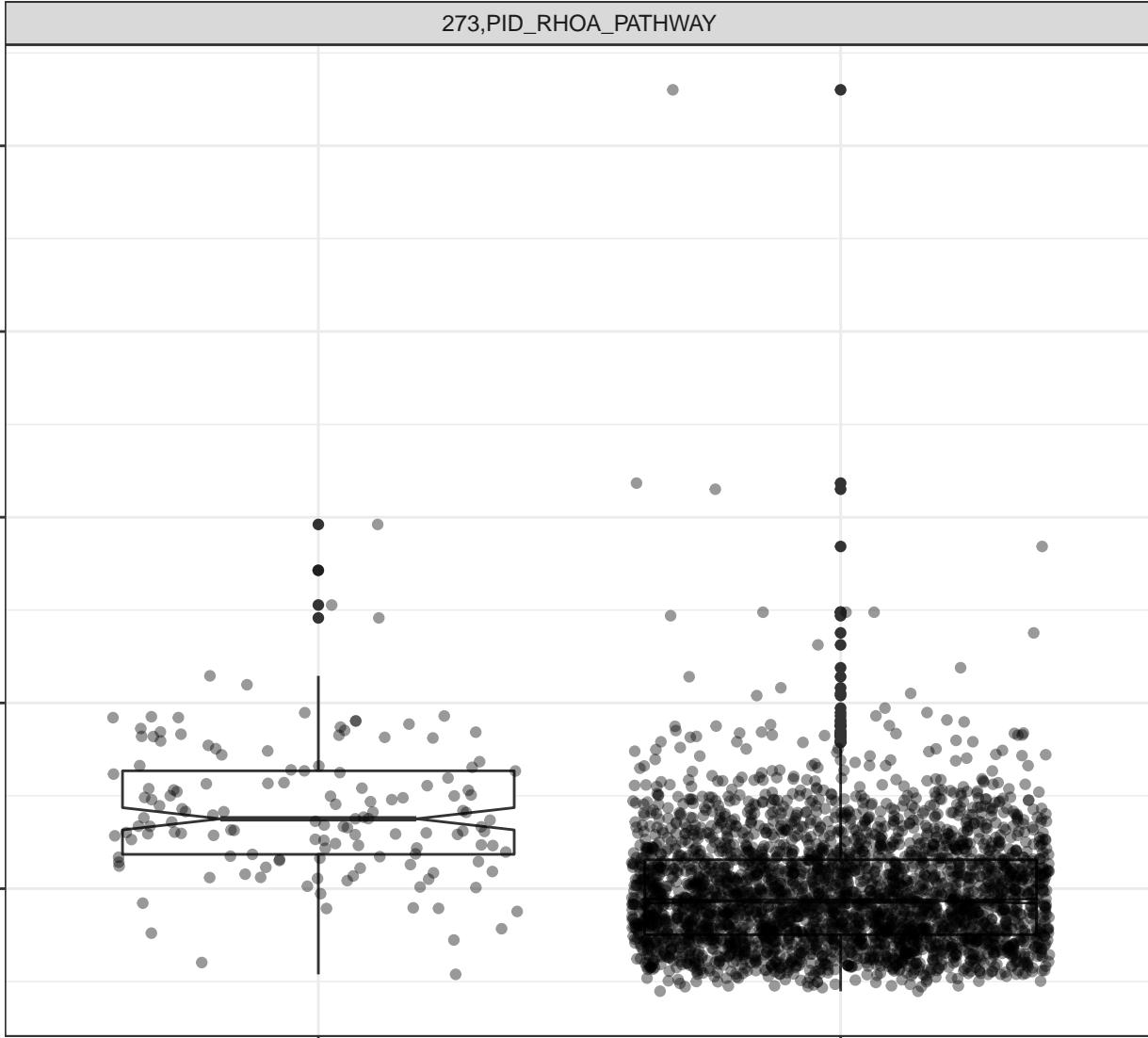
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



LV 274

Value

0.20

0.15

0.10

0.05

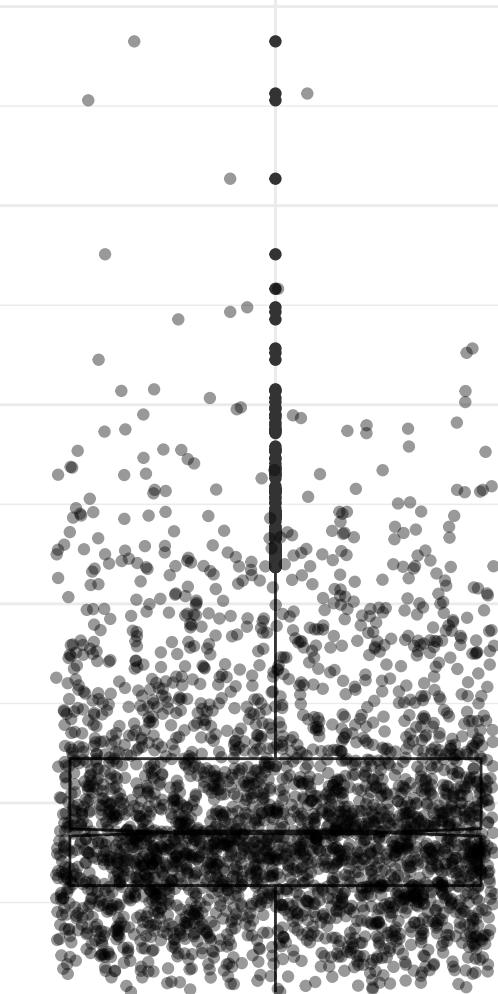
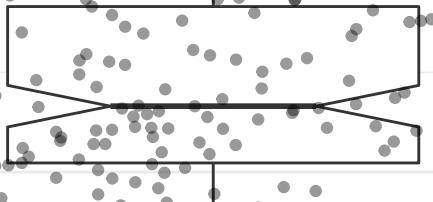
0.00

-0.05

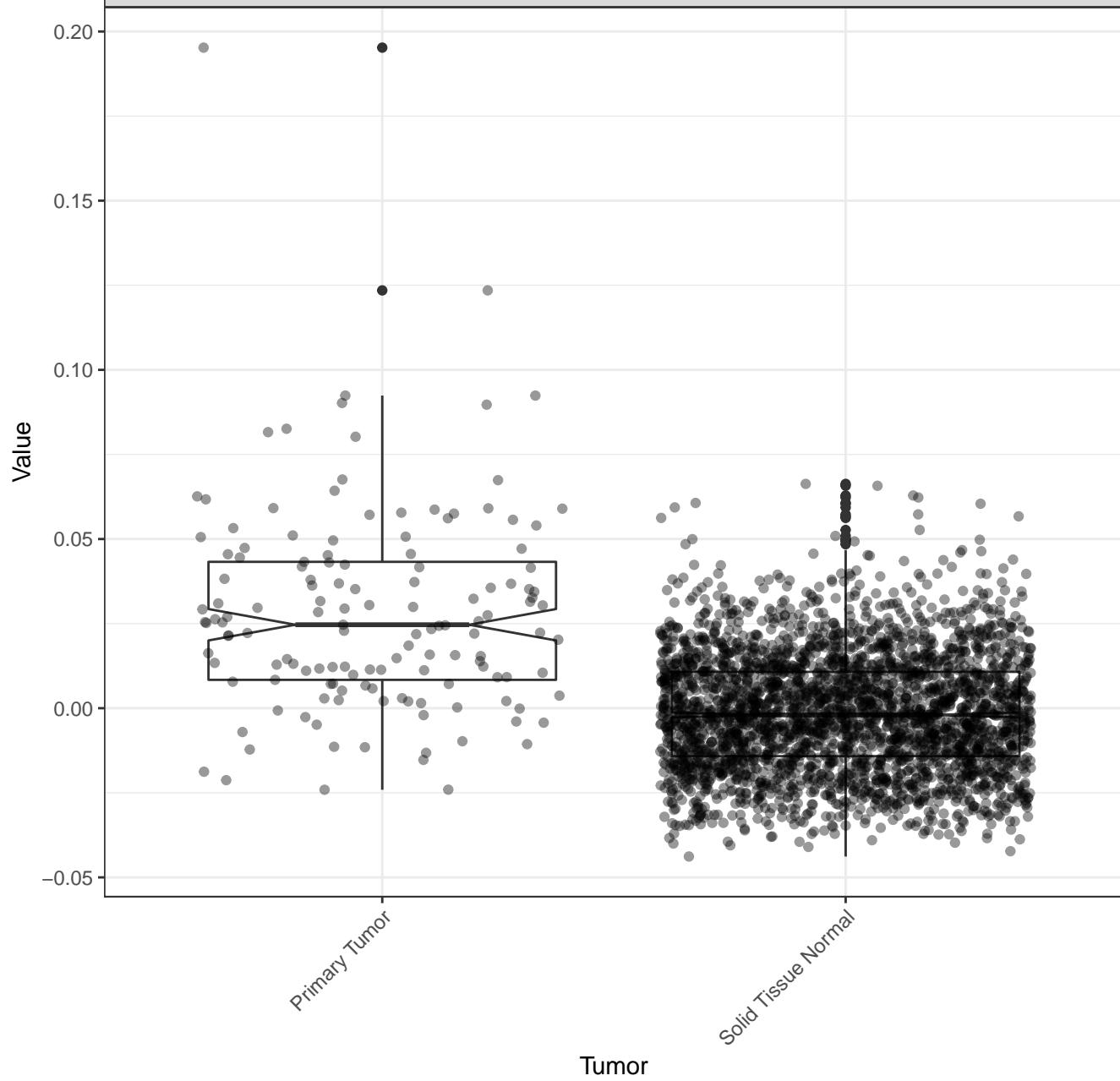
Primary Tumor

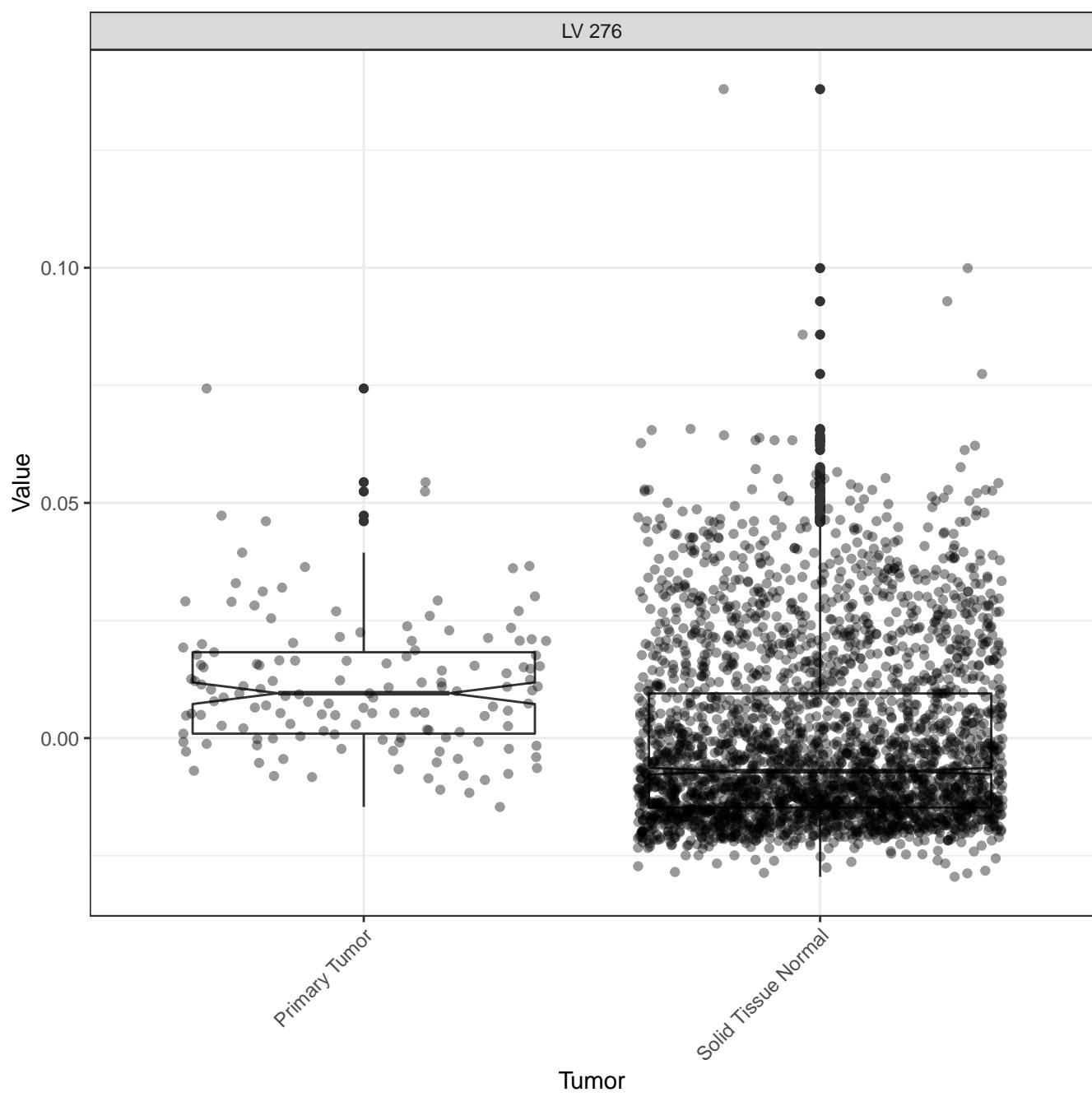
Solid Tissue Normal

Tumor

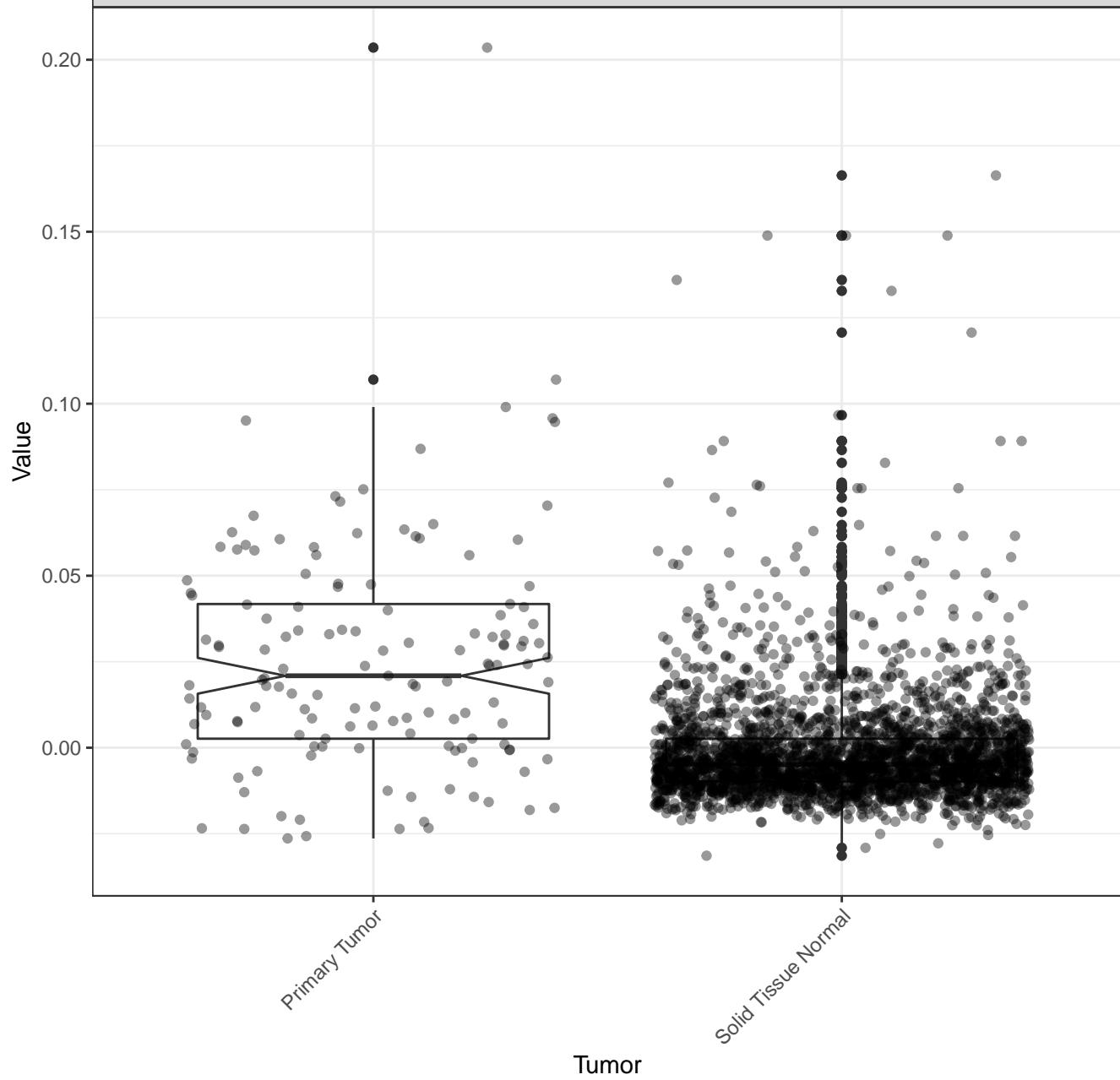


275,REACTOME\_METABOLISM\_OF\_PROTEINS

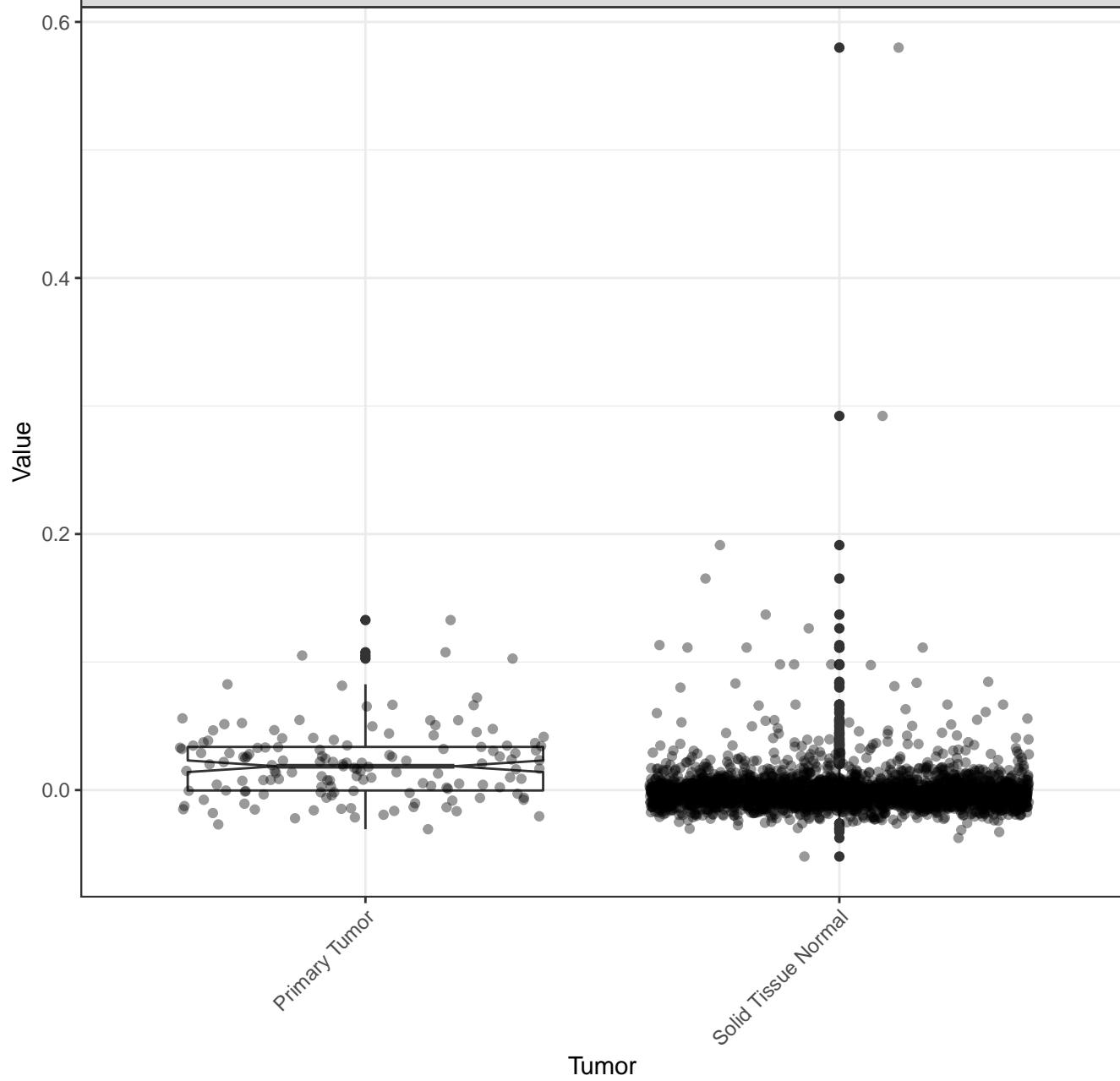


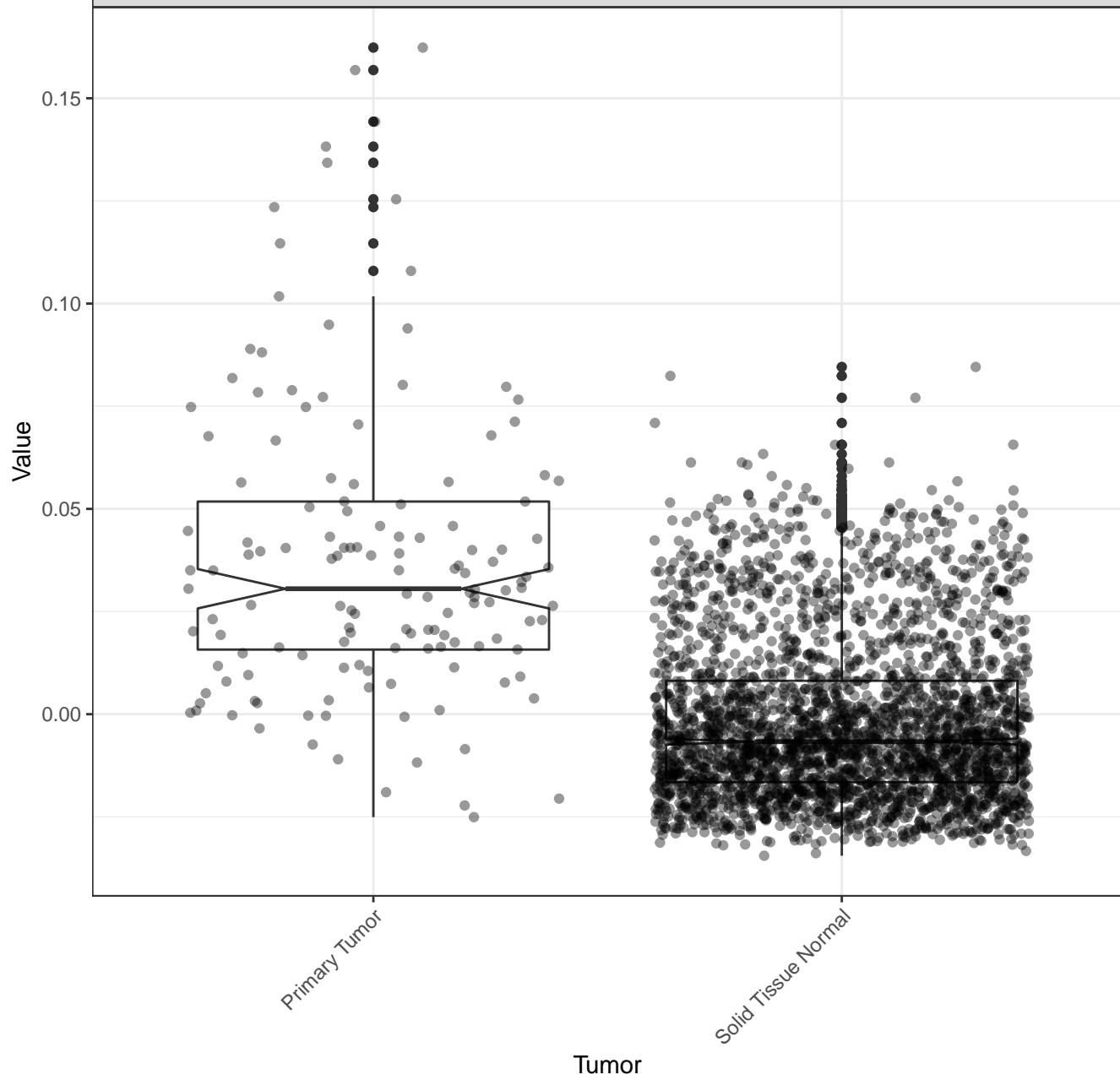


# 277,PID\_IL4\_2PATHWAY

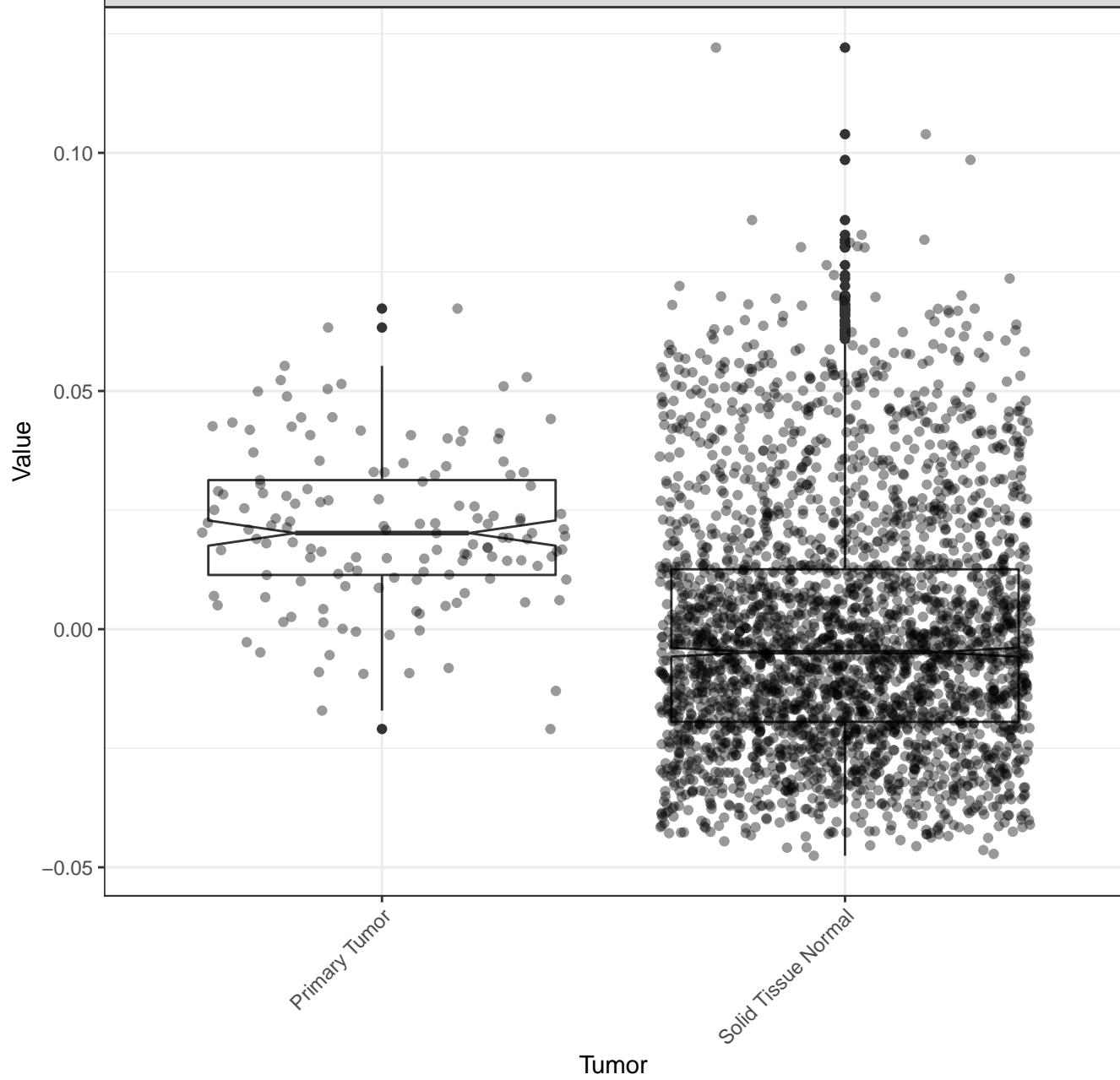


# 278,REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TRANSPORT

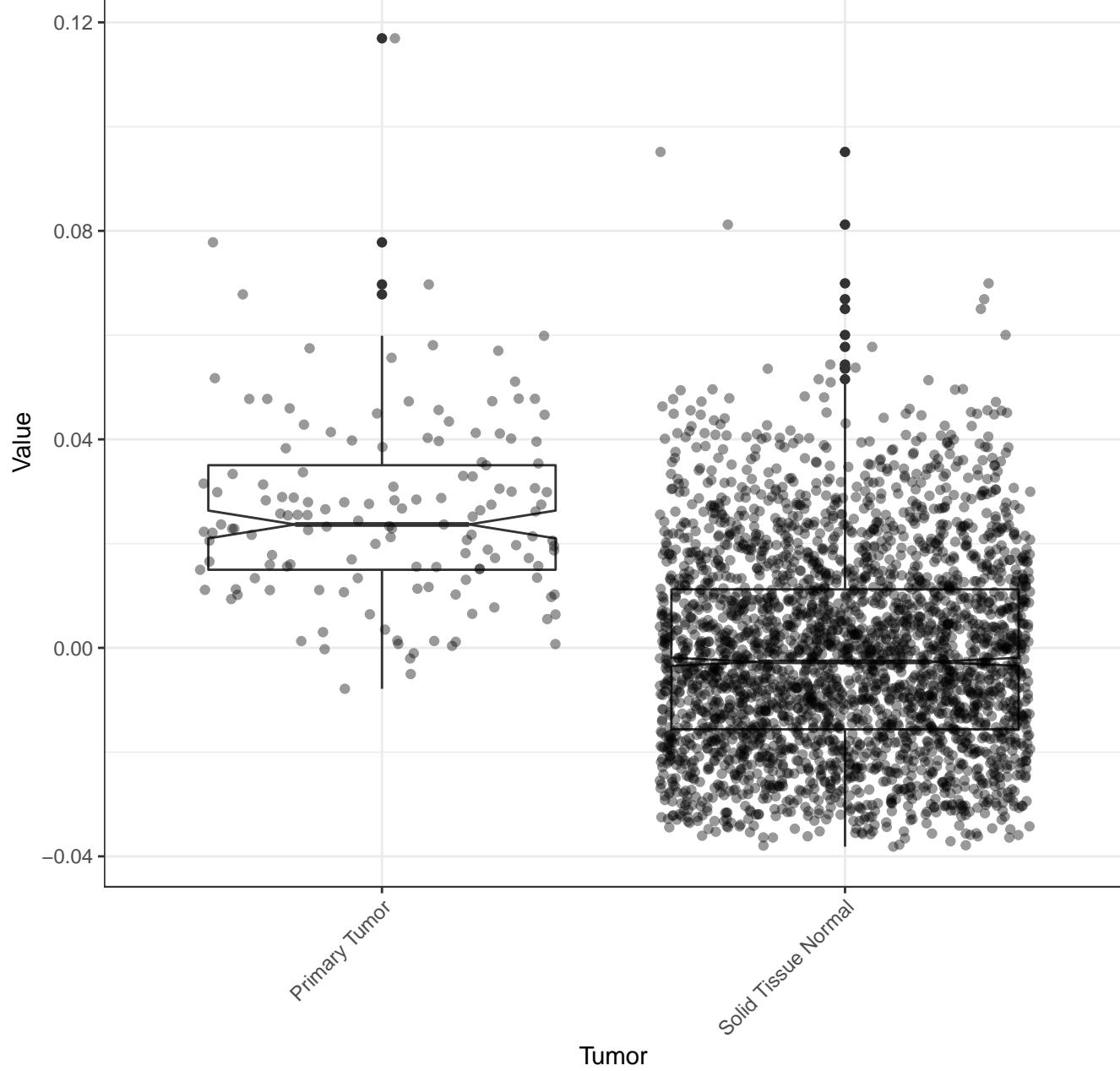




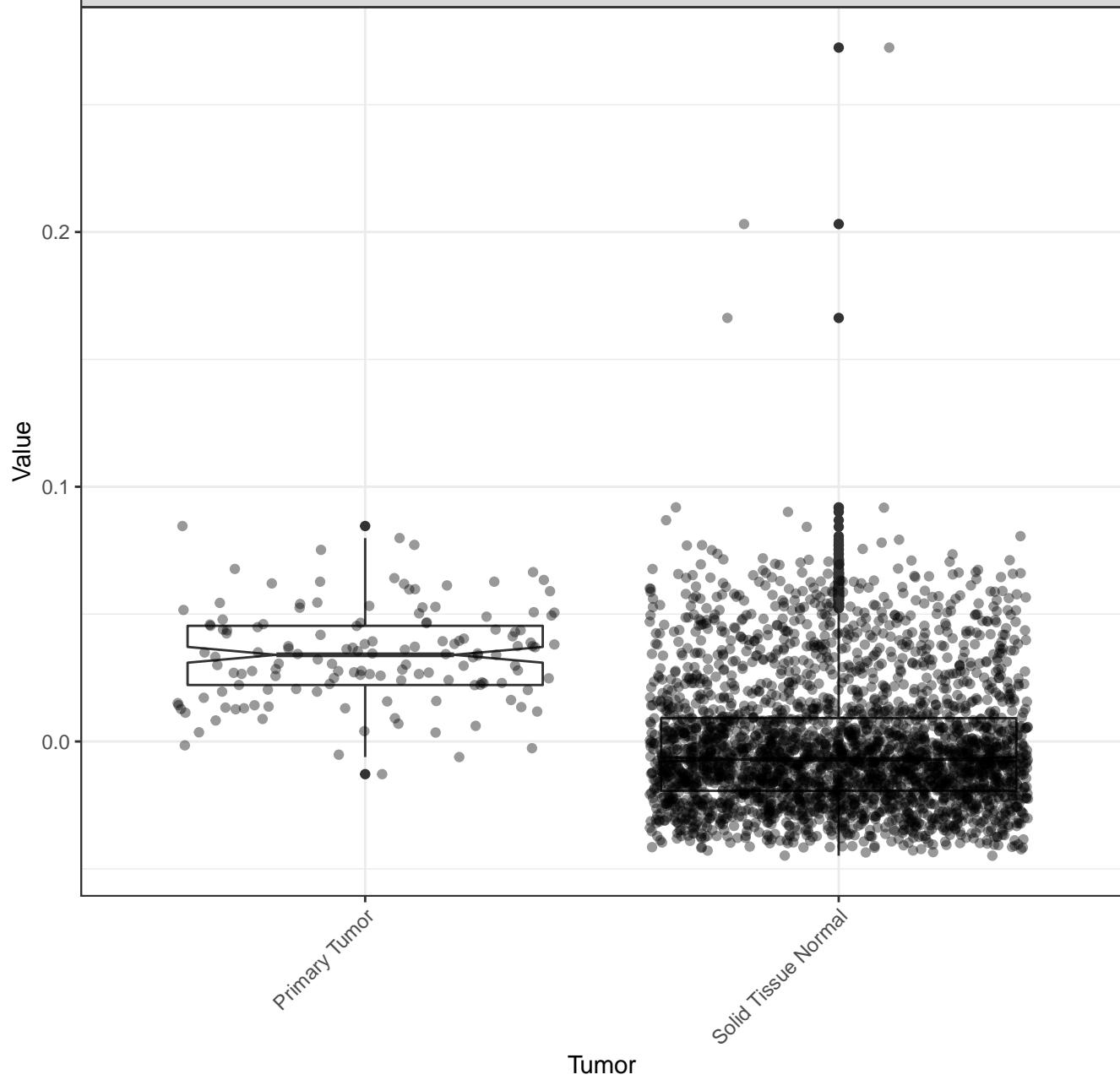
LV 280



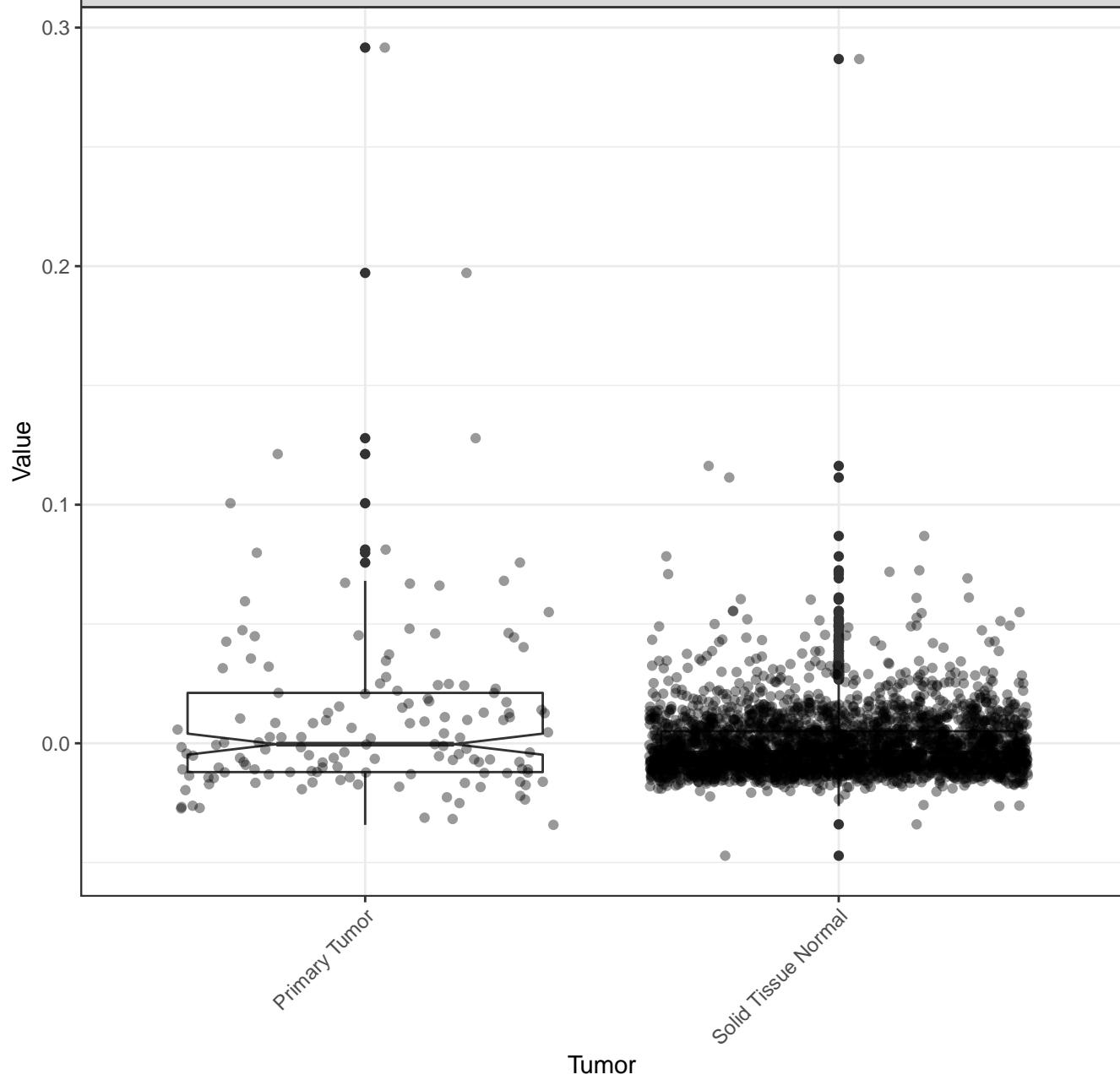
281,REACTOME\_METABOLISM\_OF\_AMINO\_ACIDS\_AND\_DERIVATIVES



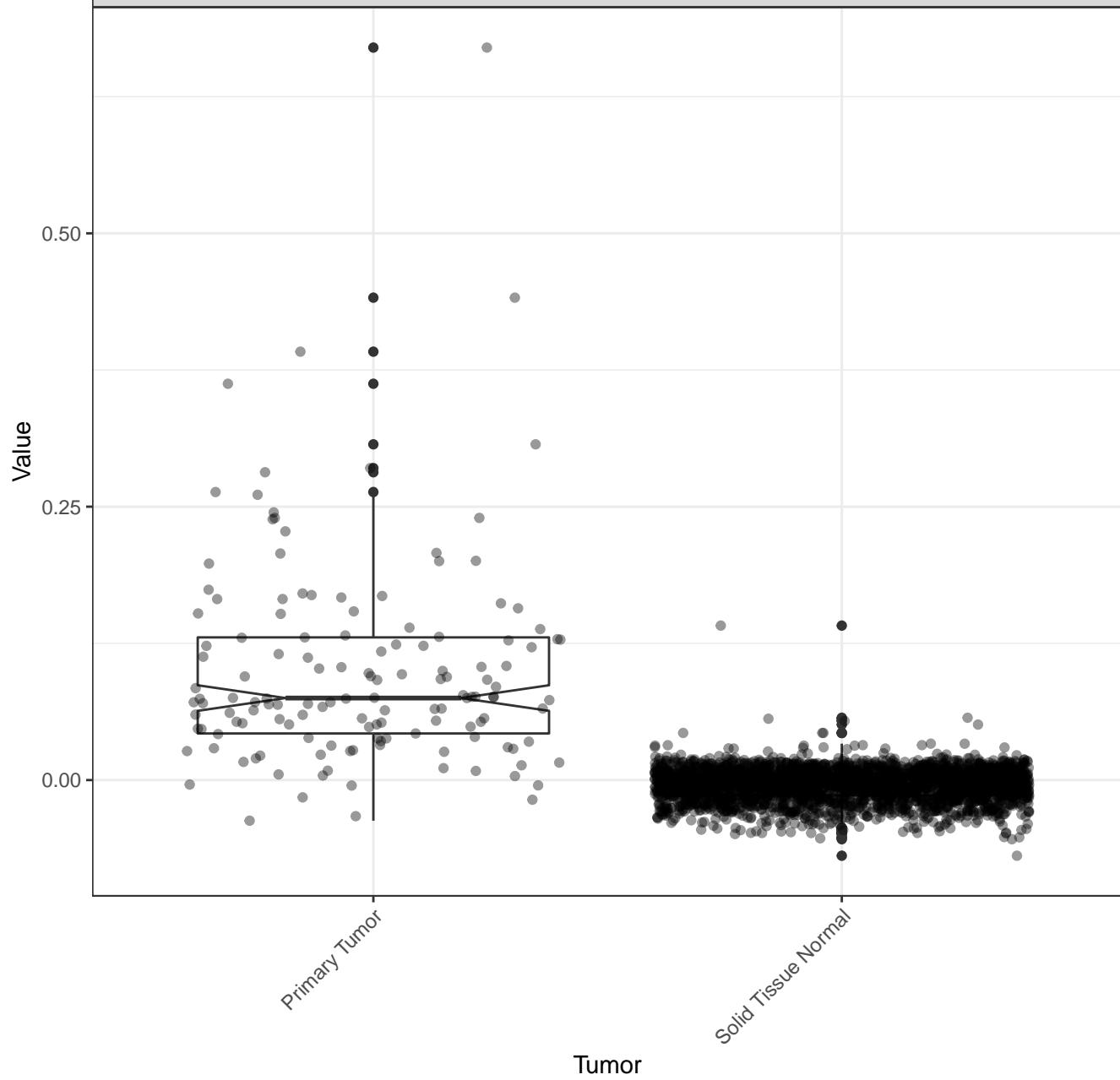
# 282,KEGG\_RNA\_DEGRADATION



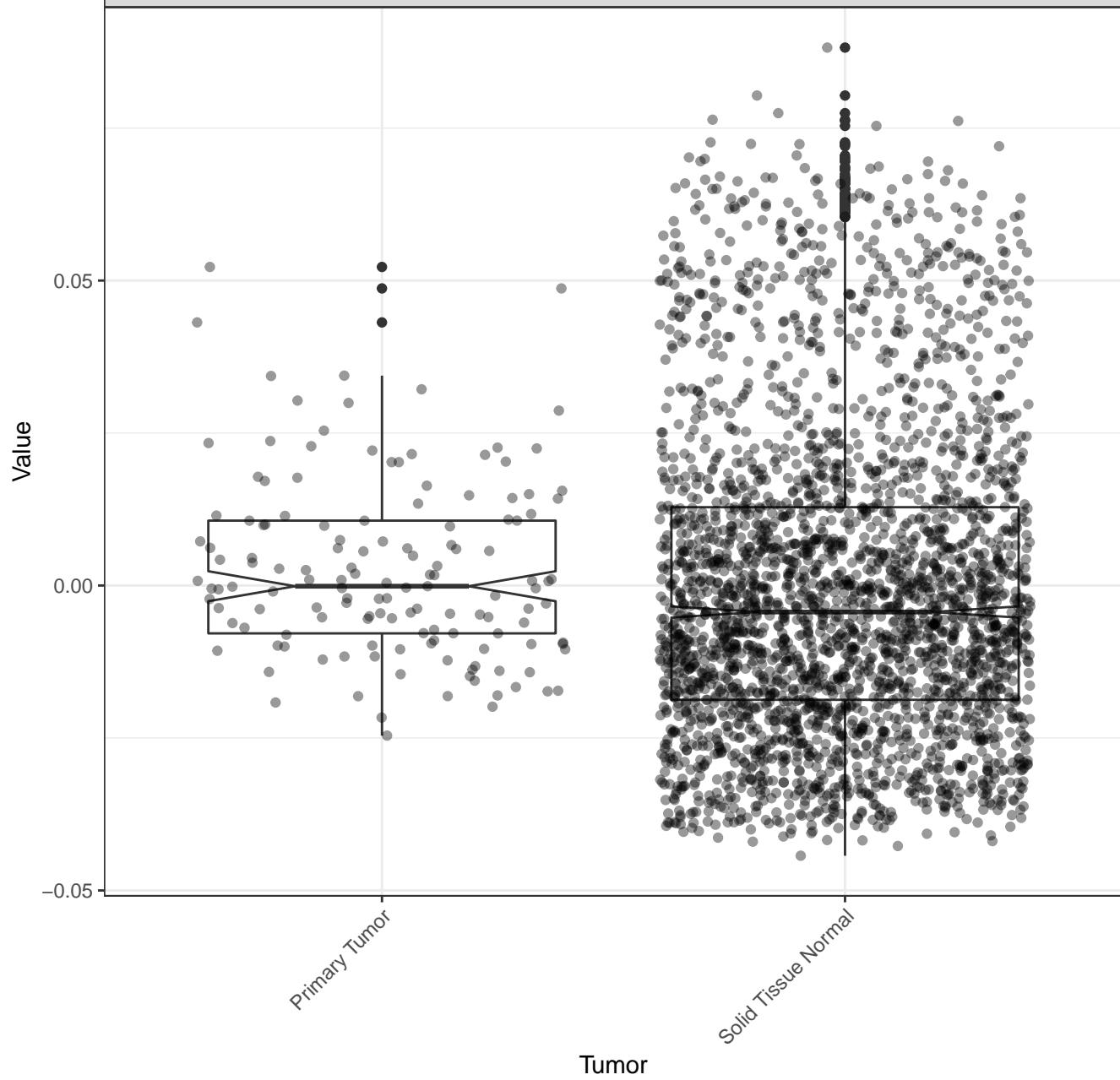
## 283,IRIS\_Monocyte-Day0



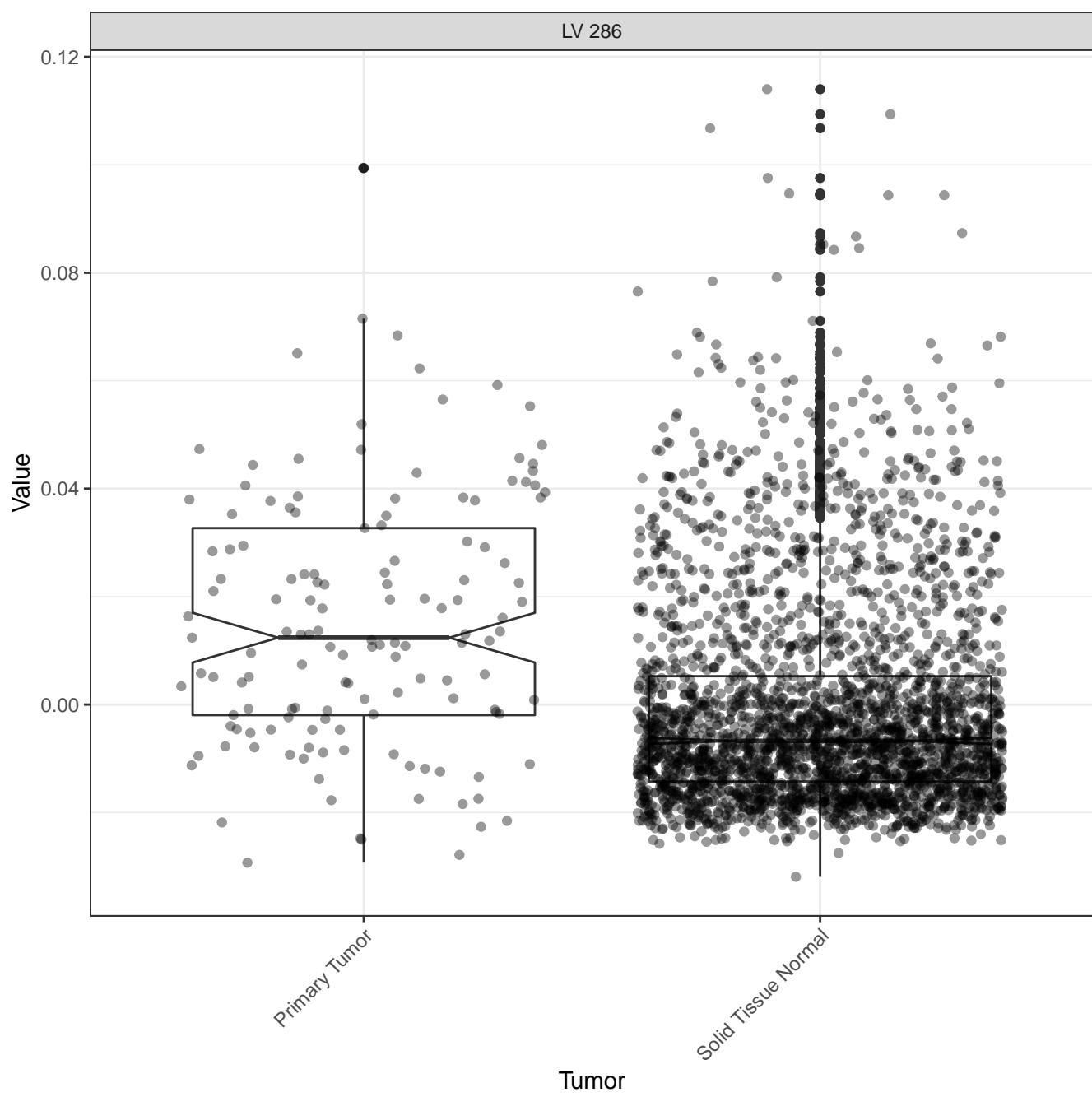
# 284,KEGG\_ECM\_RECECTOR\_INTERACTION



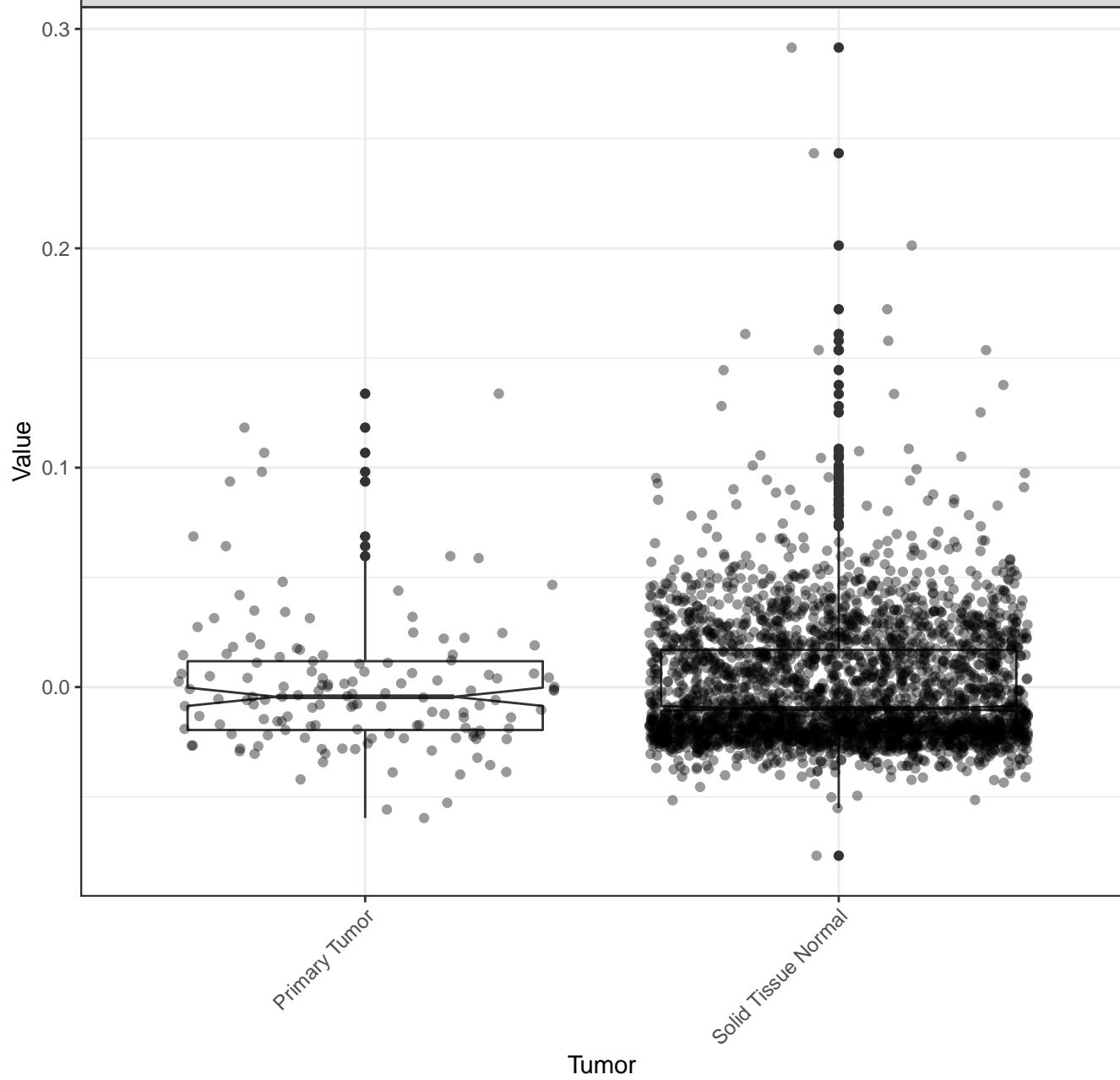
# 285,KEGG\_SNARE\_INTERACTIONS\_IN\_VESICULAR\_TRANSPORT



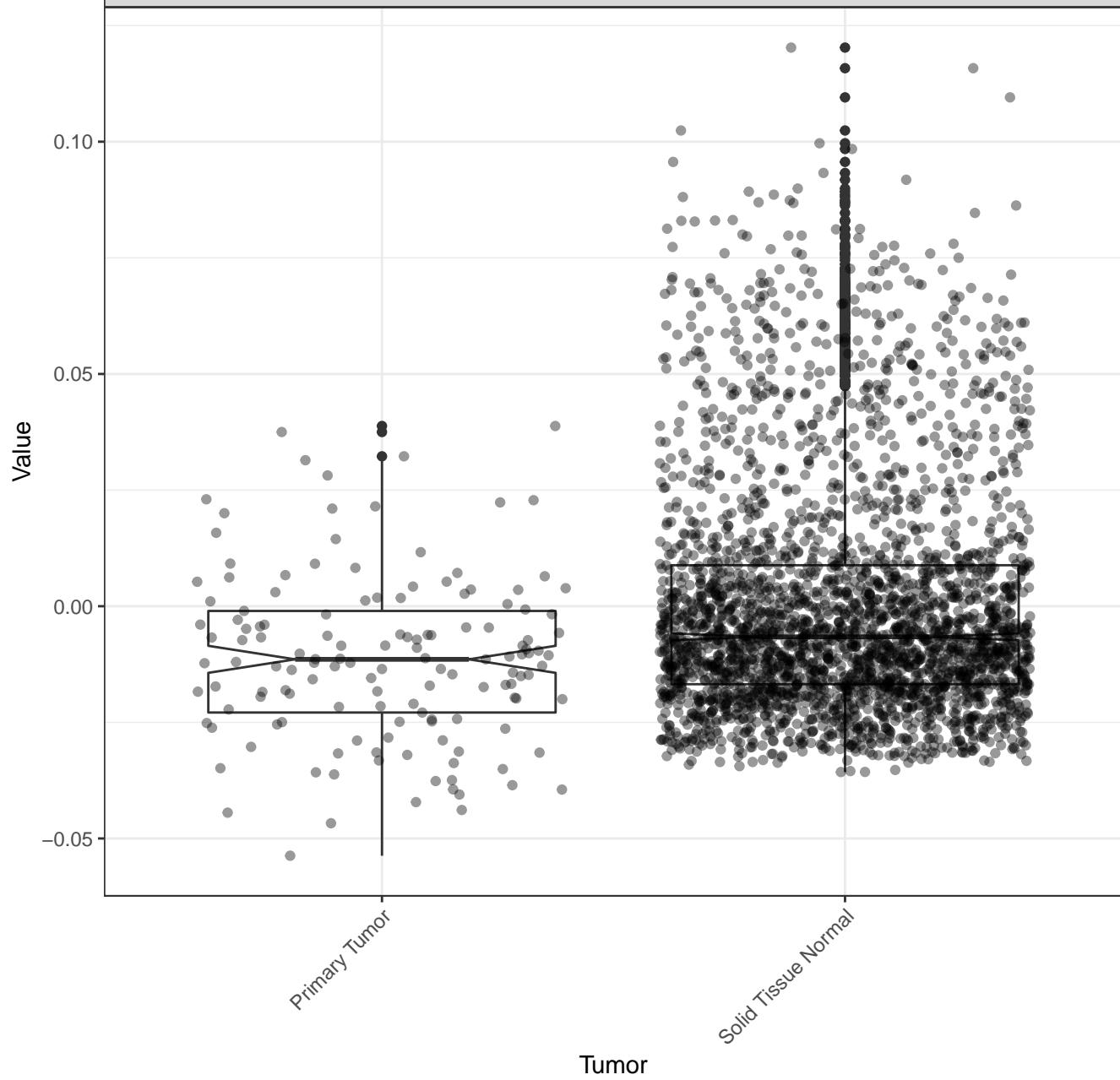
LV 286



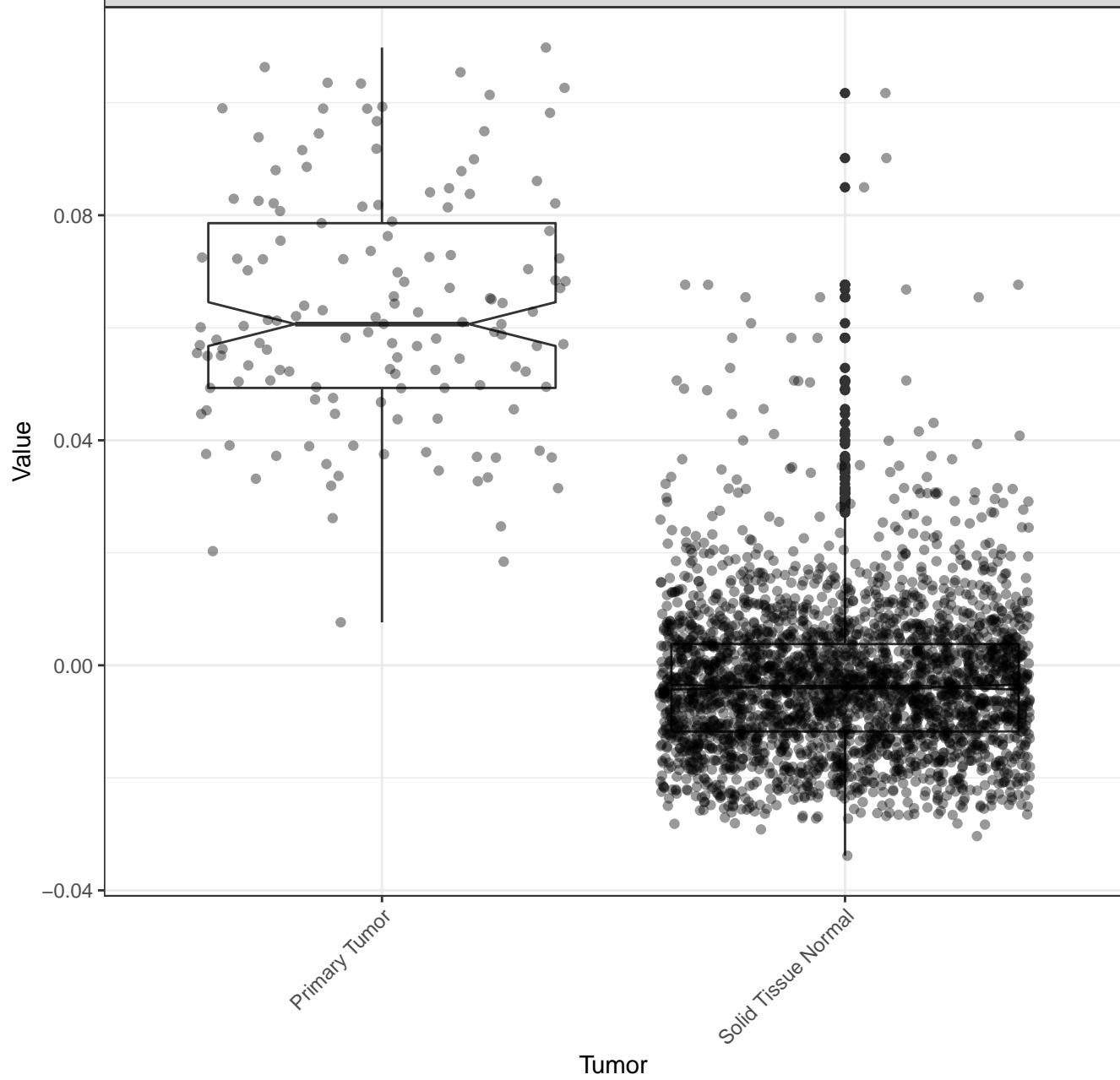
## 287,PID\_RET\_PATHWAY



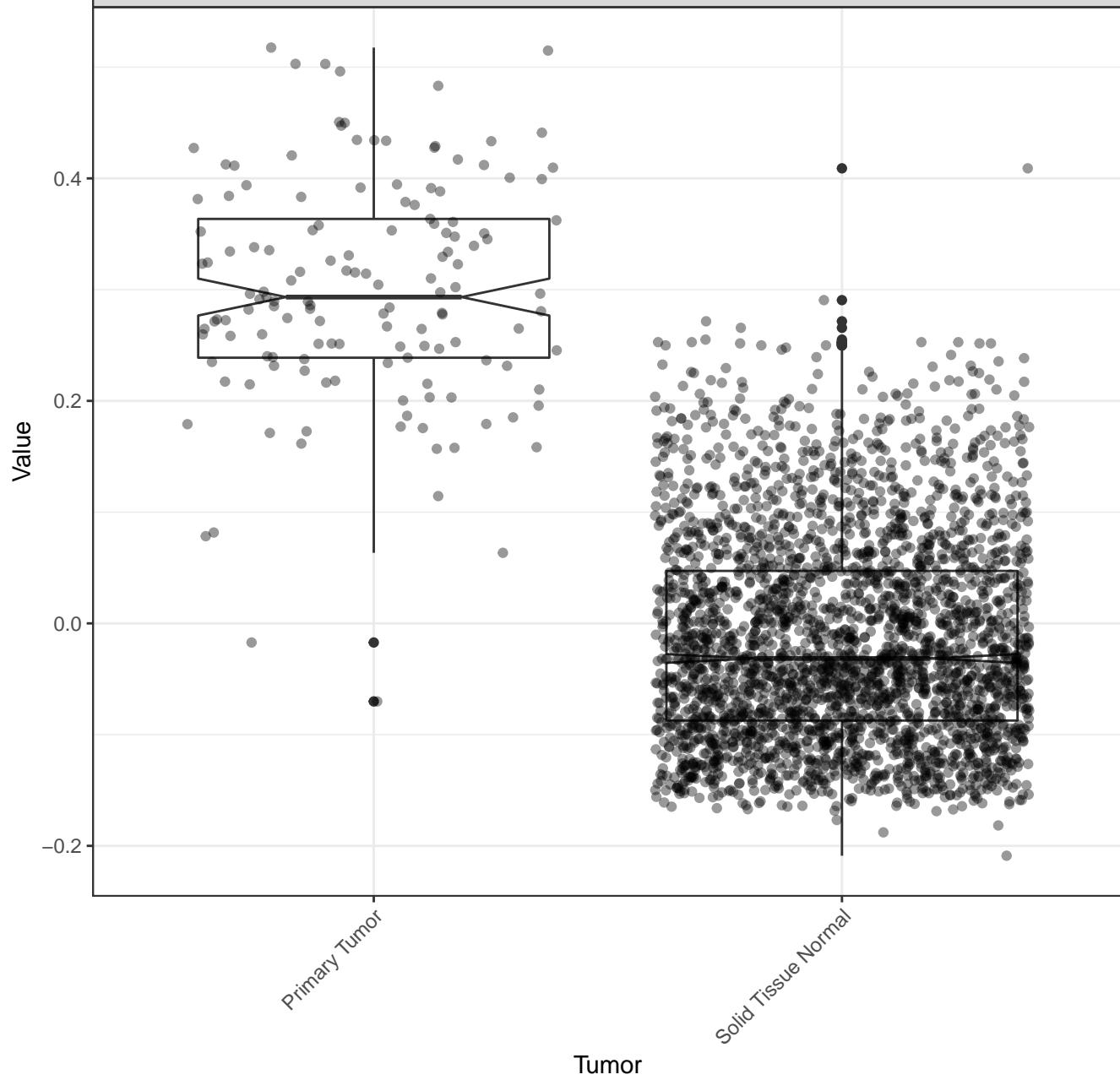
## 288,KEGG\_PURINE\_METABOLISM



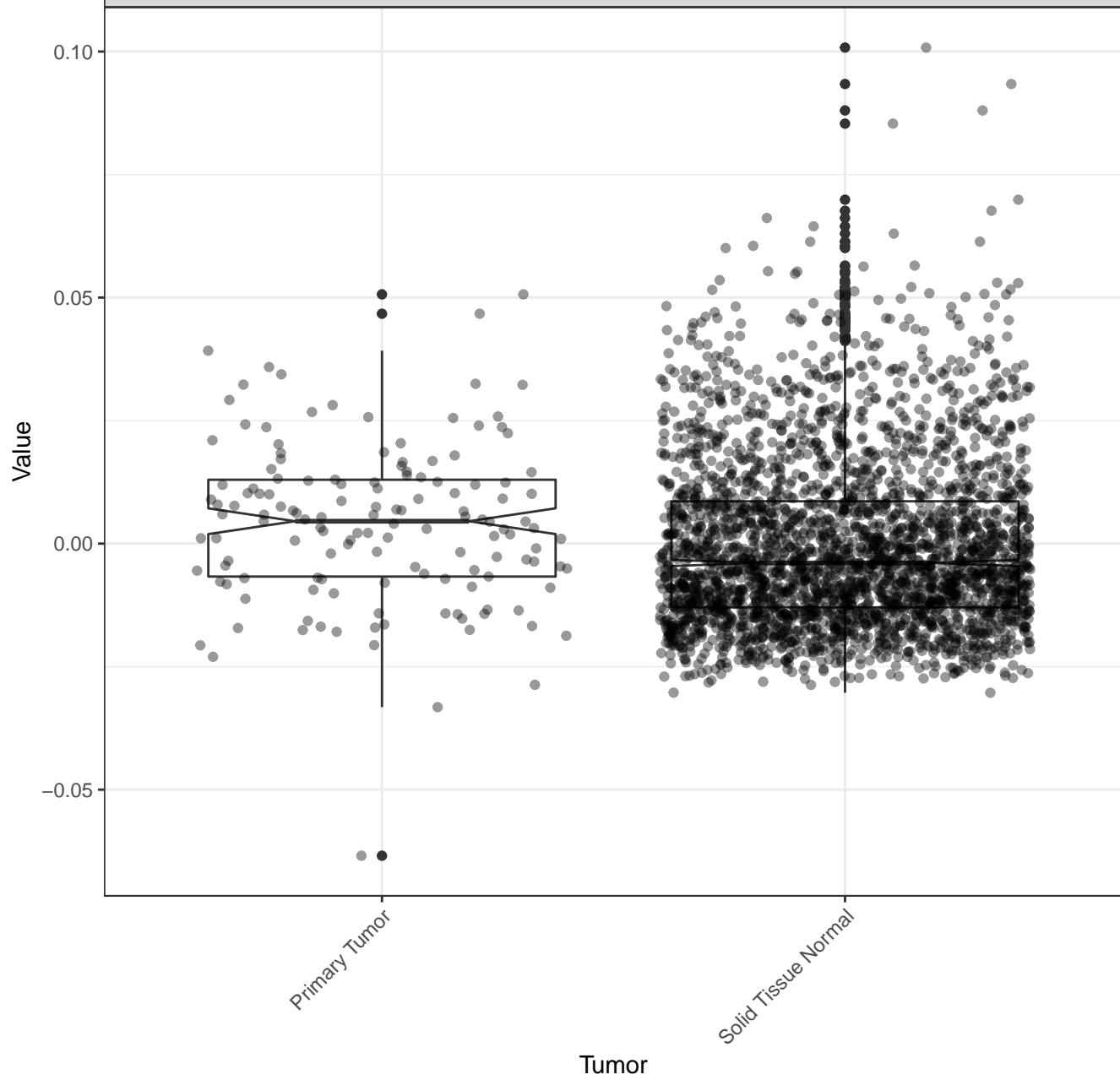
## 289,MIPS\_SPliceosome



## 290,REACTOME\_TRNA\_AMINOACYLATION



LV 291



## 292,SVM T cells CD8

Value

0.3

0.2

0.1

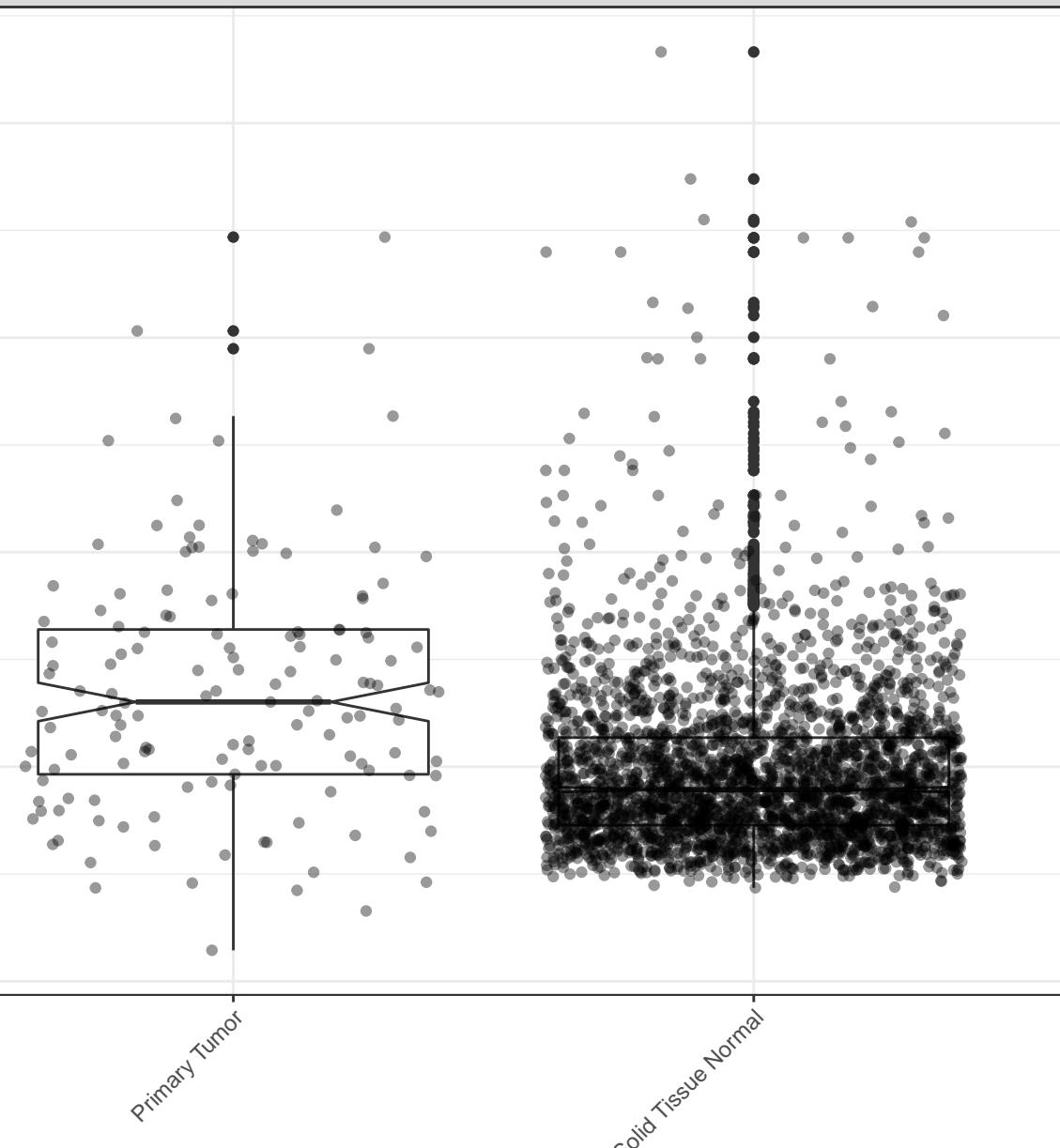
0.0

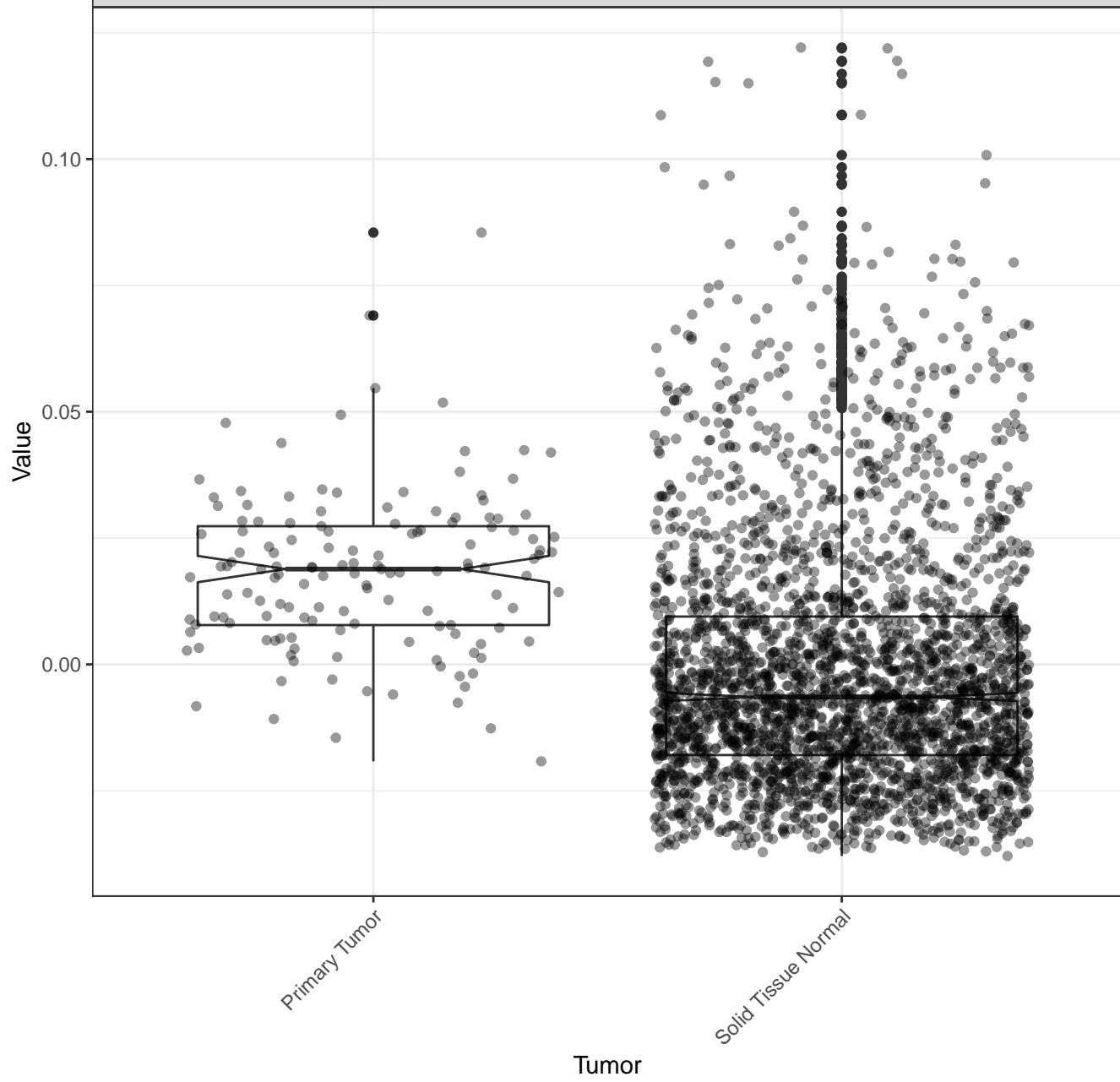
-0.1

Primary Tumor

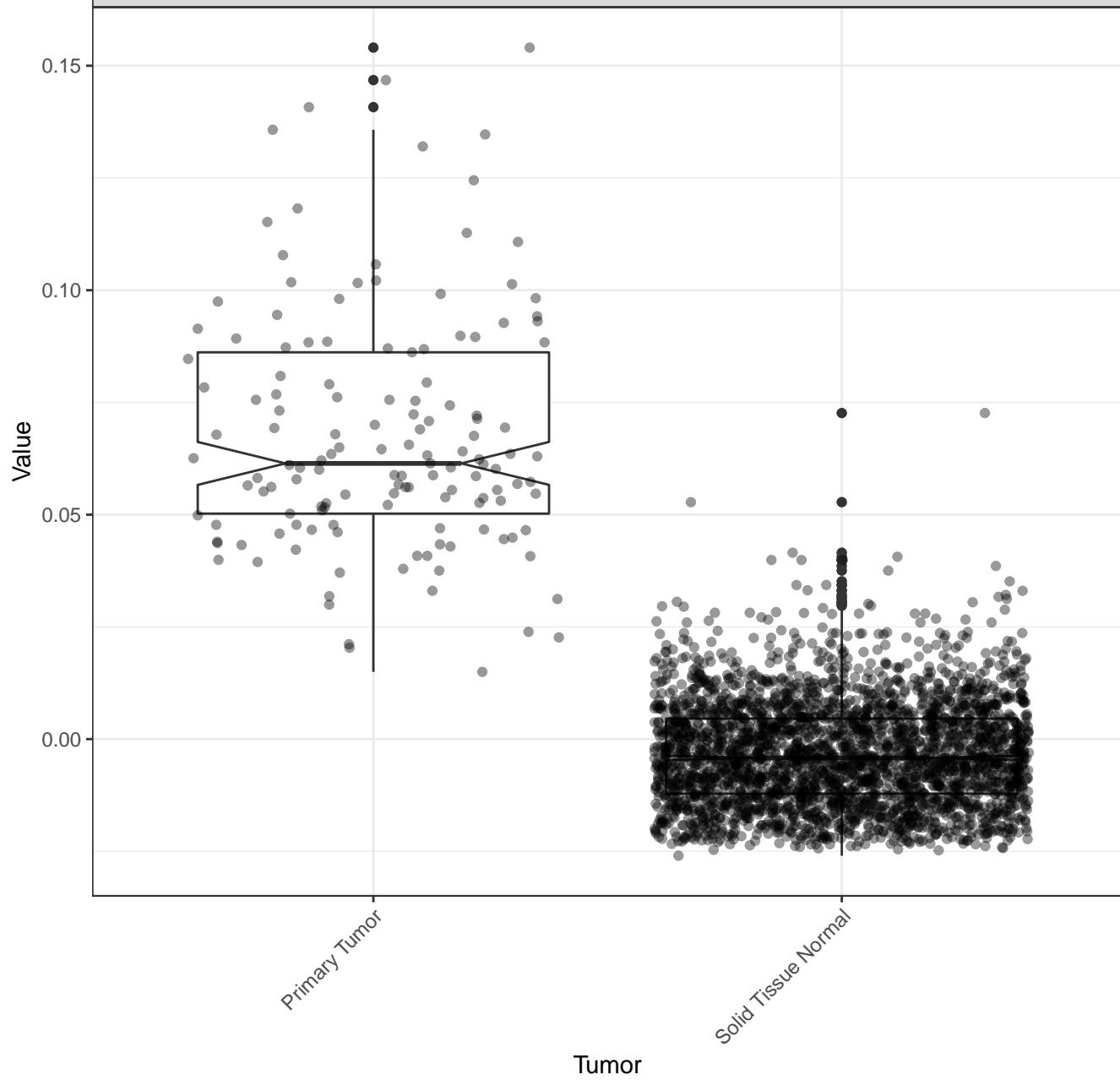
Solid Tissue Normal

Tumor

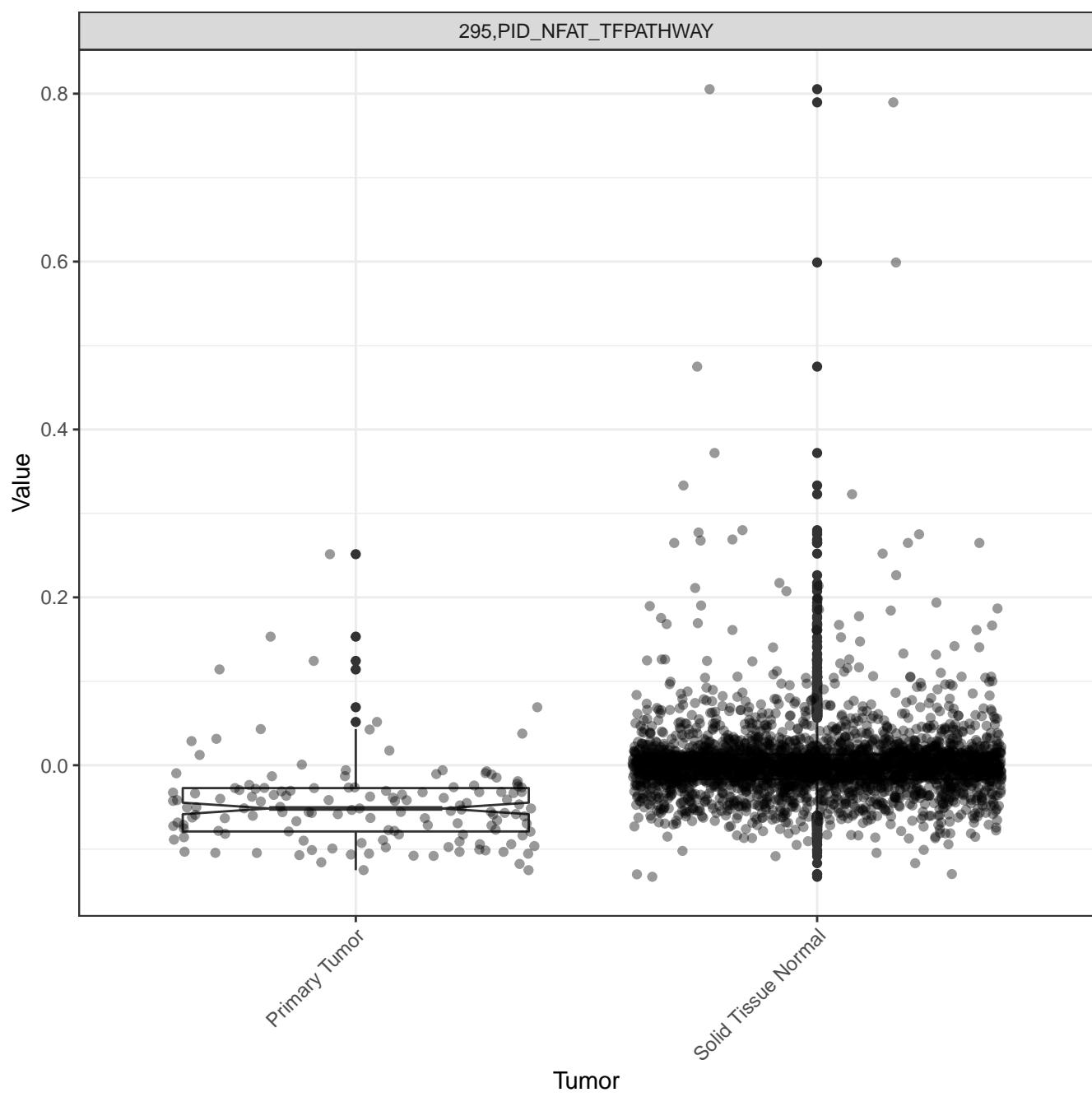




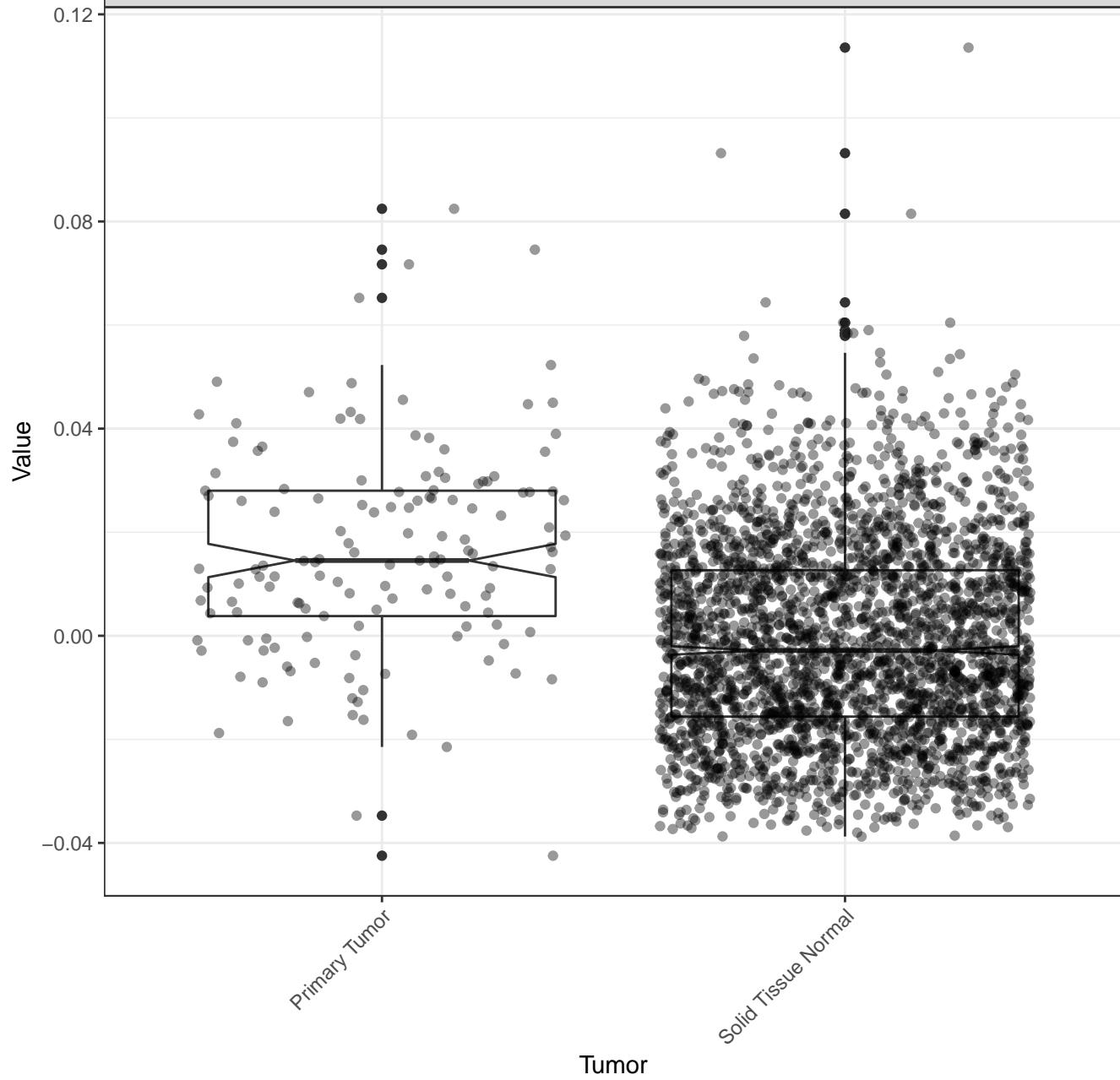
294,REACTOME\_METABOLISM\_OF\_PROTEINS



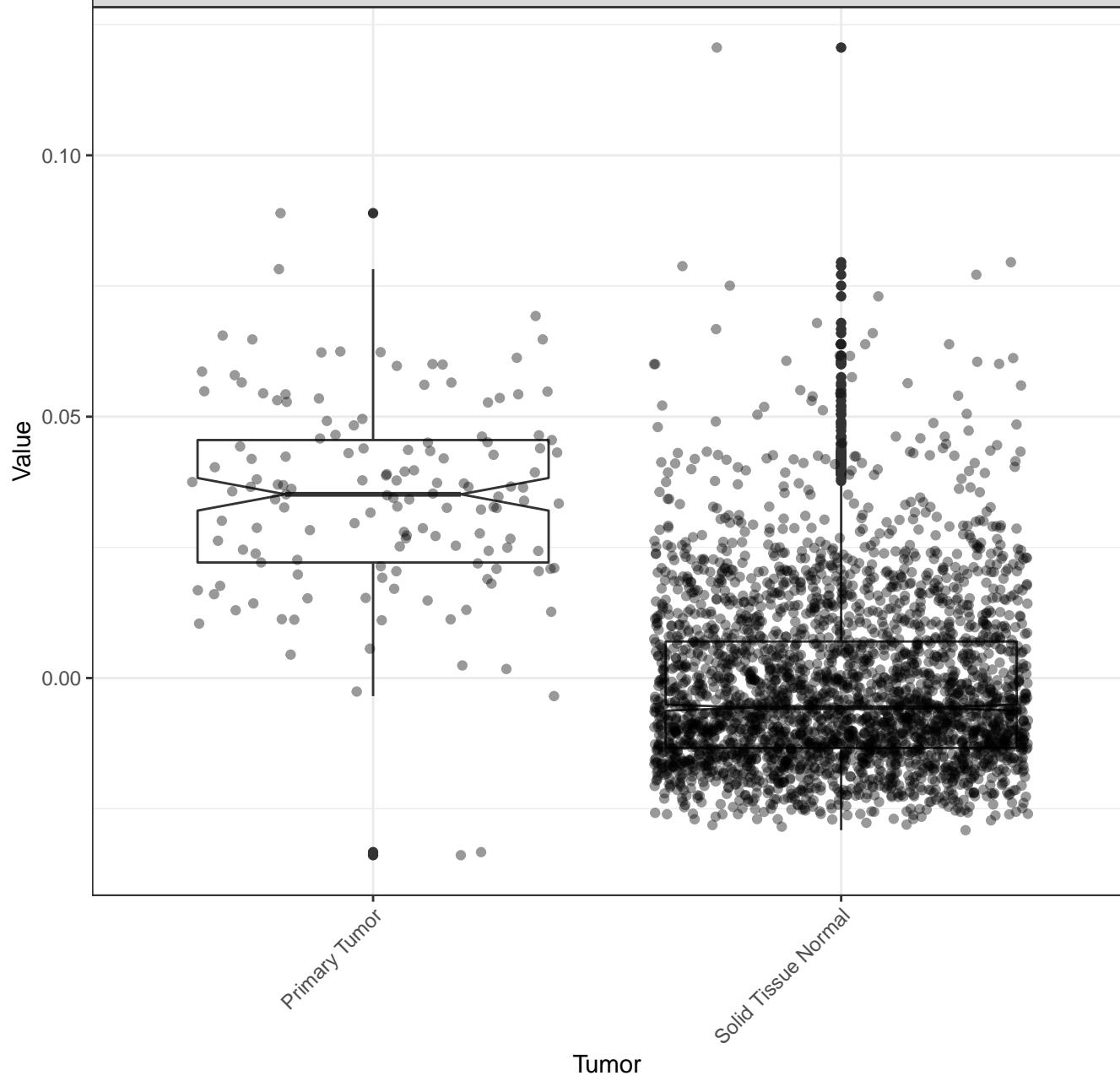
## 295,PID\_NFAT\_TFPATHWAY



## 296,REACTOME\_ACTIVATED\_TLR4\_SIGNALLING



## 297,PID\_MAPKTRKPATHWAY



LV 298

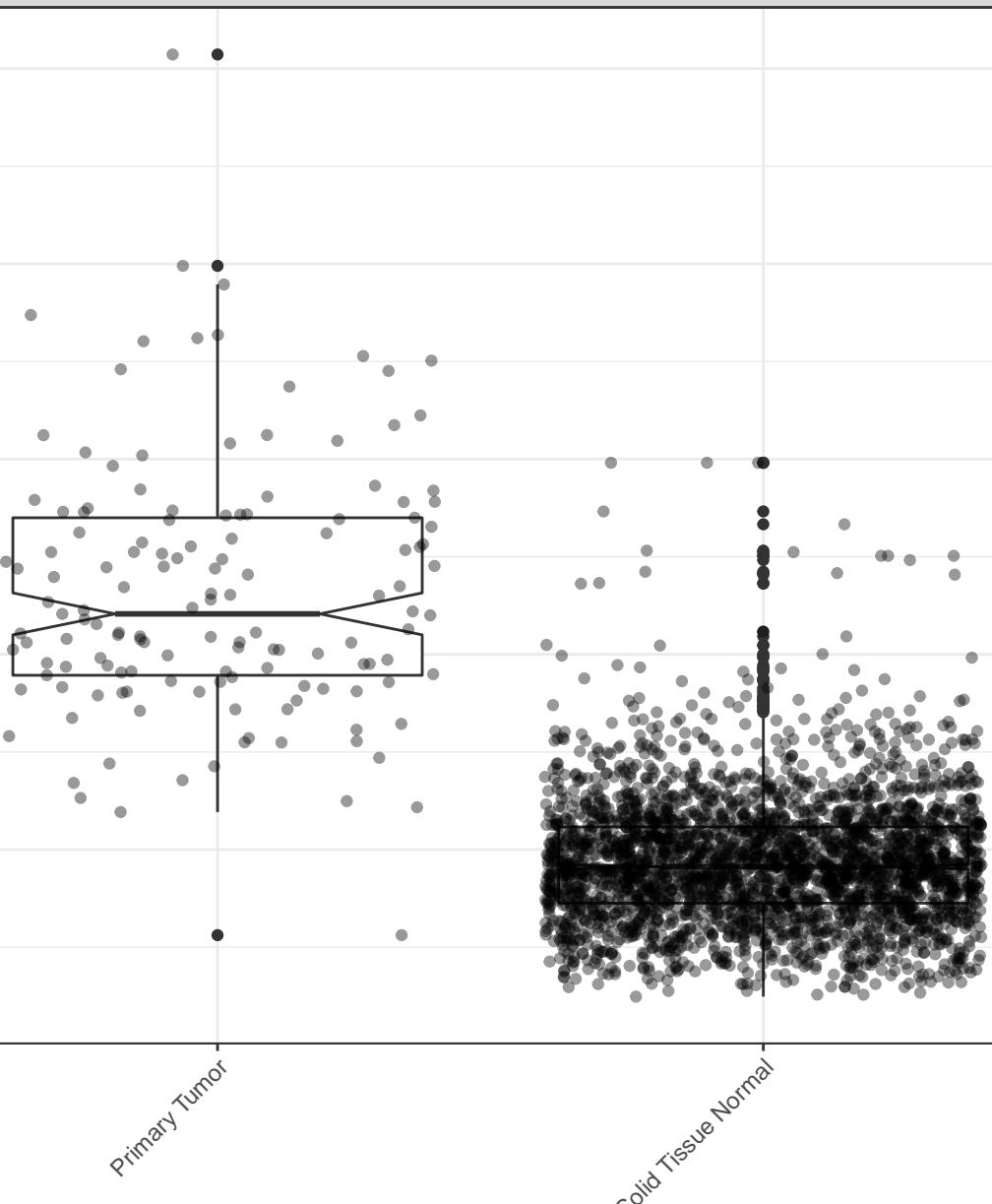
Value

0.20  
0.15  
0.10  
0.05  
0.00

Primary Tumor

Solid Tissue Normal

Tumor



## 299,KEGG\_MELANOGENESIS

Value

0.05

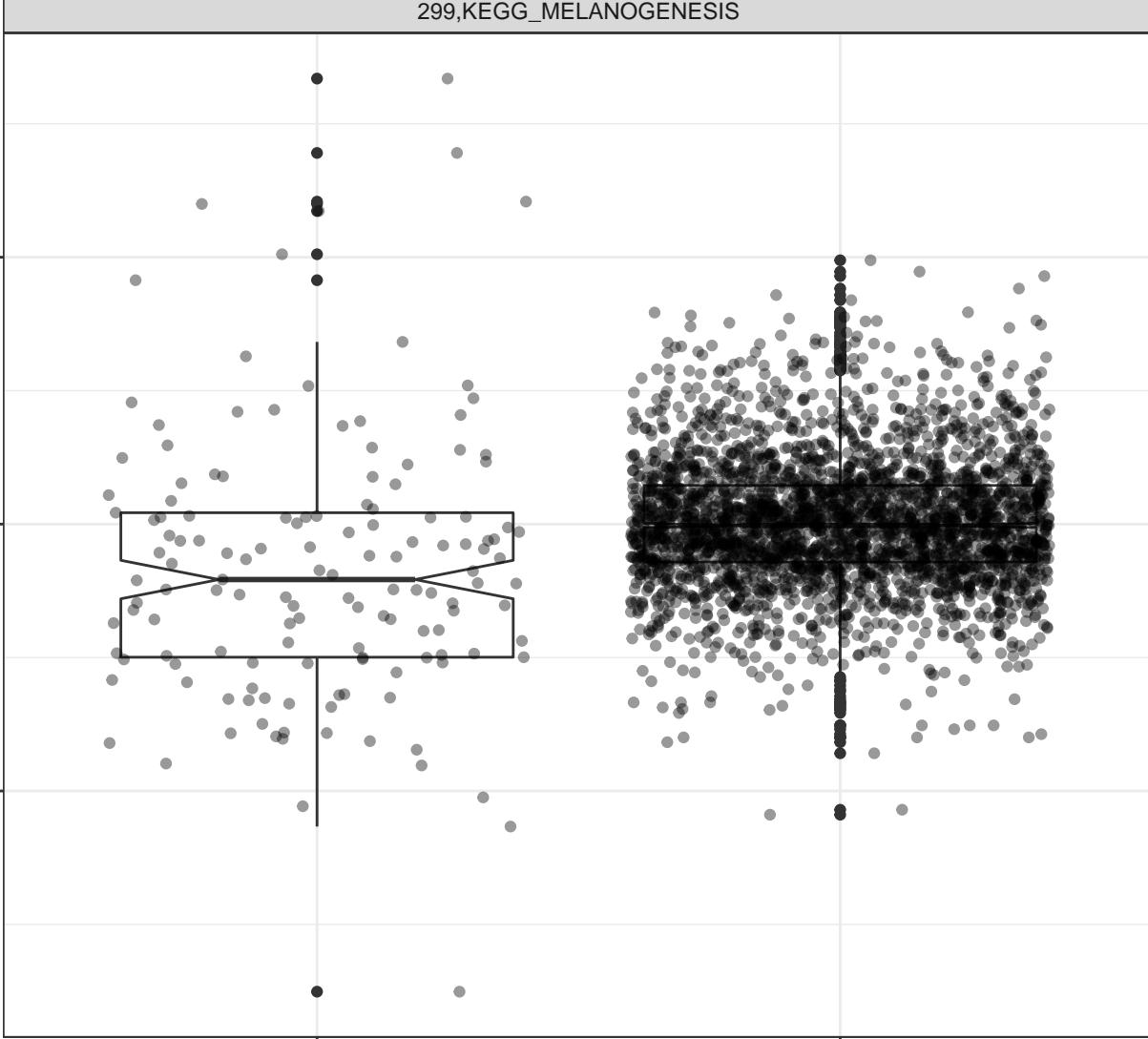
0.00

-0.05

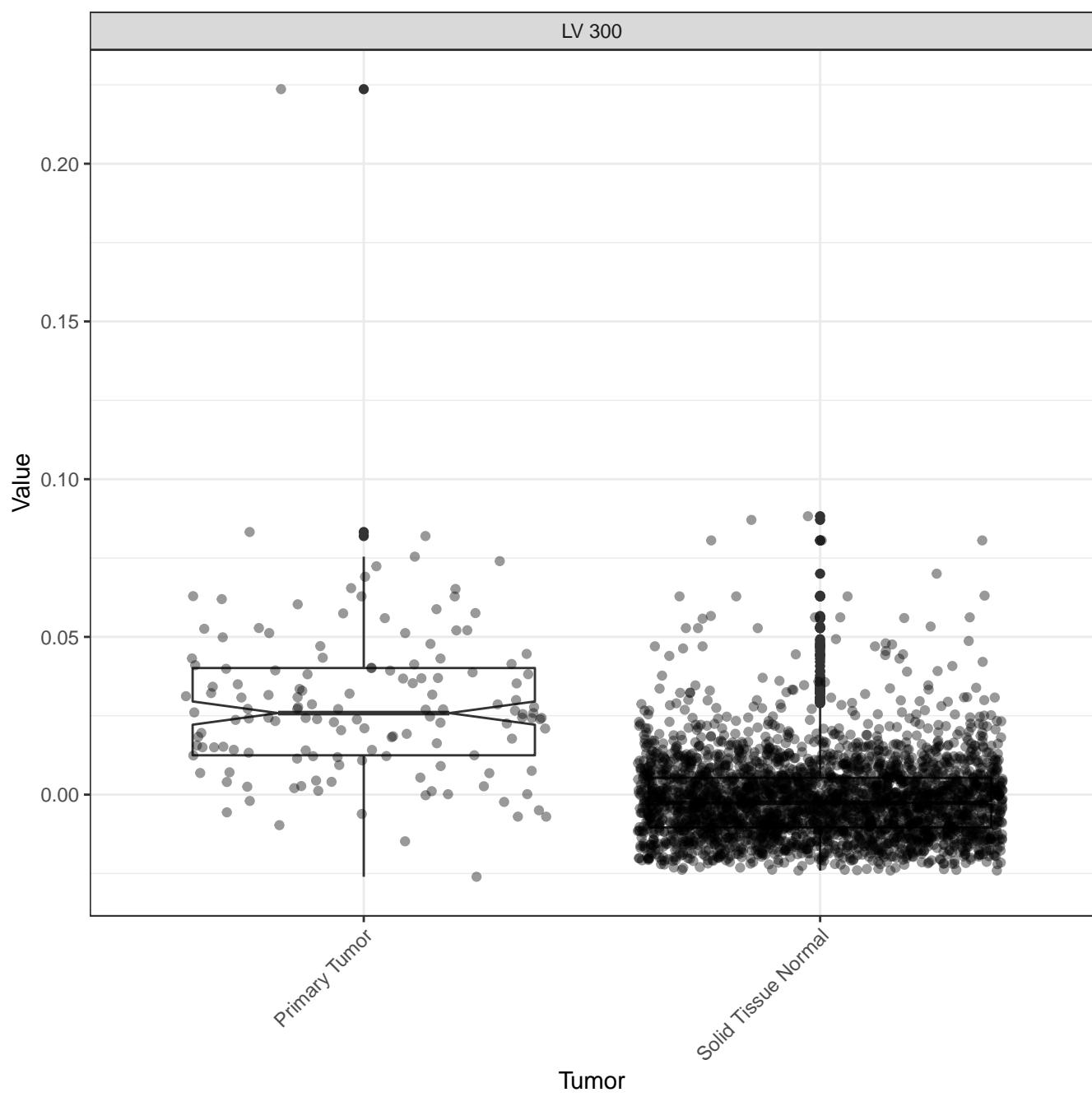
Primary Tumor

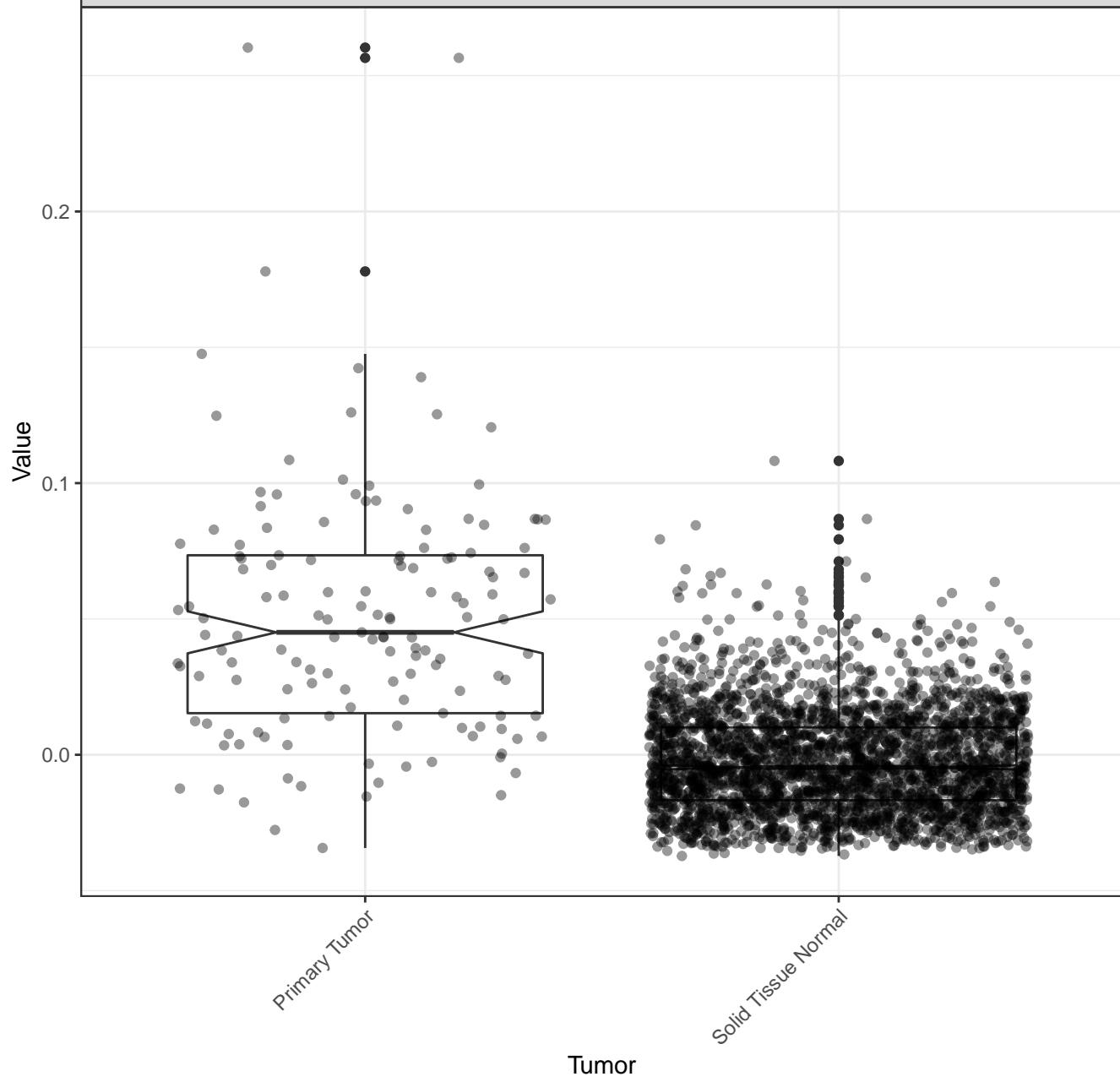
Solid Tissue Normal

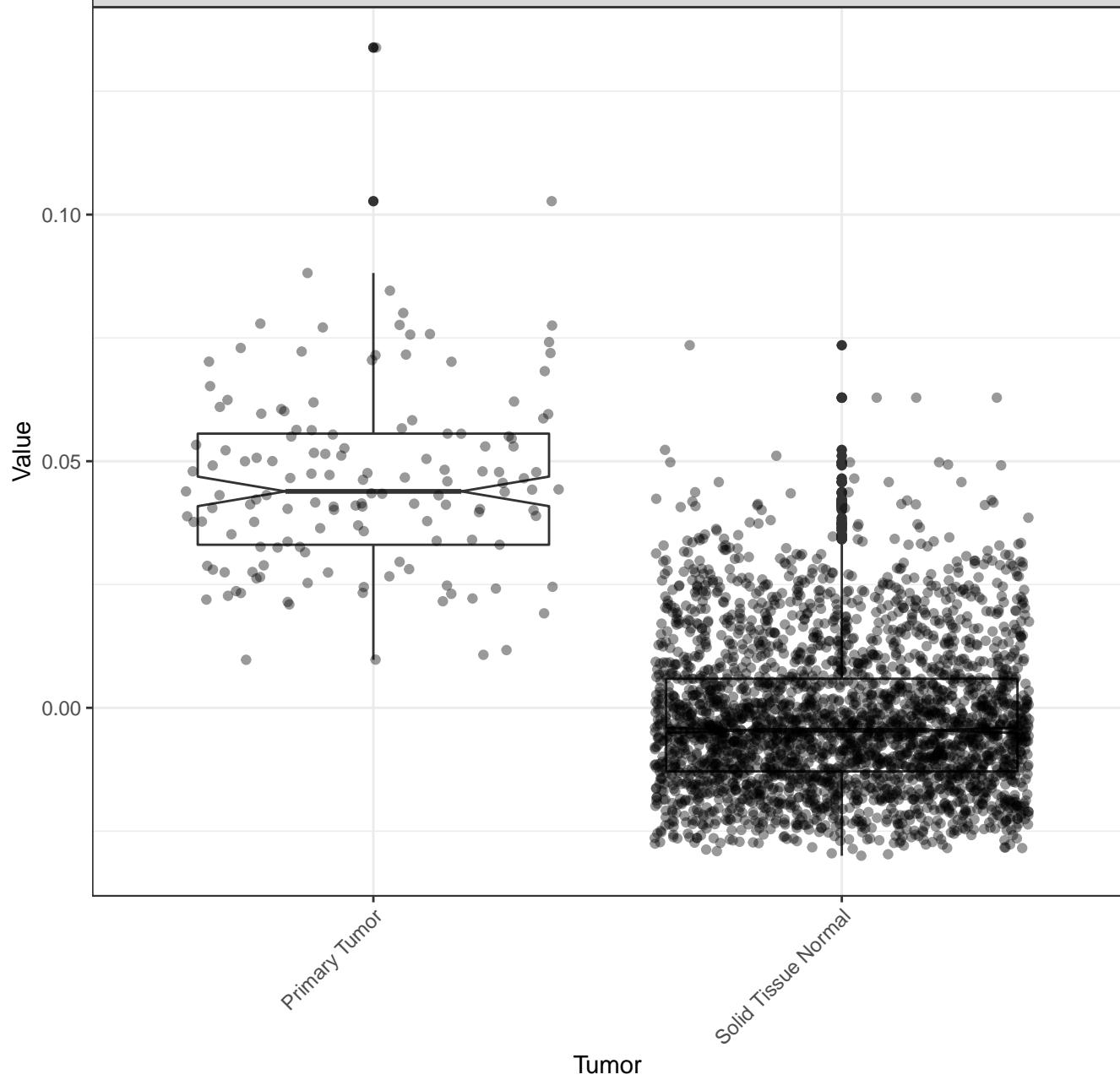
Tumor



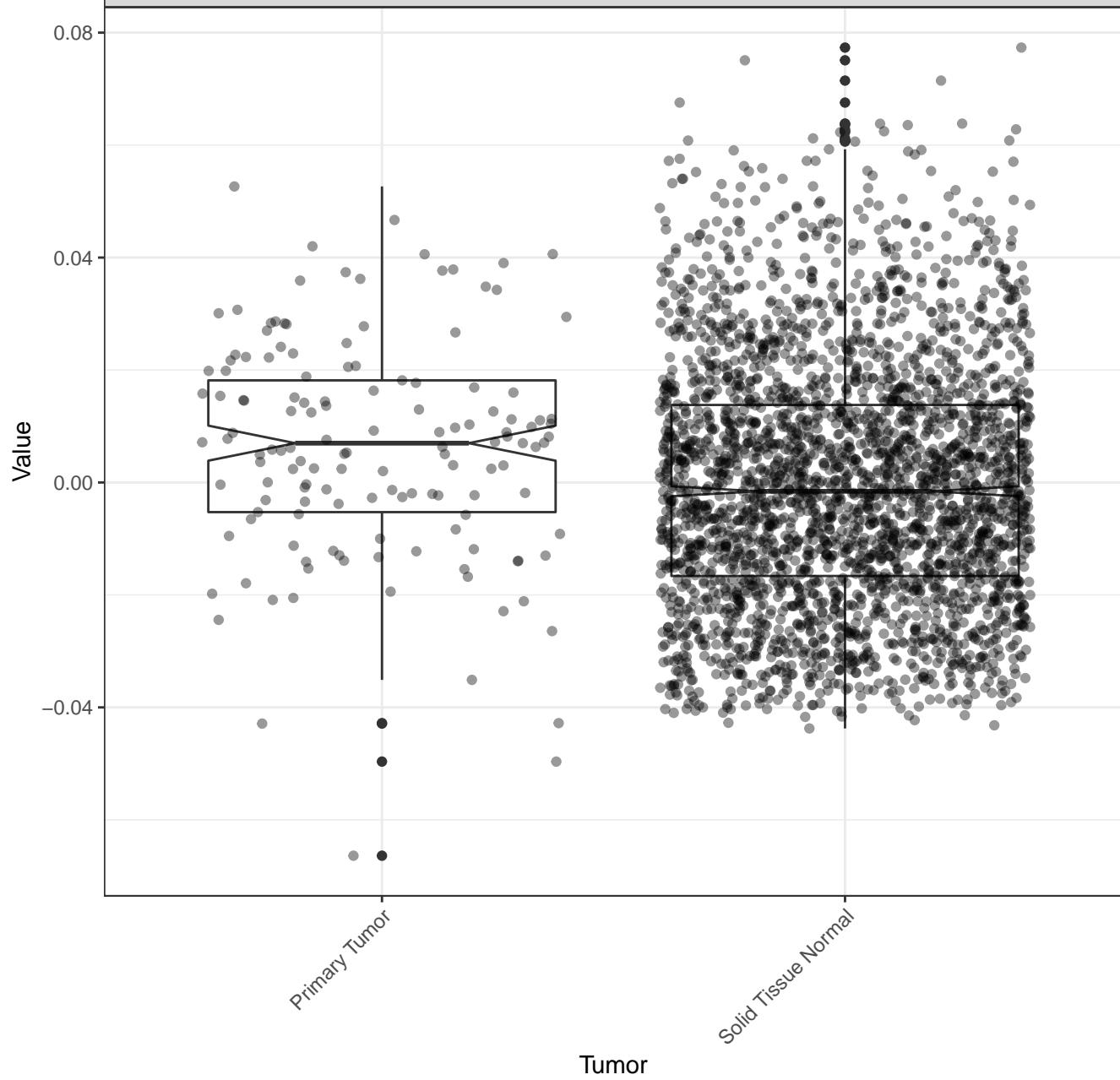
LV 300



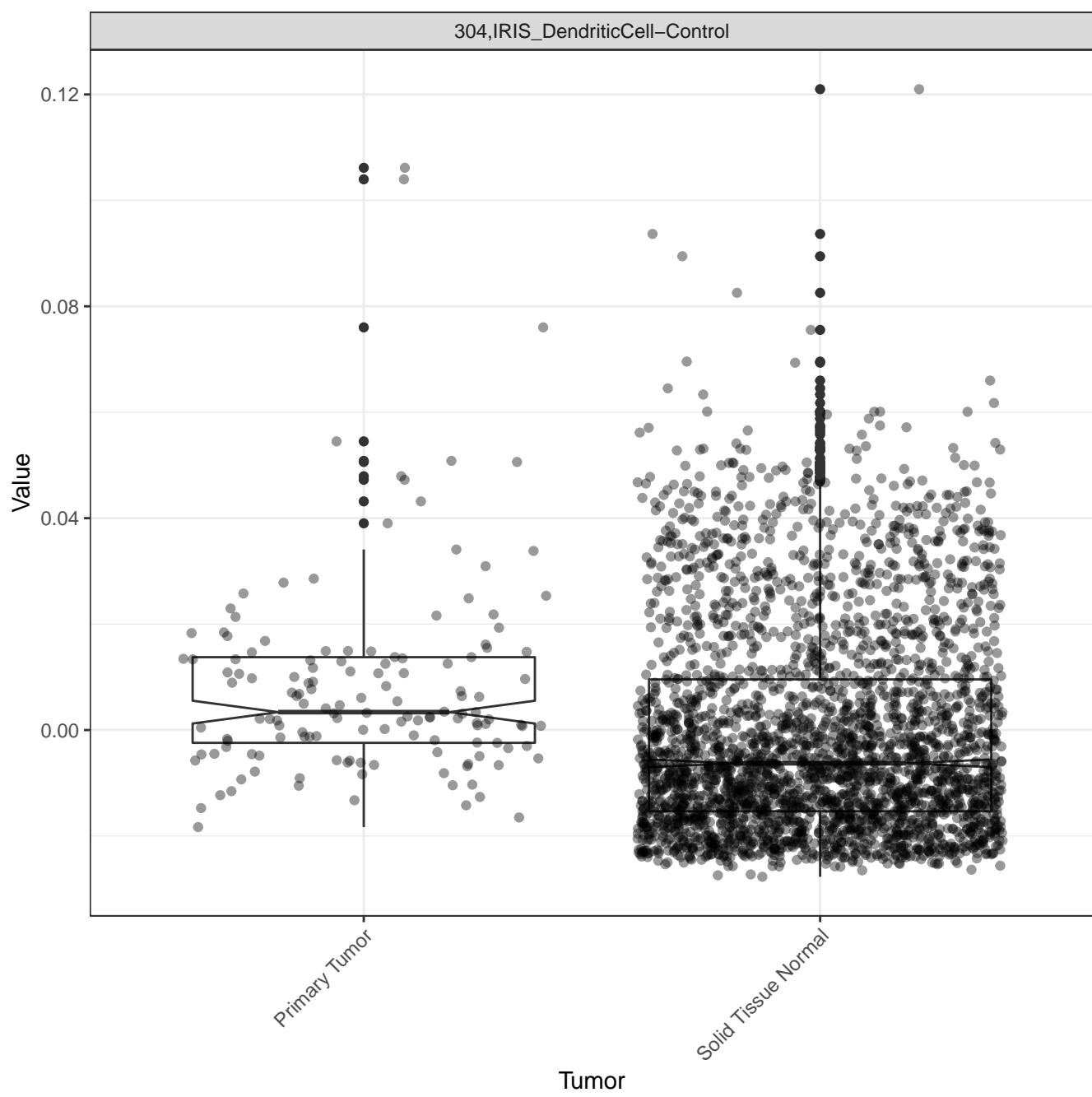




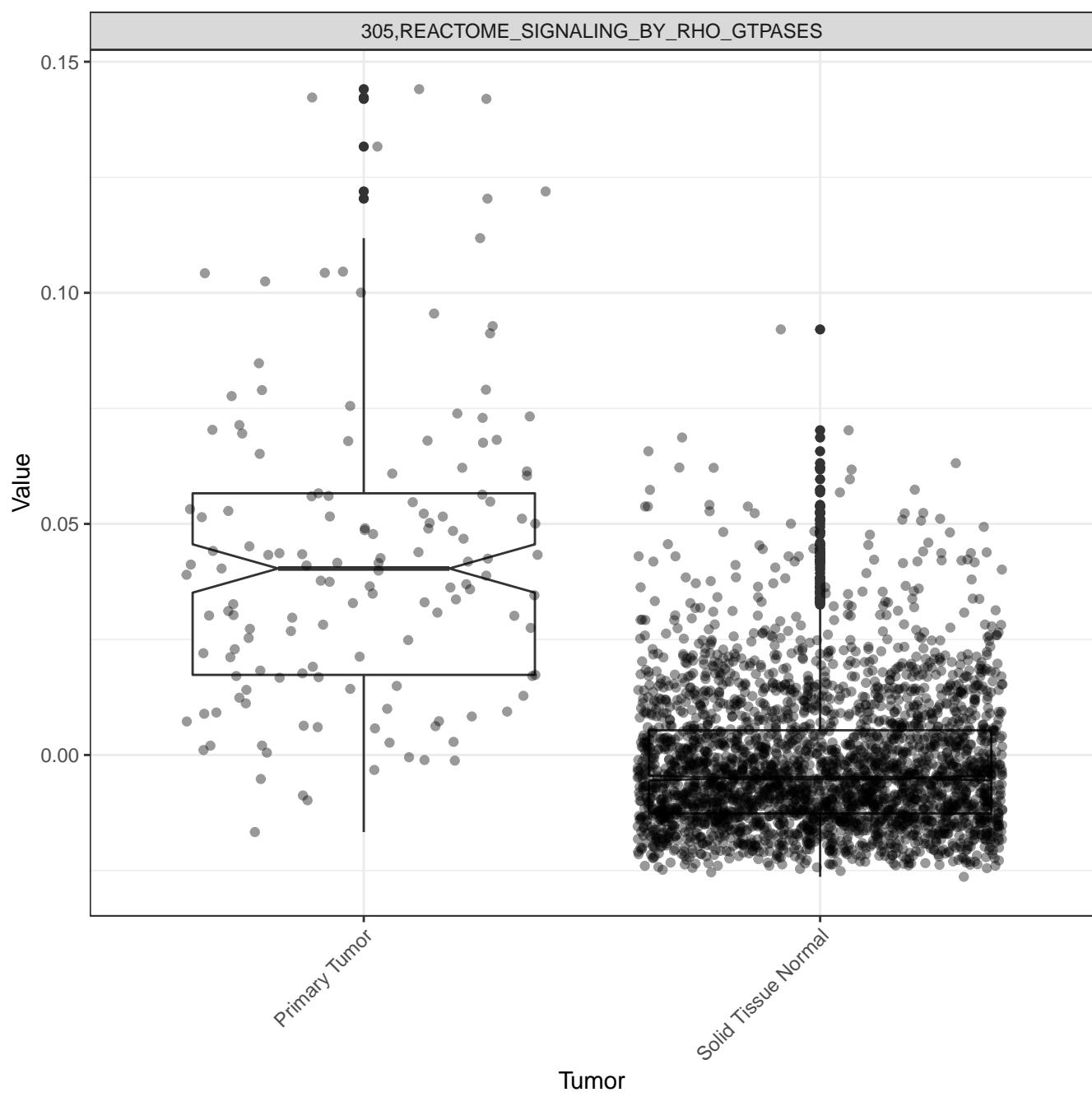
### 303,MIPS\_NOP56P\_ASSOCIATED\_PRE\_RRNA\_COMPLEX



## 304,IRIS\_DendriticCell-Control

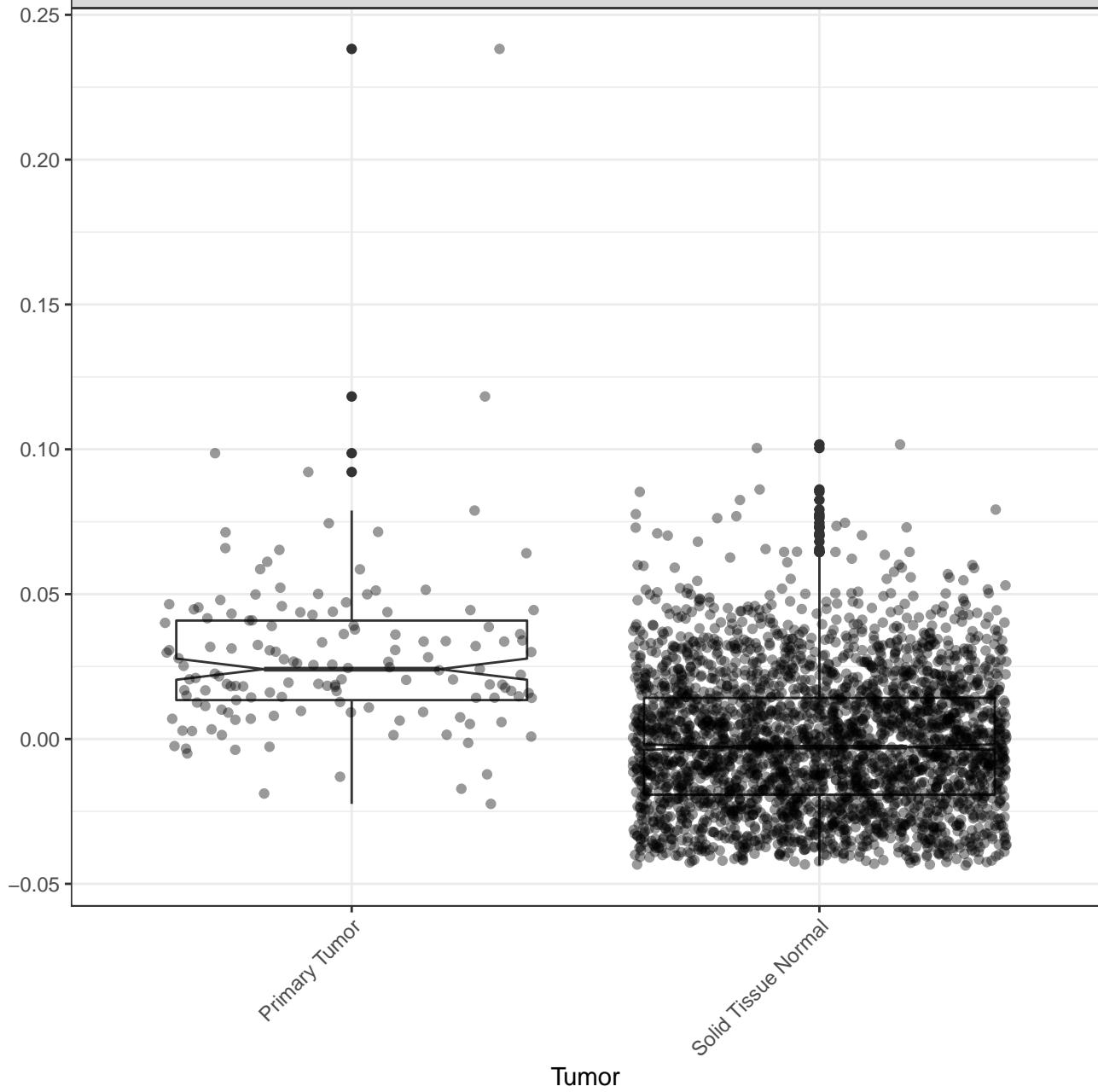


### 305,REACTOME\_SIGNALING\_BY\_RHO\_GTPASES

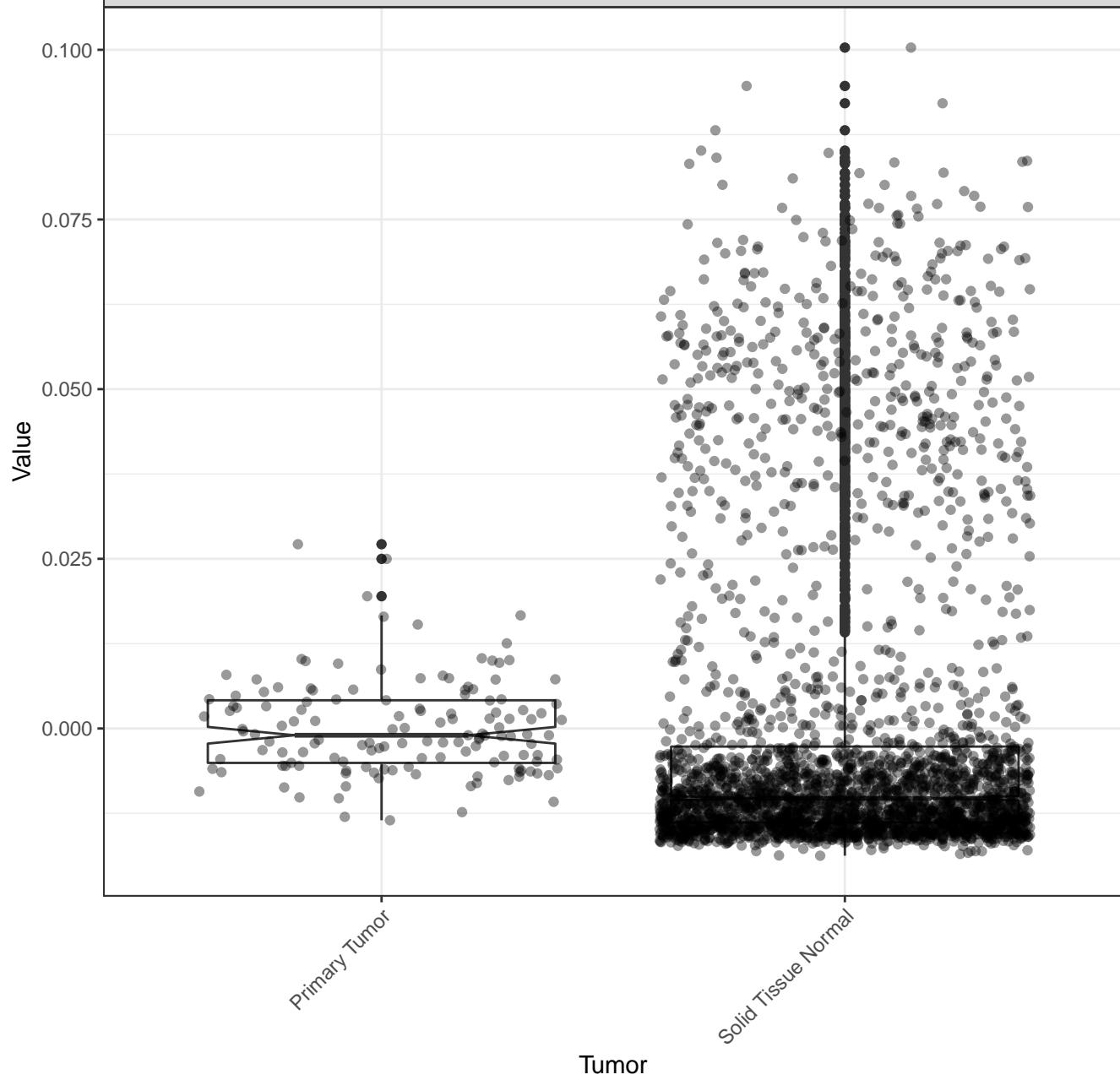


LV 306

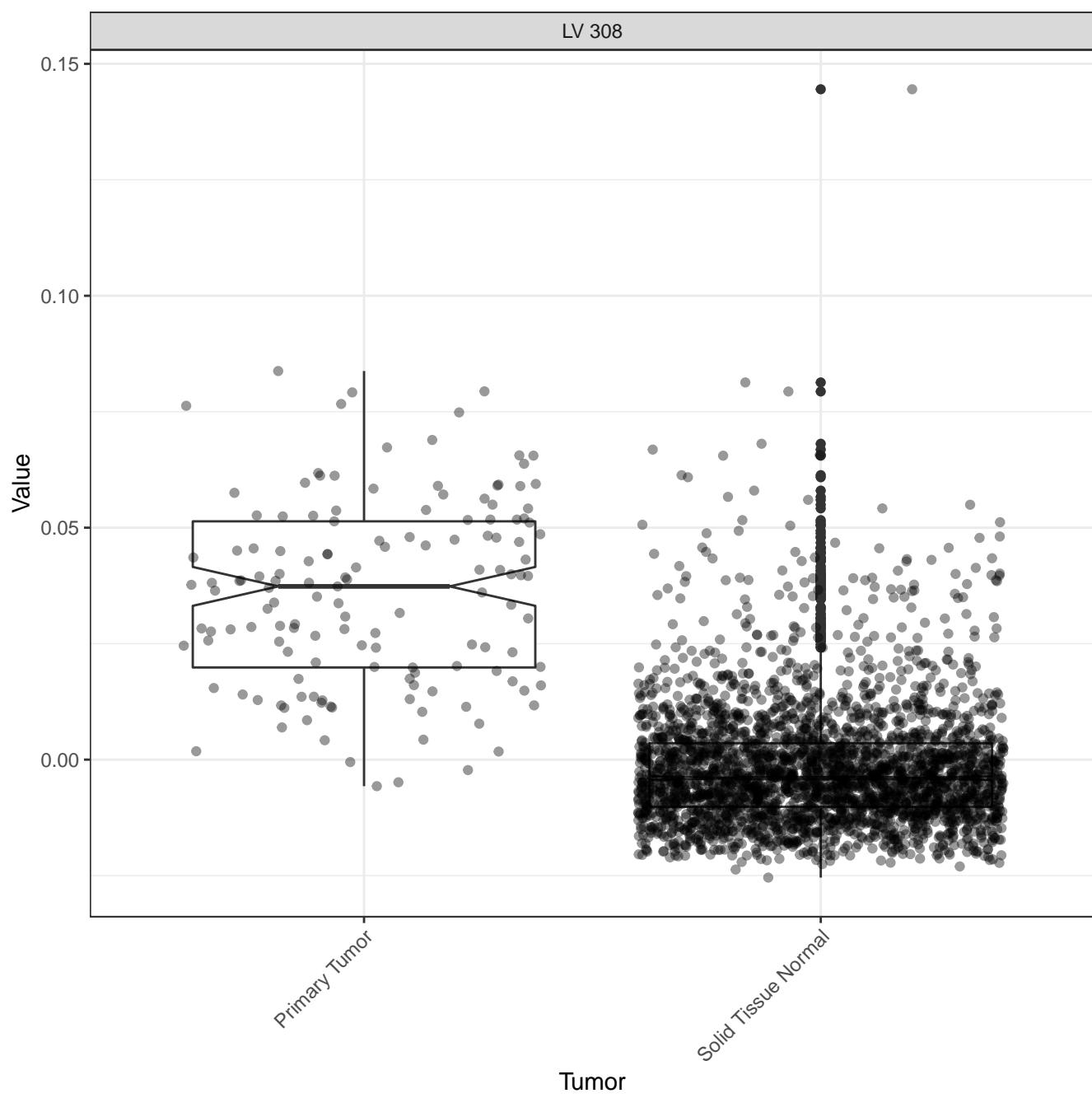
Value



E\_NEUROTRANSMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSY



LV 308



Value

0.15

0.10

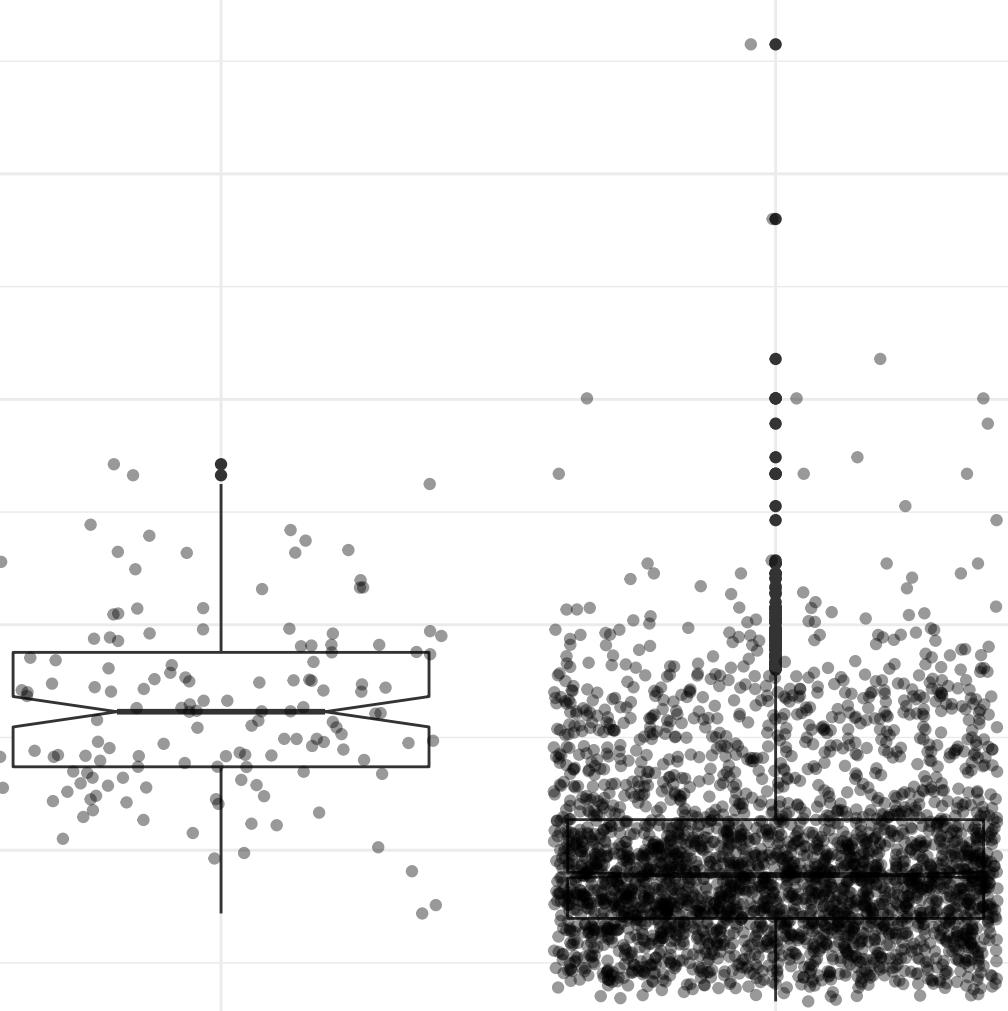
0.05

0.00

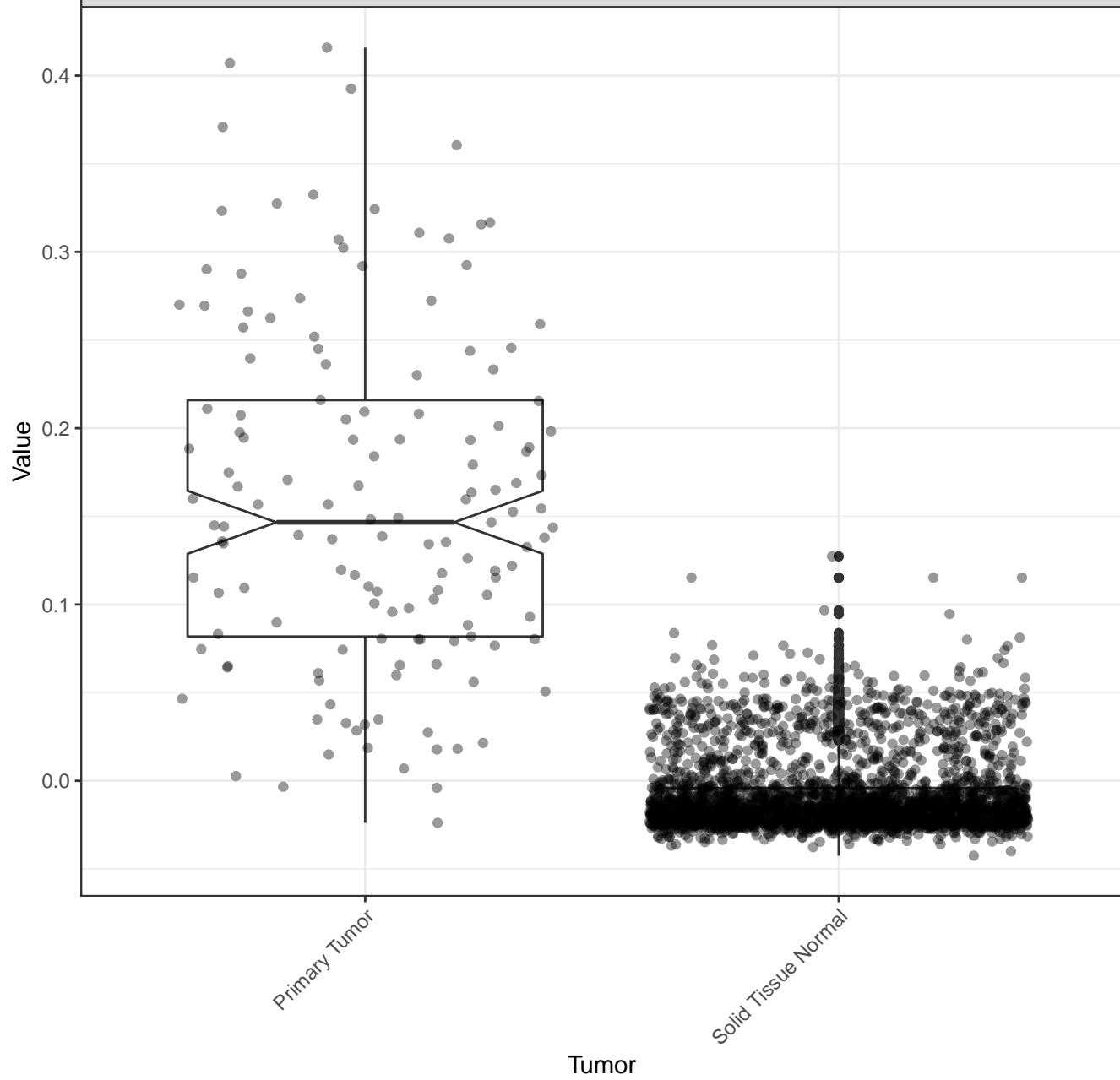
Primary Tumor

Solid Tissue Normal

Tumor



### 310,REACTOME\_DNA\_REPLICATION



### 311,REACTOME\_METABOLISM\_OF\_PROTEINS

Value

0.10

0.05

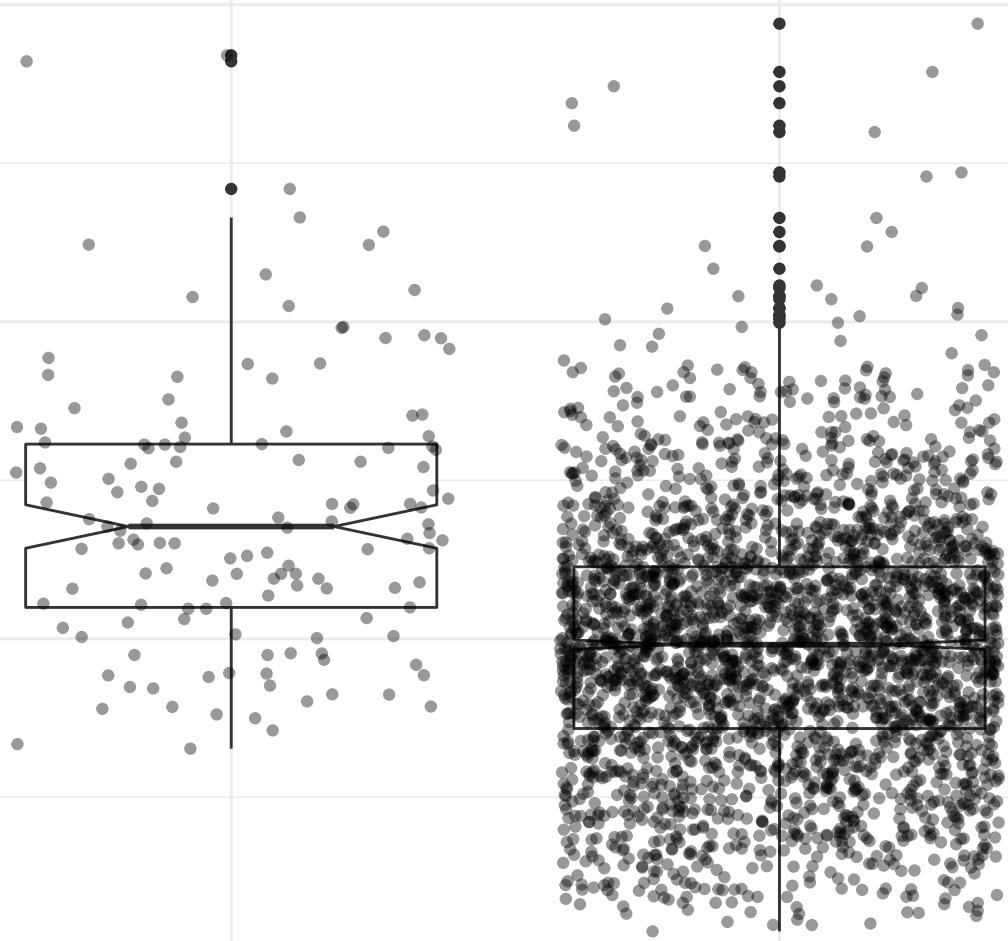
0.00

-0.05

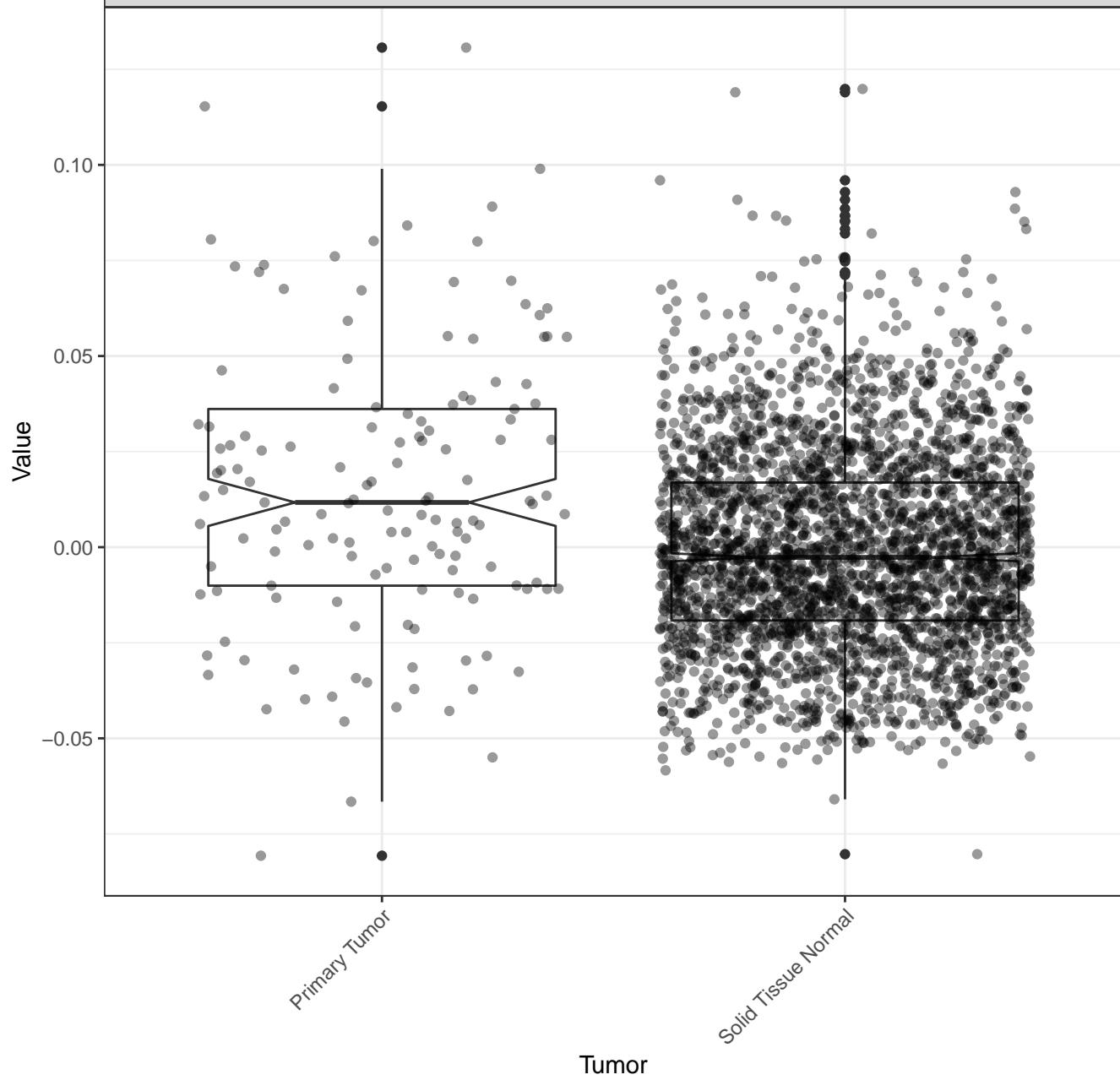
Primary Tumor

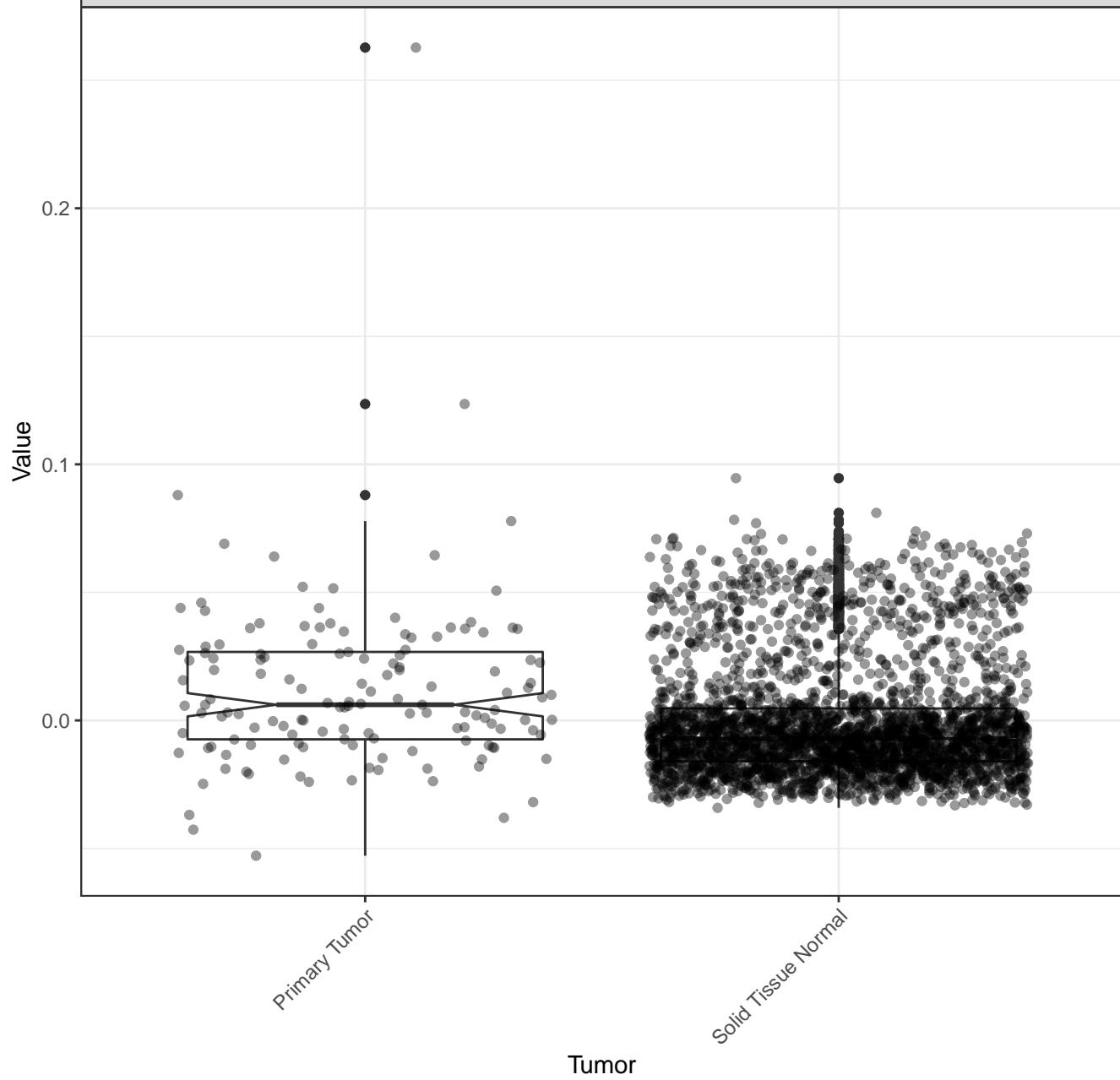
Solid Tissue Normal

Tumor



## 312,KEGG\_PEROXISOME





Value

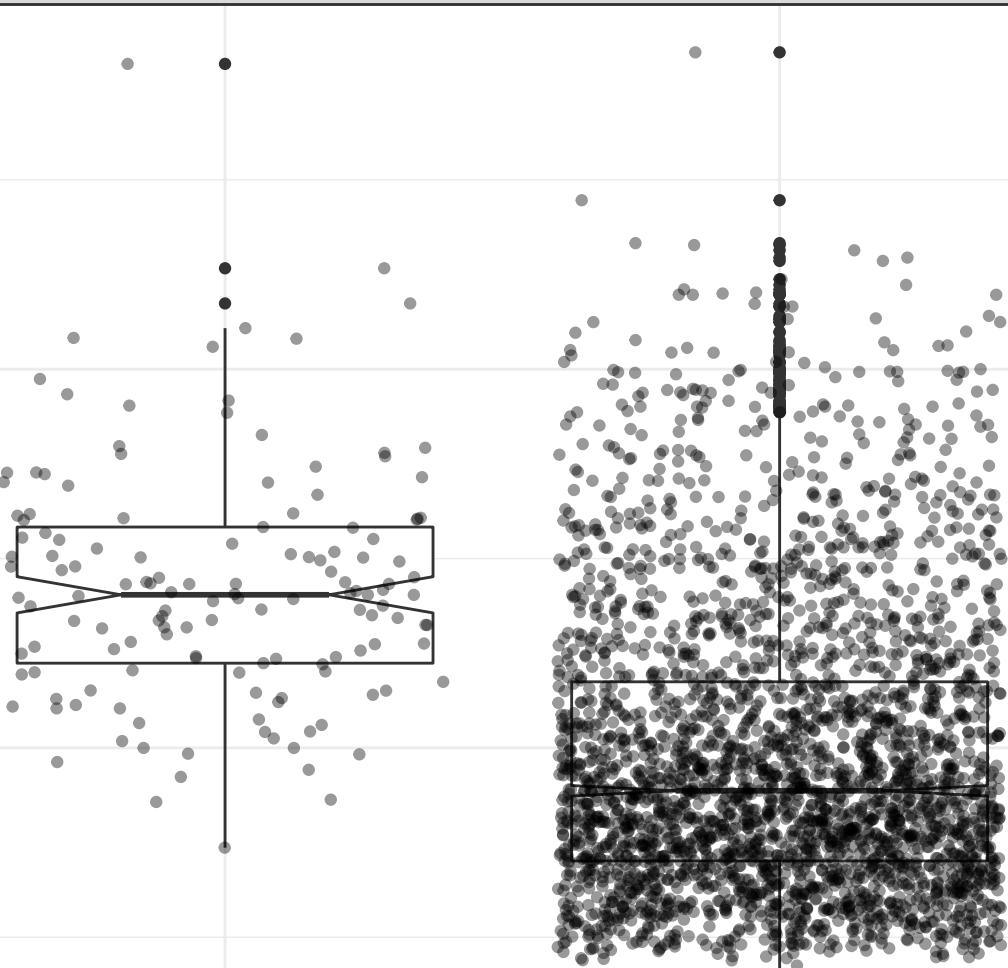
0.05

0.00

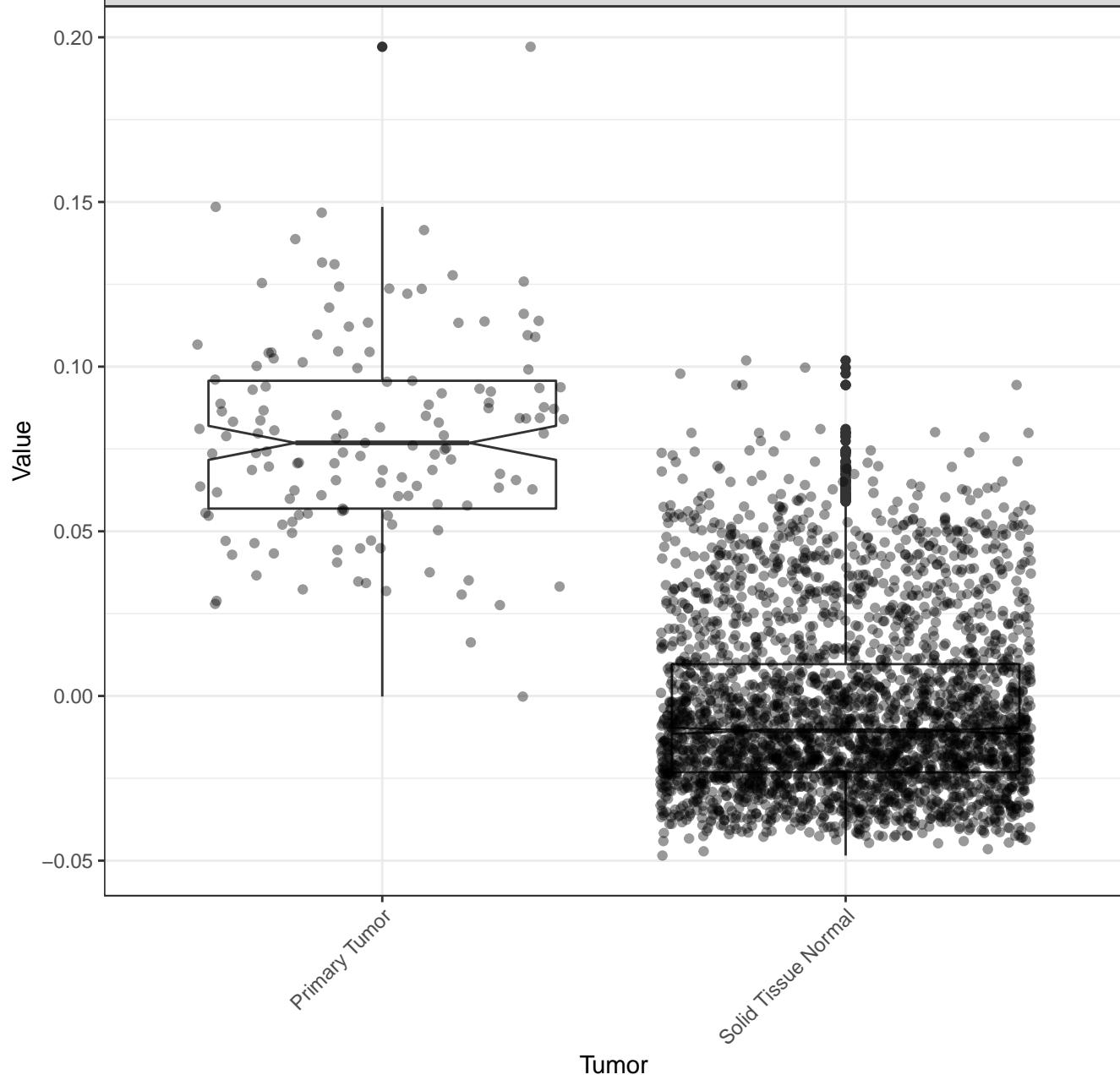
Primary Tumor

Solid Tissue Normal

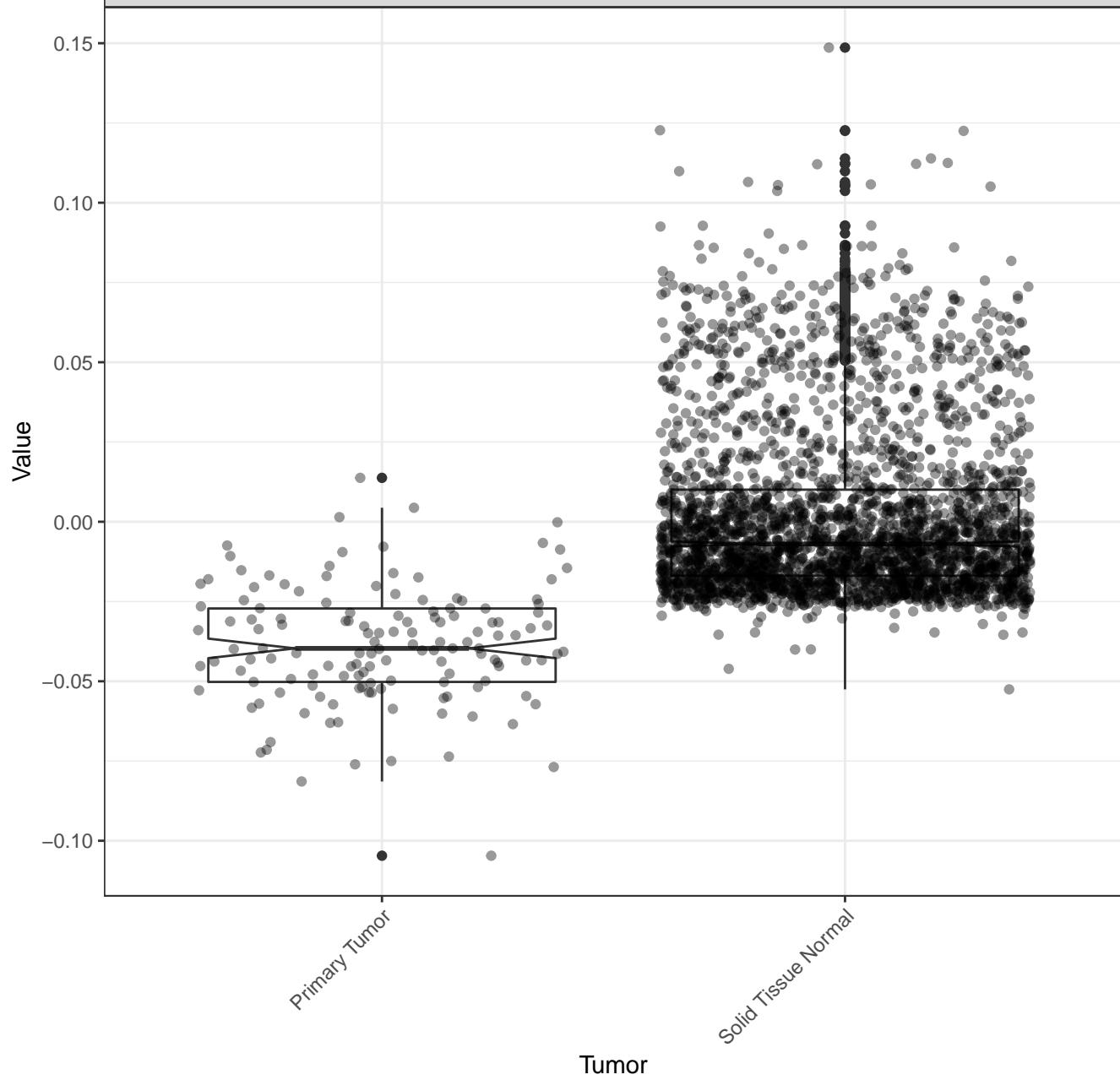
Tumor



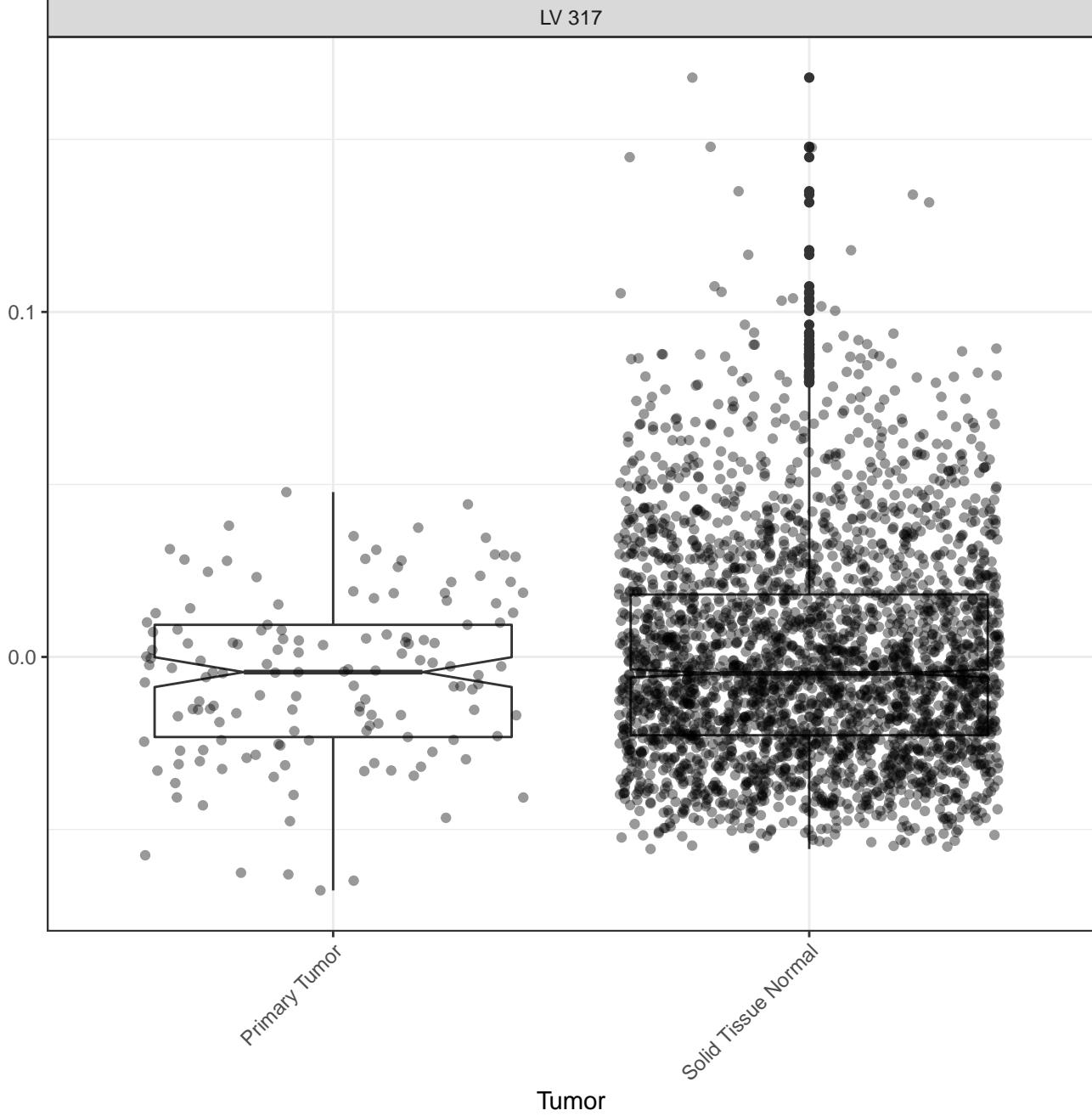
315,REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION



### 316,KEGG\_MAPK\_SIGNALING\_PATHWAY



Value



Value

0.2

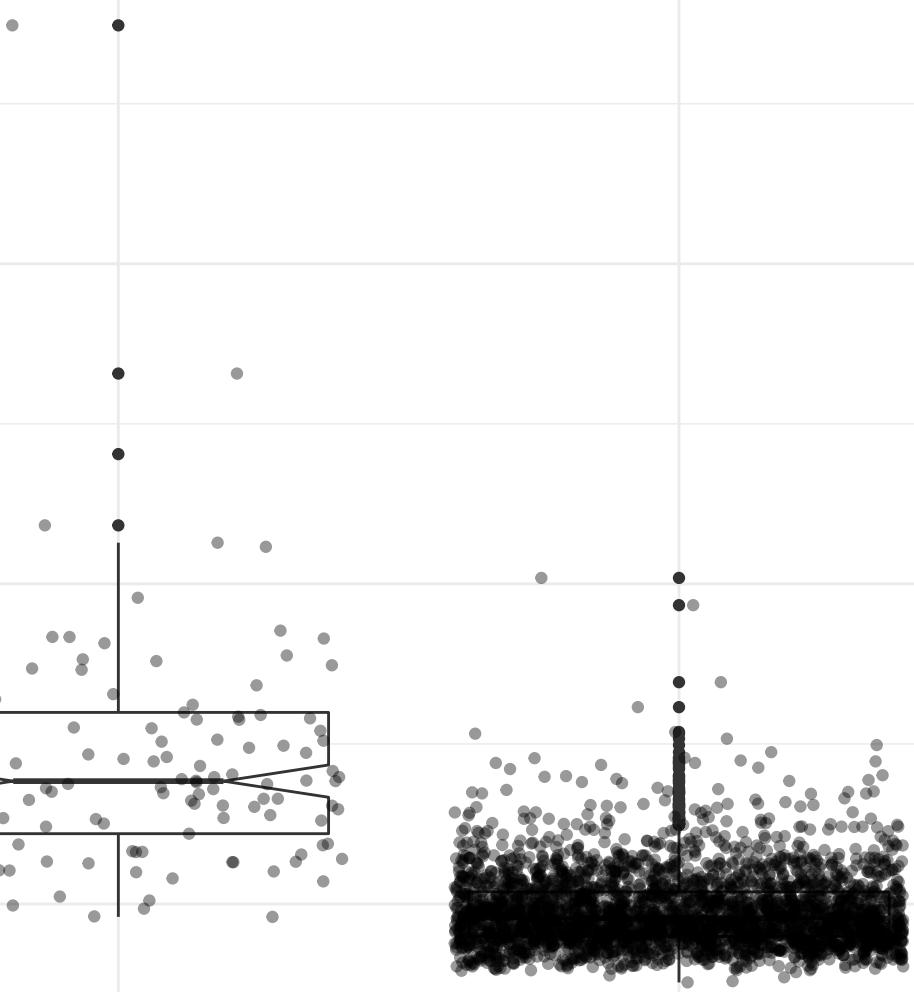
0.1

0.0

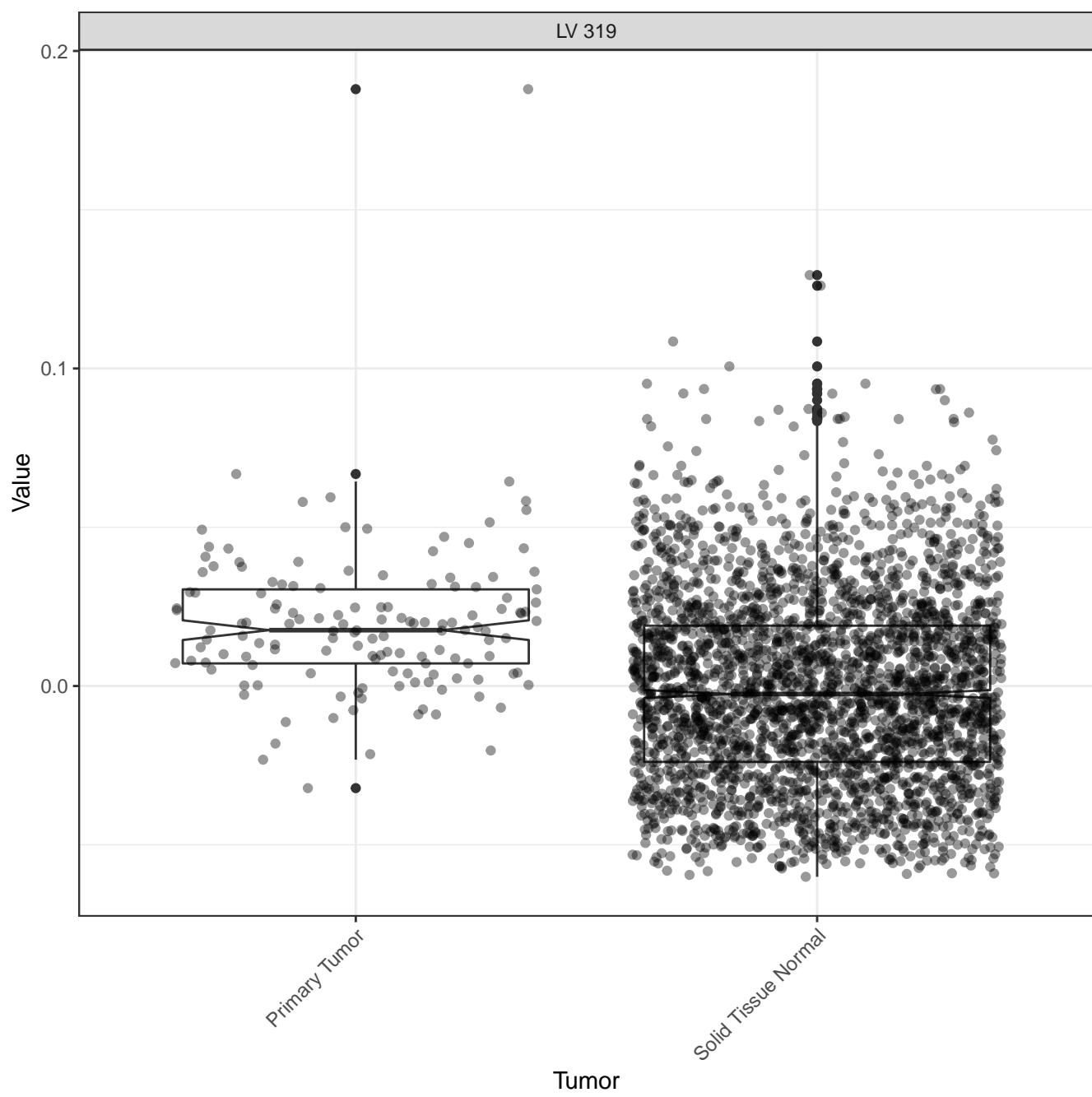
Primary Tumor

Solid Tissue Normal

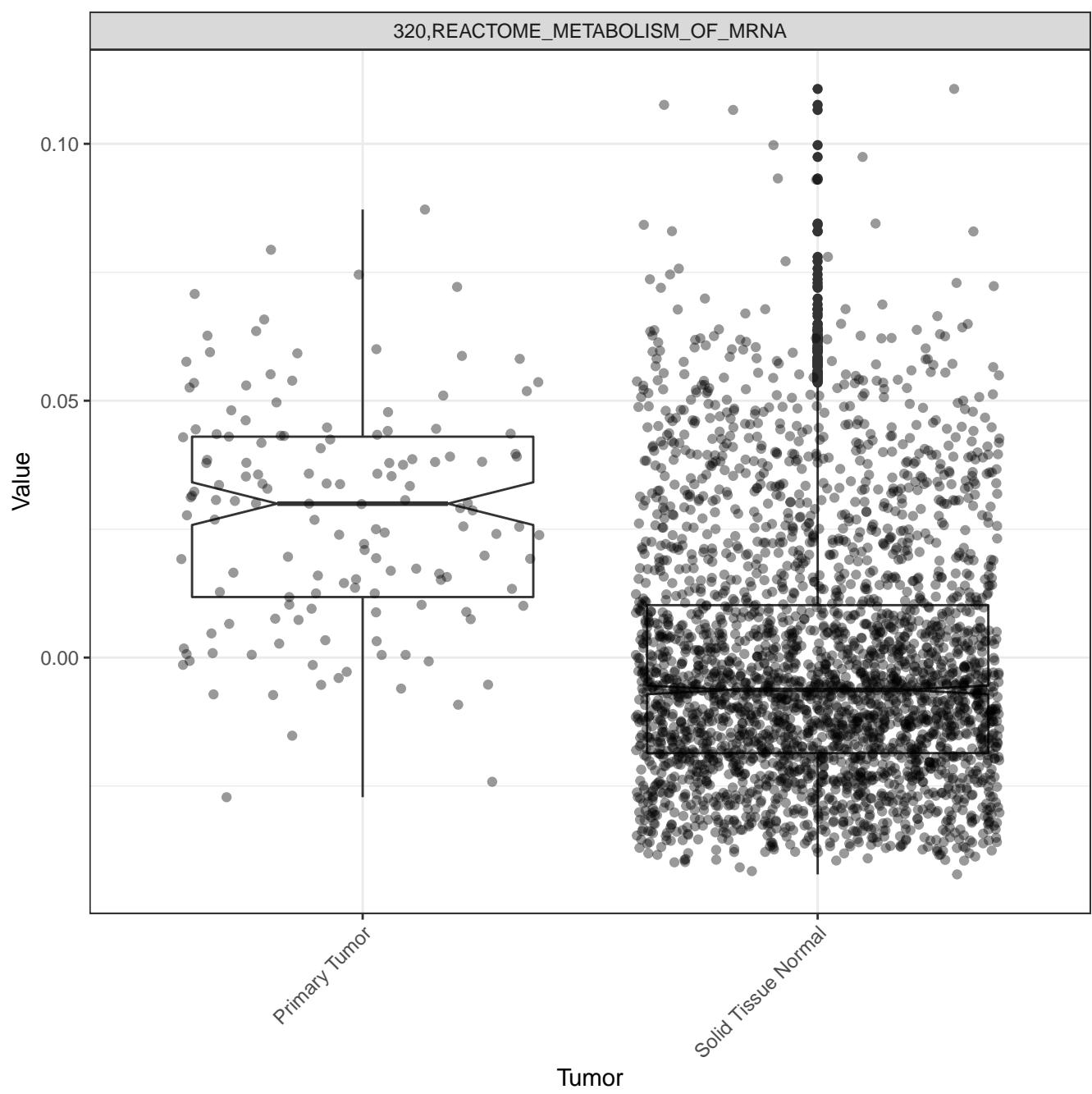
Tumor



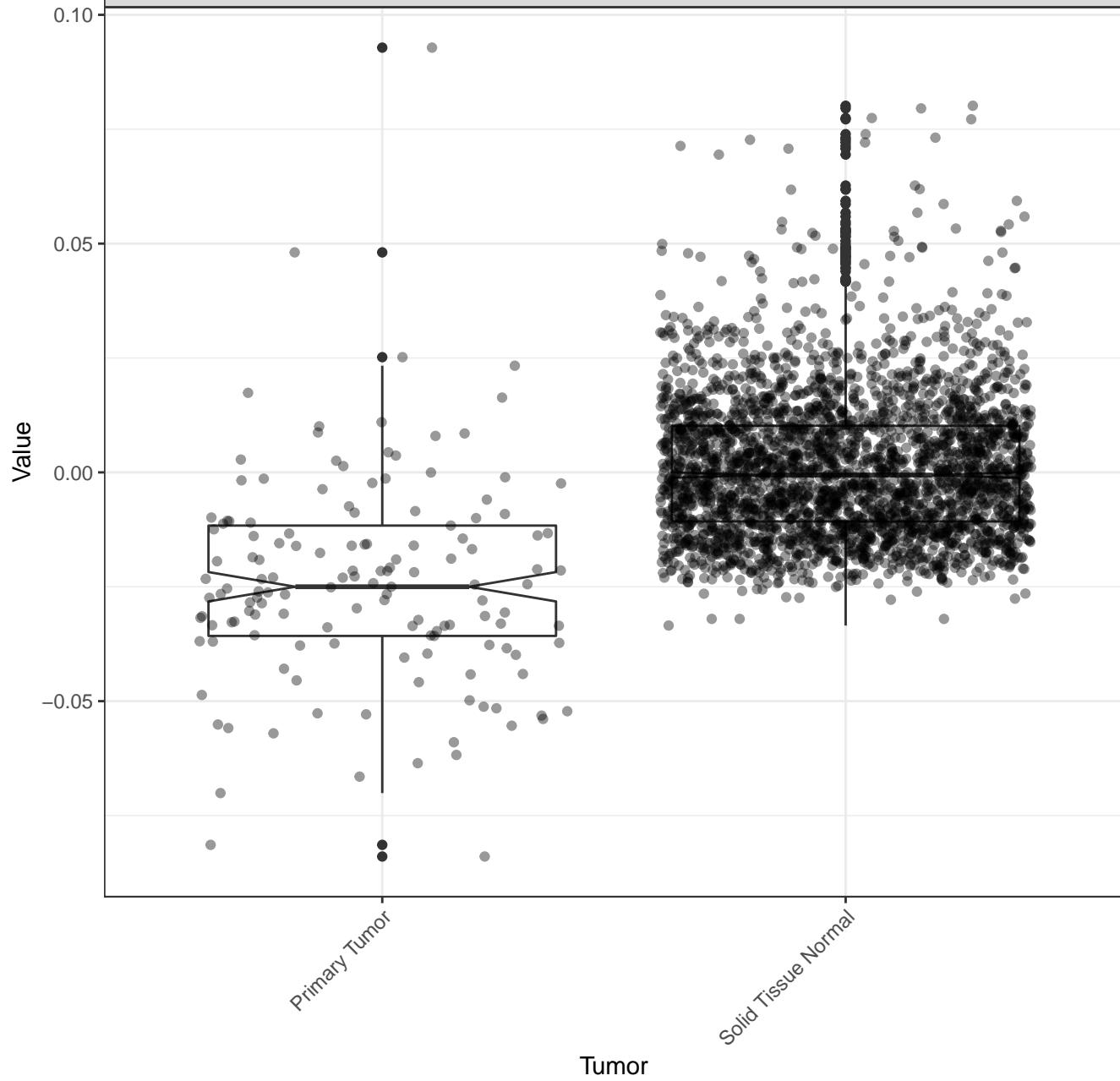
LV 319



## 320,REACTOME\_METABOLISM\_OF\_MRNA



### 321,KEGG\_VASCULAR\_SMOOTH\_MUSCLE\_CONTRACTION



LV 322

Value

0.3

0.2

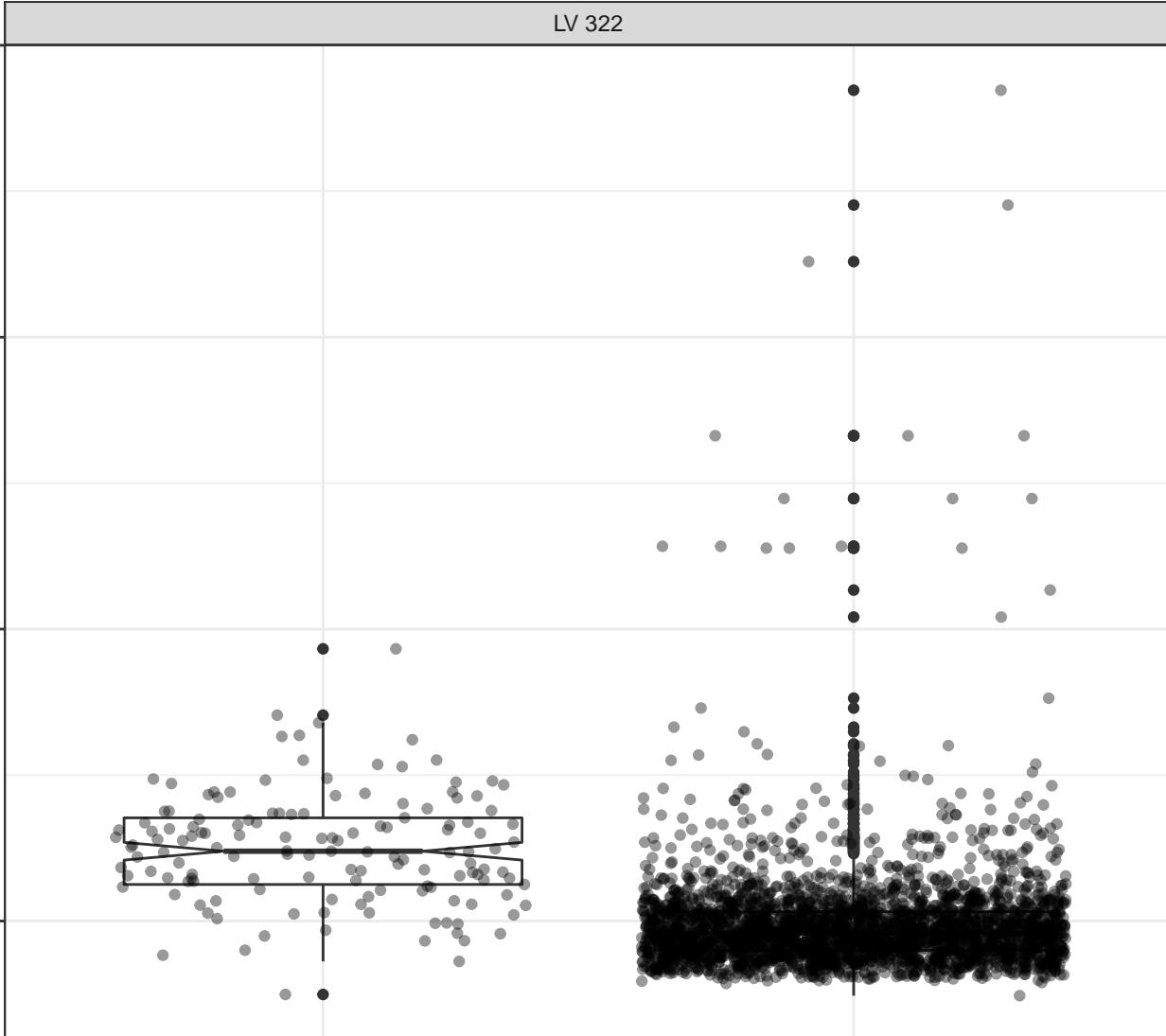
0.1

0.0

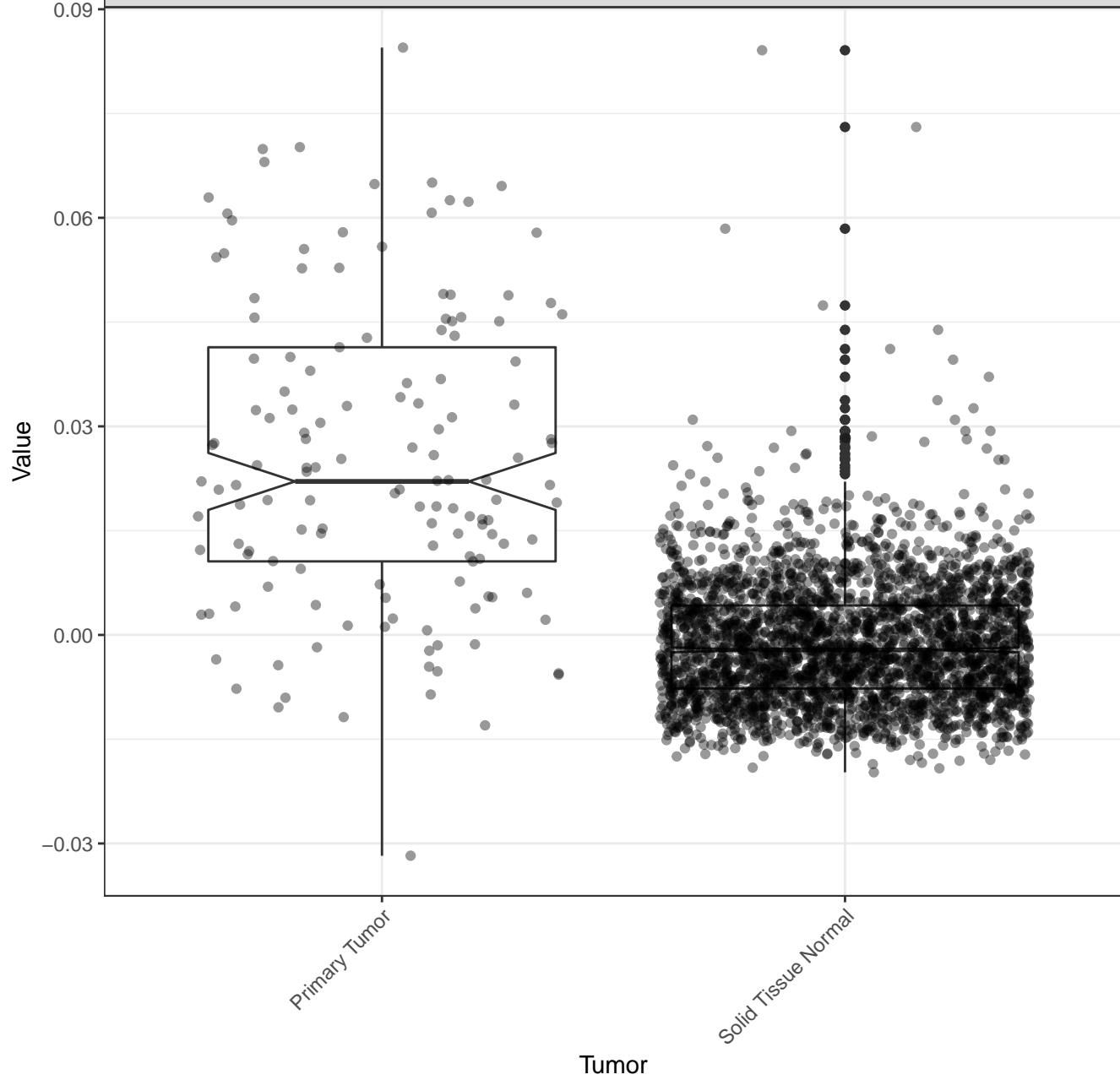
Primary Tumor

Solid Tissue Normal

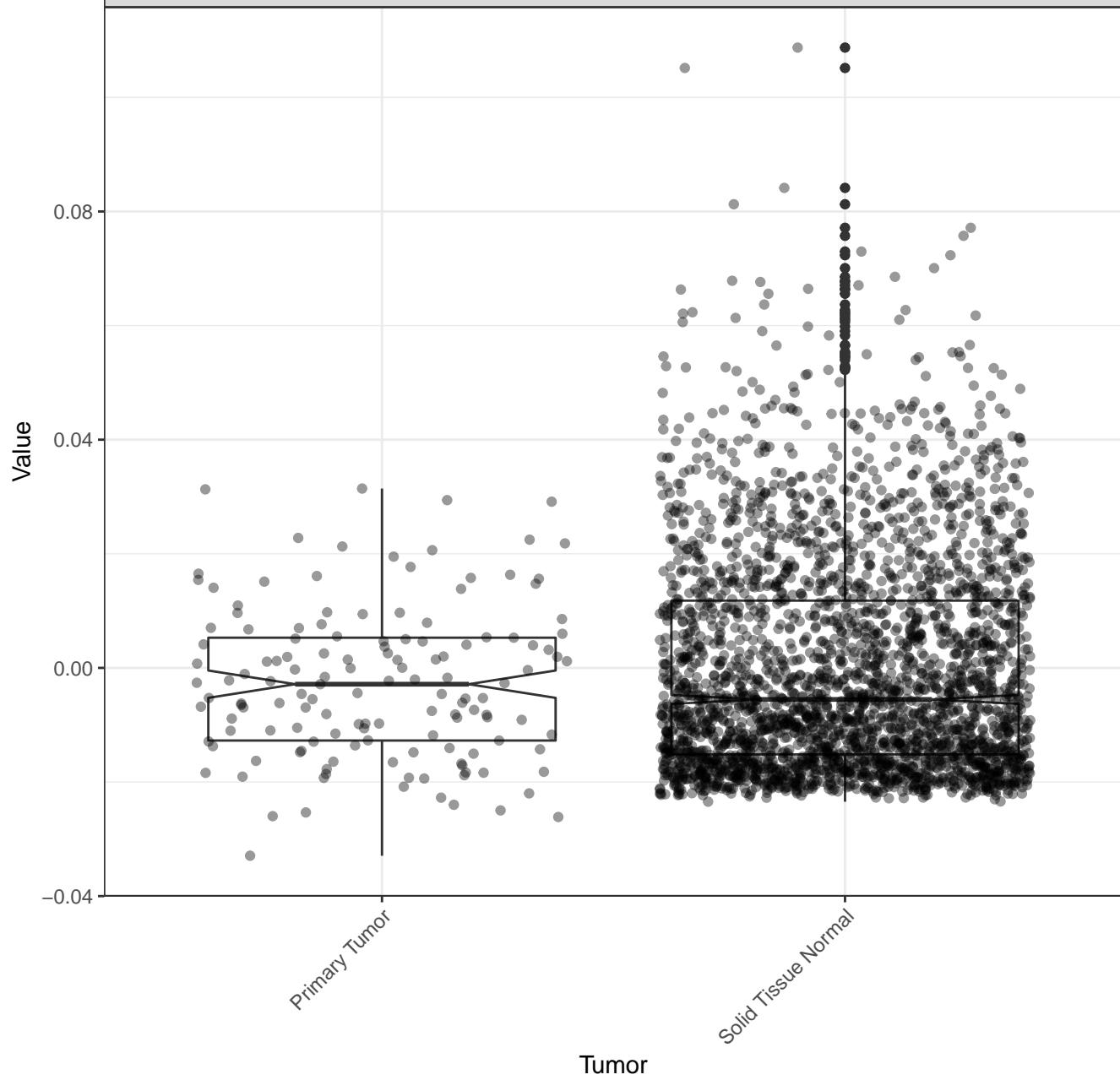
Tumor



## 323,KEGG\_LYSOSOME



## 324,REACTOME\_PI\_METABOLISM



## 325,REACTOME\_NEURONAL\_SYSTEM

Value

0.10

0.05

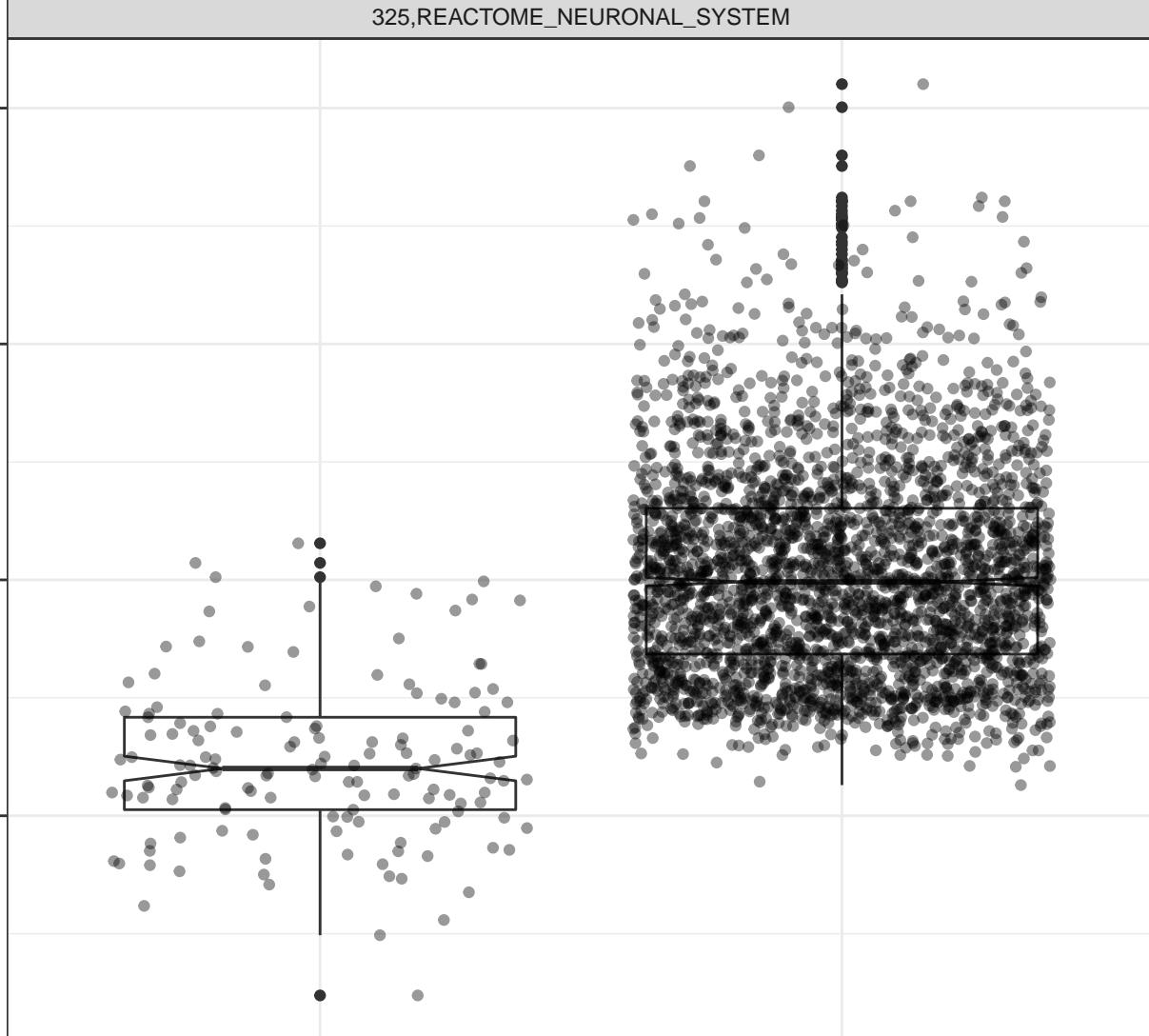
0.00

-0.05

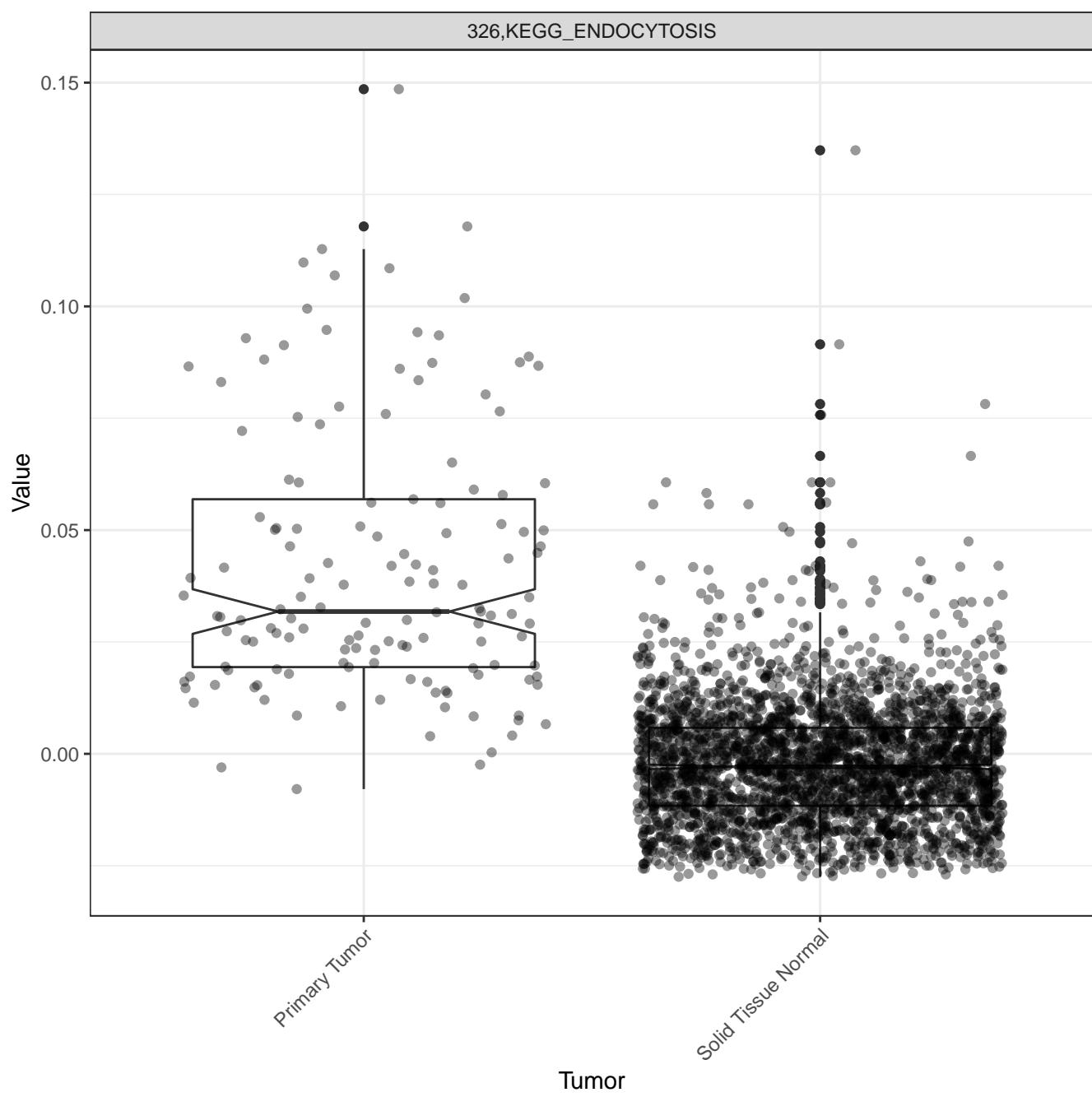
Primary Tumor

Solid Tissue Normal

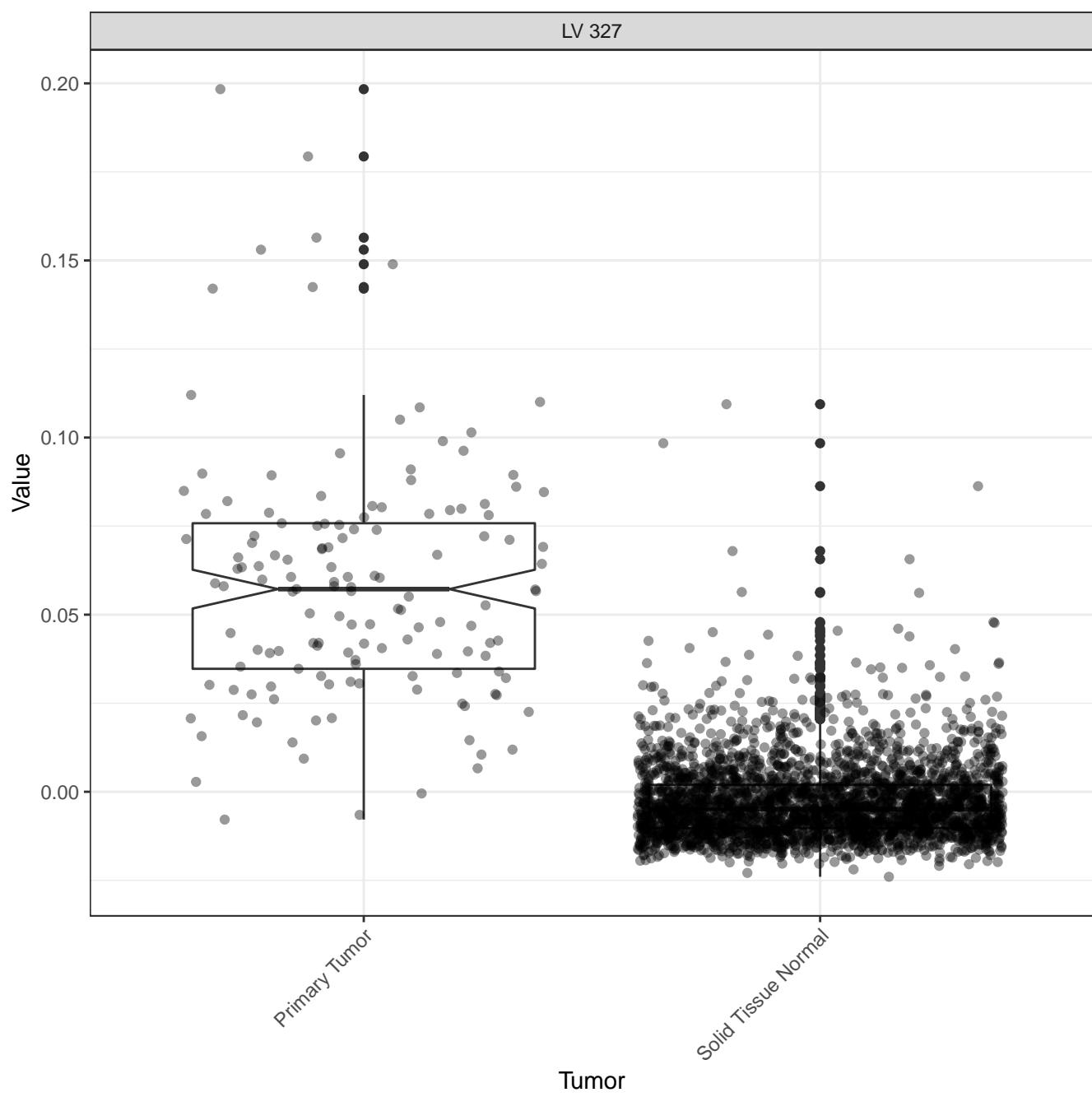
Tumor

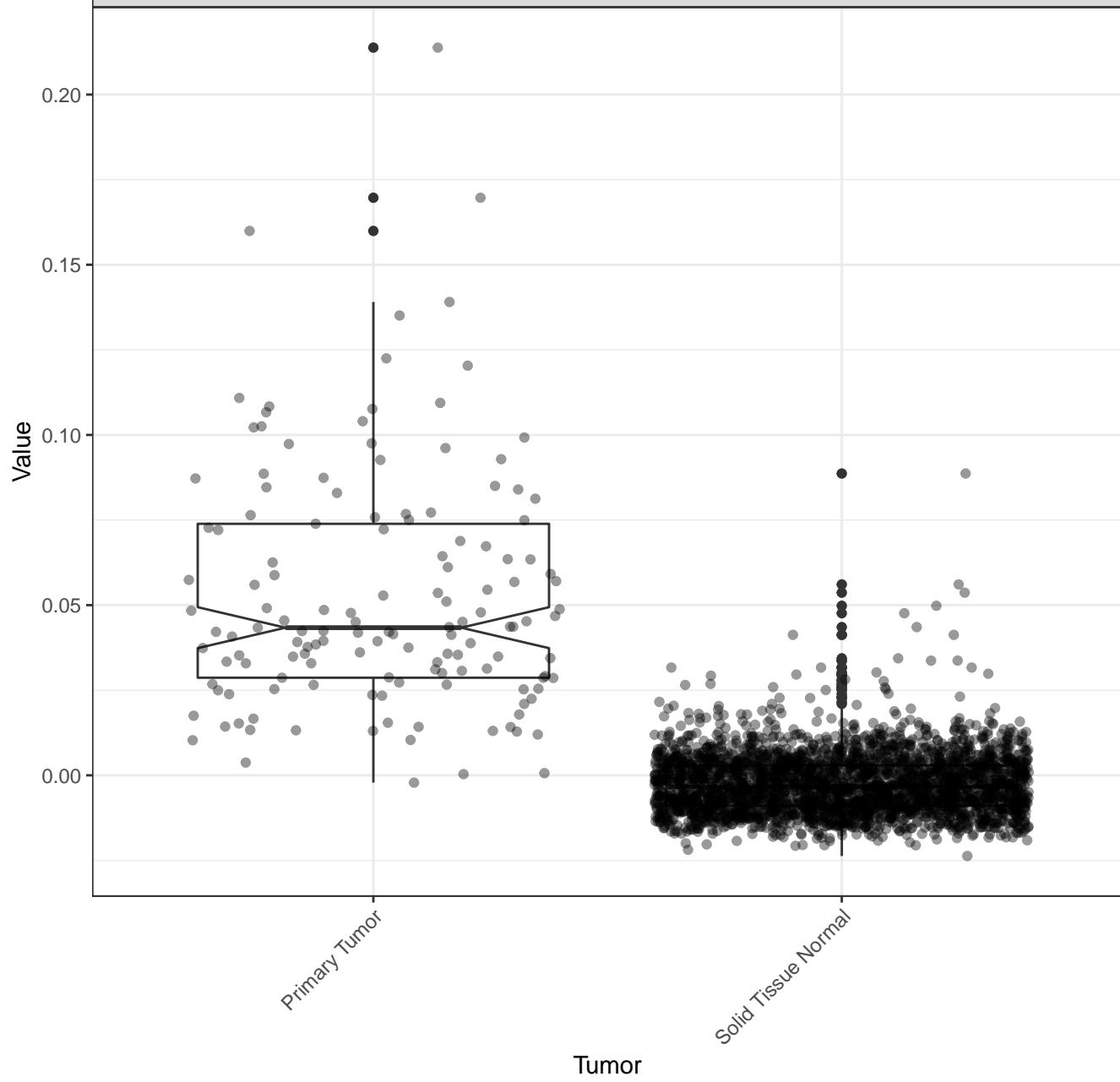


## 326,KEGG-ENDOCYTOSIS

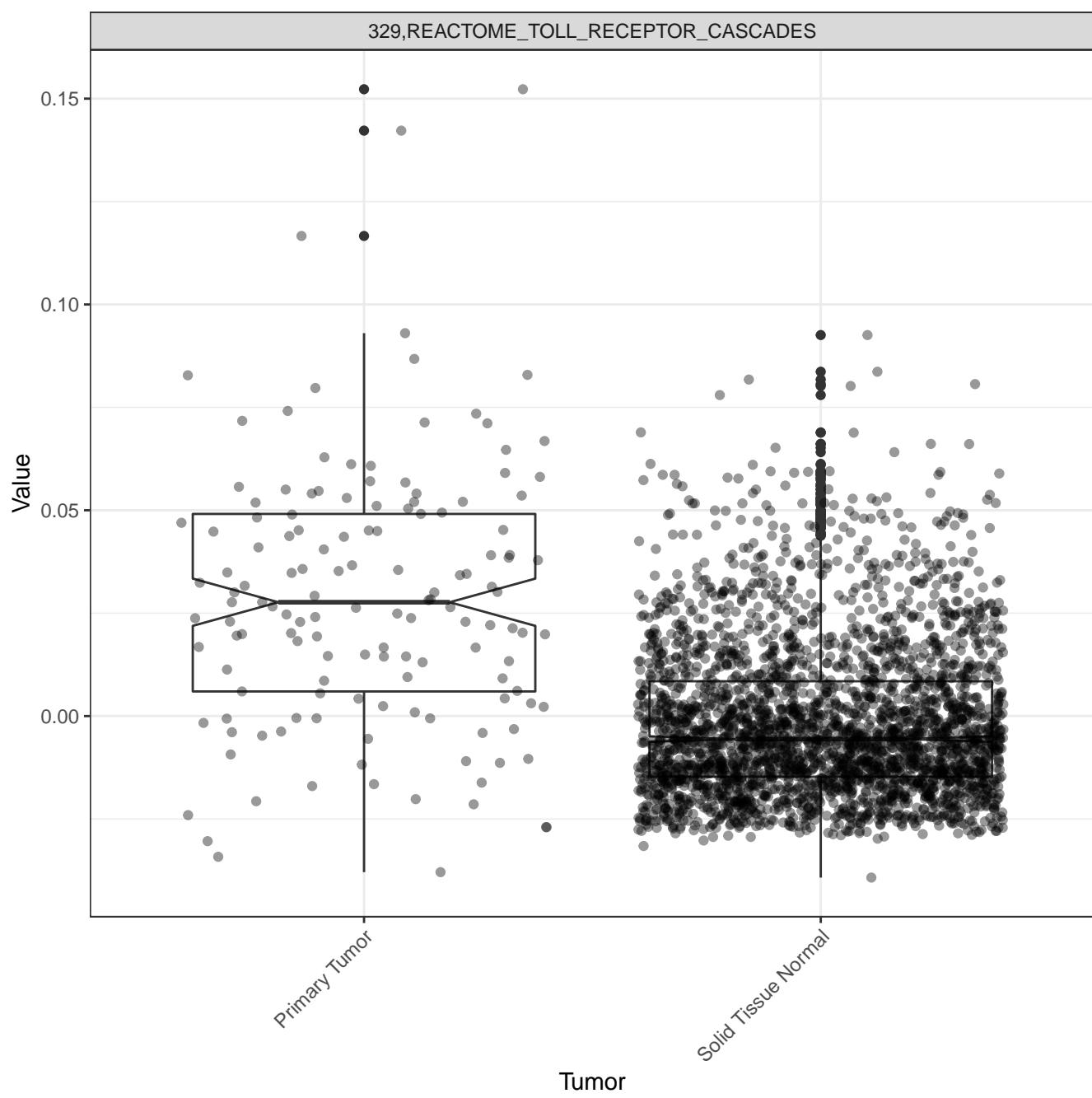


LV 327

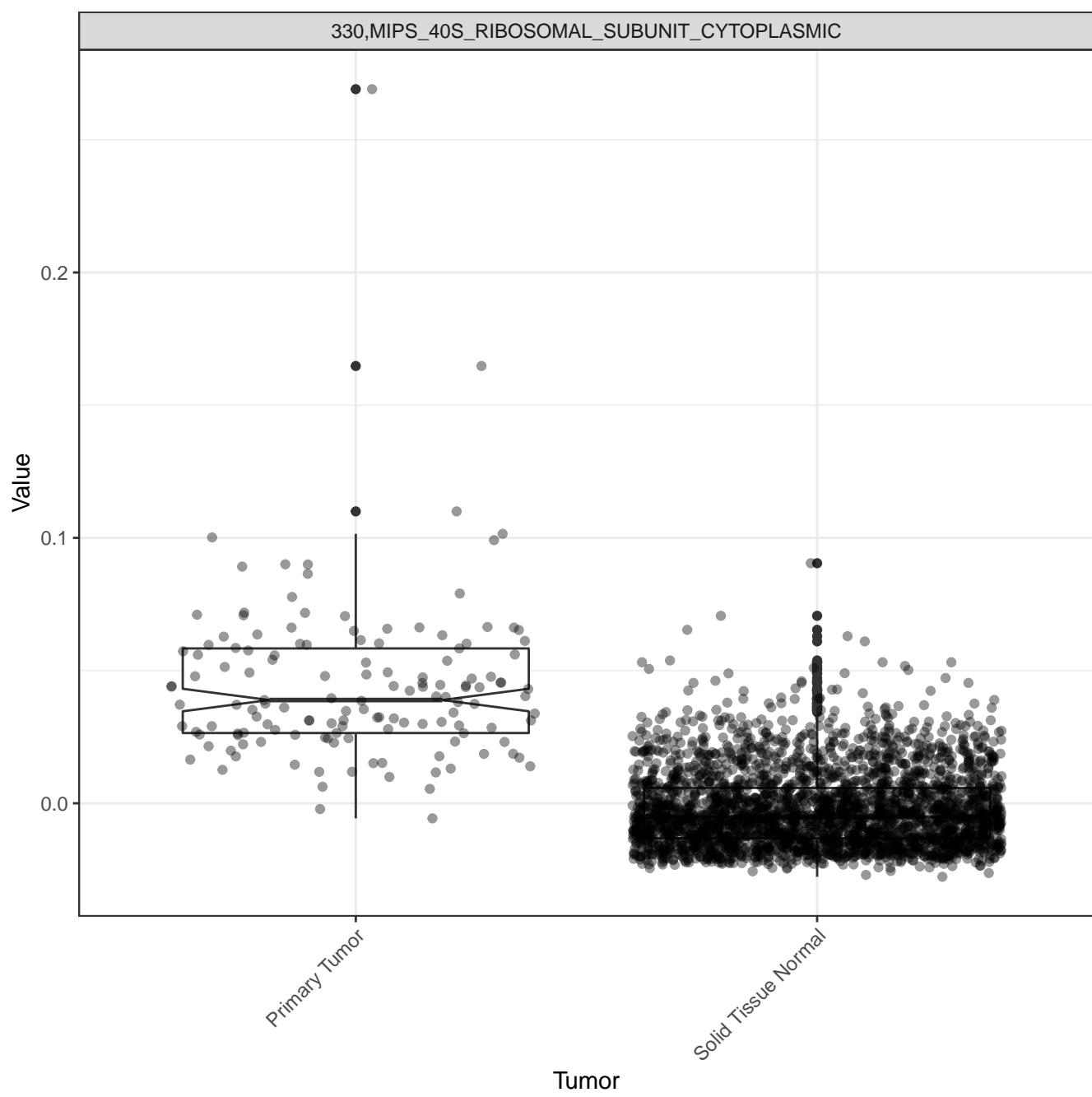




## 329,REACTOME\_TOLL\_RECEPтор\_CASCADES



330,MIPS\_40S\_RIBOSOMAL\_SUBUNIT\_CYTOPLASMIC



## 331,DMAP\_ERY3

Value

0.3

0.2

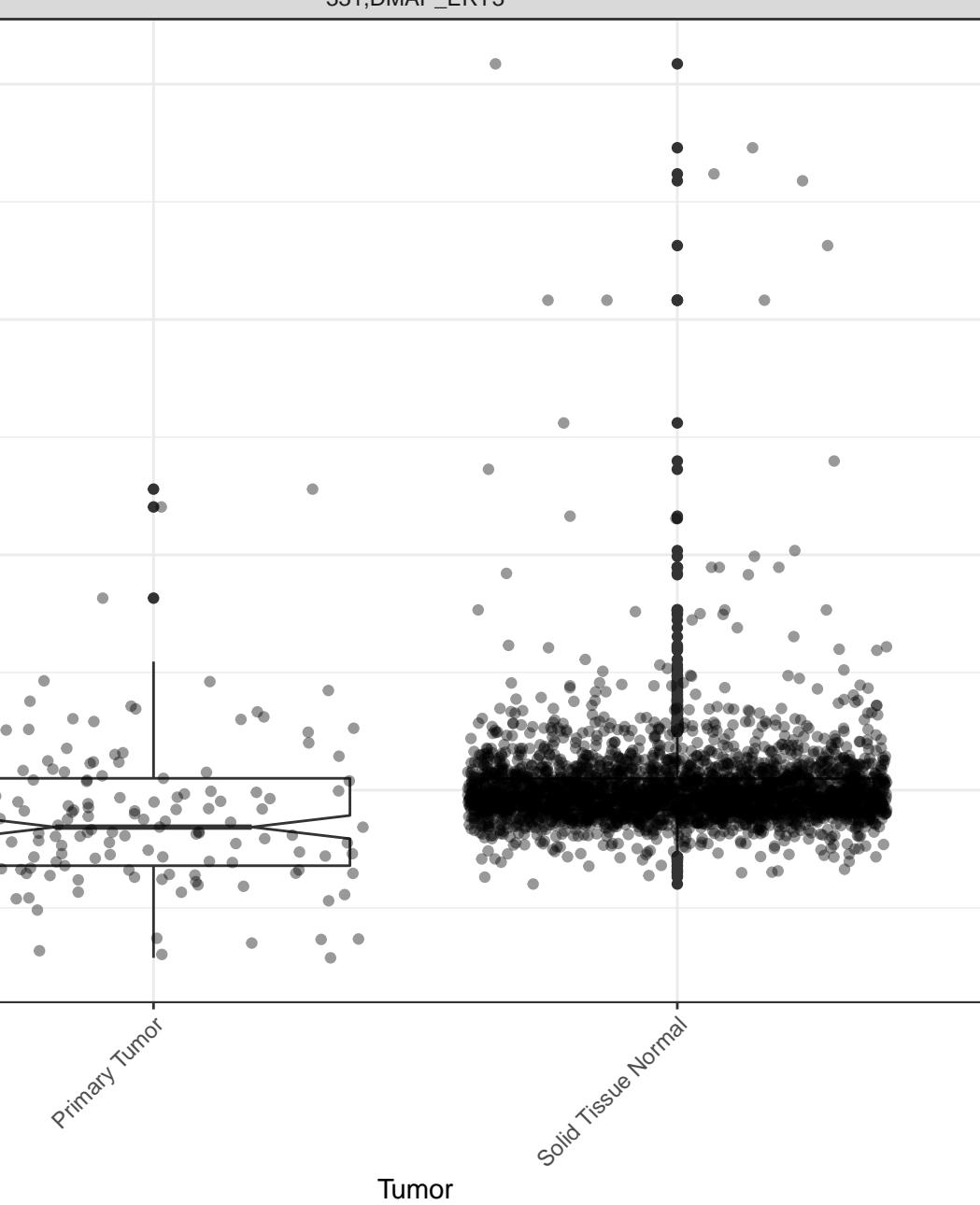
0.1

0.0

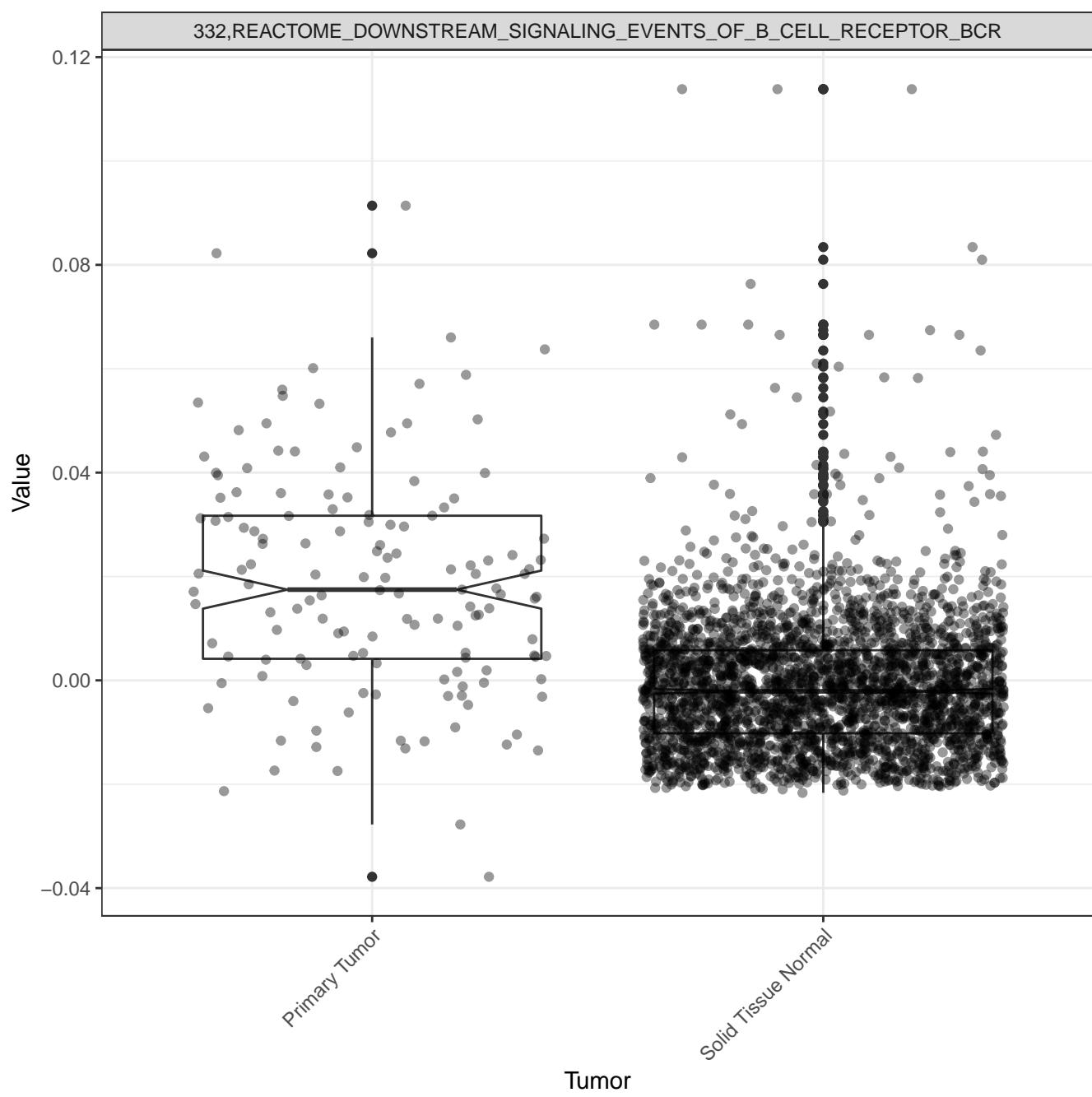
Primary Tumor

Solid Tissue Normal

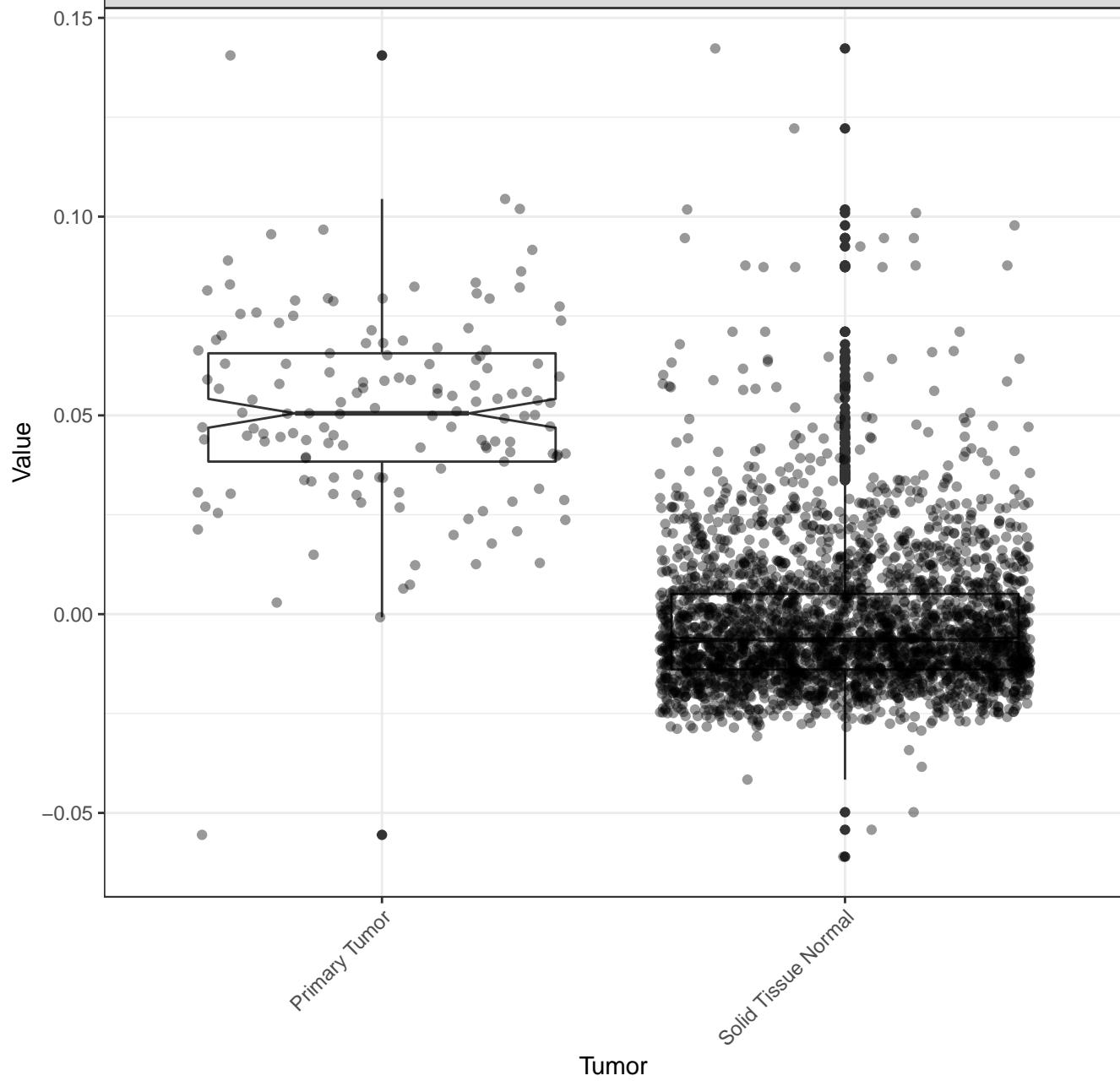
Tumor



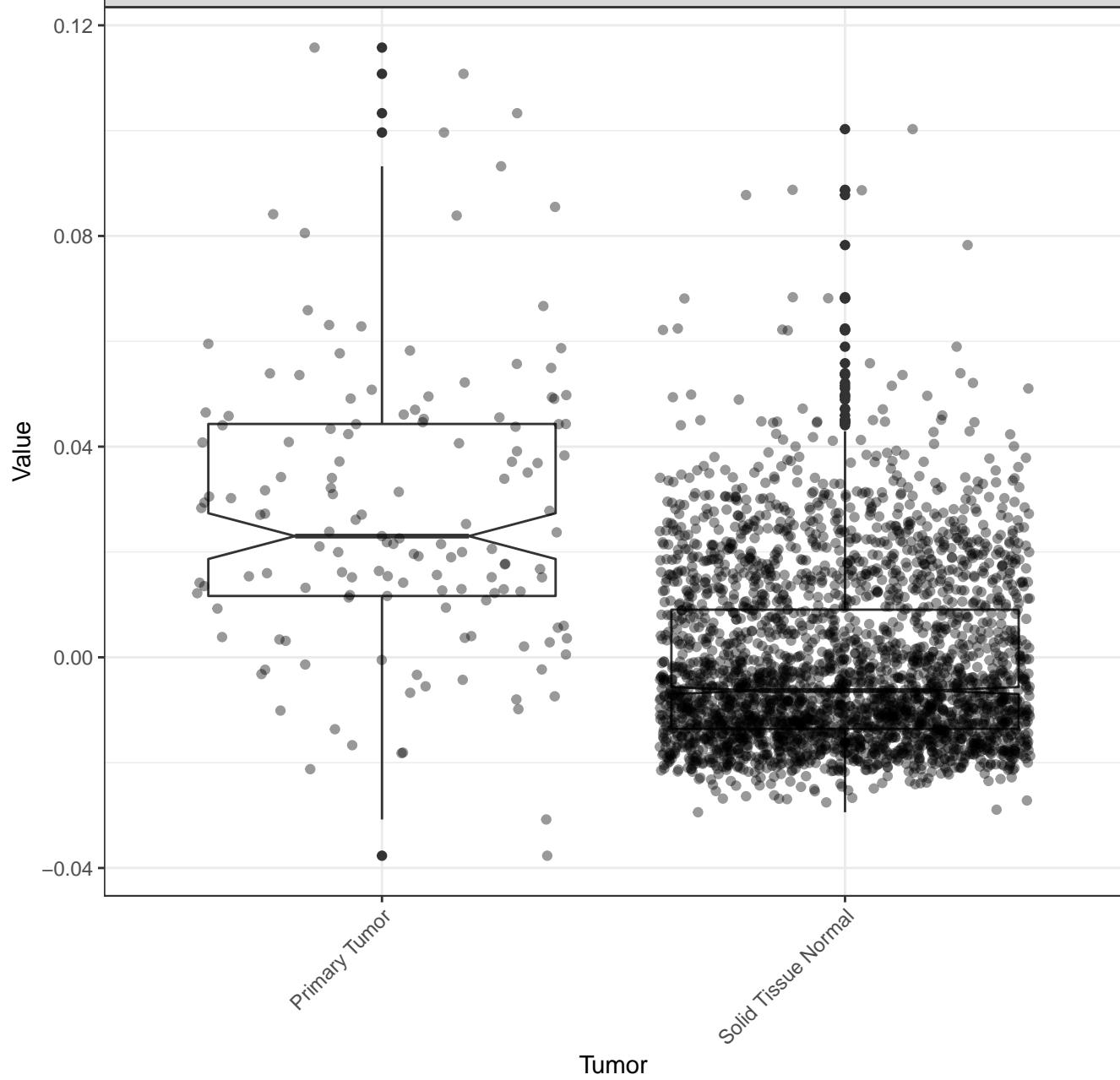
### 332,REACTOME\_DOWNSTREAM\_SIGNALING\_EVENTS\_OF\_B\_CELL\_RECEPATOR\_BCR



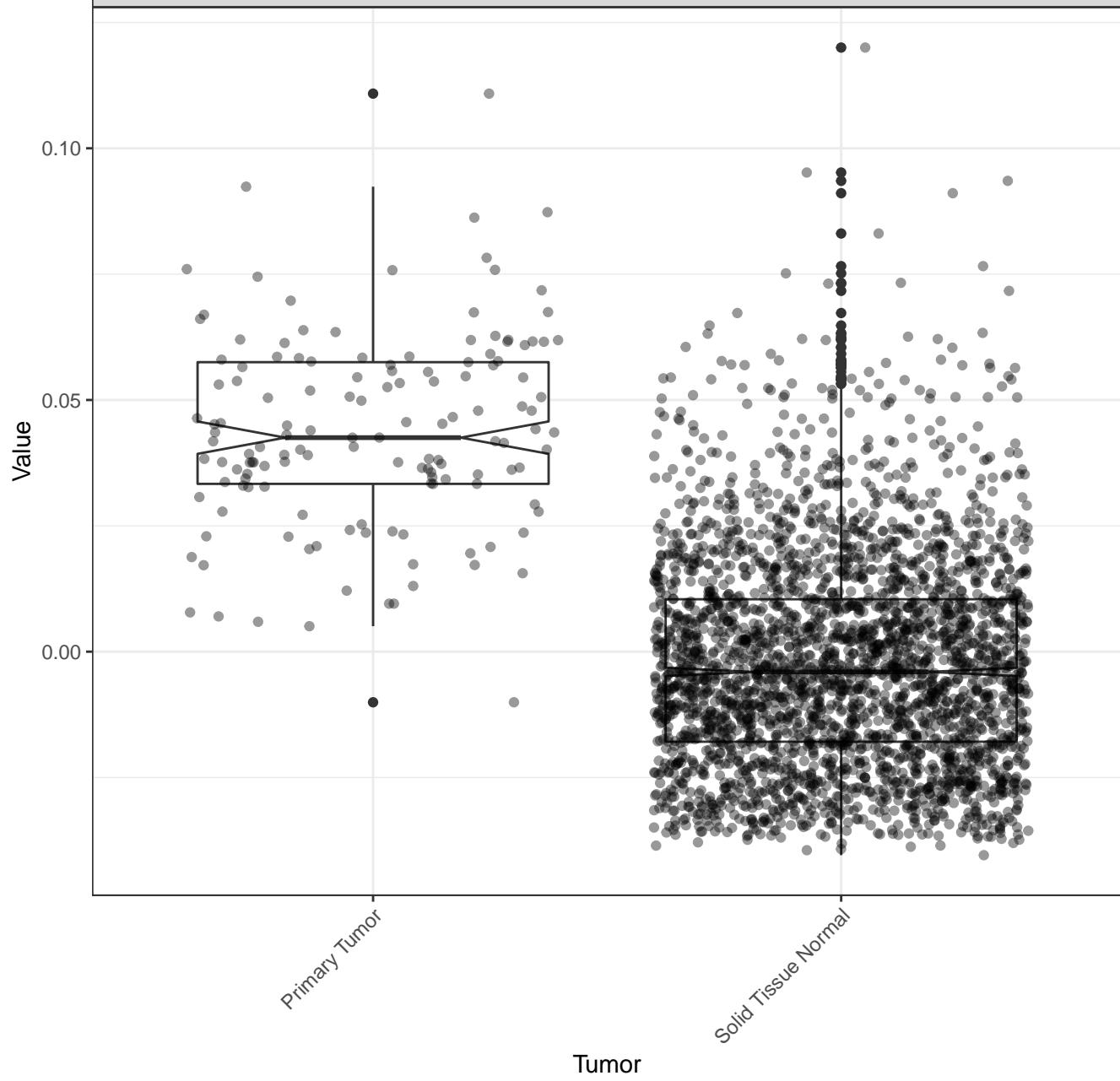
### 333,KEGG\_SYSTEMIC\_LUPUS\_ERYTHEMATOSUS



## 334,REACTOME\_AXON\_GUIDANCE



## 335,KEGG\_ADHERENS\_JUNCTION



Value

0.10

0.05

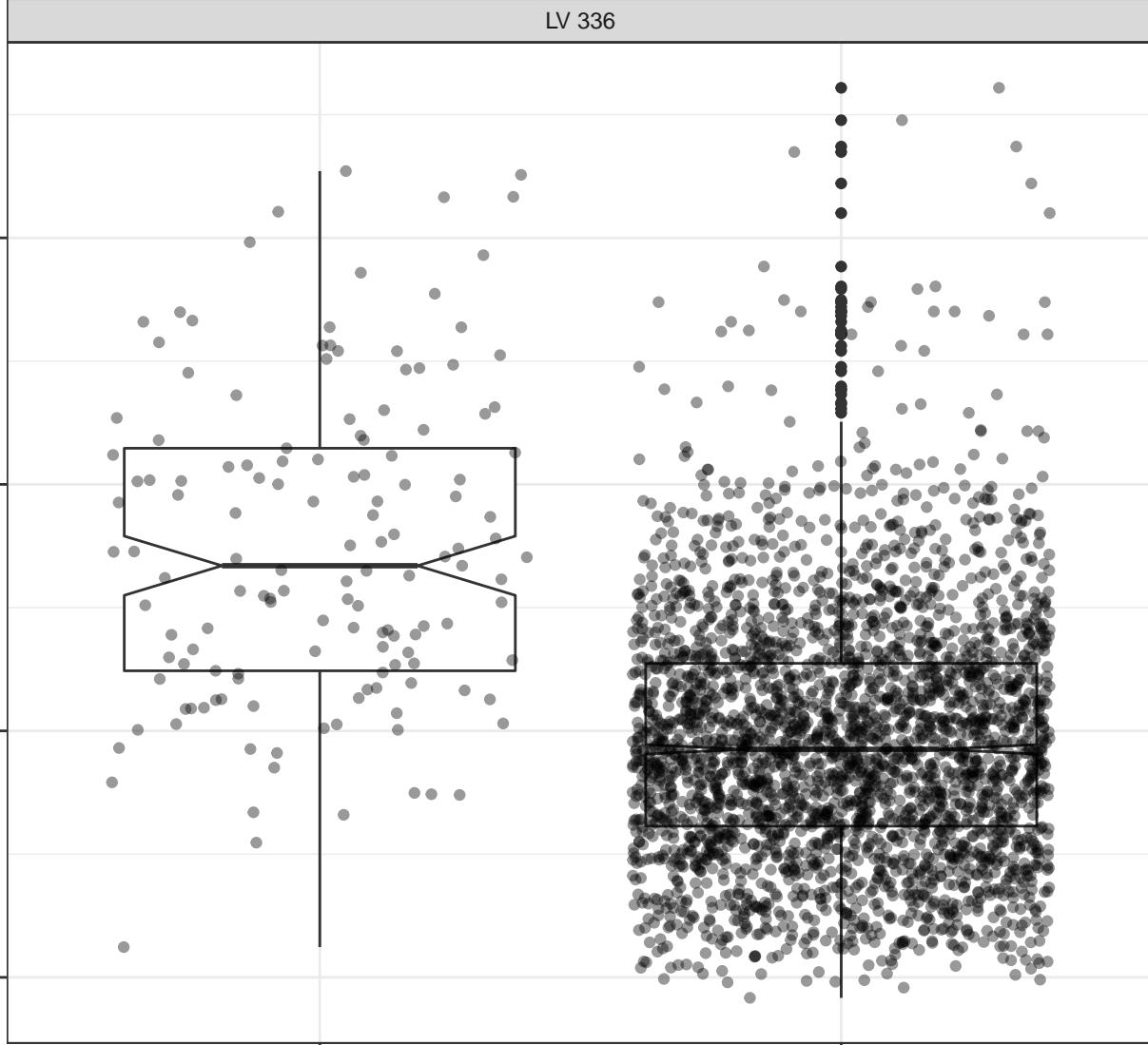
0.00

-0.05

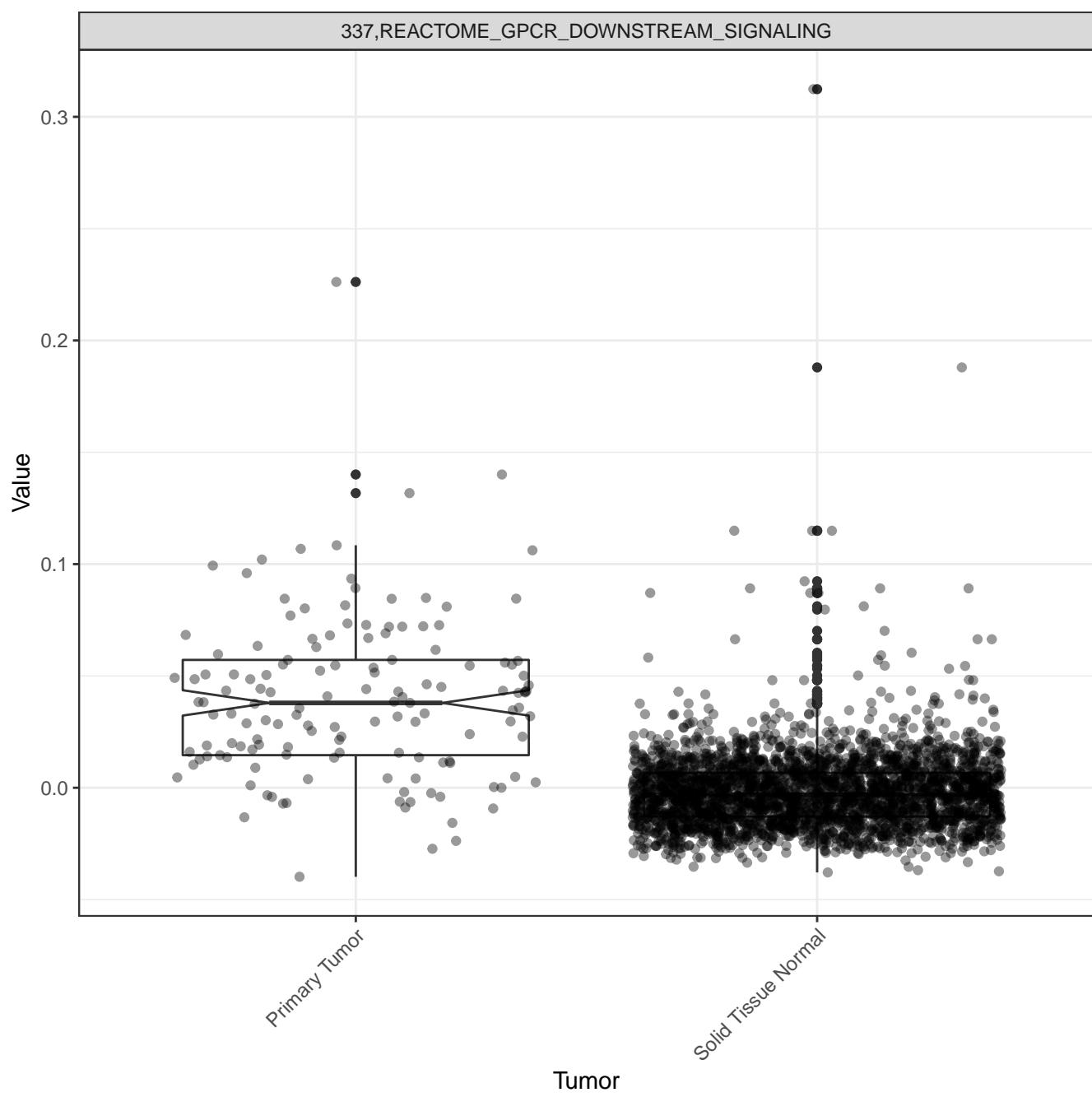
Primary Tumor

Solid Tissue Normal

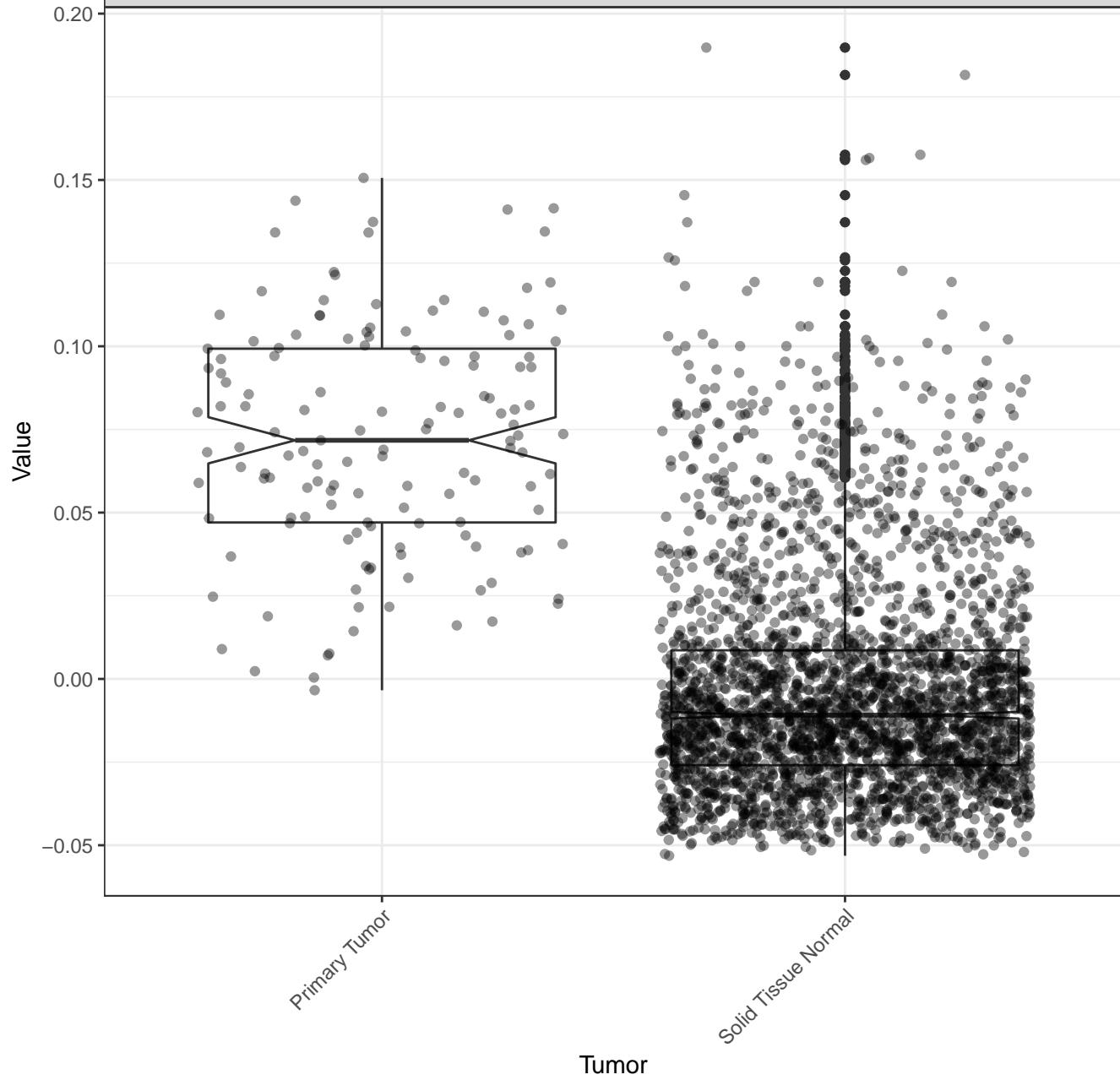
Tumor



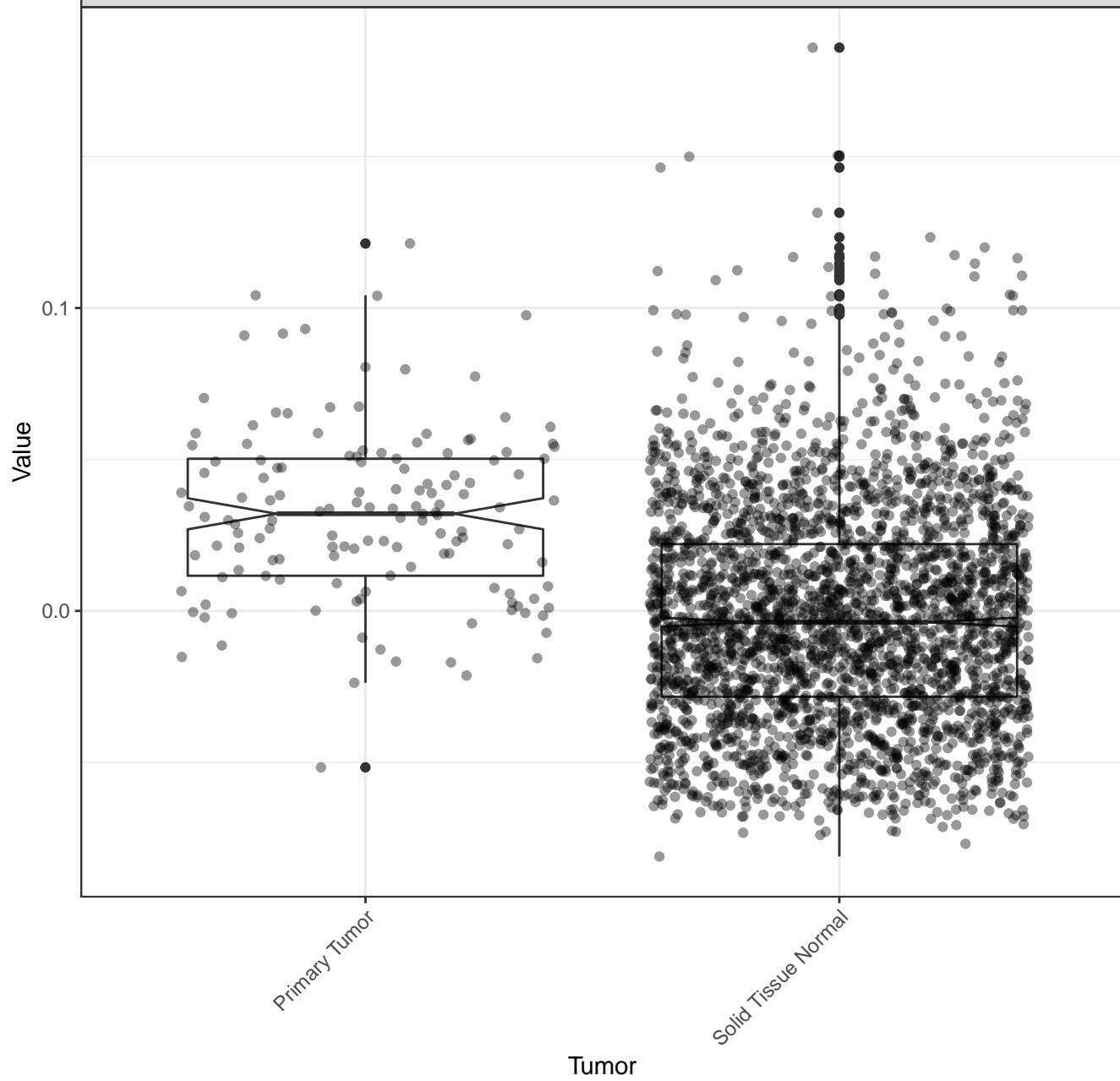
### 337,REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING



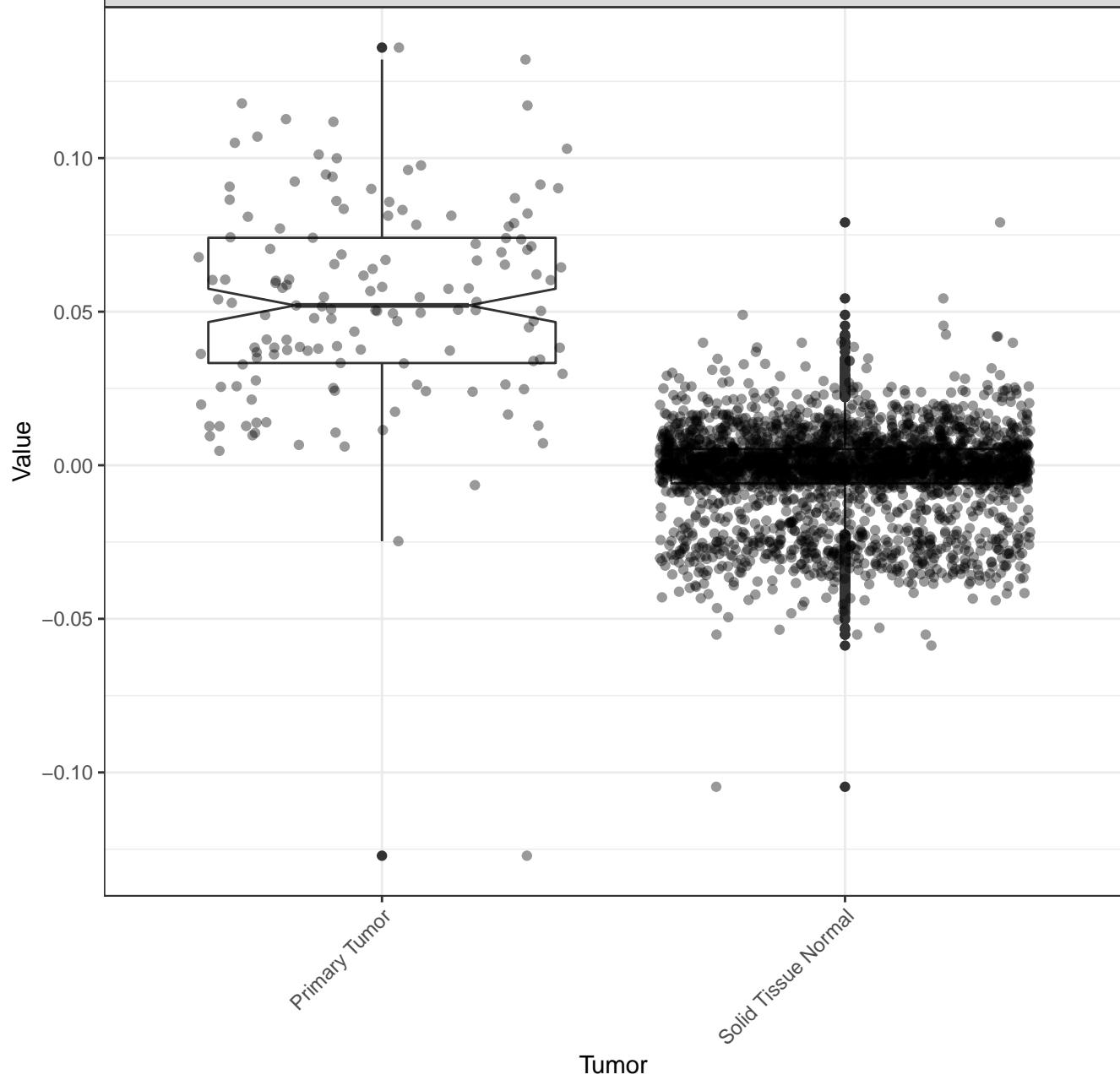
## 338,KEGG\_SPLICEOSOME

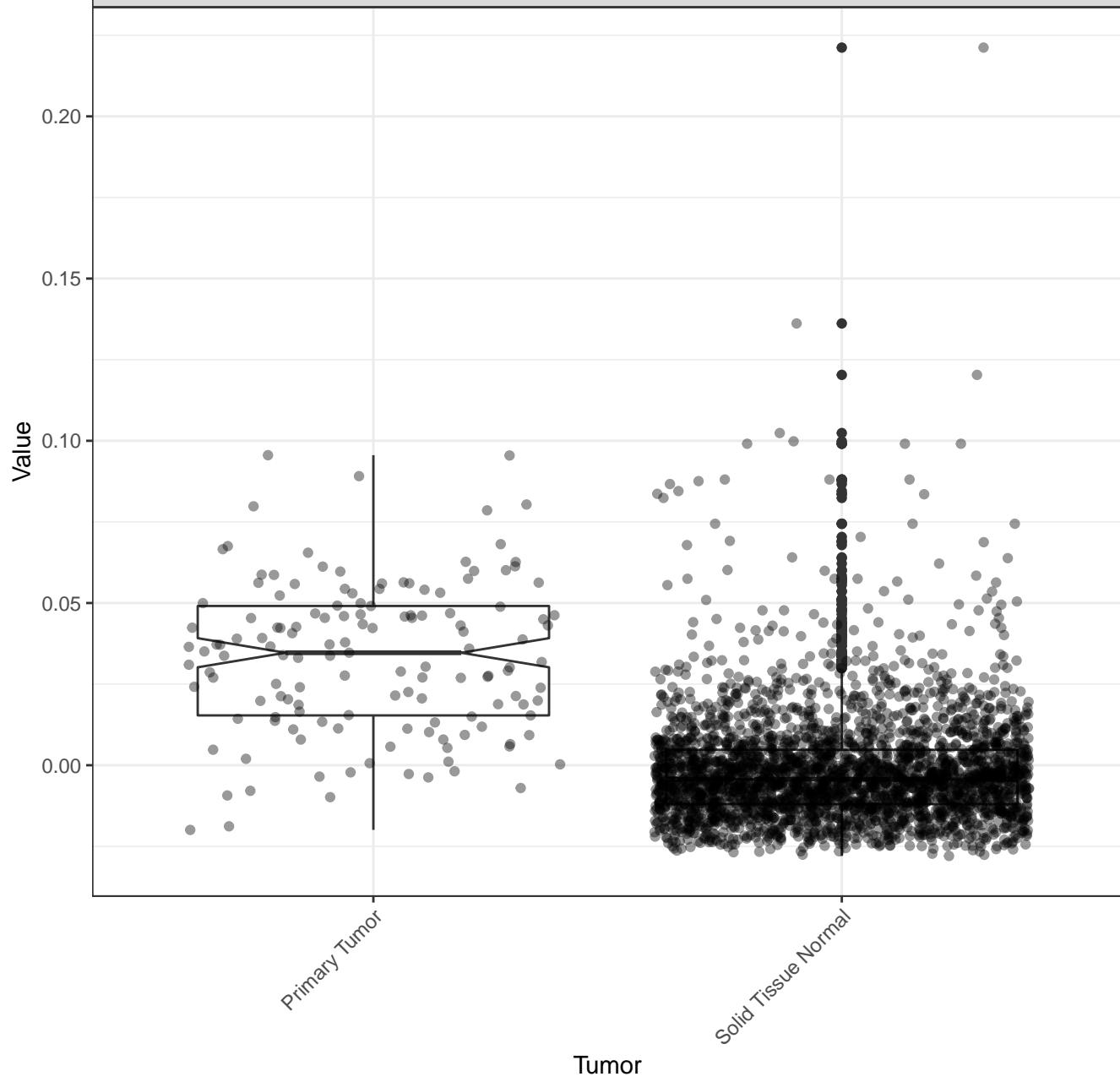


### 339,REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

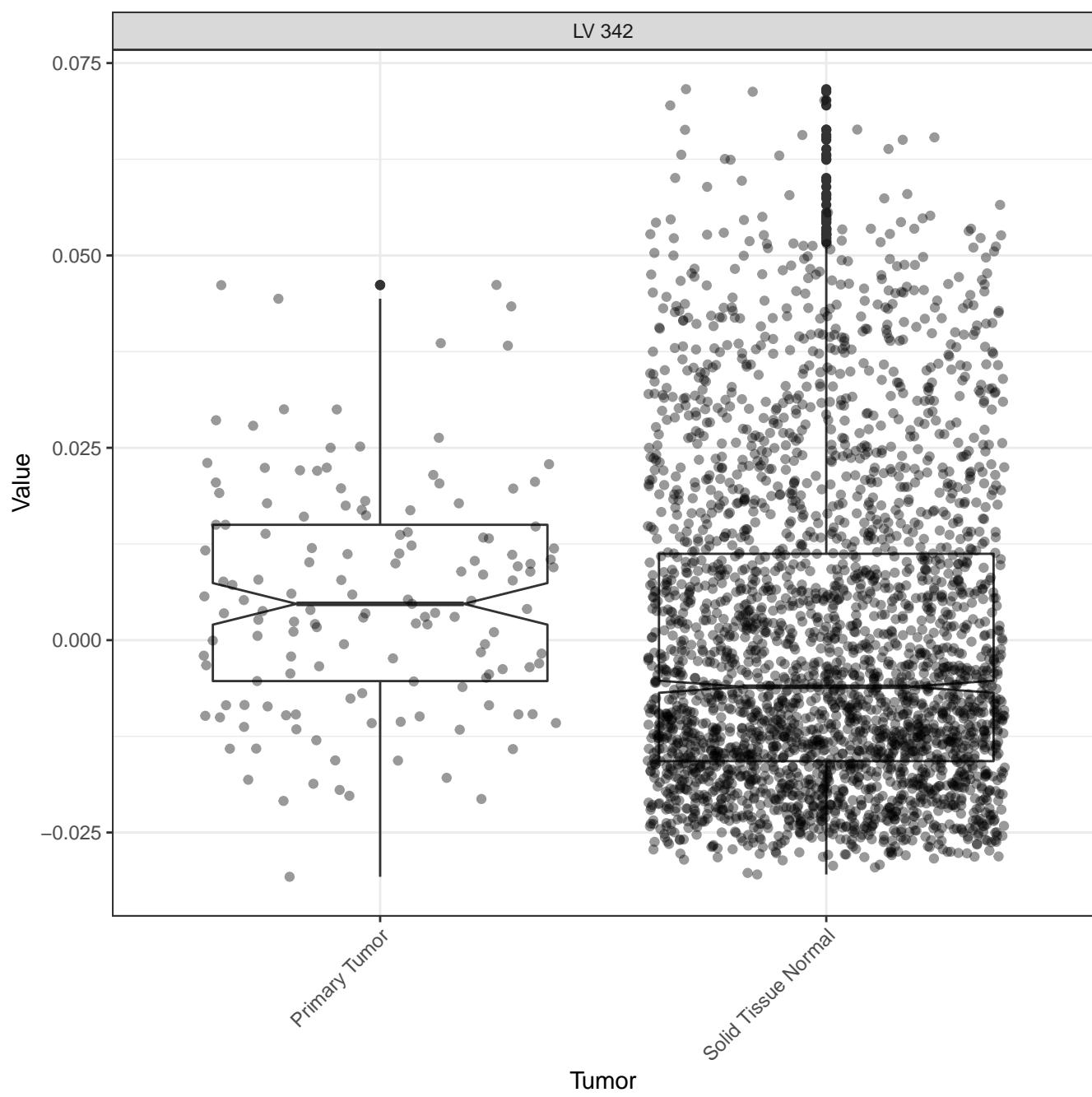


### 340,REACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION





LV 342



### 343,KEGG\_REGULATION\_OF\_ACTIN\_CYTOSKELETON

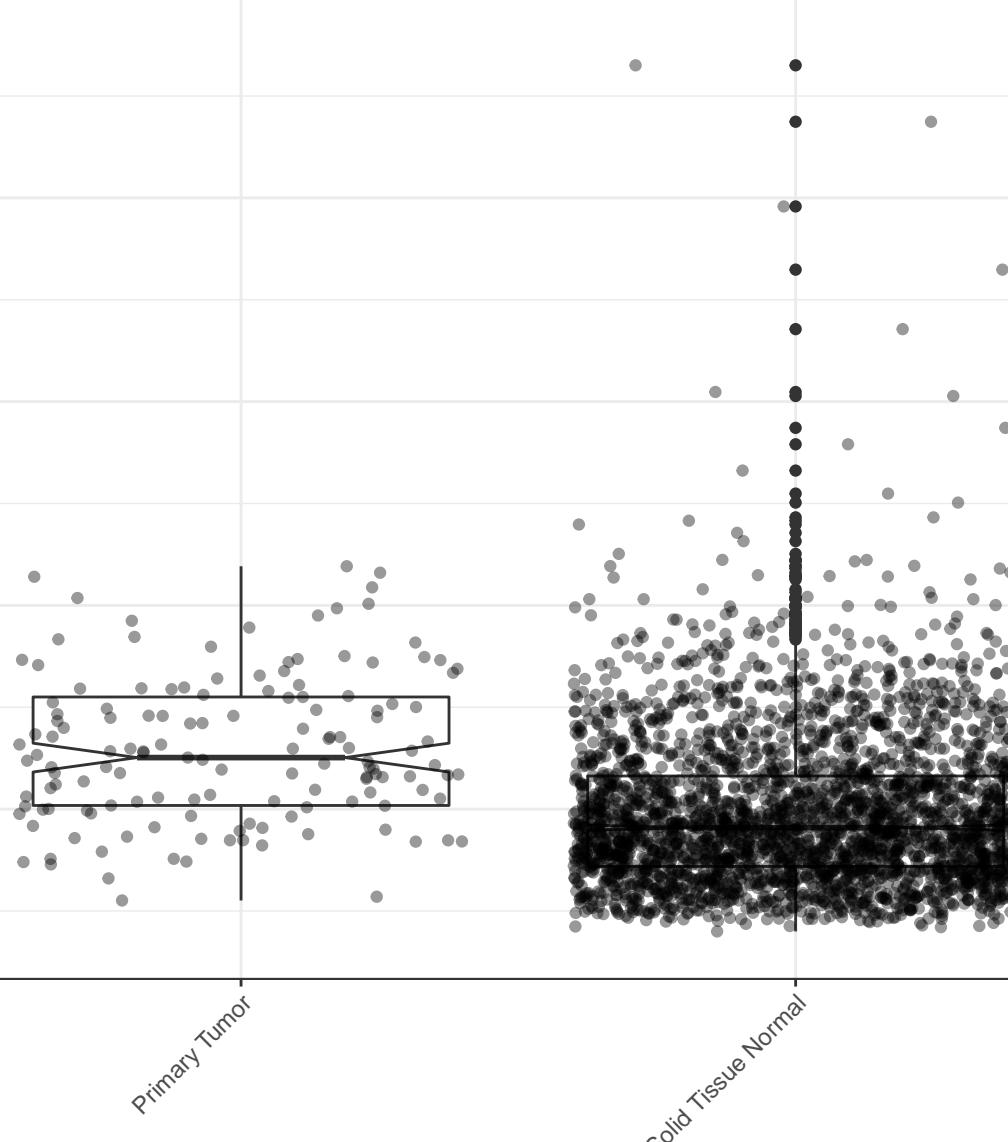
Value

0.20  
0.15  
0.10  
0.05  
0.00

Primary Tumor

Solid Tissue Normal

Tumor



344,REACTOME\_TRANSPORT\_OF\_MATURE\_TRANSCRIPT\_TO\_CYTOPLASM

Value

0.2

0.1

0.0

Primary Tumor

Solid Tissue Normal

Tumor

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Value

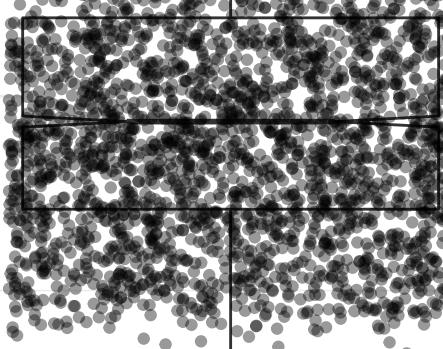
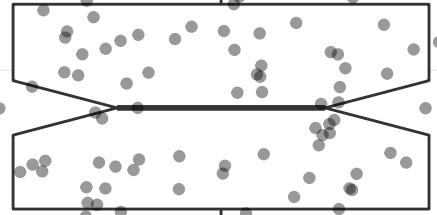
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



Value

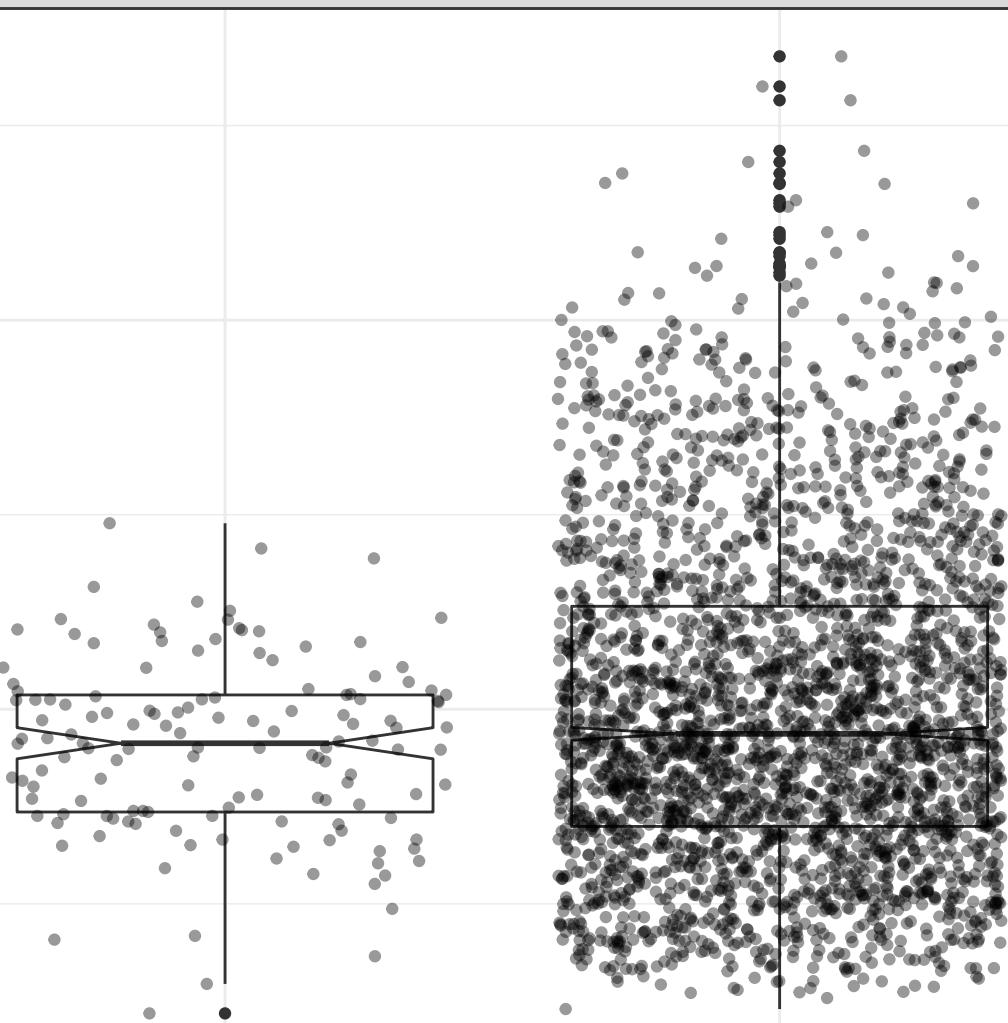
0.05

0.00

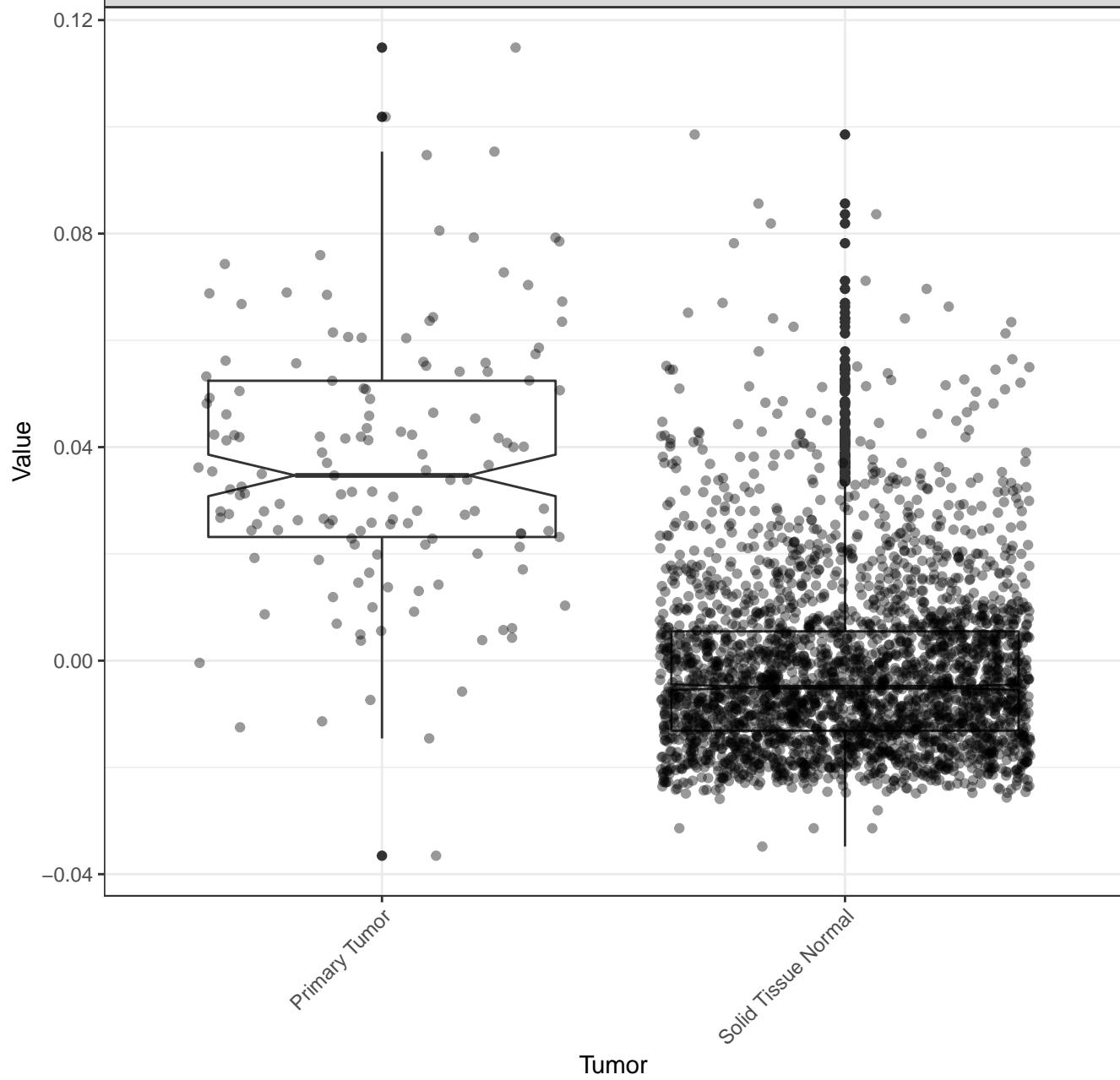
Primary Tumor

Solid Tissue Normal

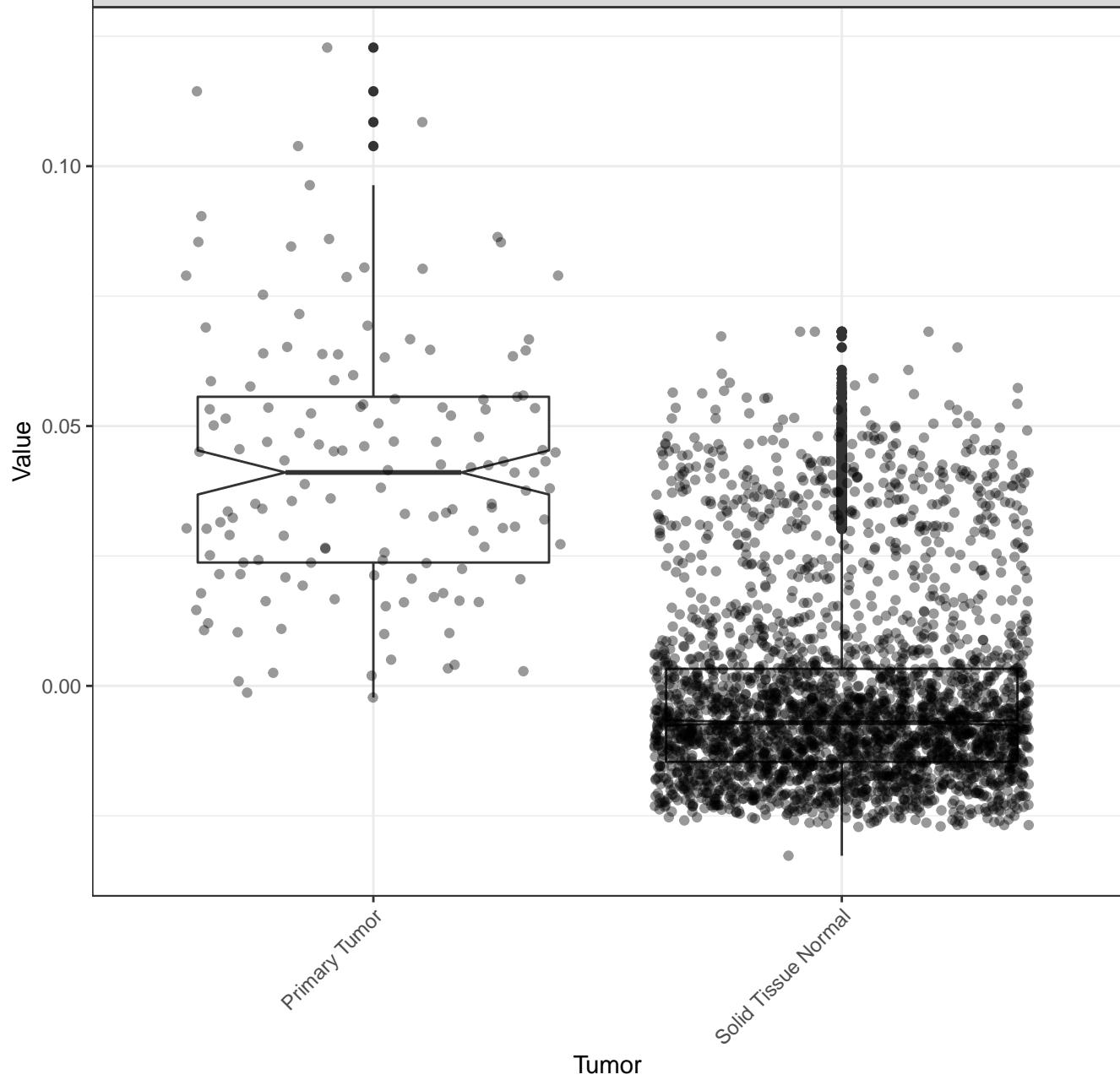
Tumor



LV 347



348,KEGG\_EPITHELIAL\_CELL\_SIGNALING\_IN\_Helicobacter\_pylori\_INFECTIOn



LV 349

Value

0.10

0.05

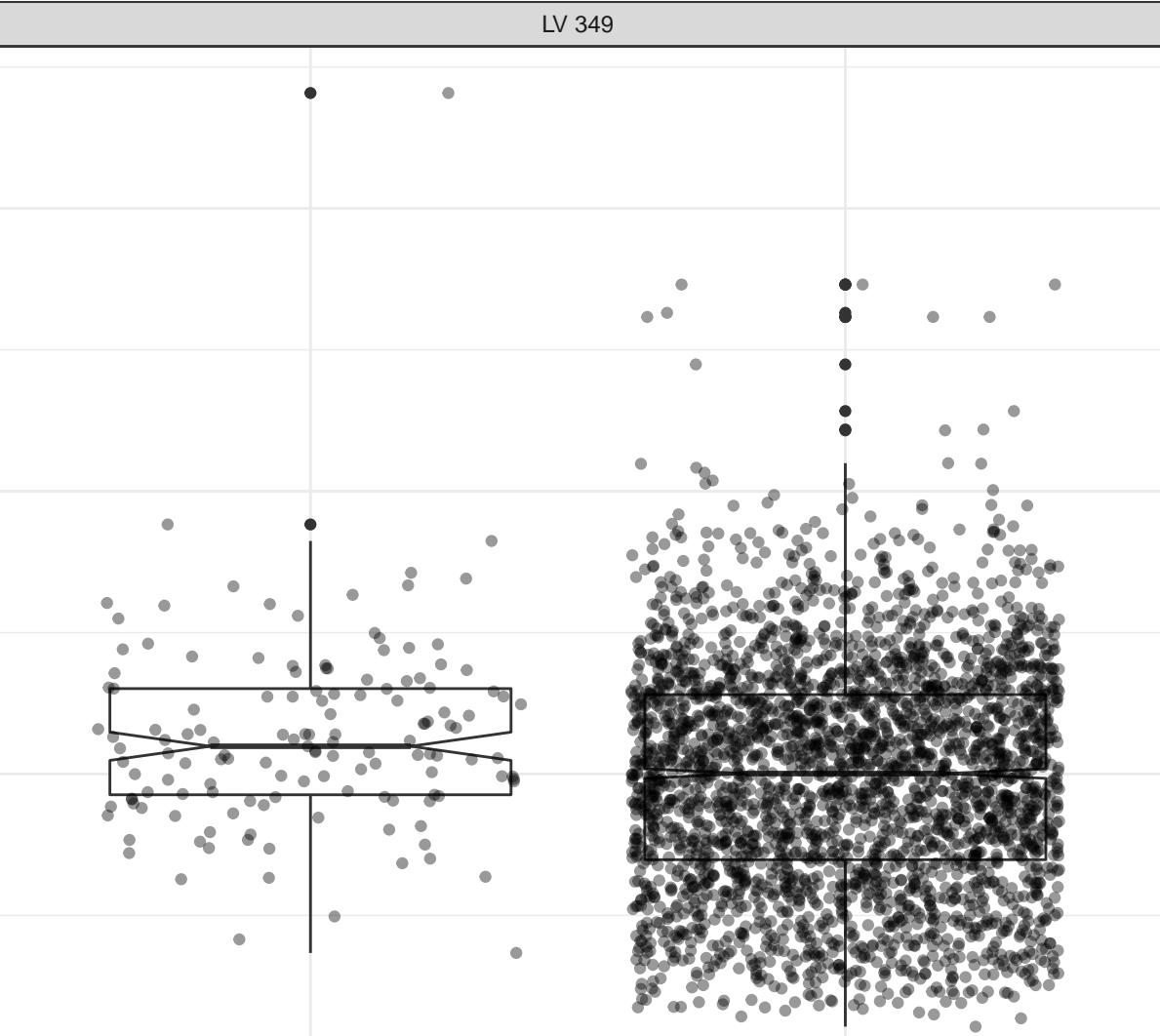
0.00

-0.05

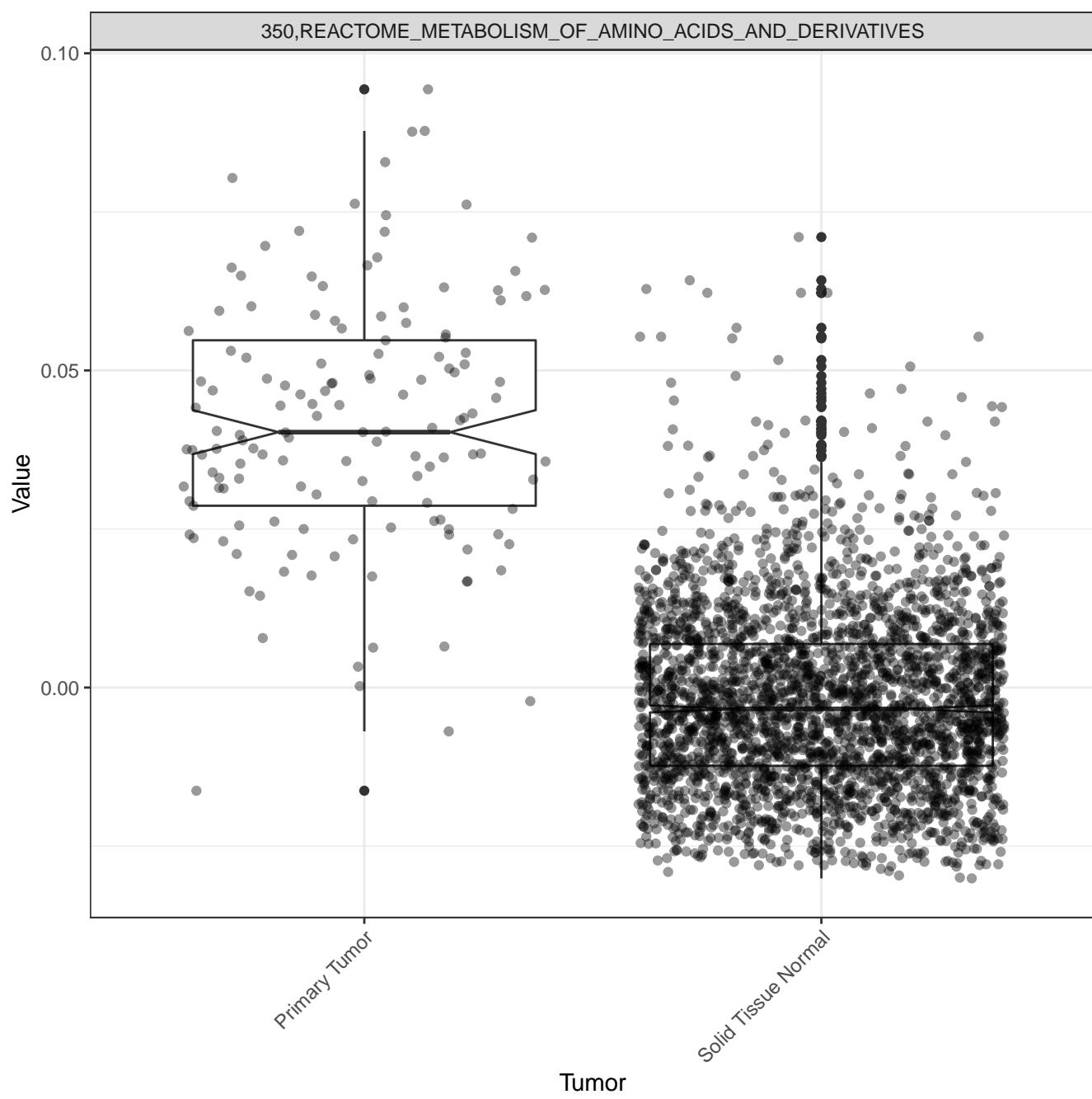
Primary Tumor

Solid Tissue Normal

Tumor



350,REACTOME\_METABOLISM\_OF\_AMINO\_ACIDS\_AND\_DERIVATIVES



## 351,REACTOME\_METABOLISM\_OF\_MRNA

Value

0.3

0.2

0.1

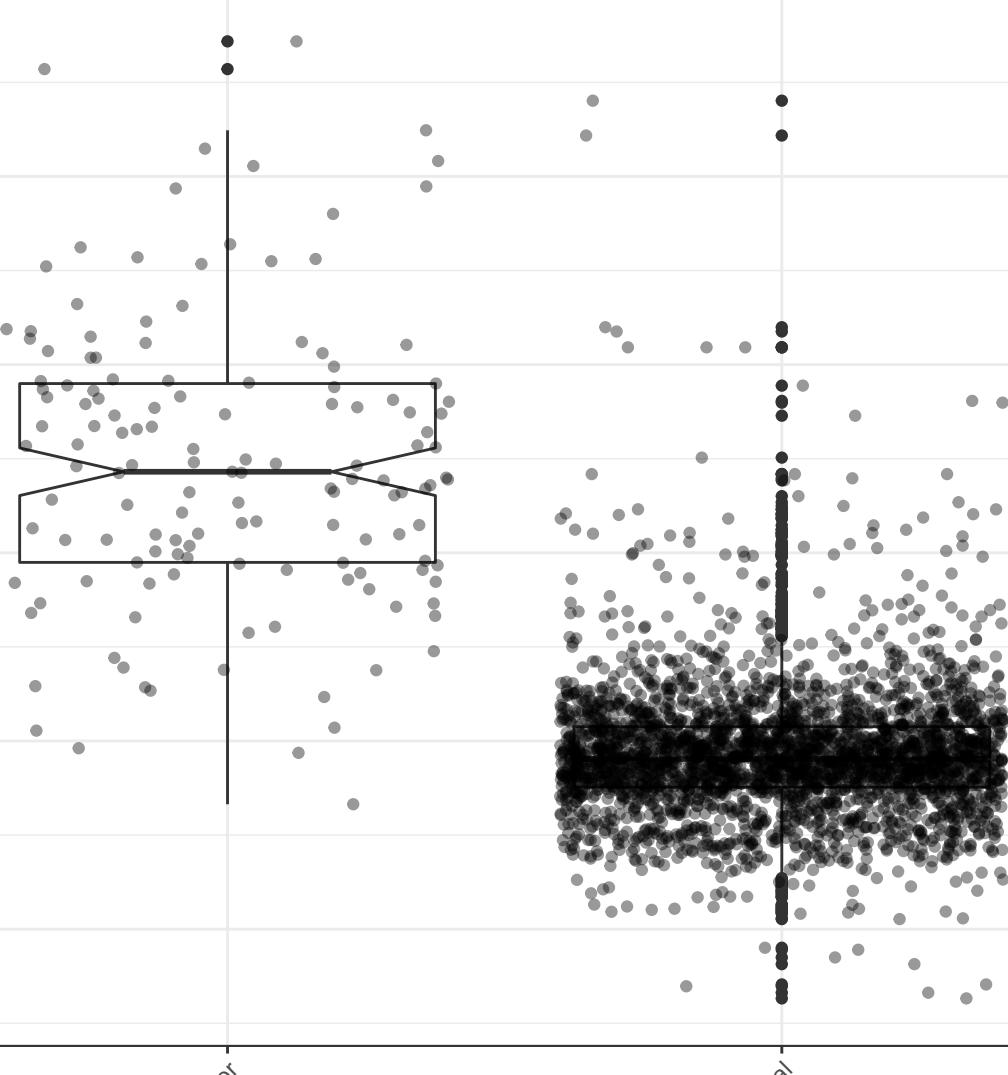
0.0

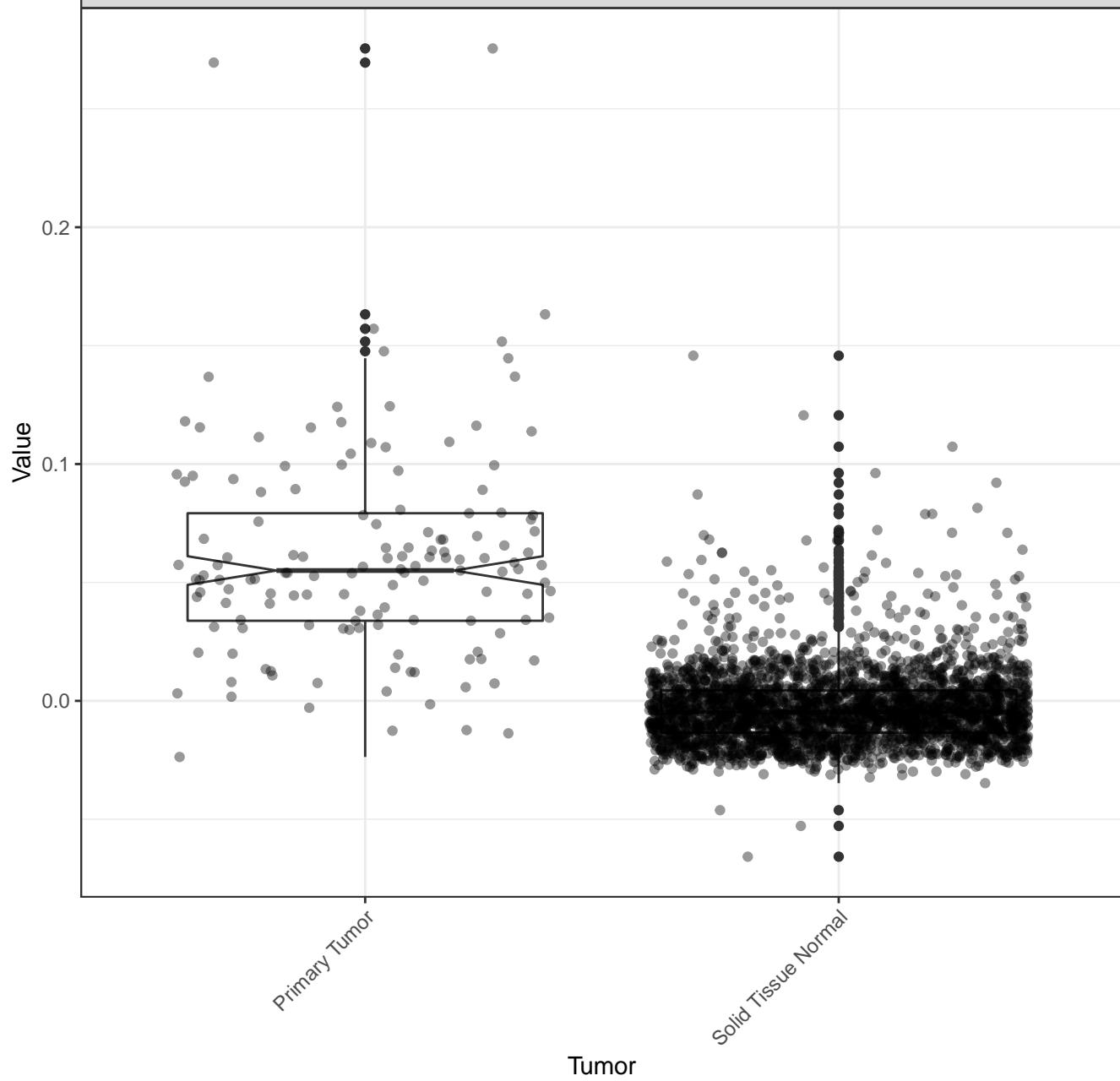
-0.1

Primary Tumor

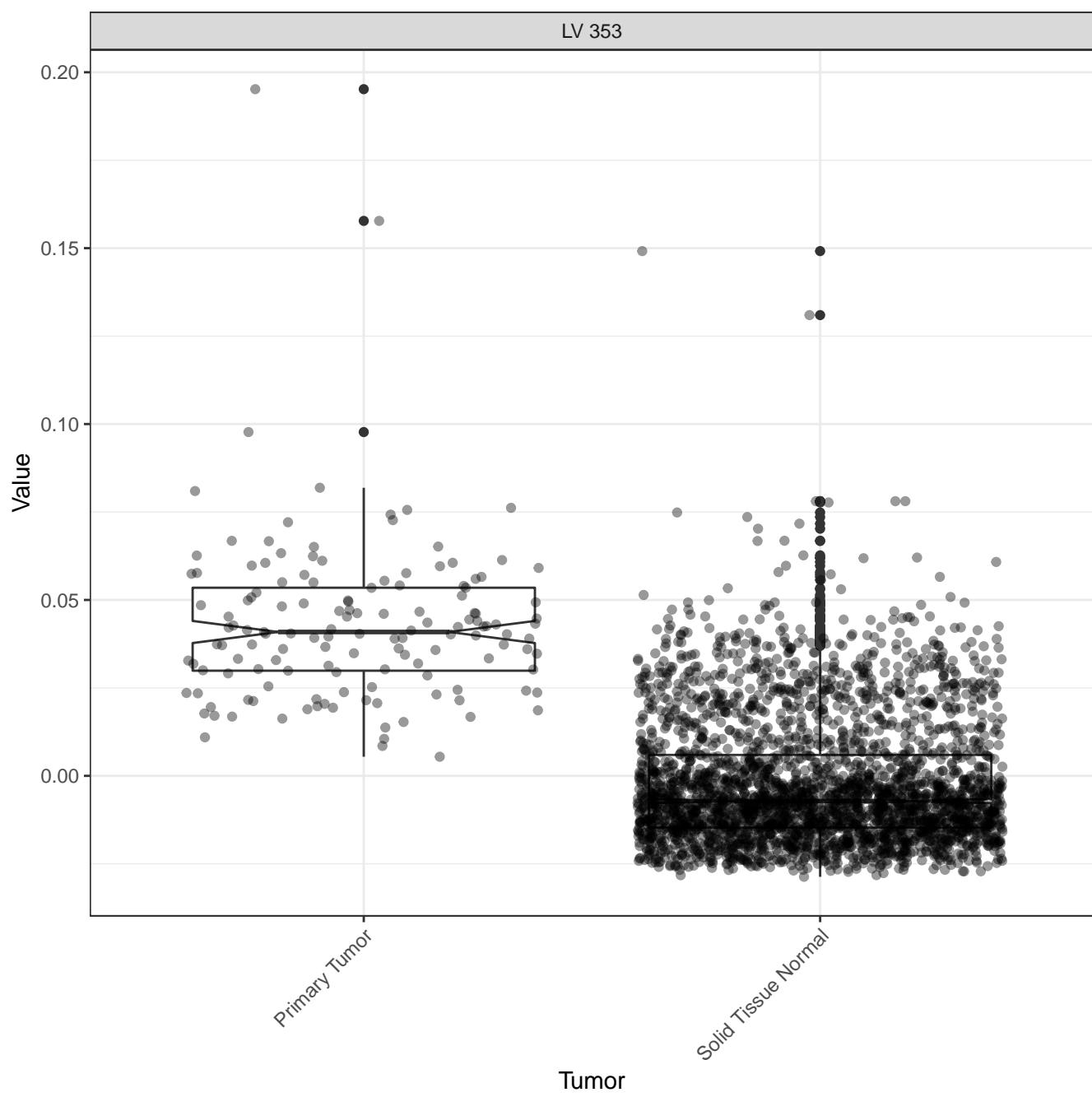
Solid Tissue Normal

Tumor

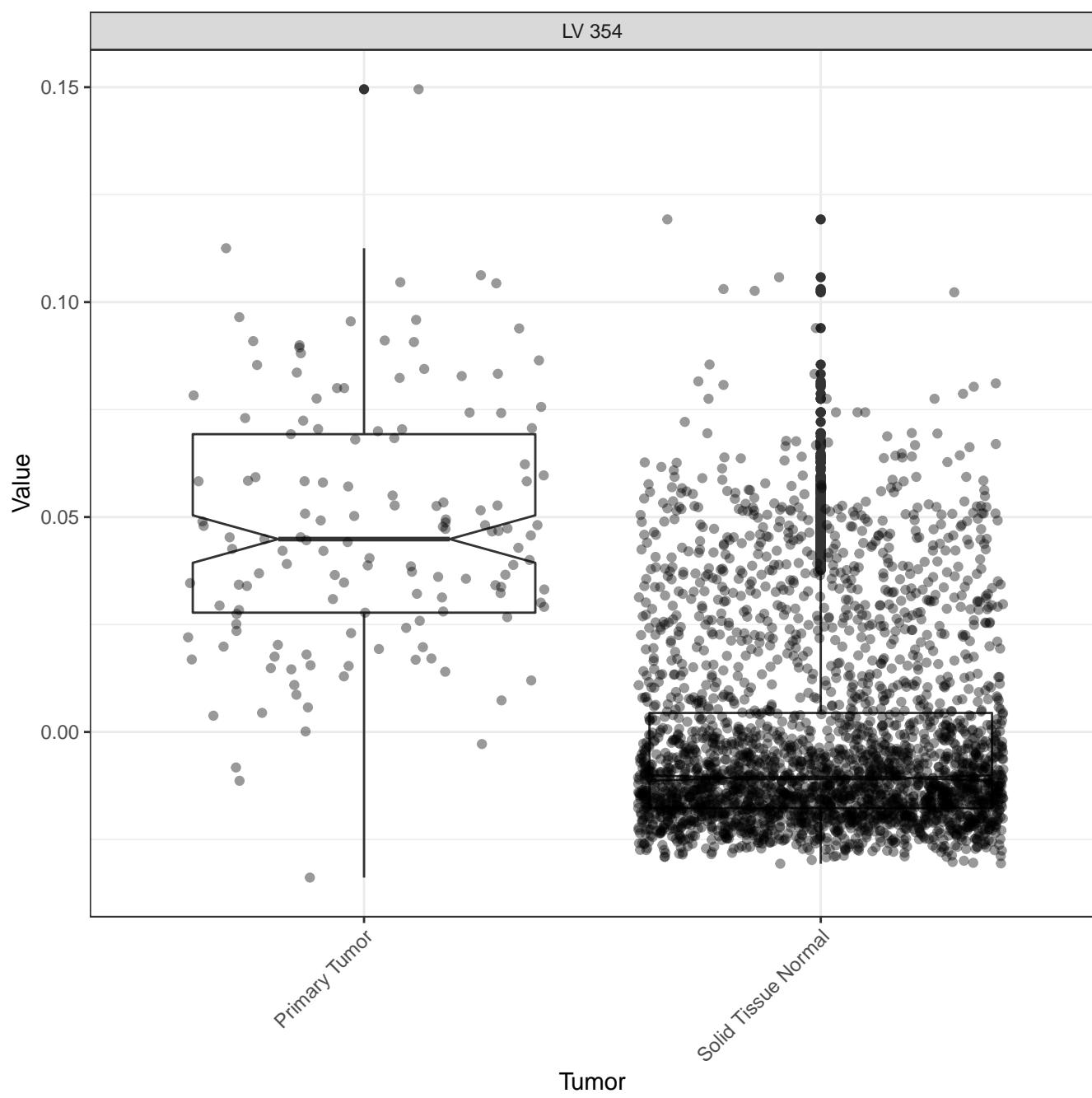




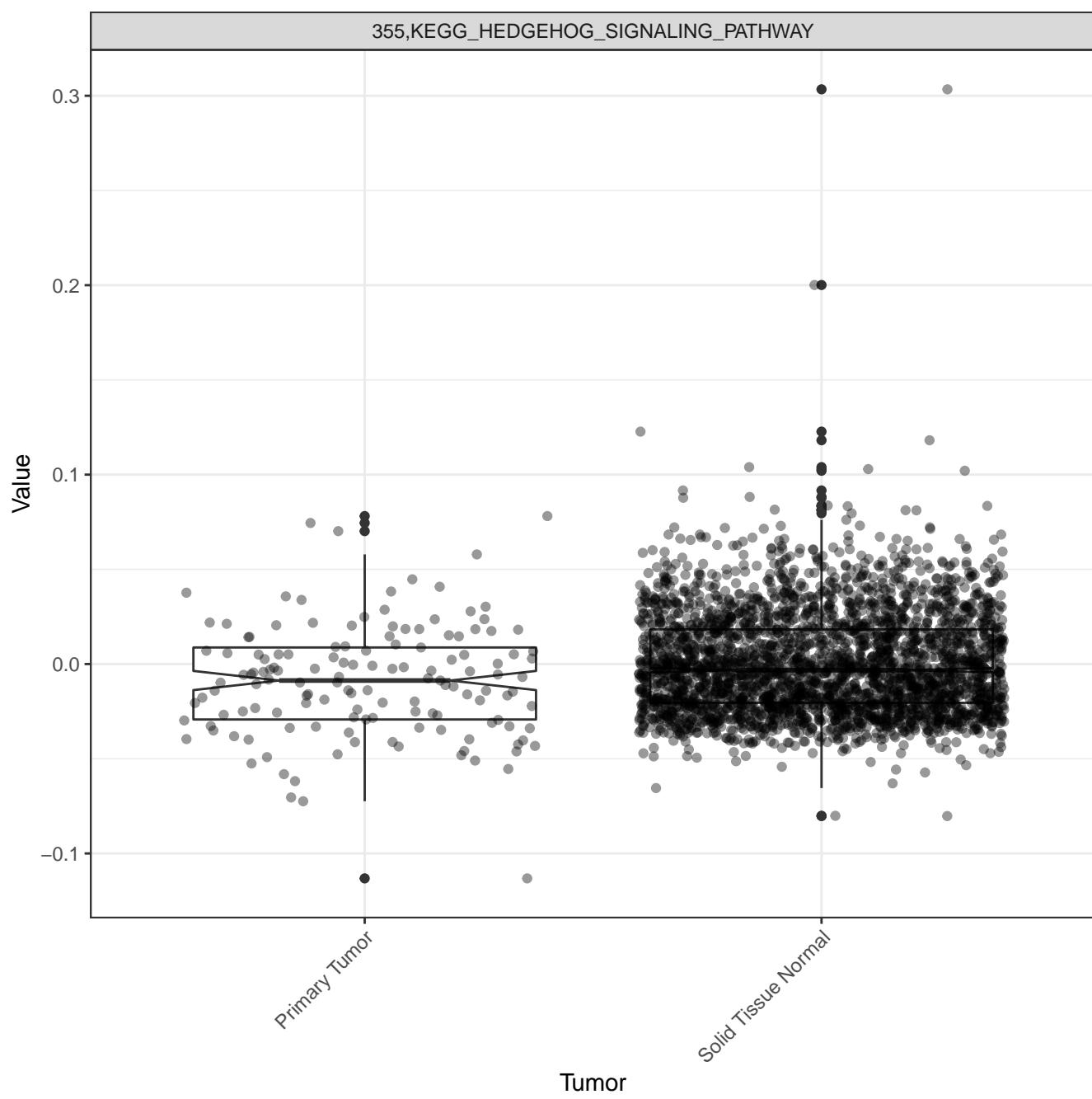
LV 353



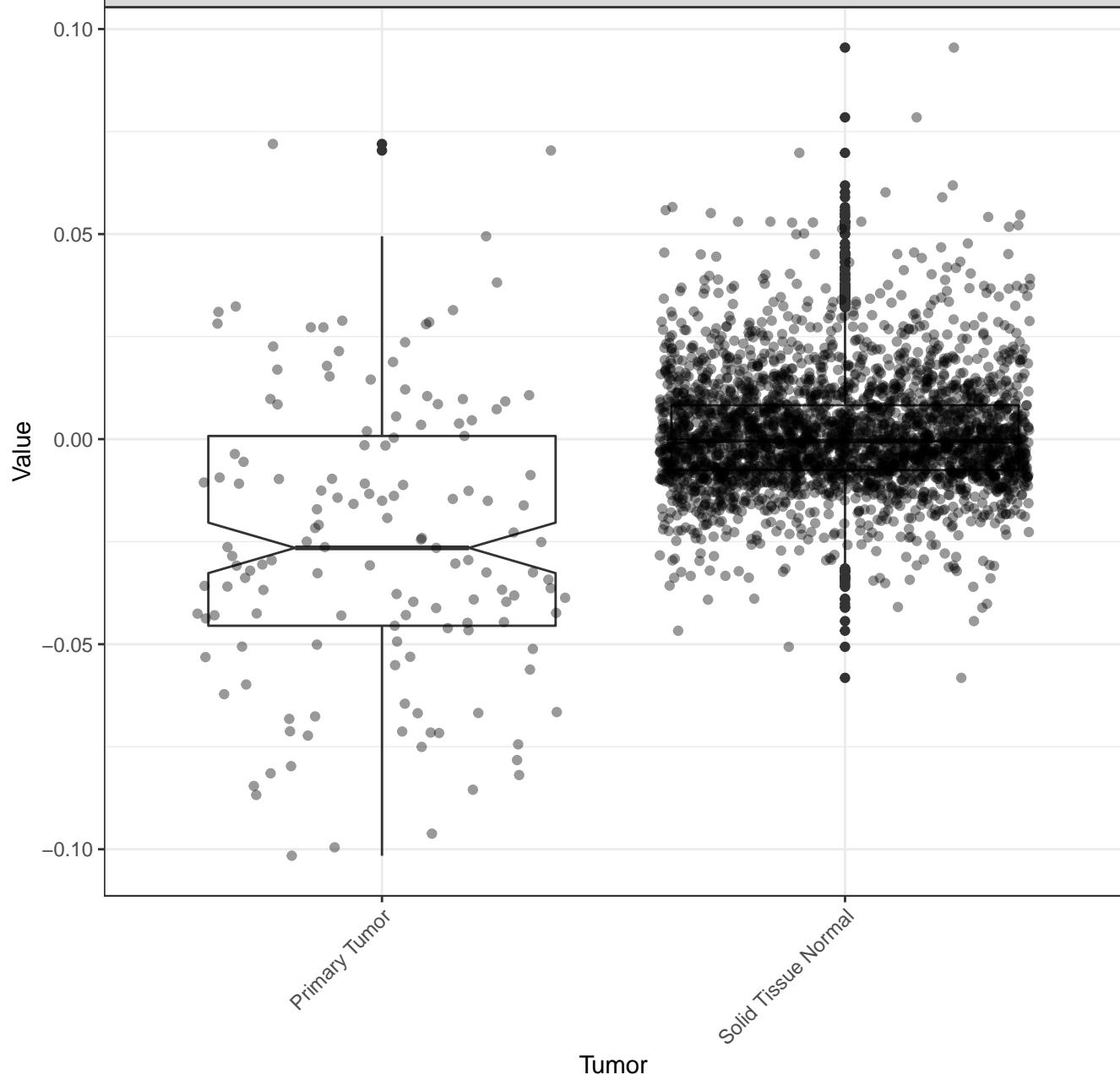
LV 354



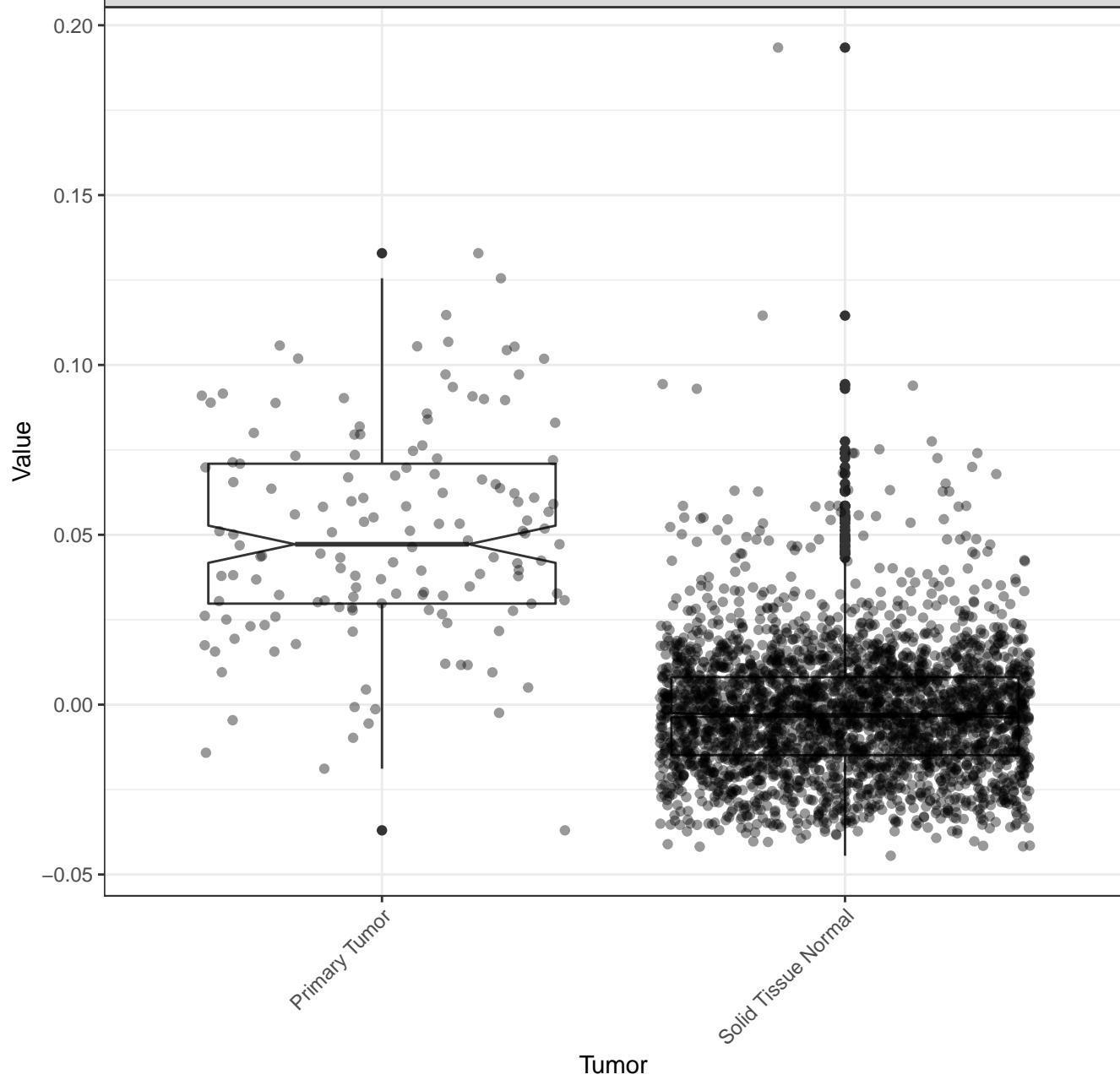
### 355,KEGG\_HEDGEHOG\_SIGNALING\_PATHWAY



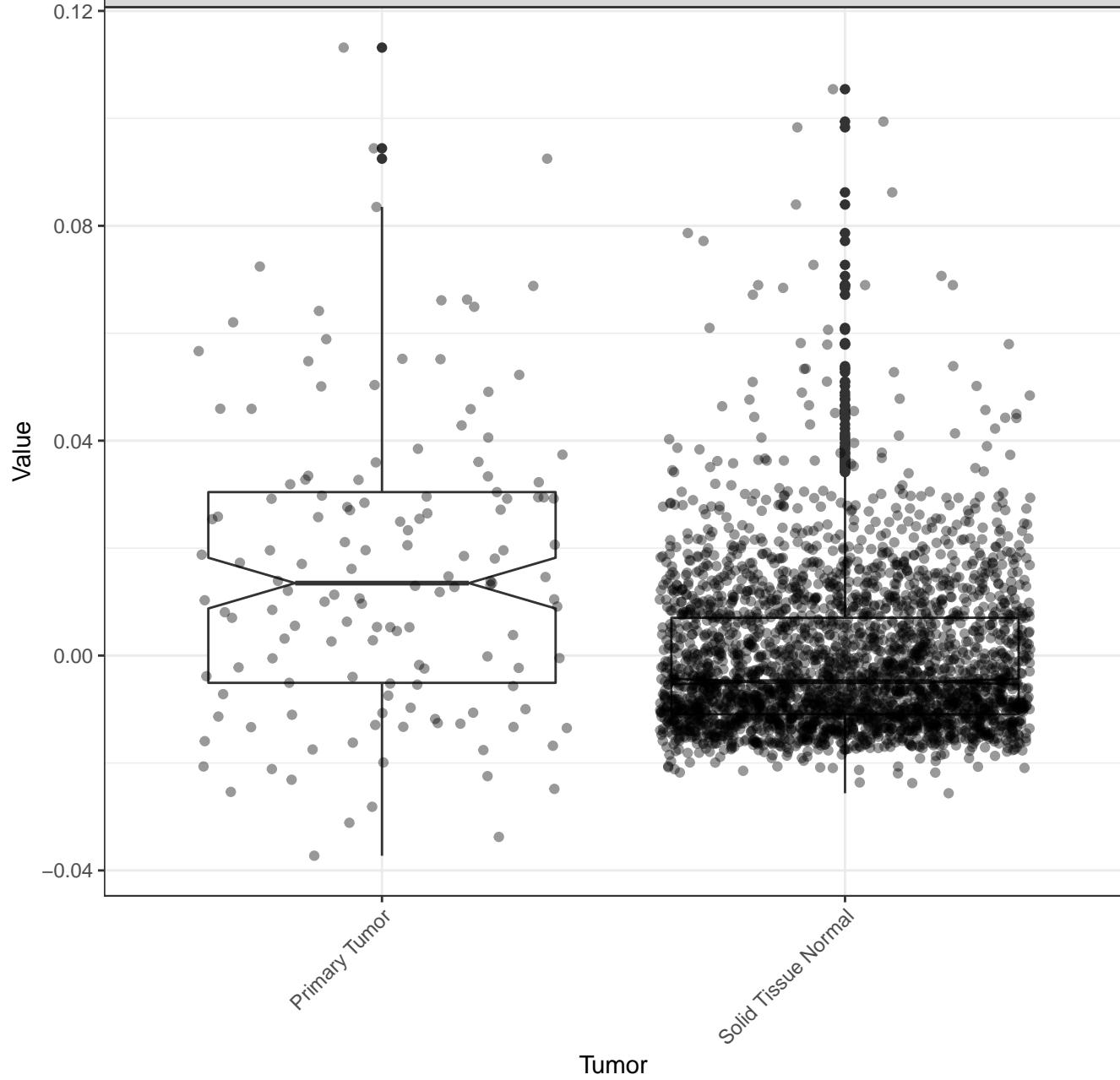
## 356,REACTOME DEVELOPMENTAL\_BIOLOGY



LV 357



## 358,ST\_ERK1\_ERK2\_MAPK\_PATHWAY



Value

0.15

0.10

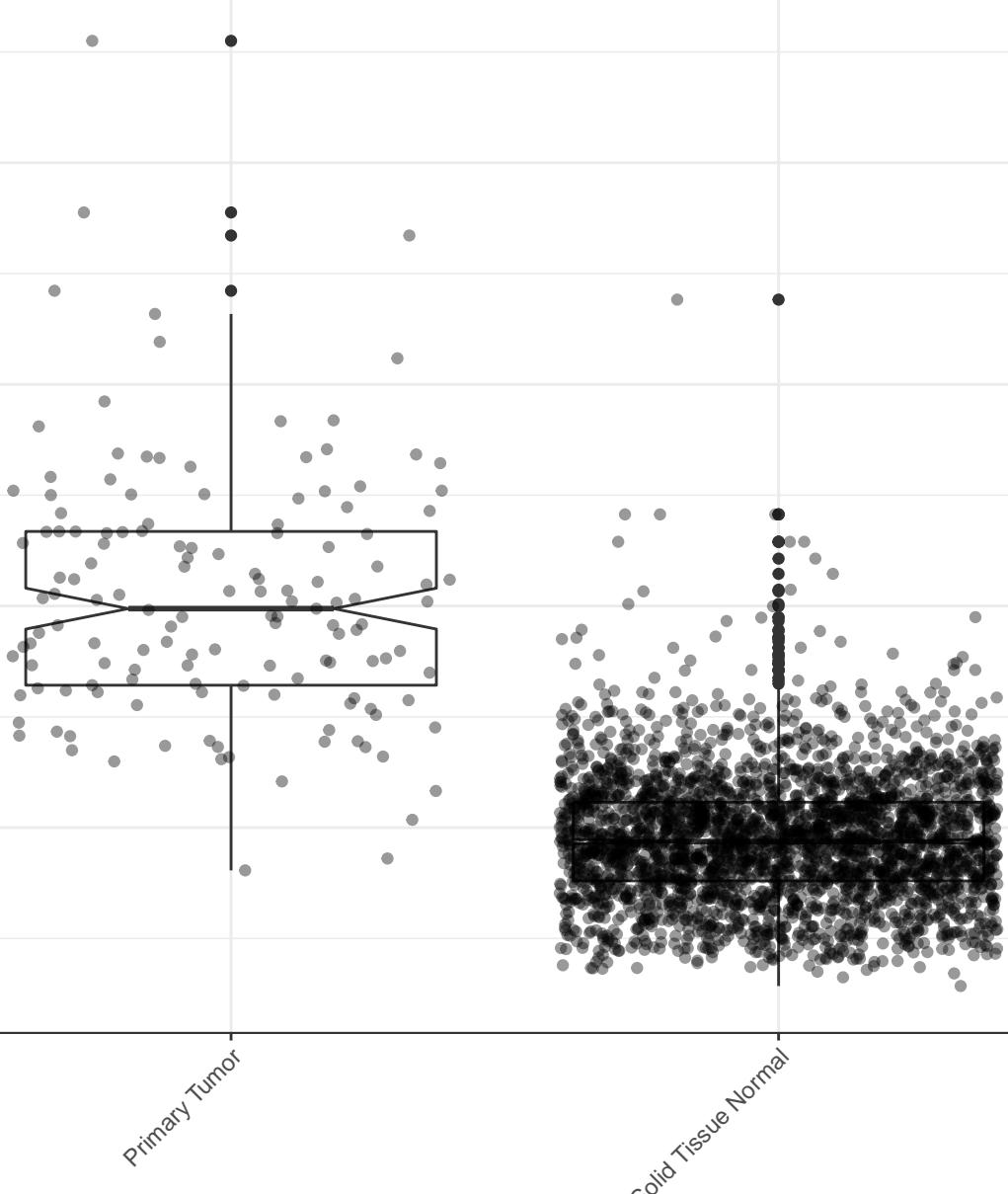
0.05

0.00

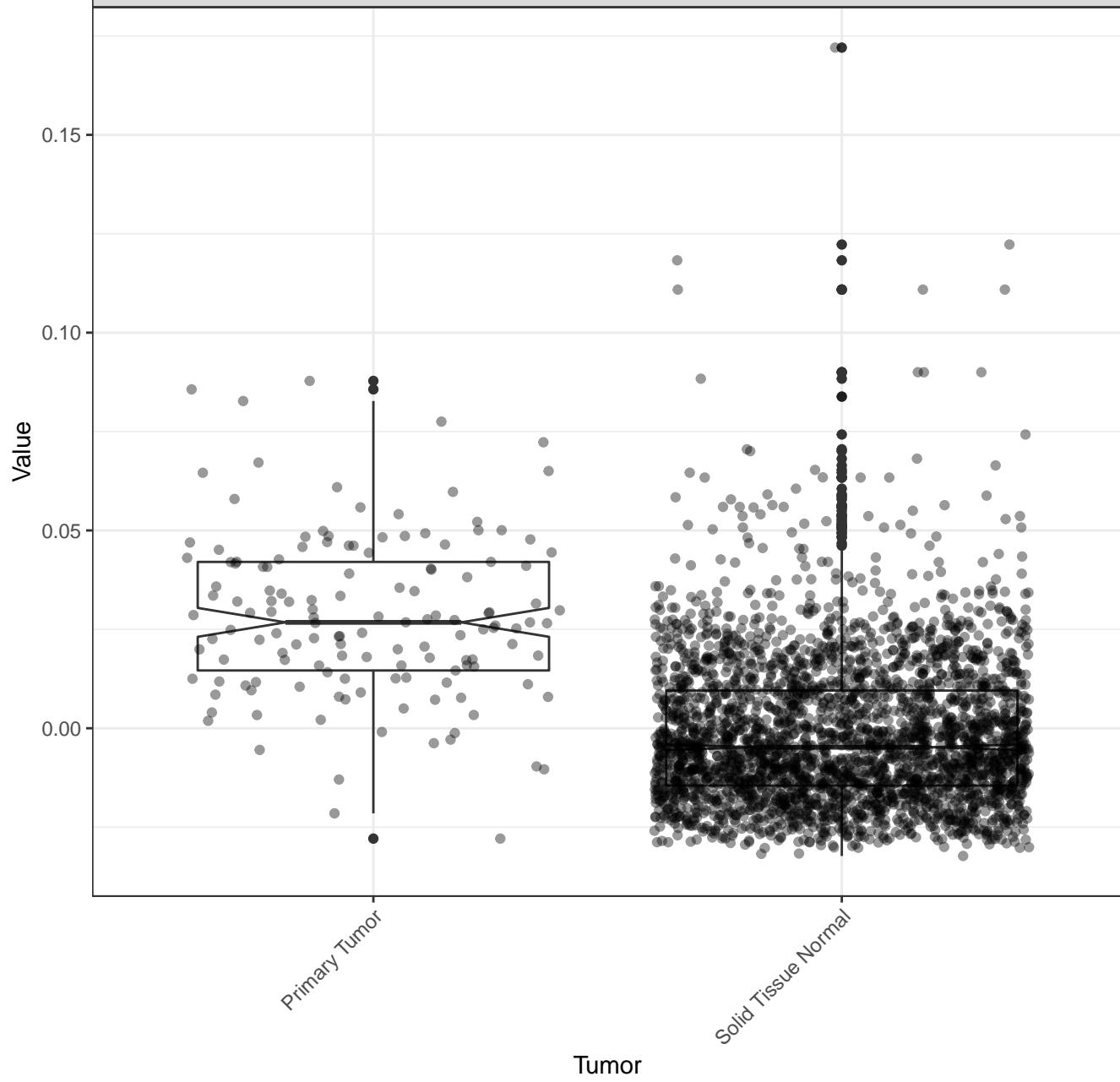
Primary Tumor

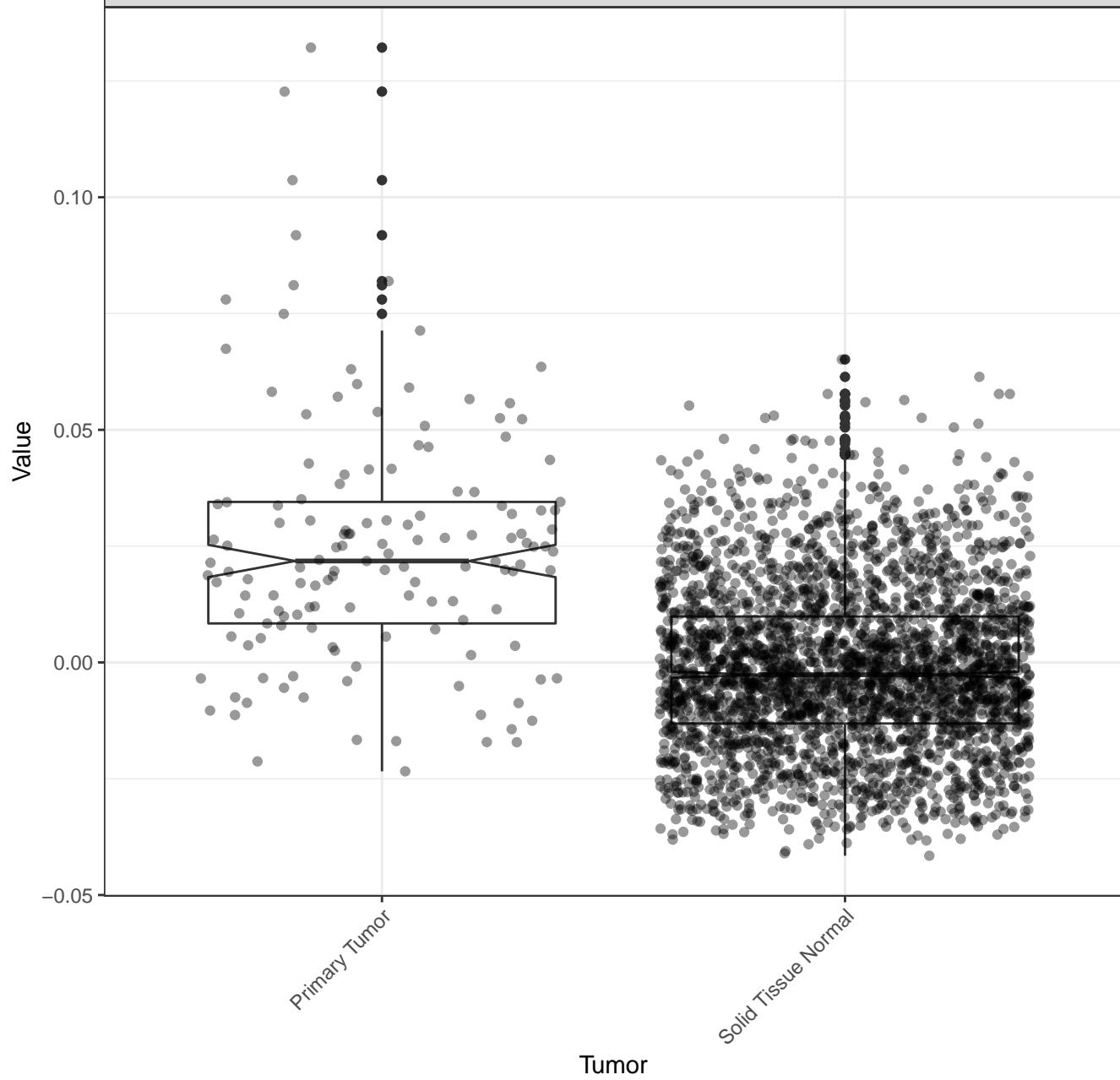
Solid Tissue Normal

Tumor



### 360,IRIS\_DendriticCell-LPSstimulated





LV 362

Value

0.20

0.15

0.10

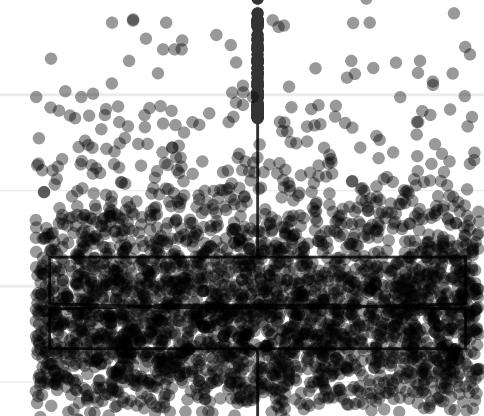
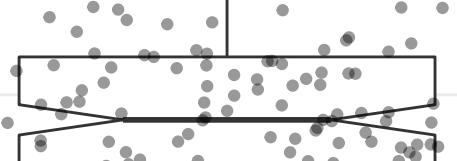
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



LV 363

Value

0.3

0.2

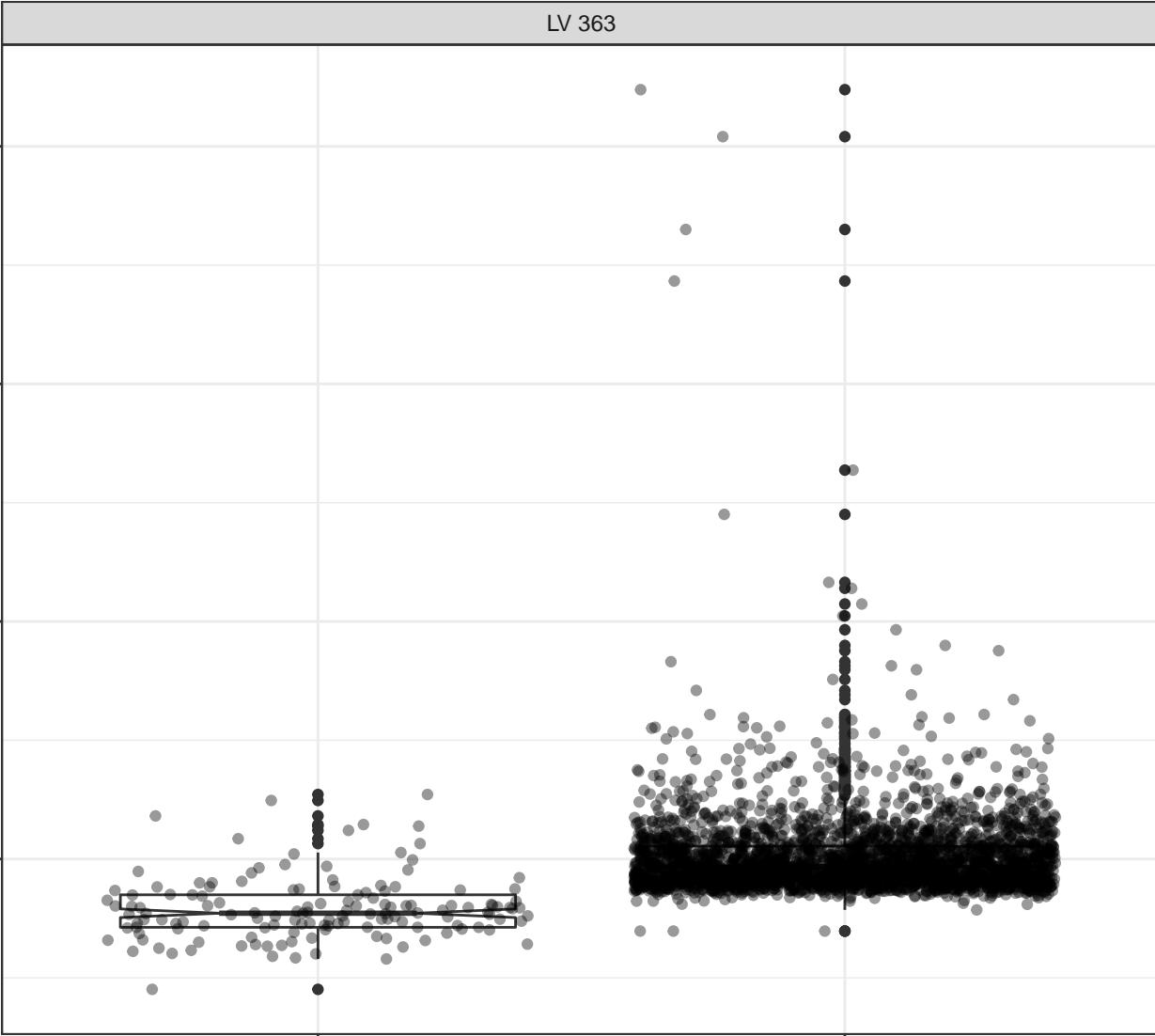
0.1

0.0

Primary Tumor

Solid Tissue Normal

Tumor



### 364,REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION

Value

0.3

0.2

0.1

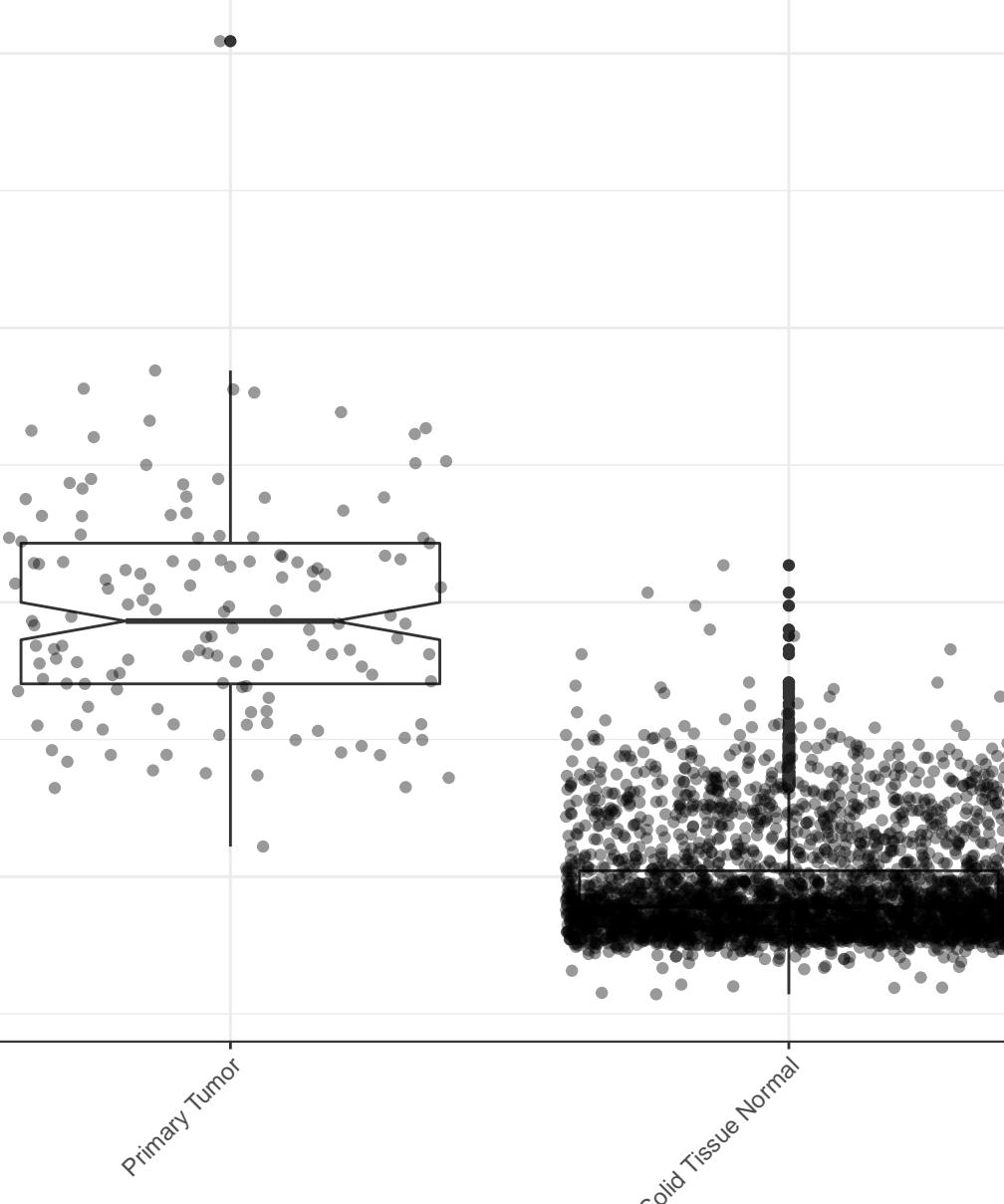
0.0

Primary Tumor

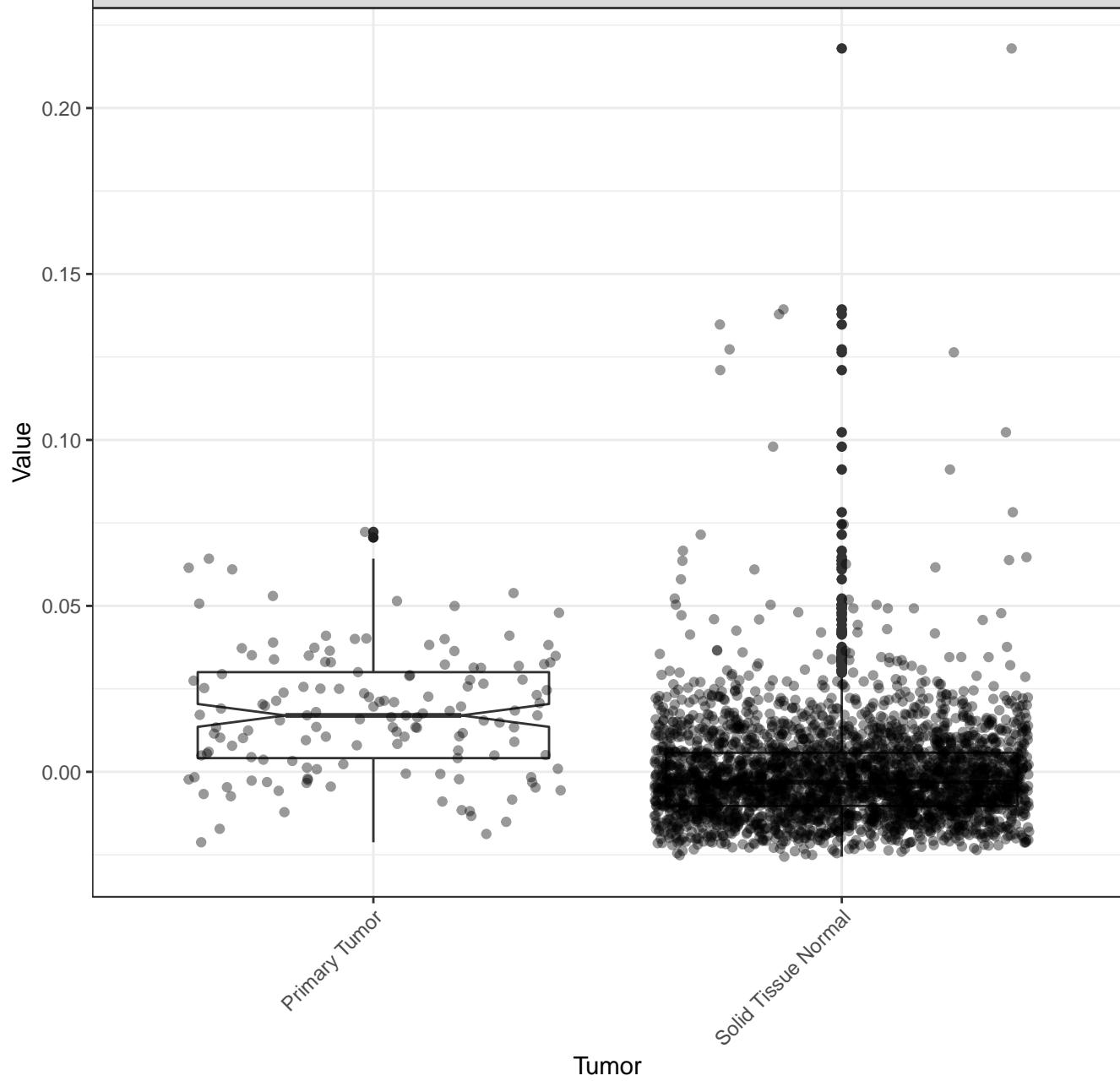
Solid Tissue Normal

Tumor

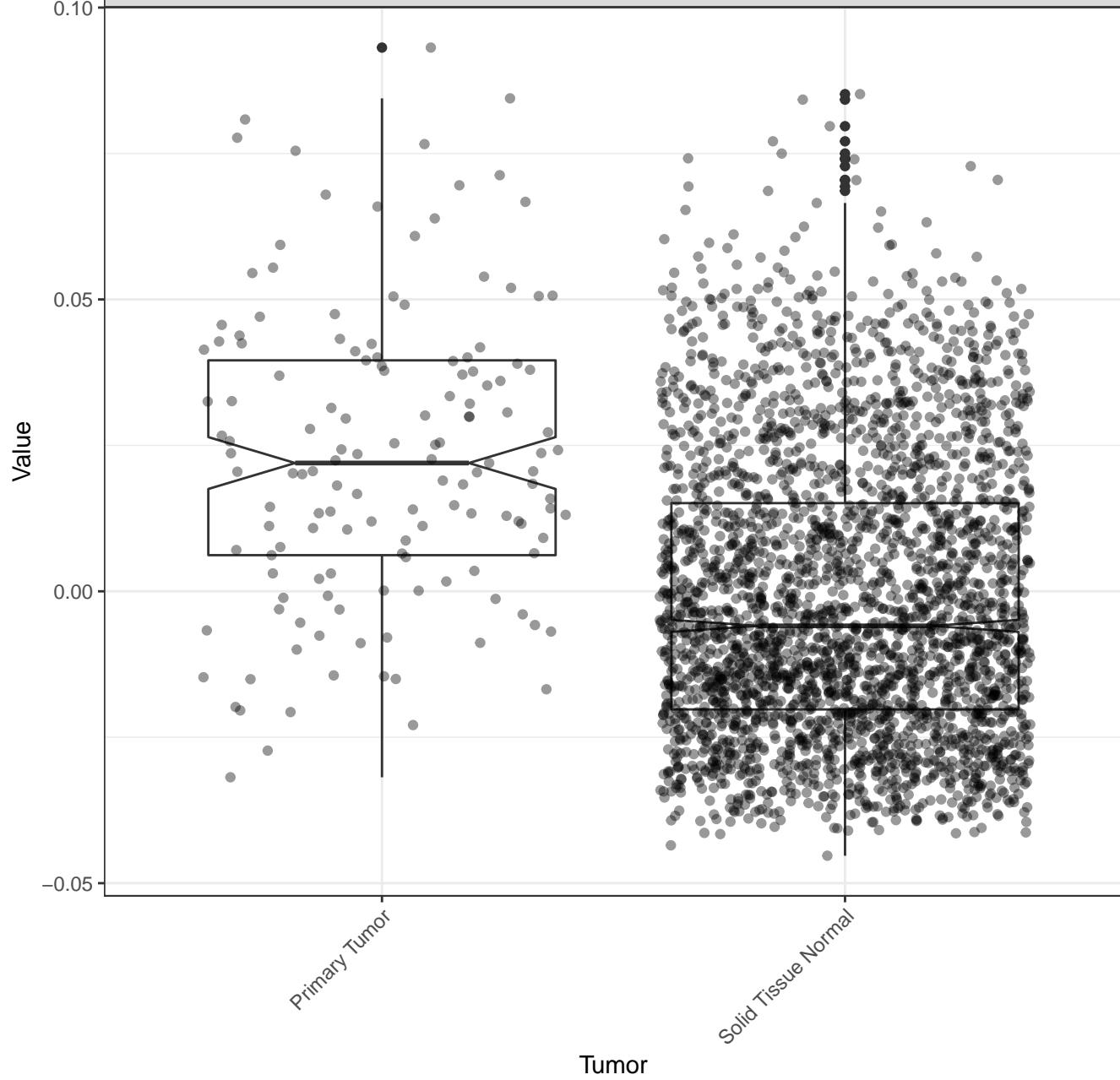
364,REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION



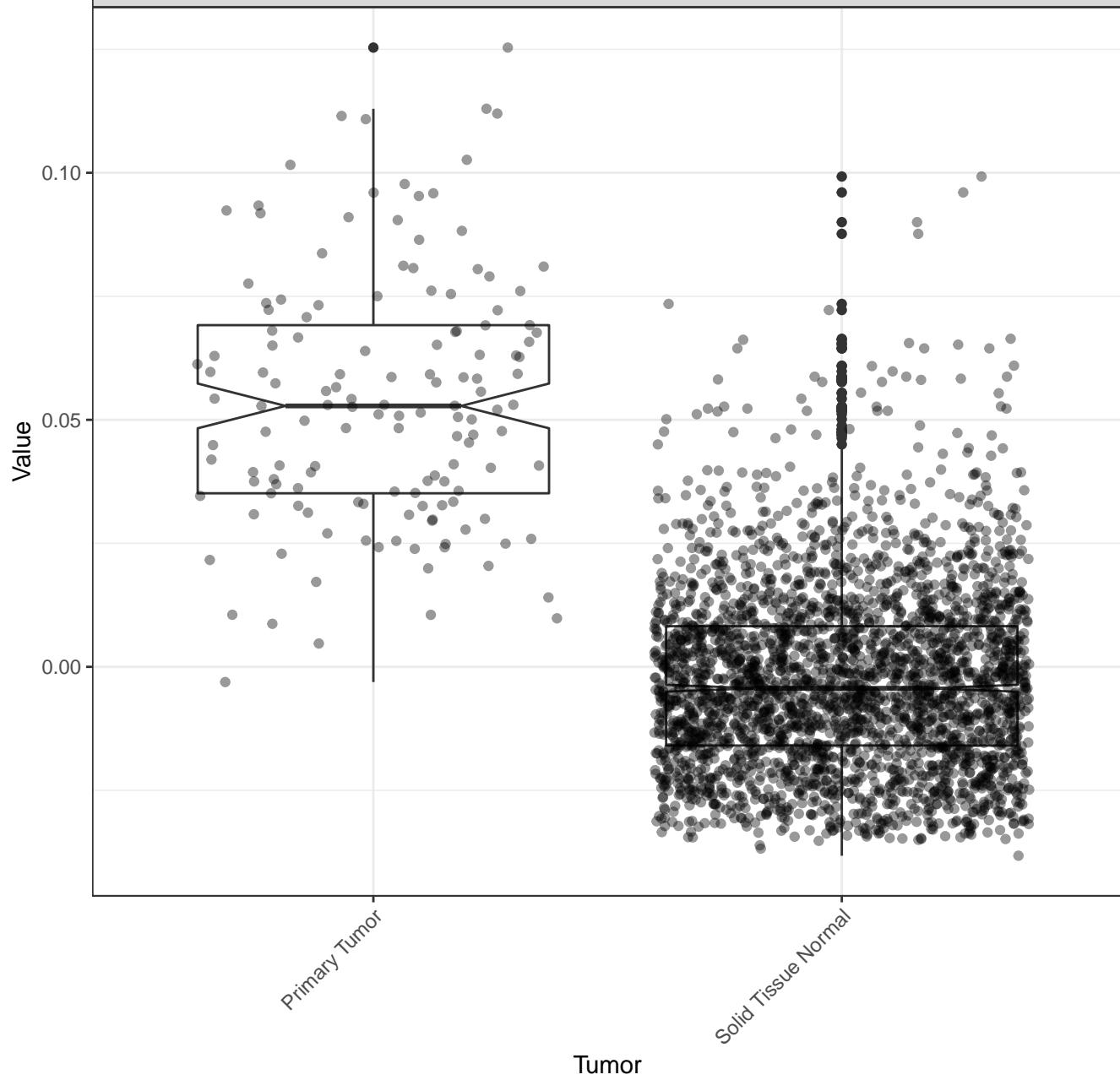
## 365,DMAP\_EOS2



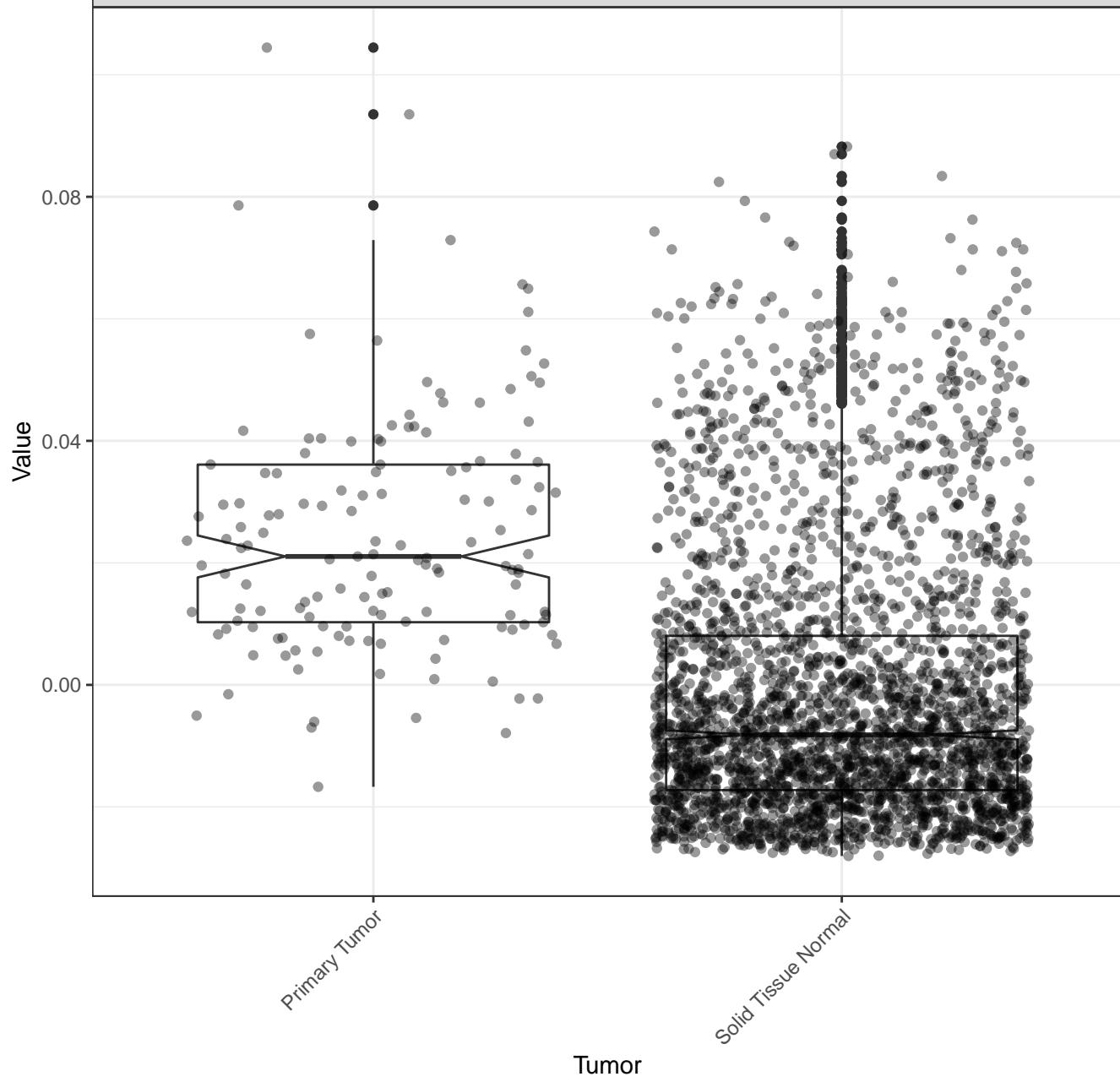
LV 366

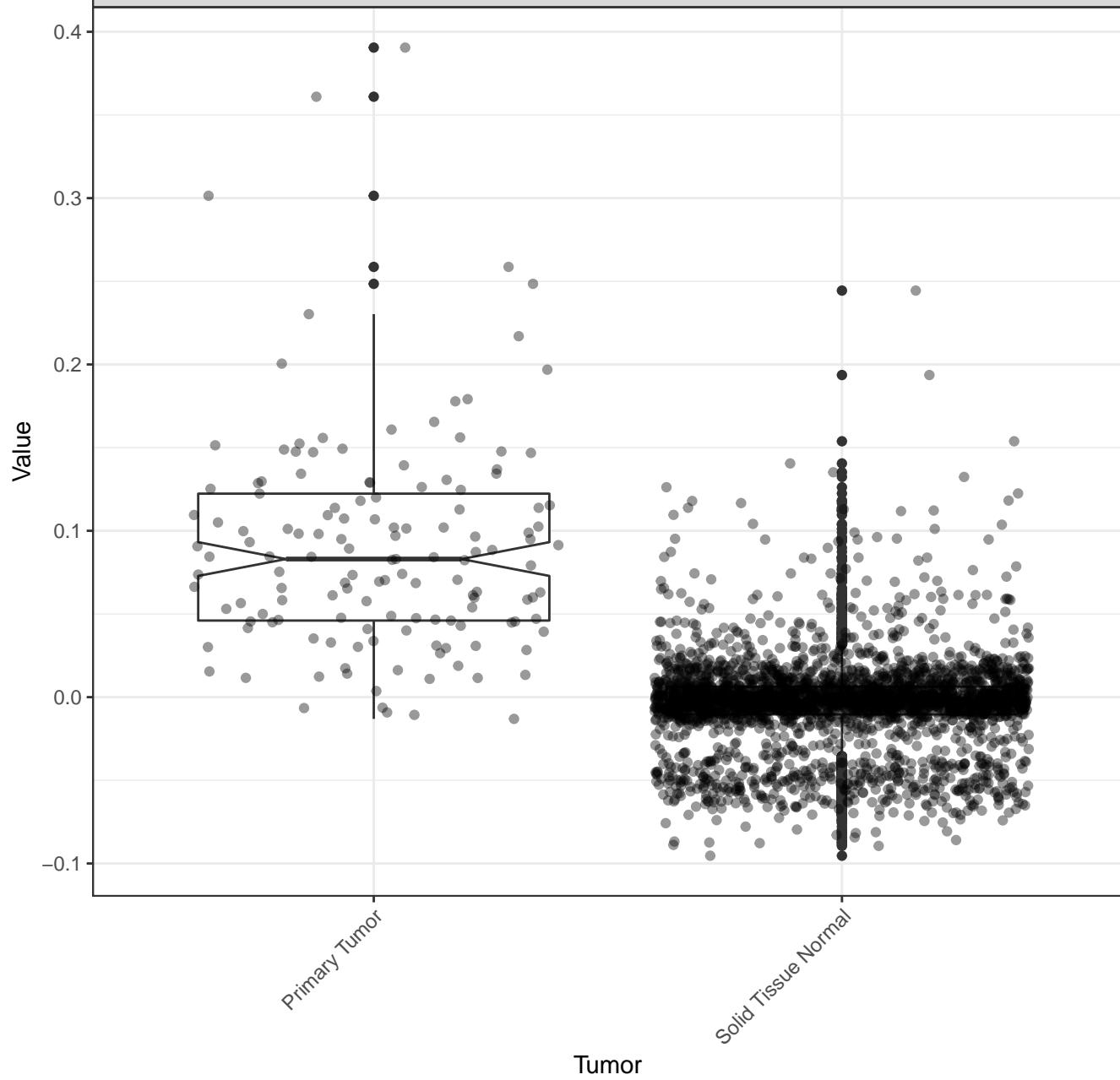


## 367,PID\_FANCONI\_PATHWAY

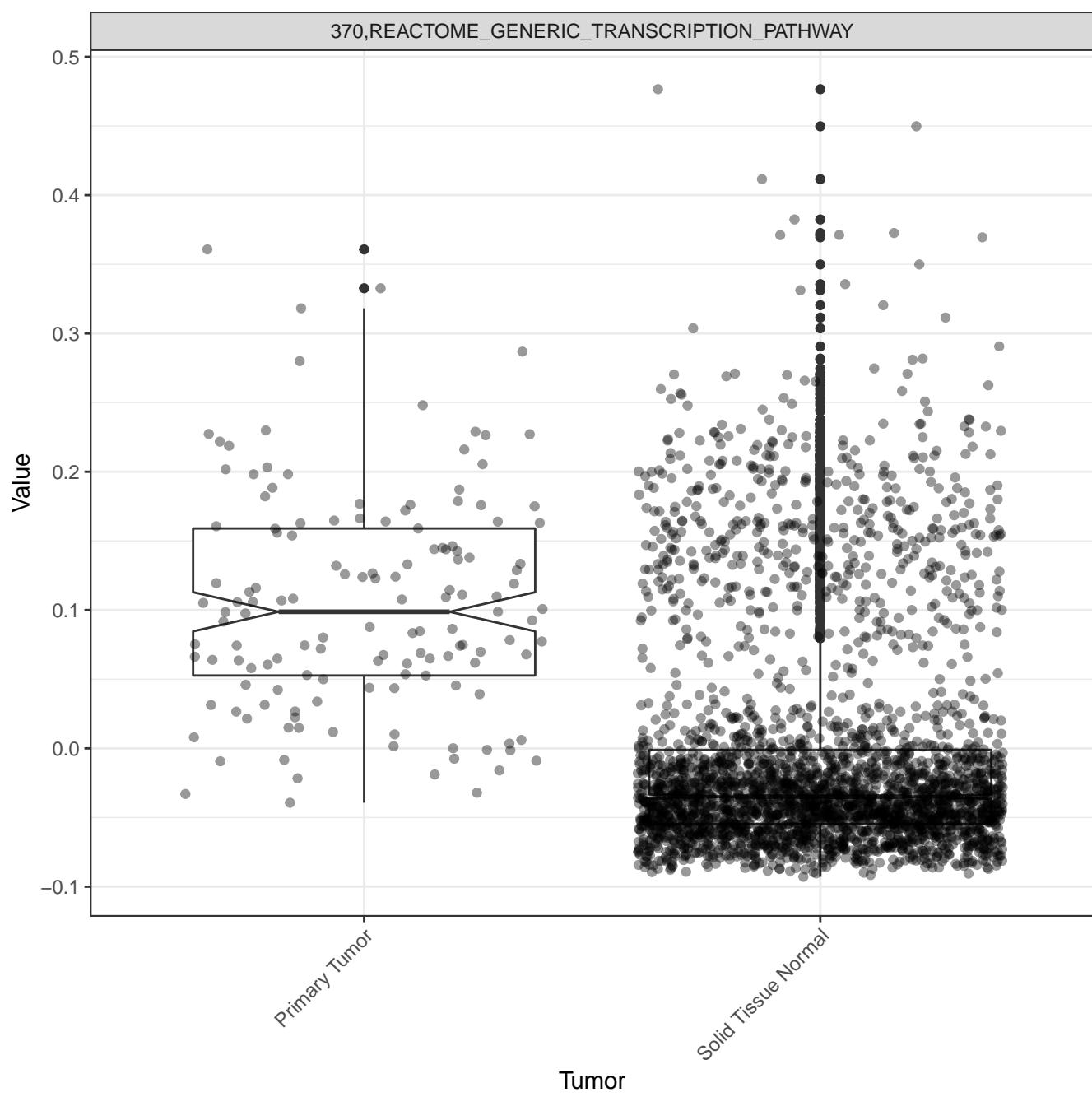


## 368,KEGG\_AXON\_GUIDANCE

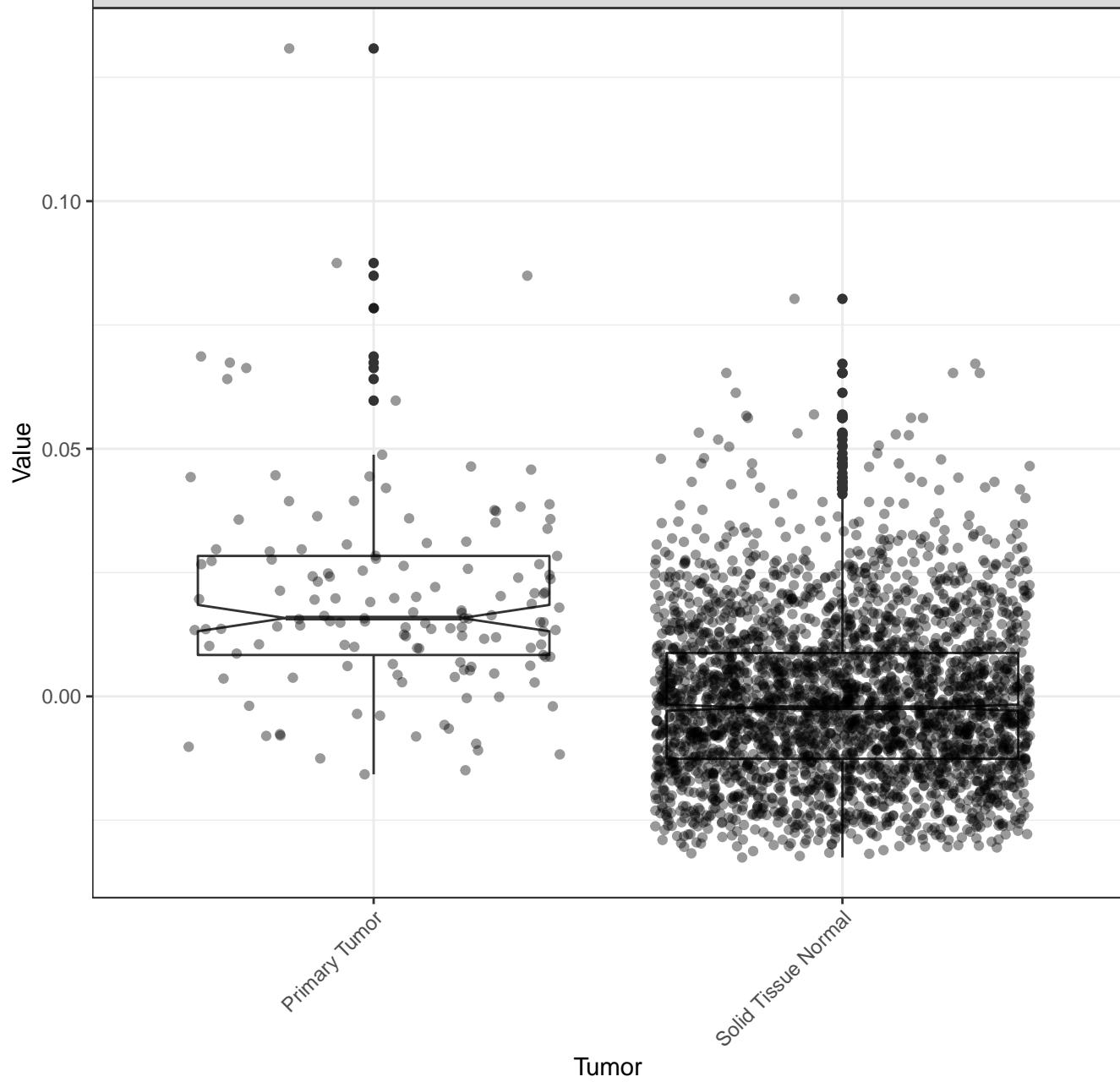




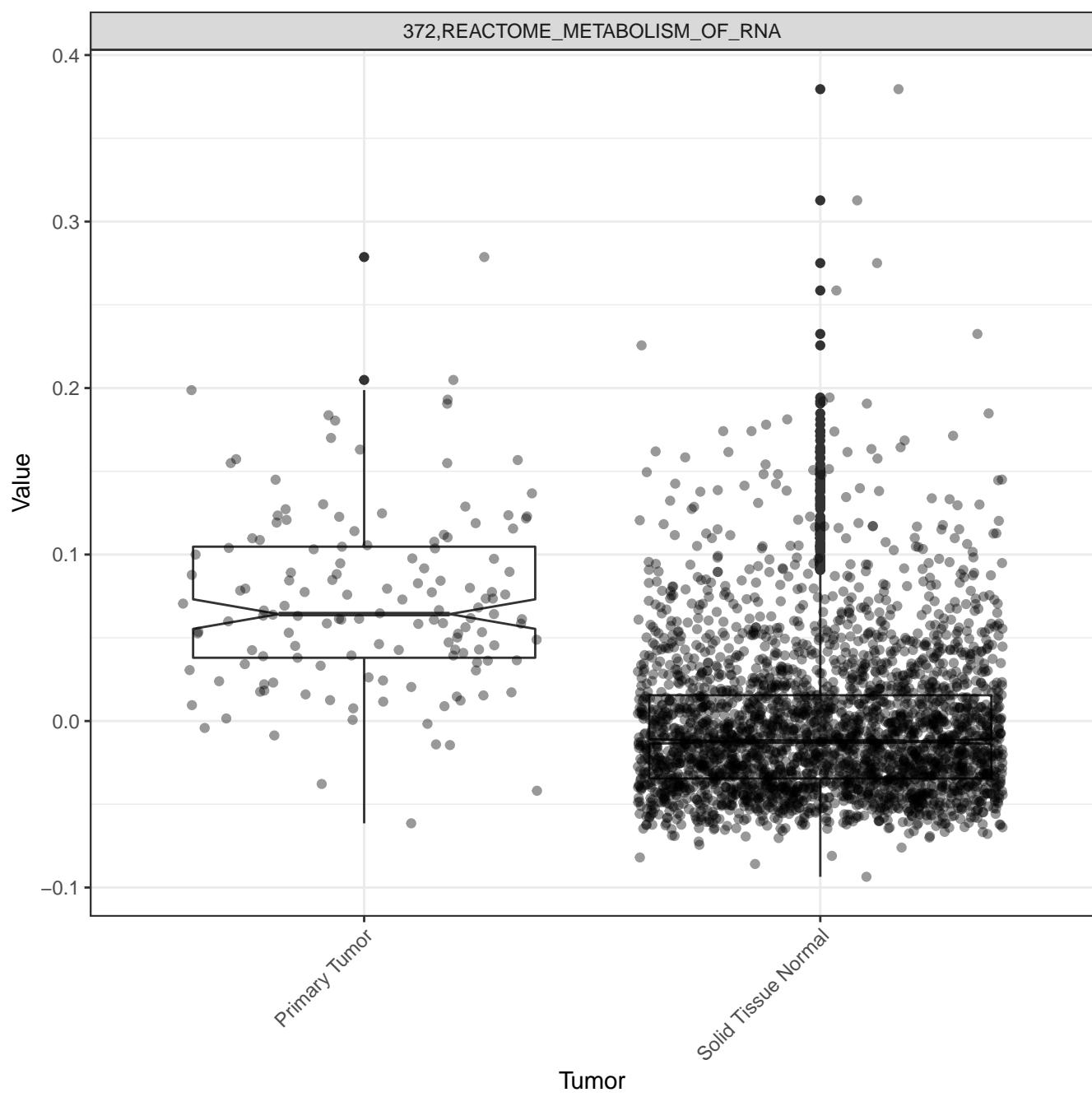
370,REACTOME\_GENERIC\_TRANSSCRIPTION\_PATHWAY



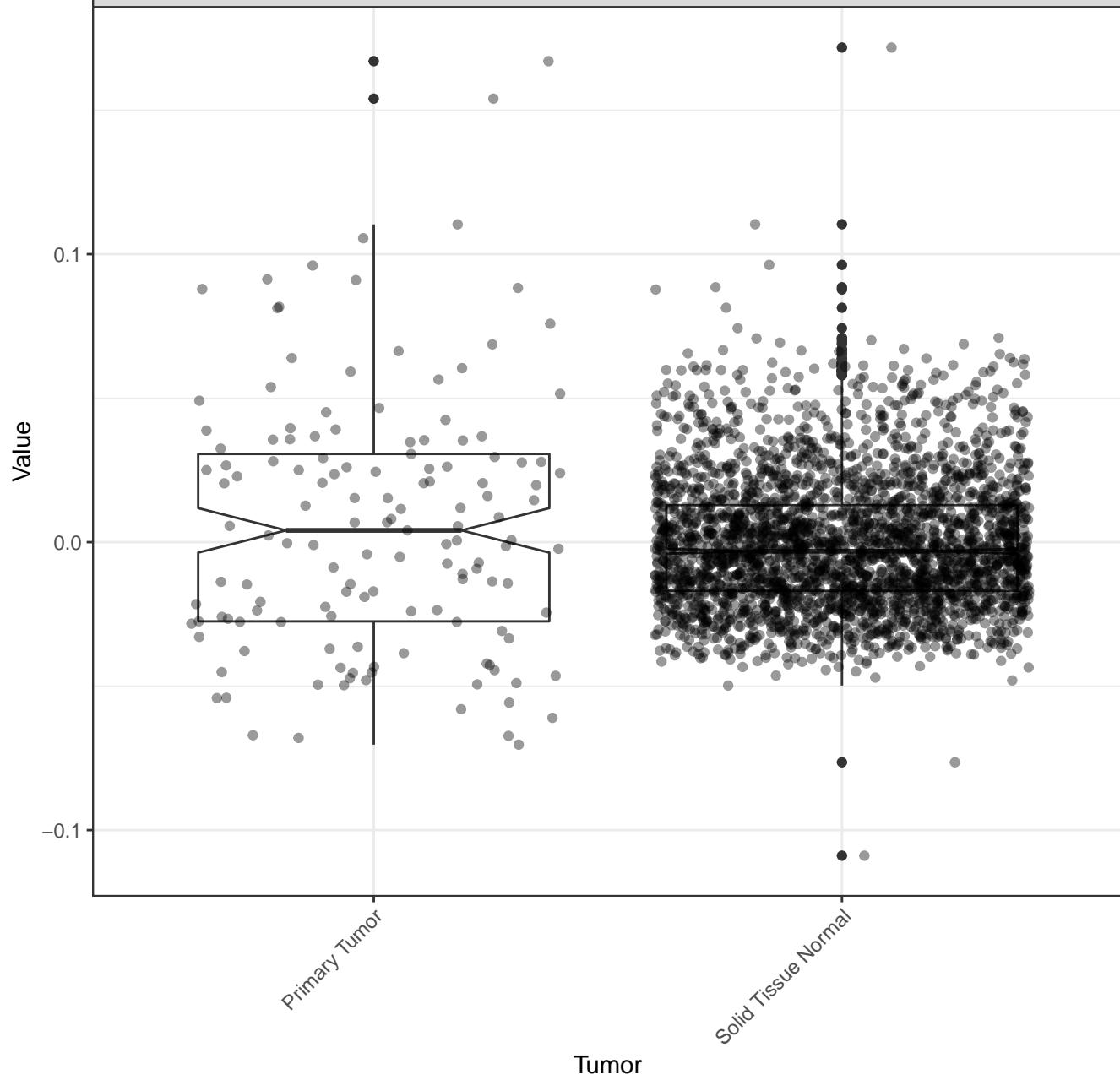
### 371,PID\_ERBB1\_DOWNSTREAM\_PATHWAY



## 372,REACTOME\_METABOLISM\_OF\_RNA



### 373,REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS



## 374,DMAP\_TCELLA2

Value

0.20  
0.15  
0.10  
0.05  
0.00  
-0.05

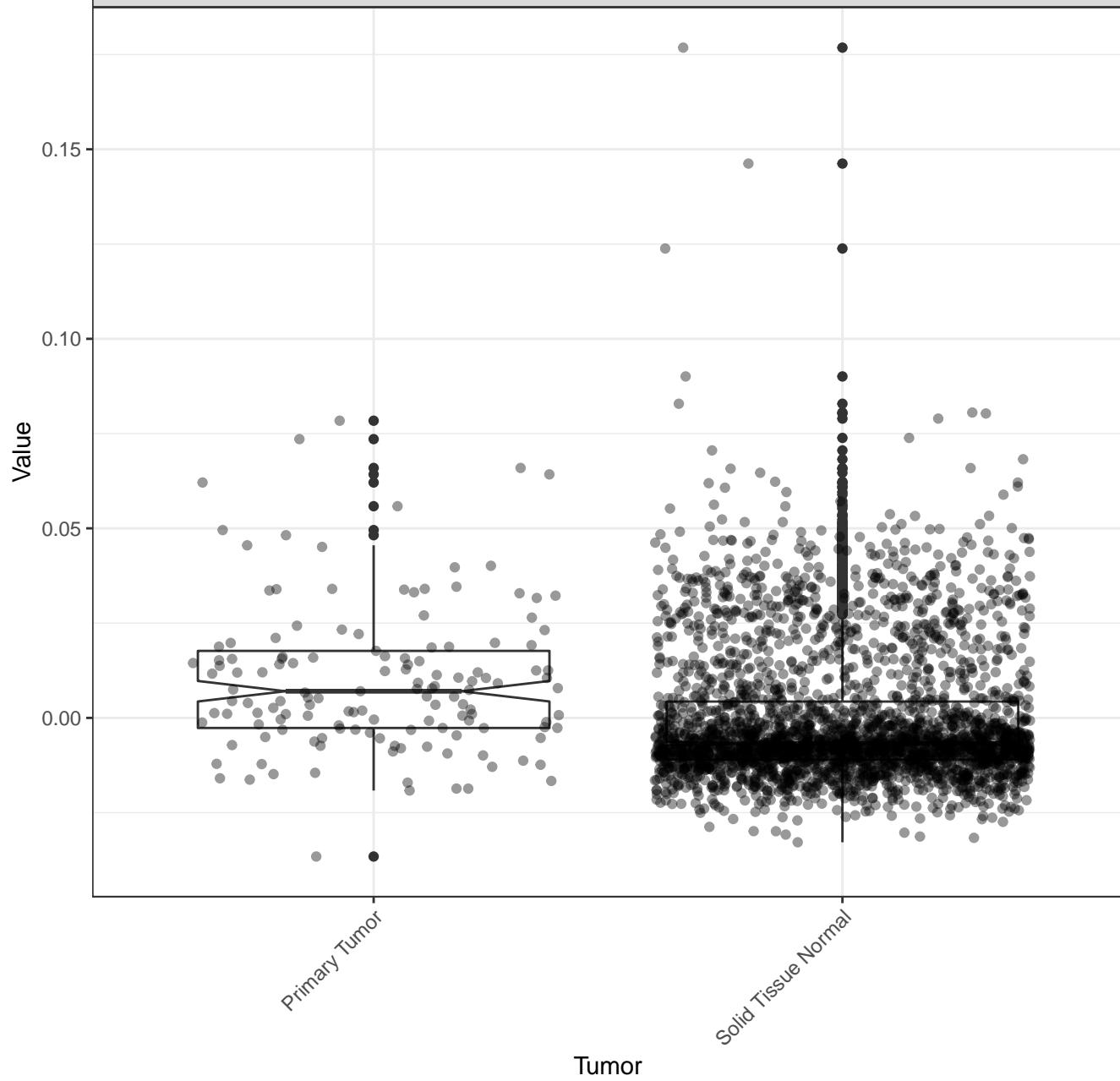
Primary Tumor

Solid Tissue Normal

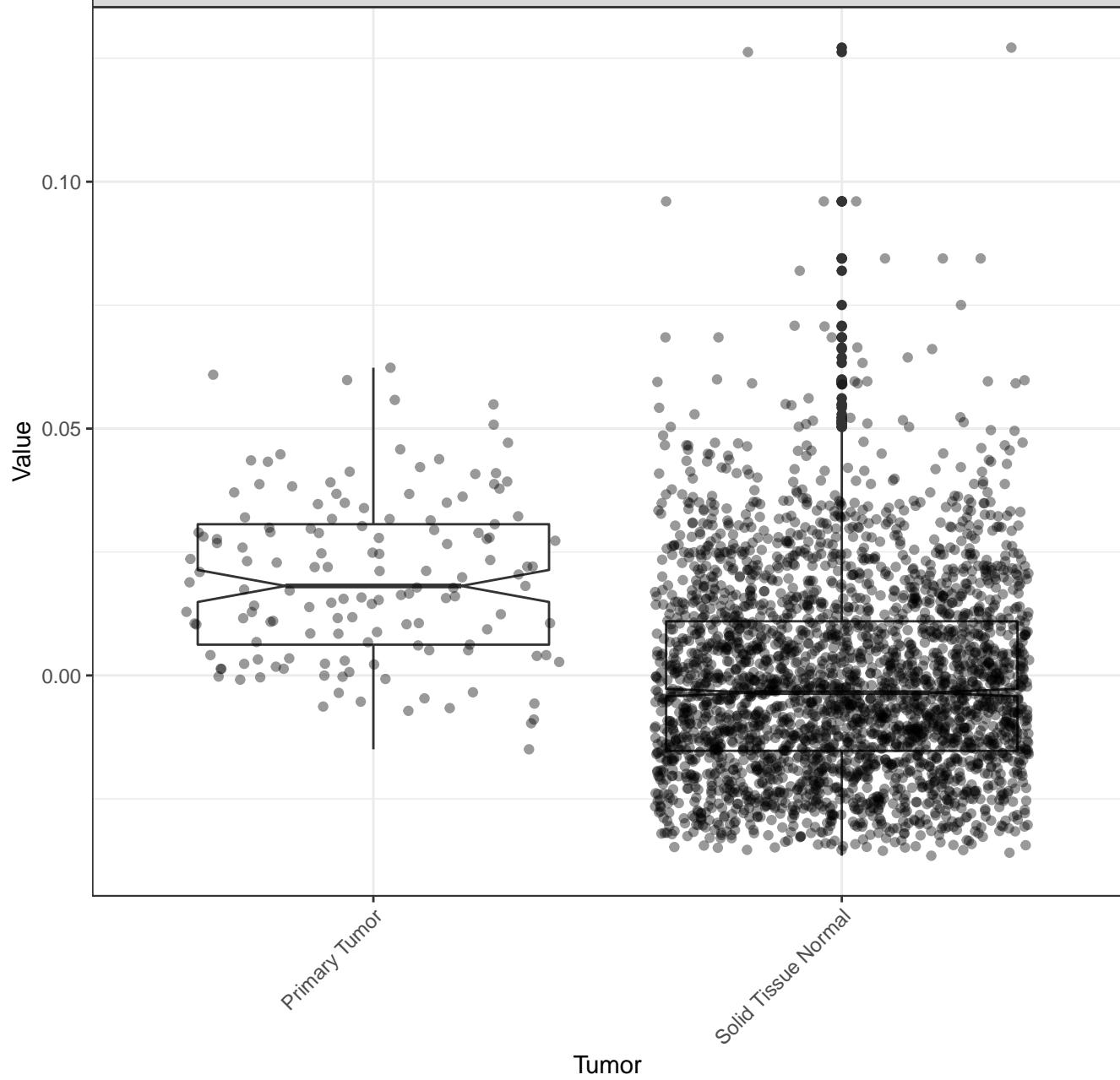
Tumor



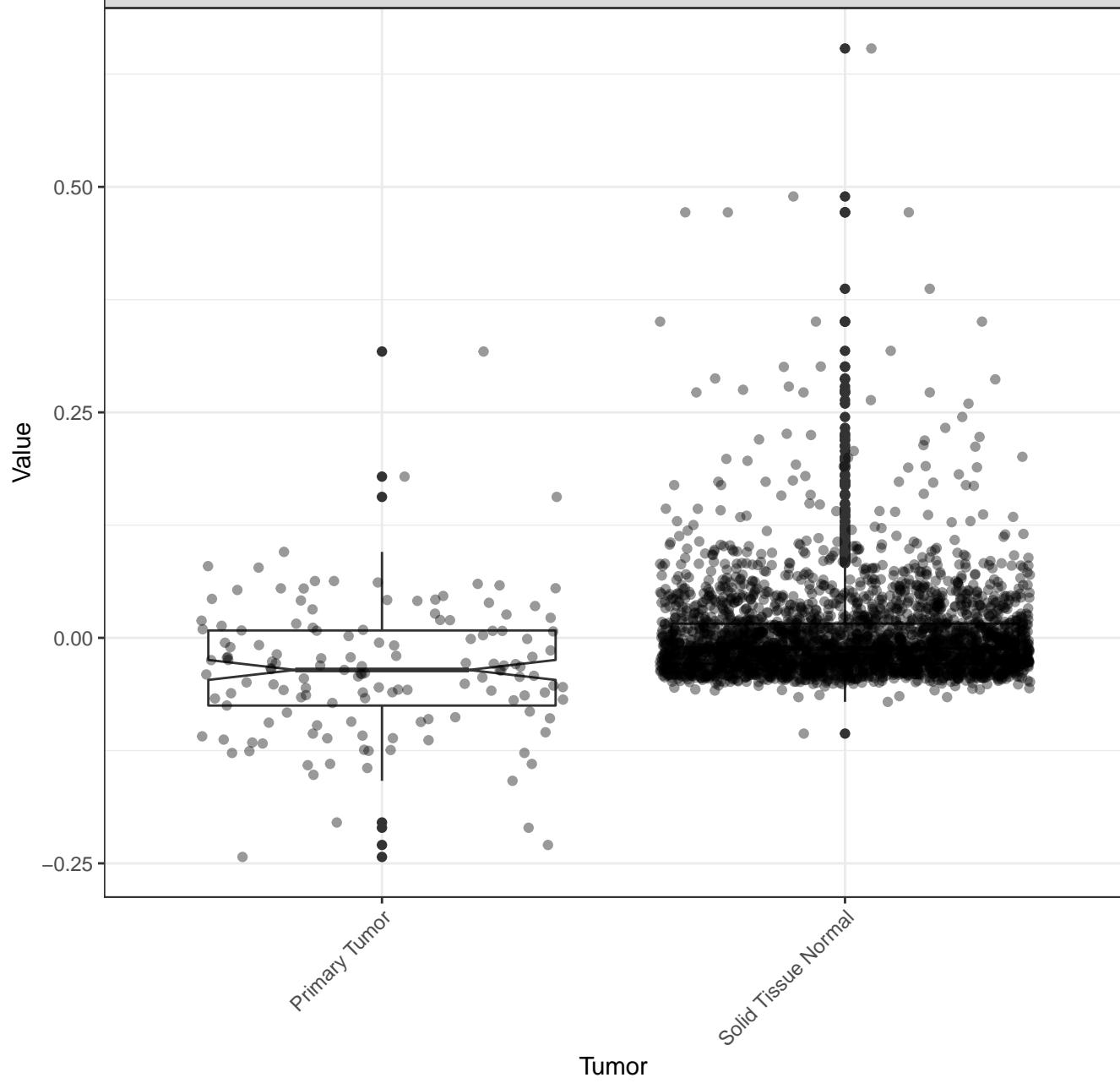
### 375,KEGG\_NUCLEOTIDE\_EXCISION\_REPAIR



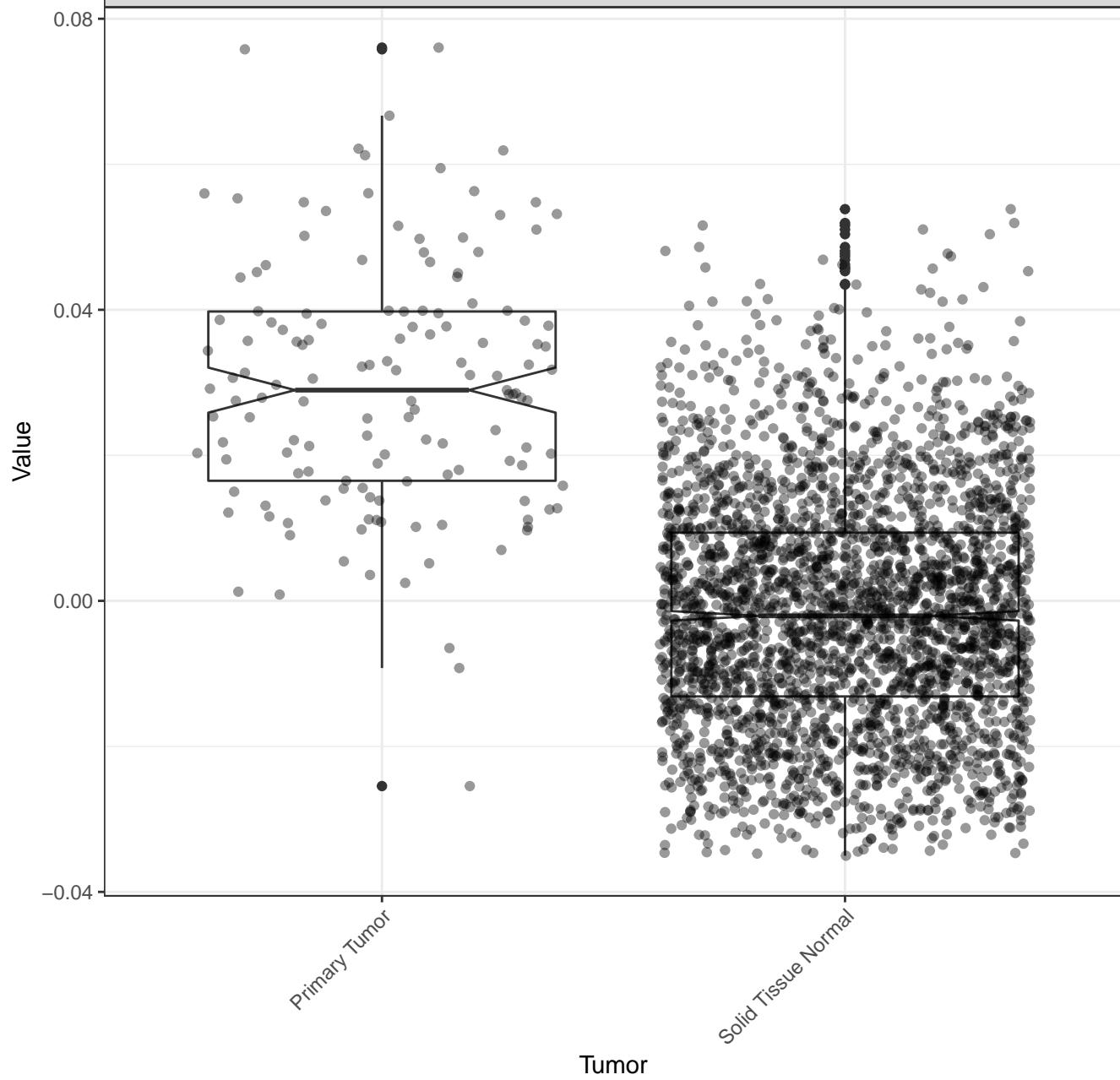
LV 376



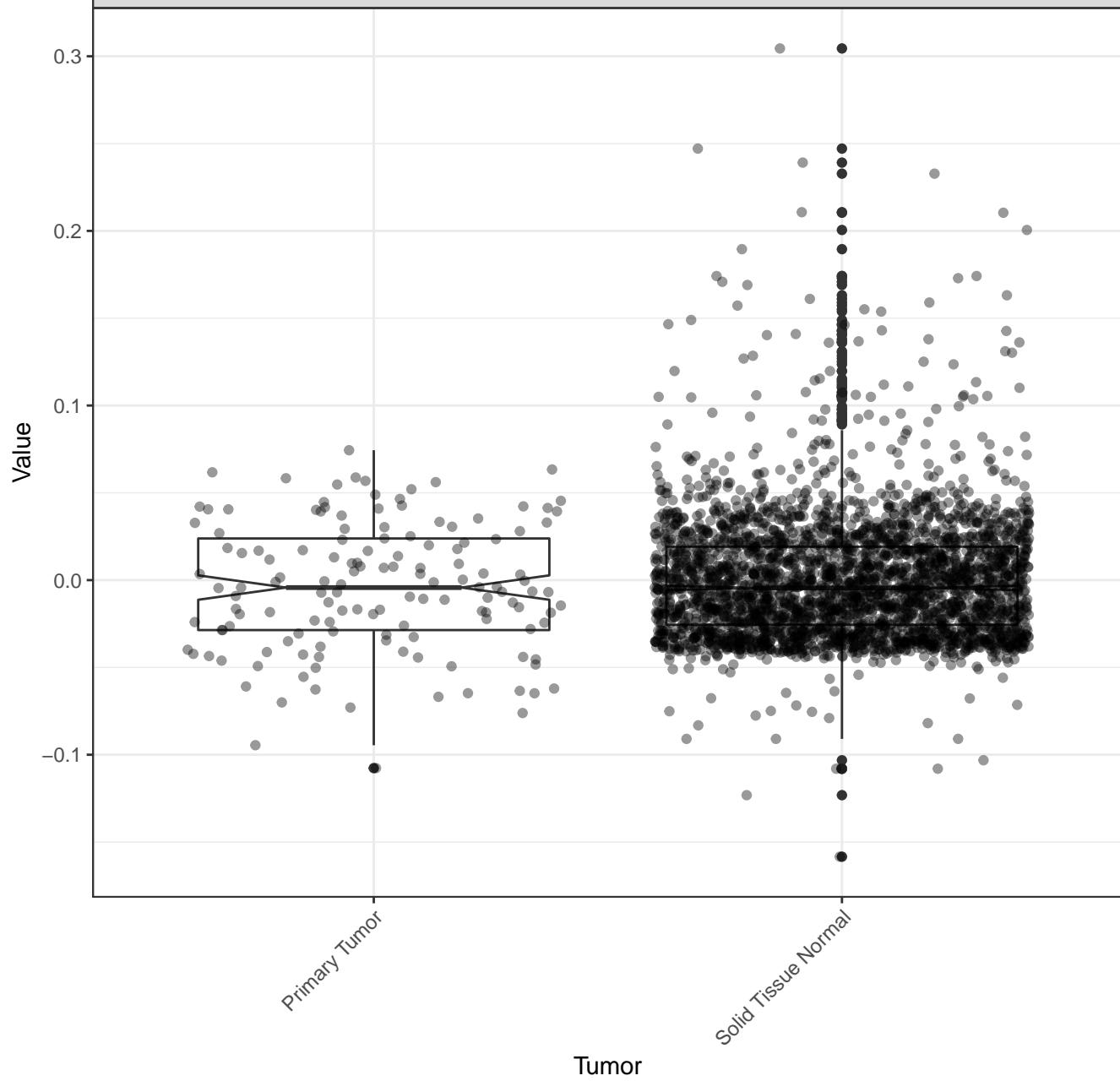
## 377,DMAP\_ERY3

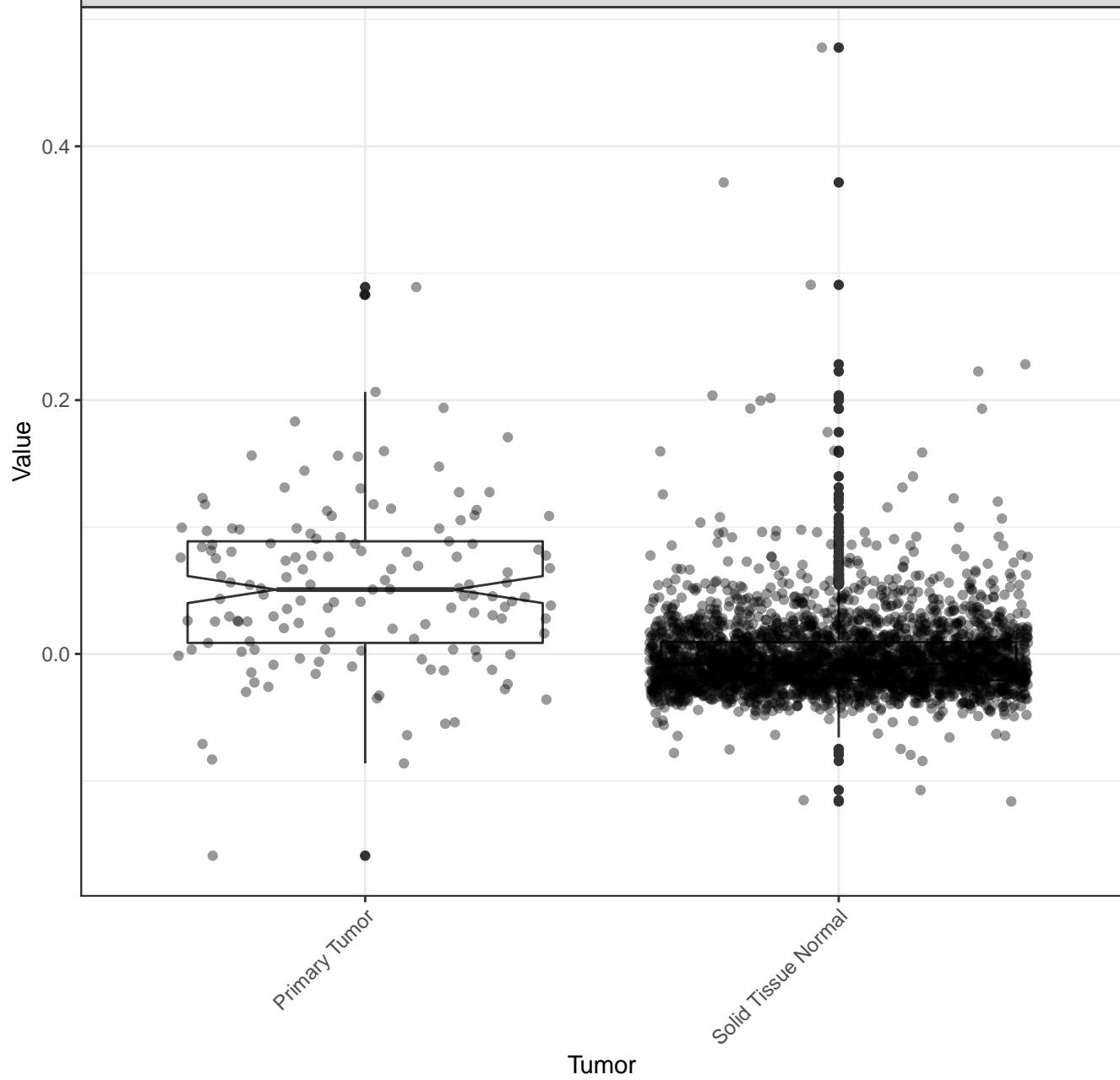


# 378,REACTOME\_HOST\_INTERACTIONS\_OF\_HIV\_FACTORS

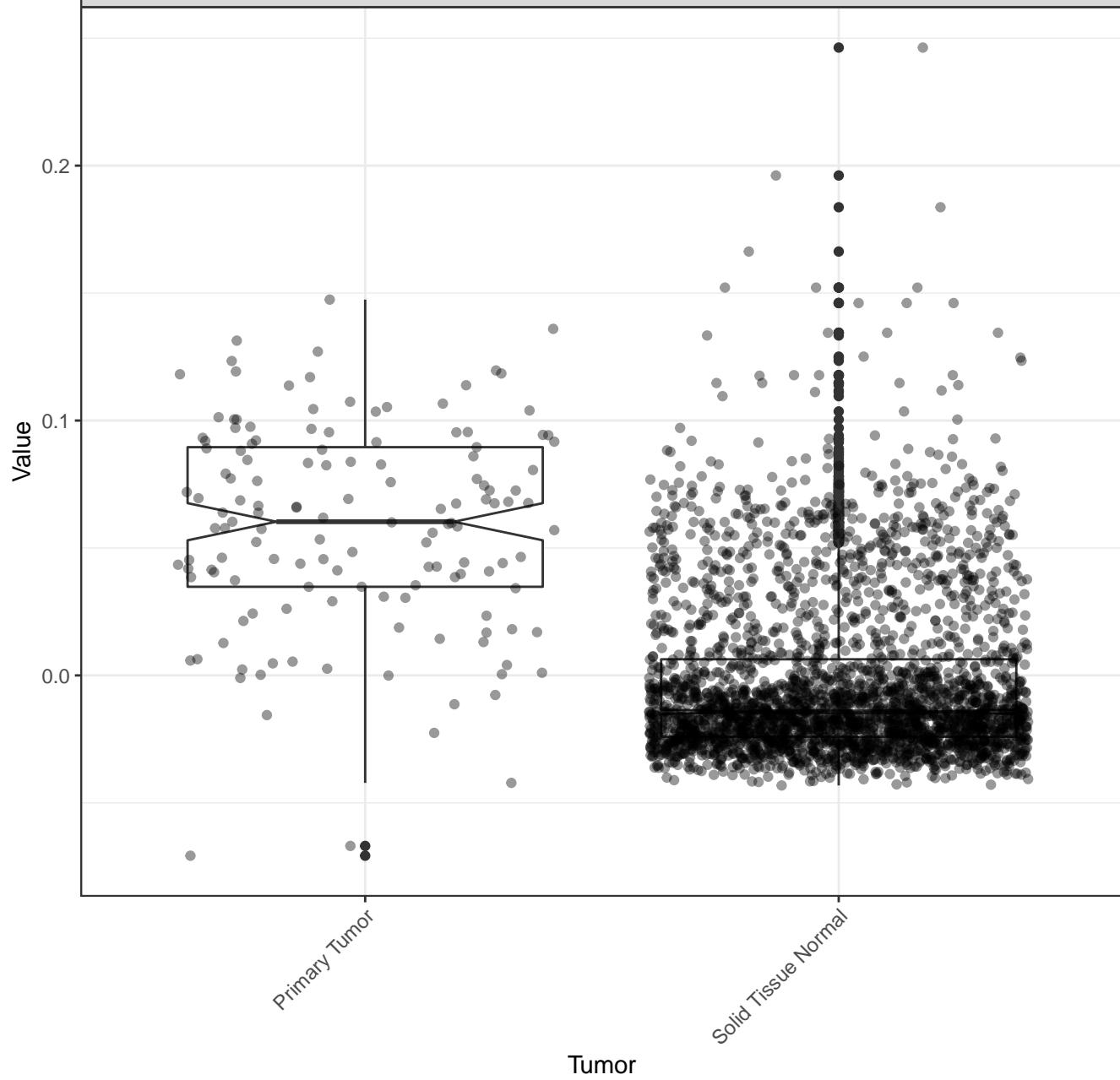


### 379,KEGG\_LYSOSOME

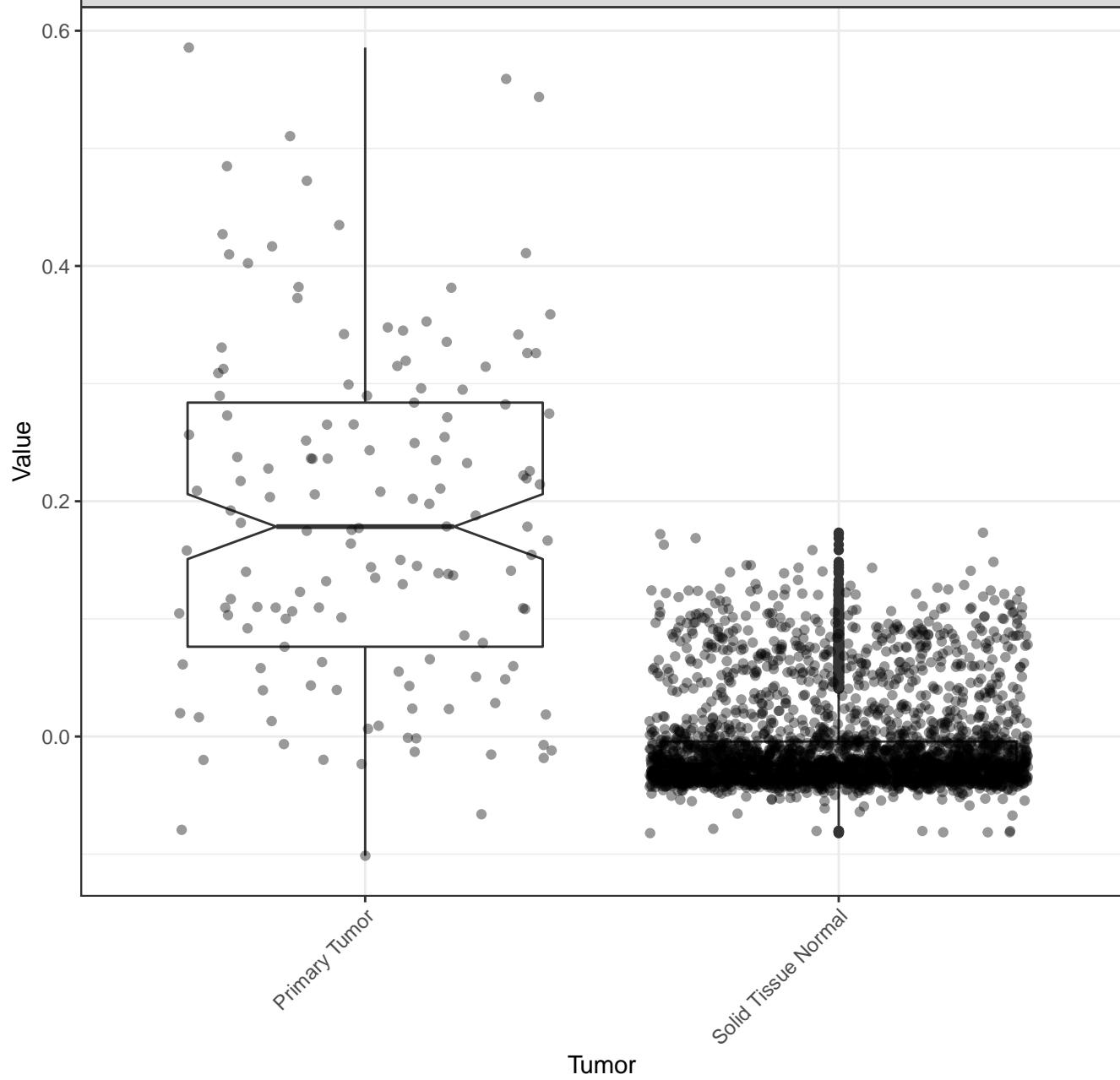




## 381,MIPS\_SPliceosome



382,MIPS\_NOP56P\_ASSOCIATED\_PRE\_RRNA\_COMPLEX



LV 383

Value

0.15

0.10

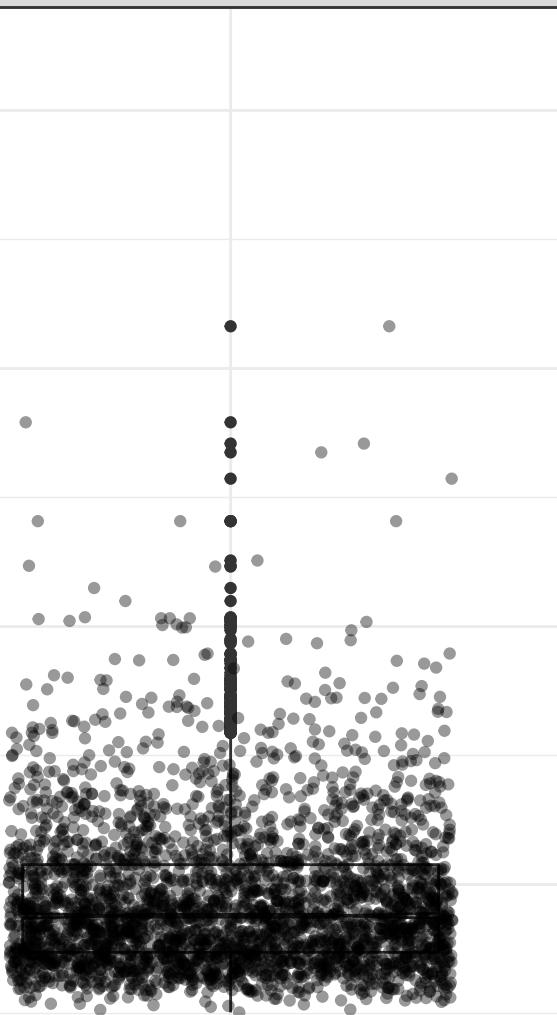
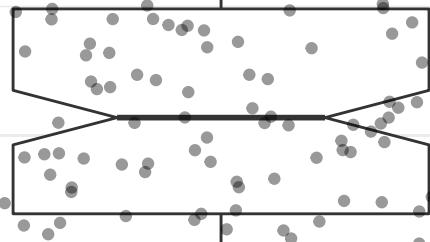
0.05

0.00

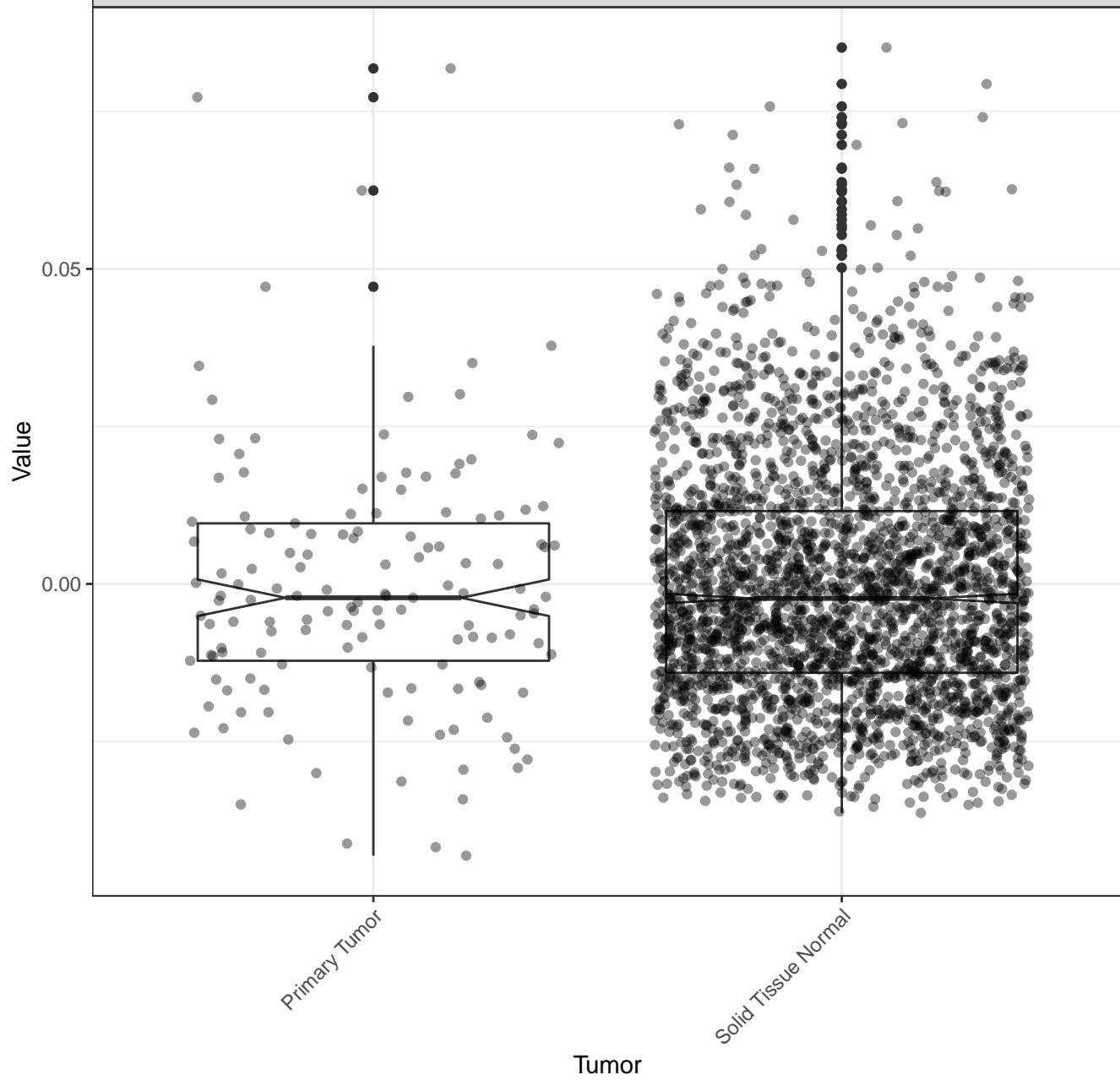
Primary Tumor

Solid Tissue Normal

Tumor



## 384,PID\_INTEGRIN1\_PATHWAY



Value

0.15

0.10

0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor

