

## 1,IRIS\_Monocyte–Day1

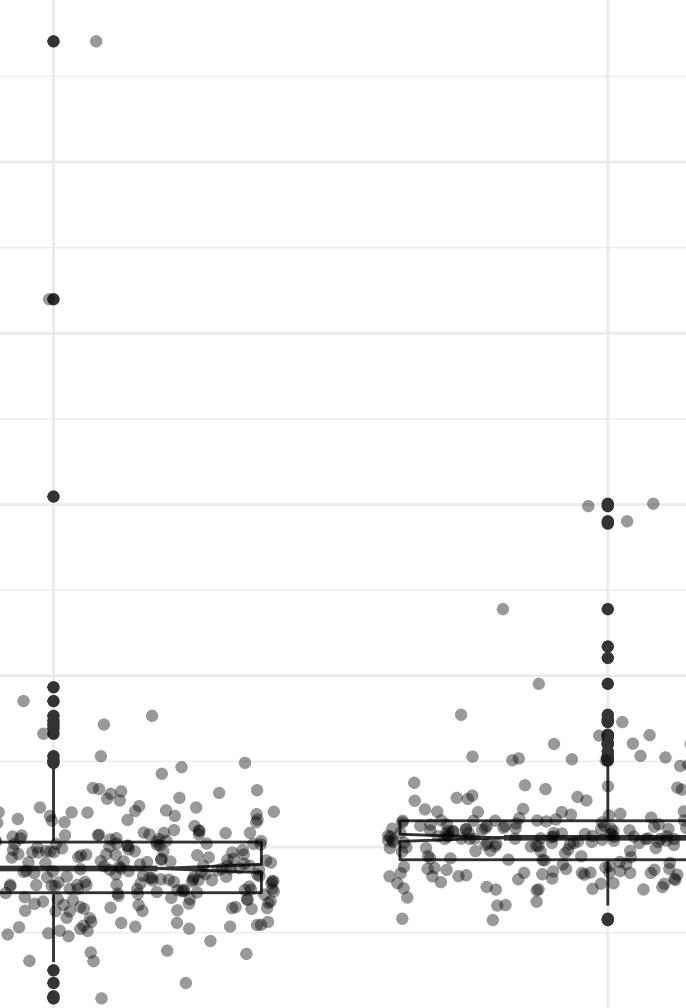
Value

0.4  
0.3  
0.2  
0.1  
0.0  
-0.1

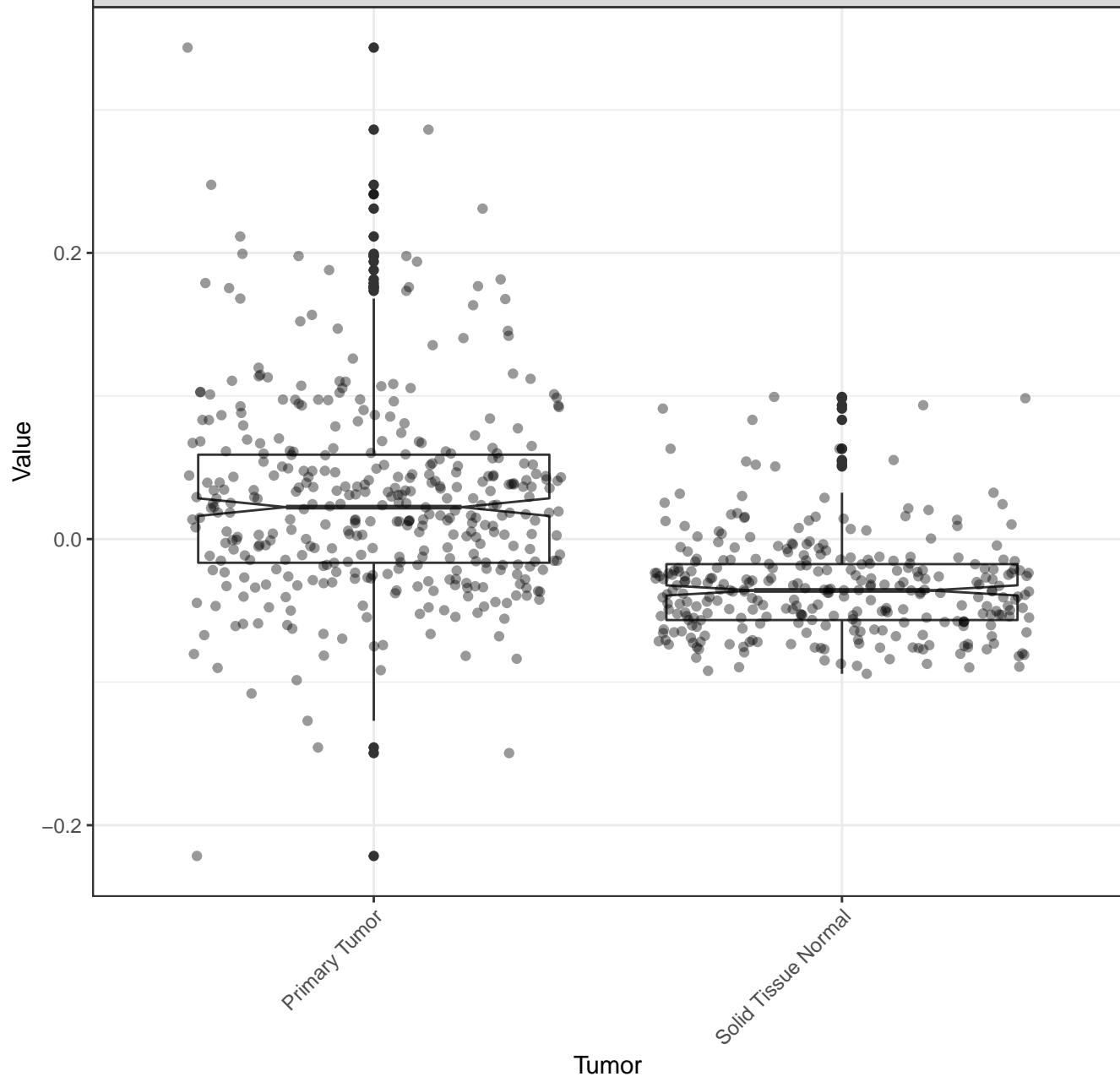
Primary Tumor

Solid Tissue Normal

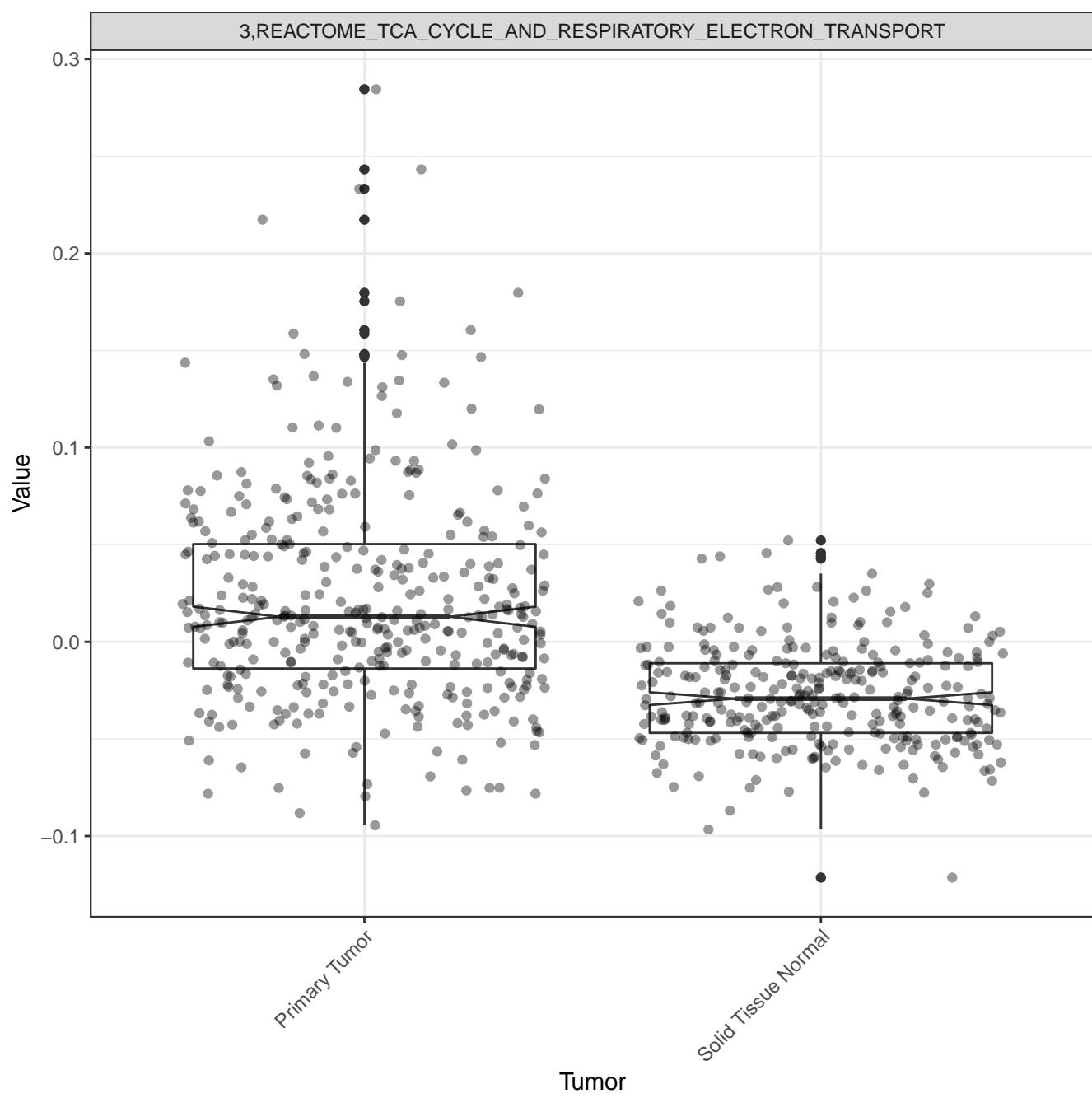
Tumor



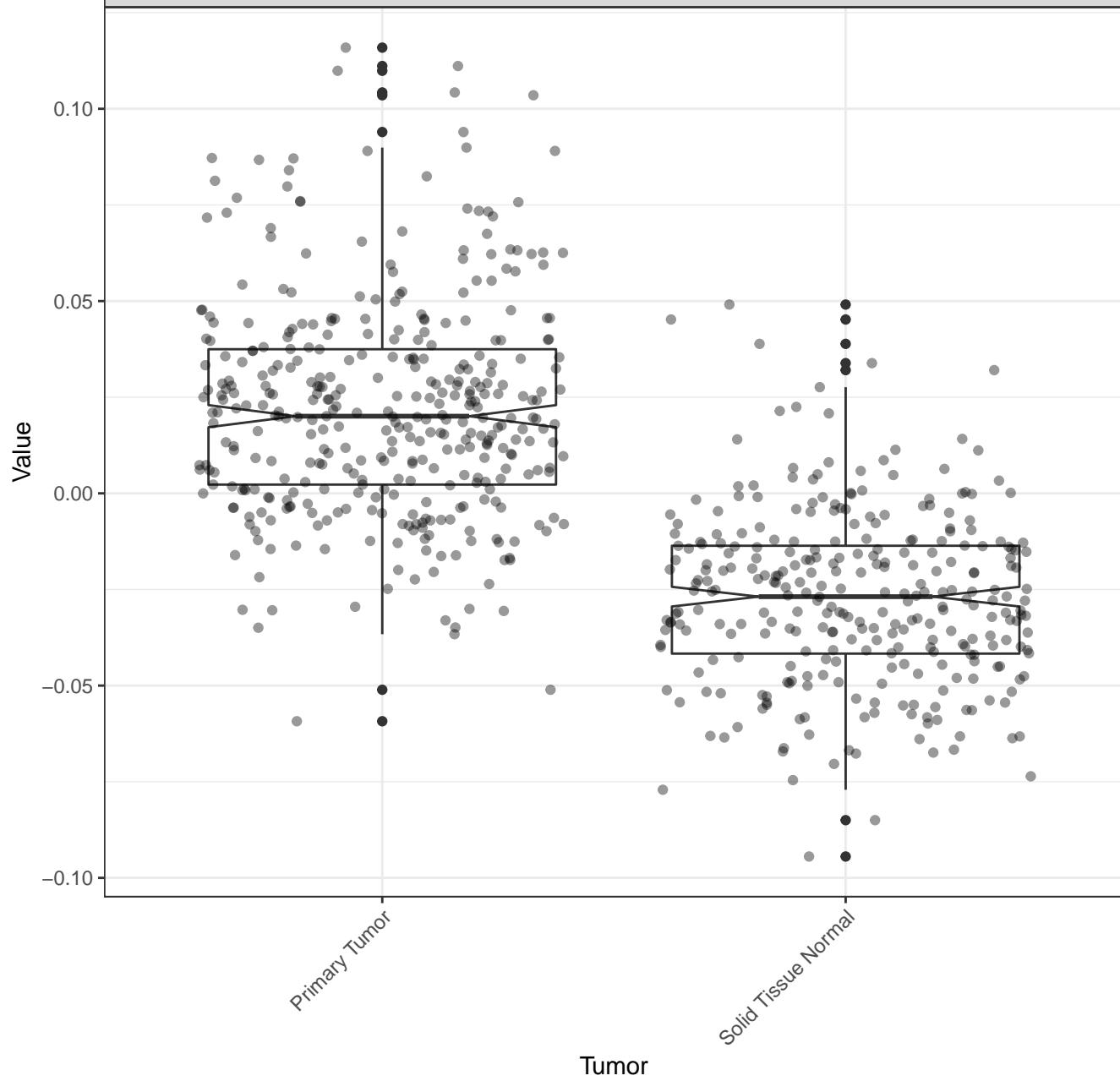
## 2,REACTOME\_DNA\_REPLICATION



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



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



### 5,REACTOME\_NEURONAL\_SYSTEM

Value

0.3

0.2

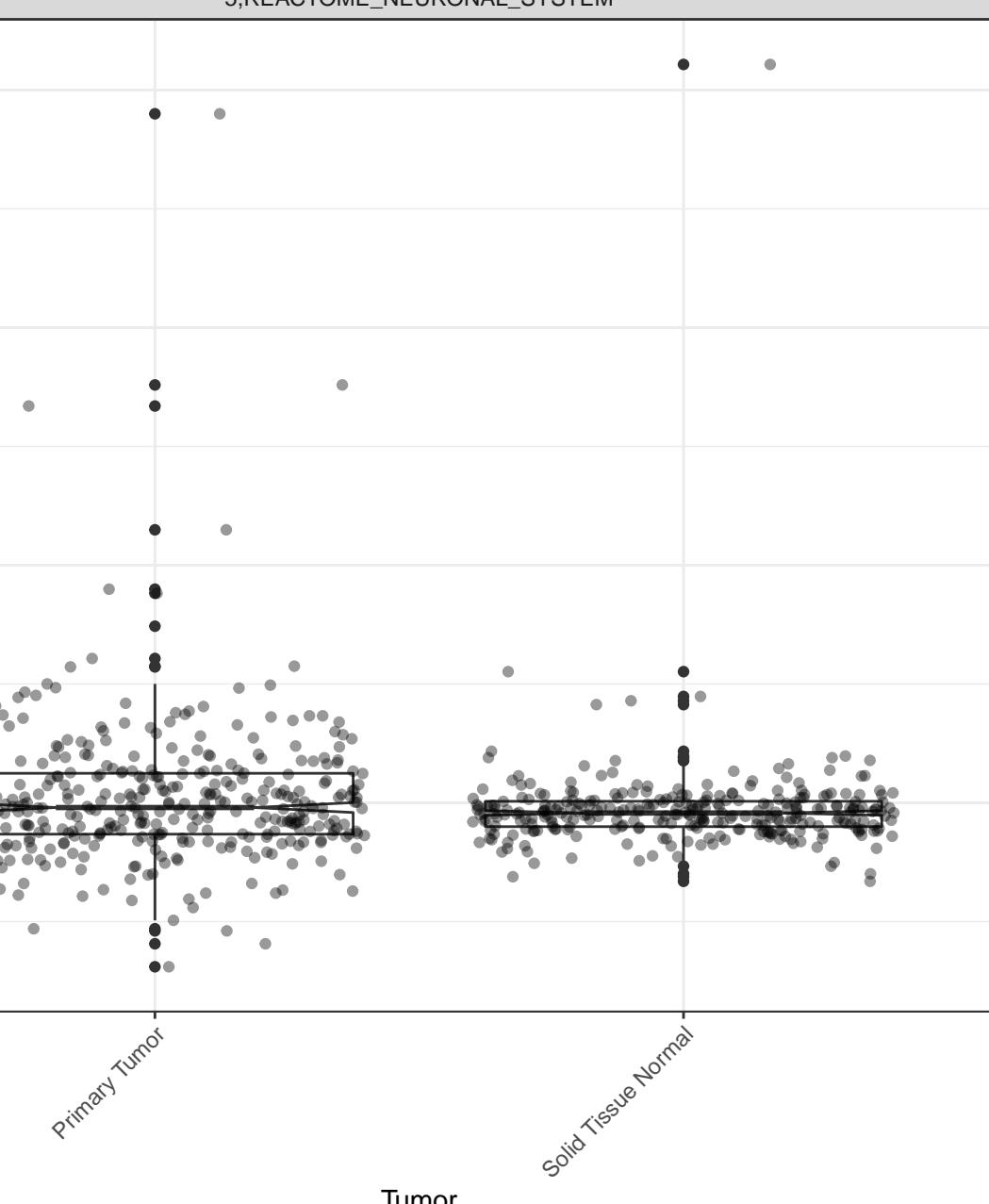
0.1

0.0

Primary Tumor

Solid Tissue Normal

Tumor



### 6,KEGG\_CYTOKINE\_CYTOKINE\_RECECTOR\_INTERACTION

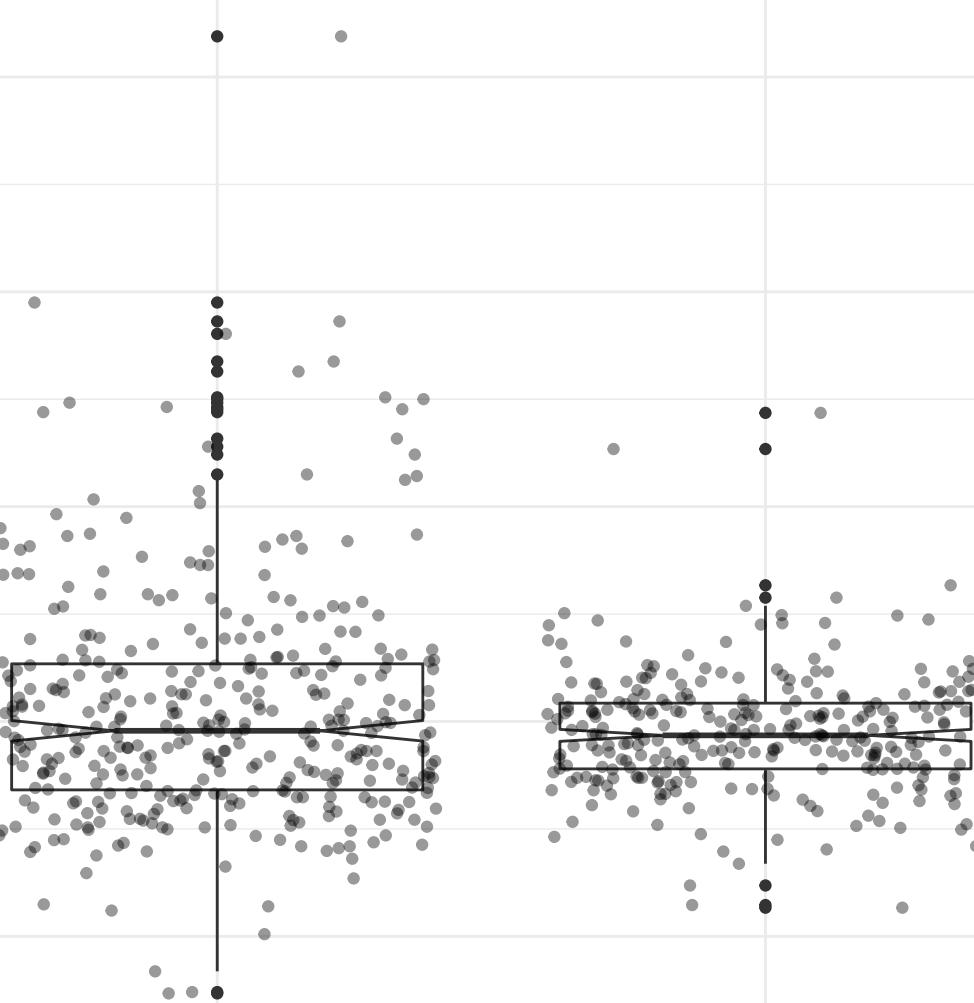
Value

0.15  
0.10  
0.05  
0.00  
-0.05

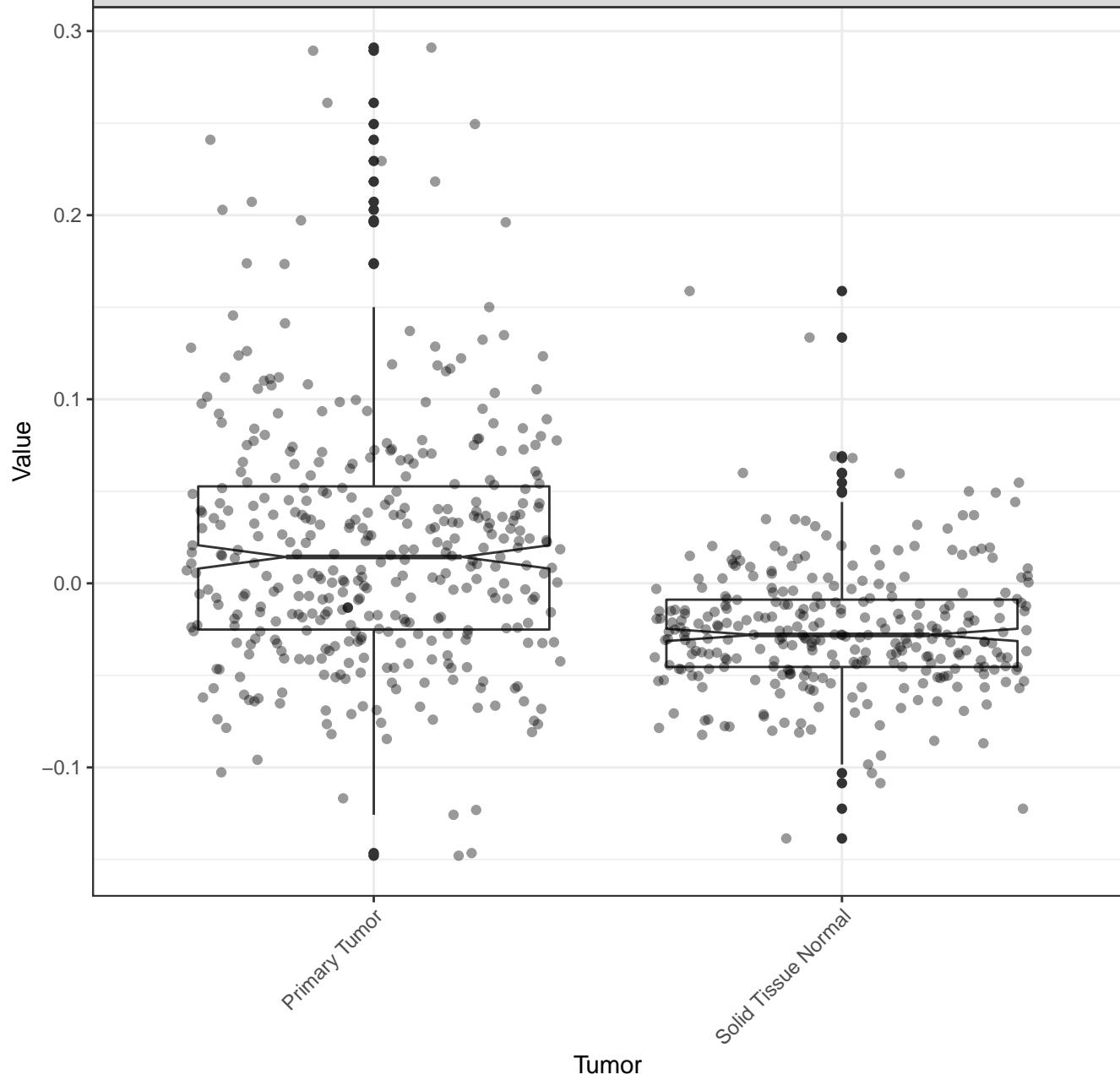
Primary Tumor

Solid Tissue Normal

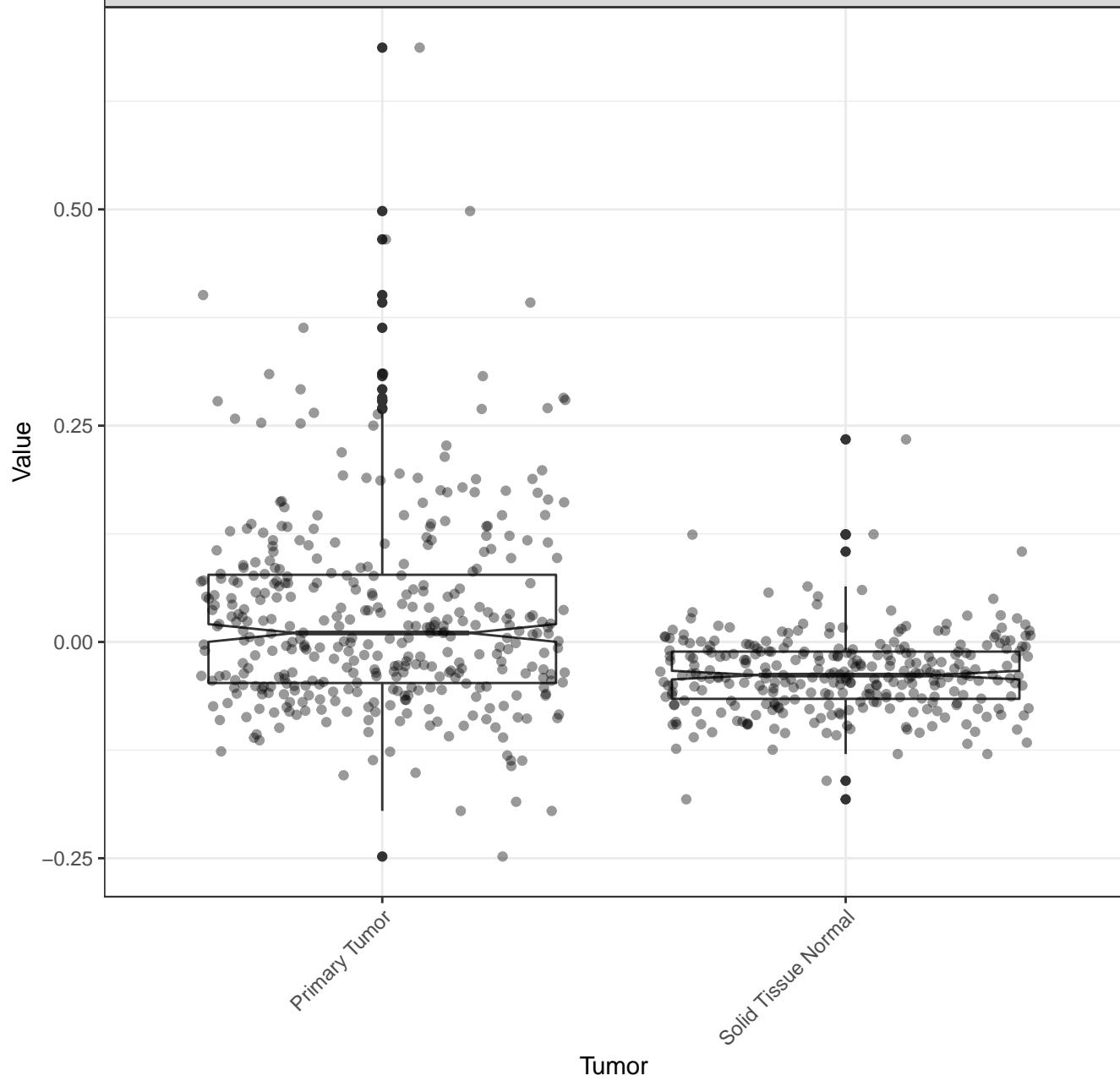
Tumor



# 7,REACTOME\_MRNA\_SPLICING



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



## 9,PID\_TCR\_PATHWAY

Value

0.75

0.50

0.25

0.00

Primary Tumor

Solid Tissue Normal

Tumor

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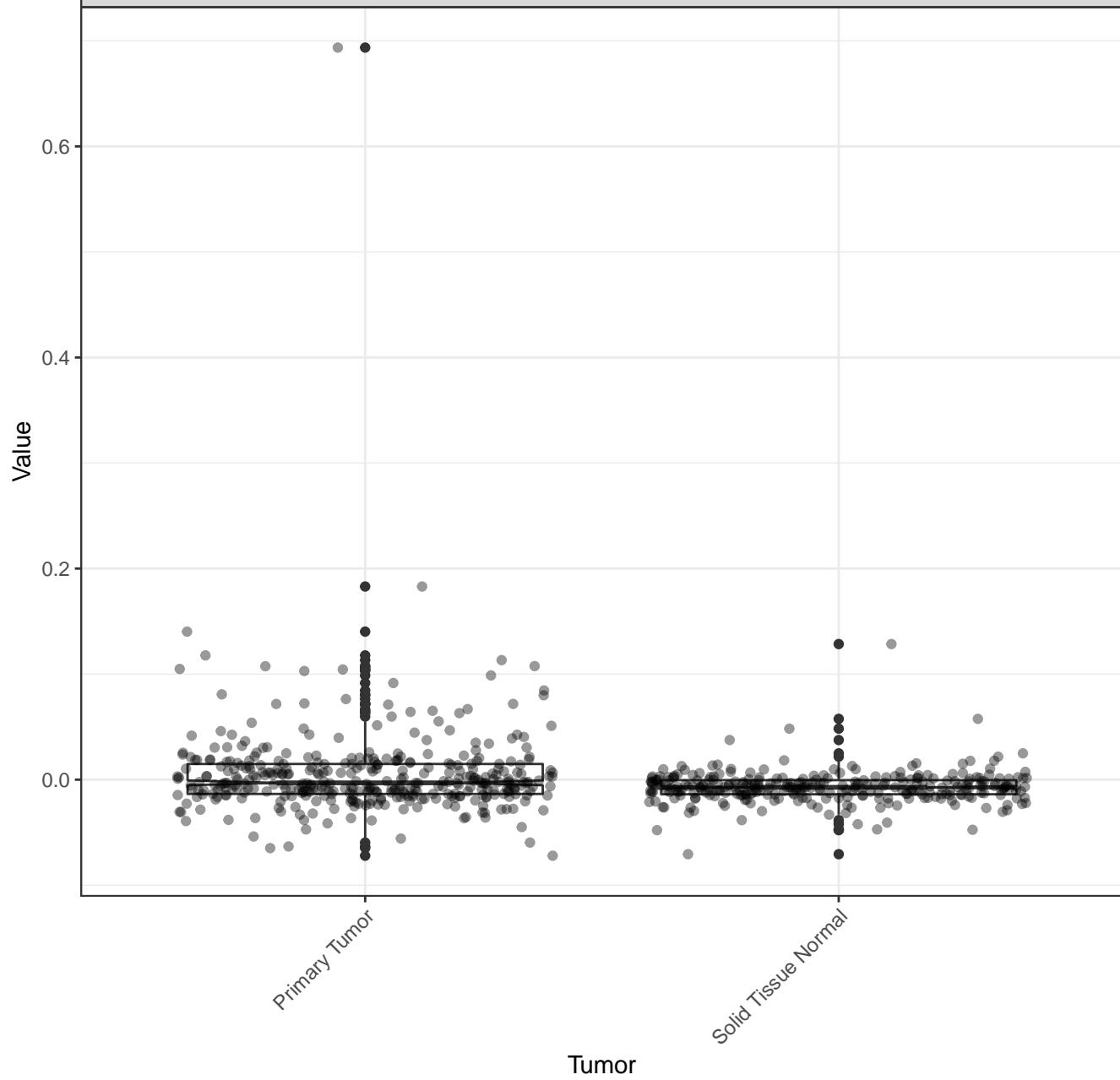
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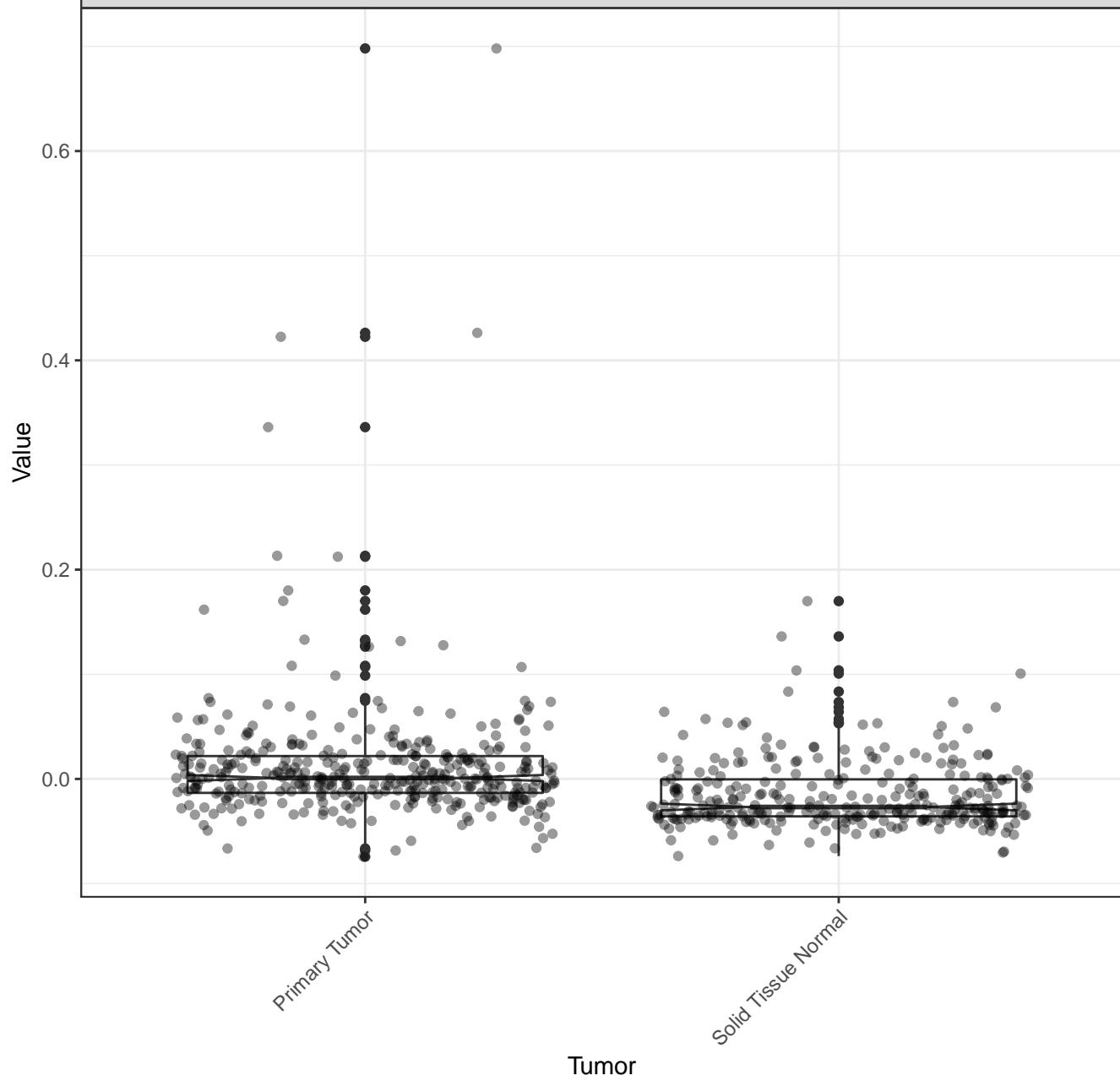
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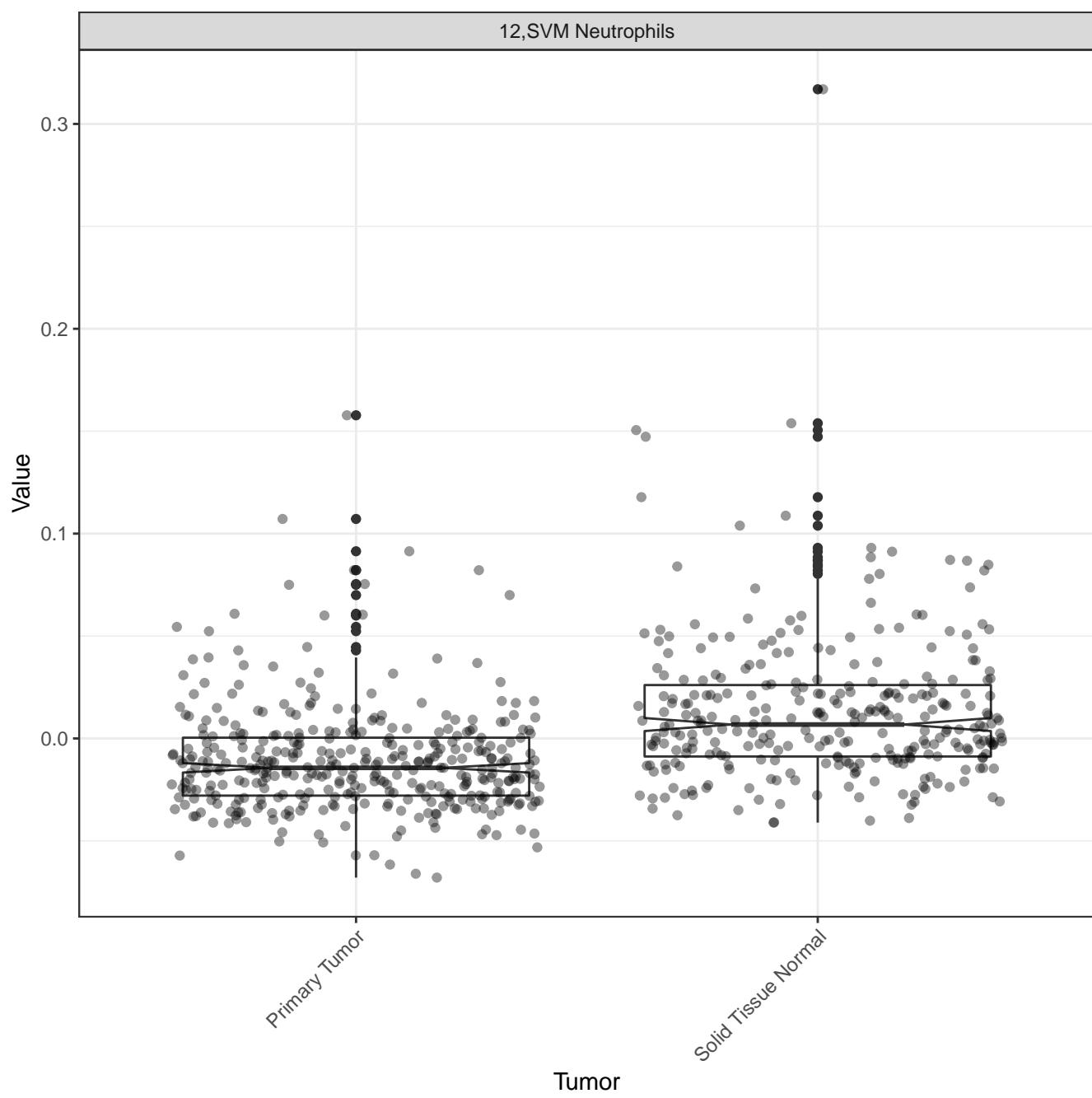
### 10,SVM T cells CD4 memory resting



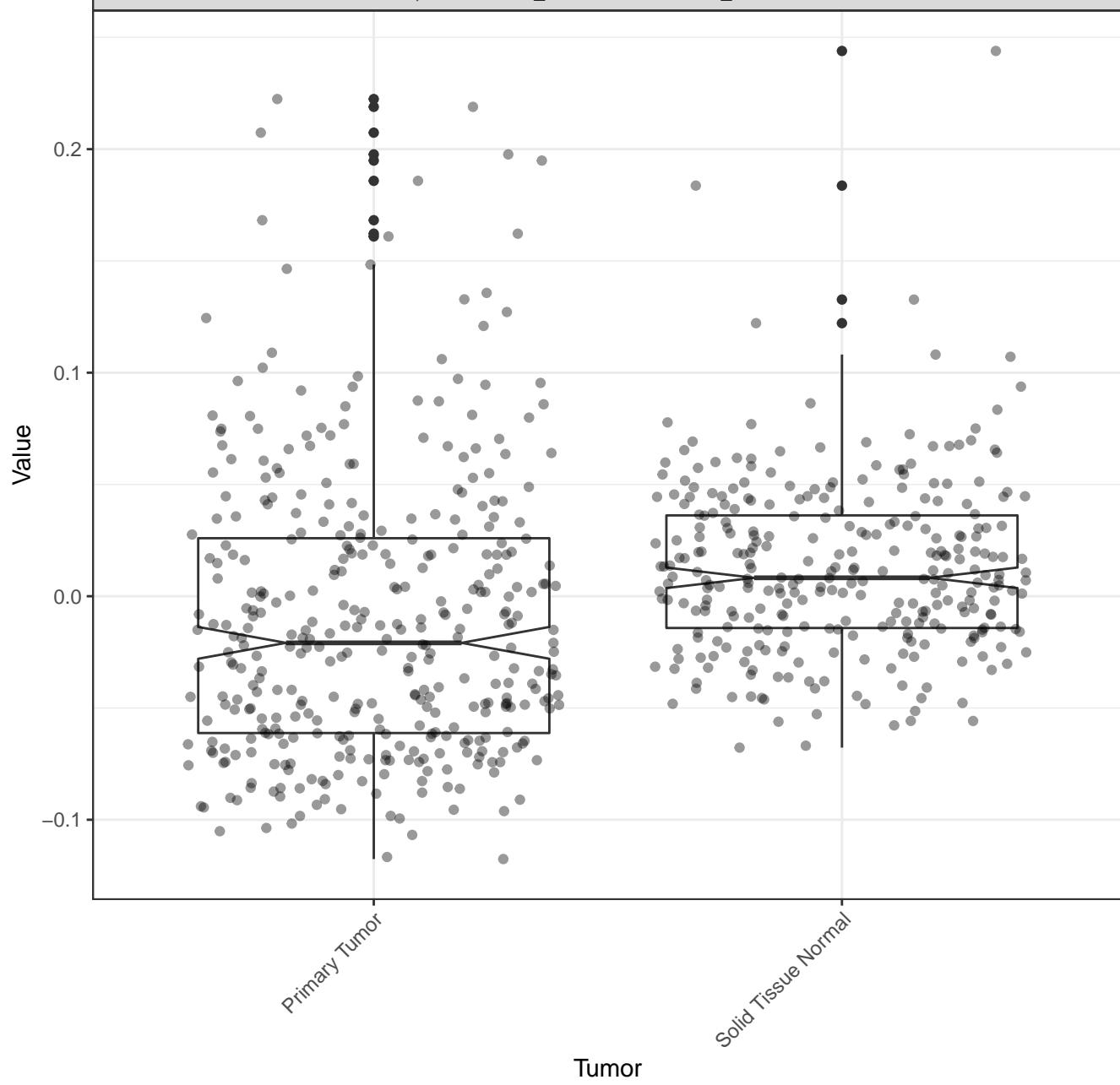
# 11,IRIS\_DendriticCell–Control



### 12,SVM Neutrophils



## 13,REACTOME DEVELOPMENTAL BIOLOGY



# 14,REACTOME\_NEURONAL\_SYSTEM

Value

0.2

0.1

0.0

Primary Tumor

Solid Tissue Normal

Tumor



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

Value

0.2

0.0

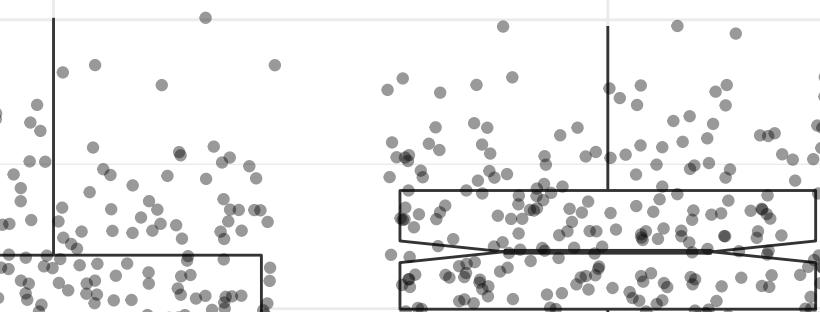
-0.2

-0.4

Primary Tumor

Tumor

Solid Tissue Normal



### 16,KEGG\_CALCIUM\_SIGNALING\_PATHWAY

Value

1.2

0.8

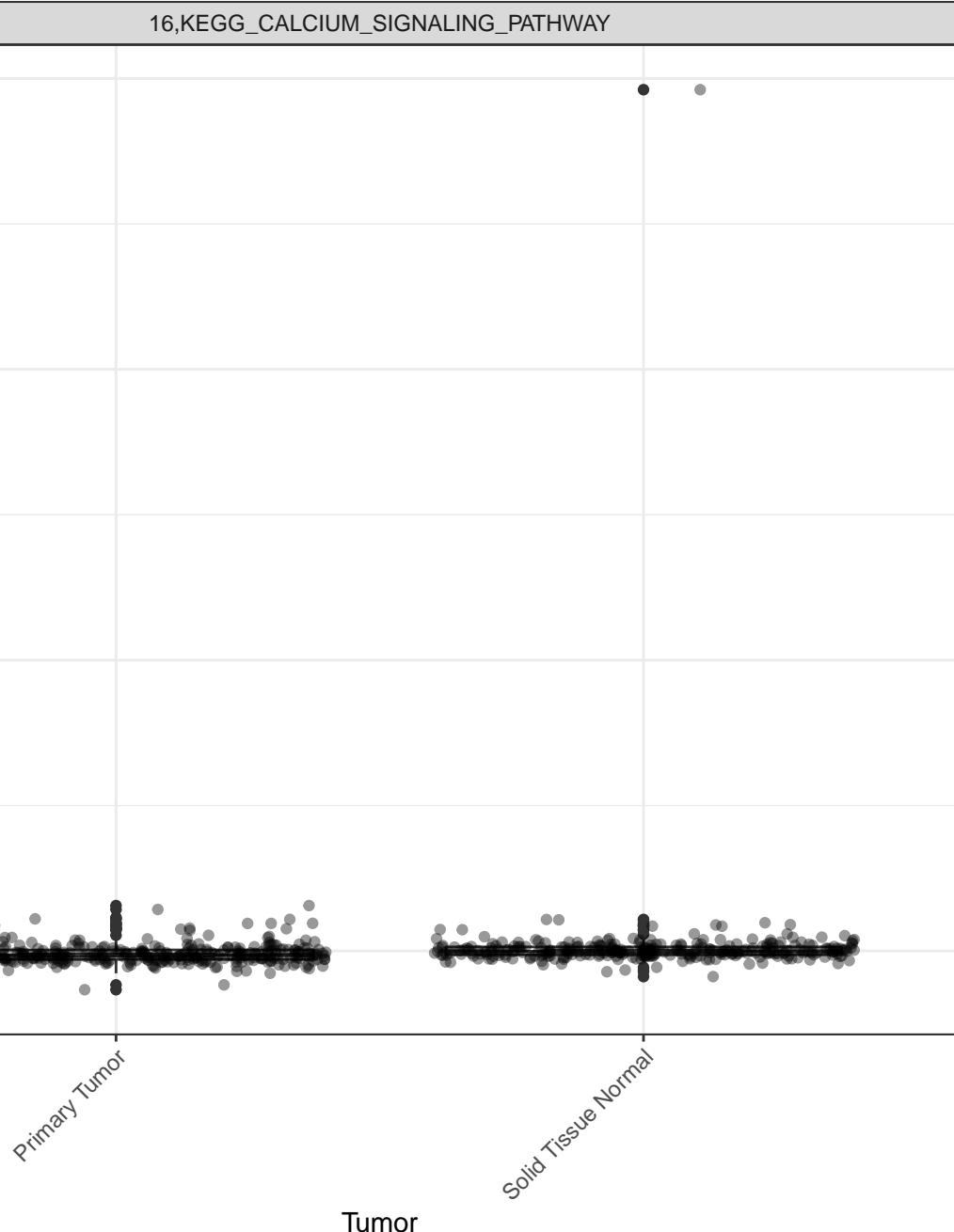
0.4

0.0

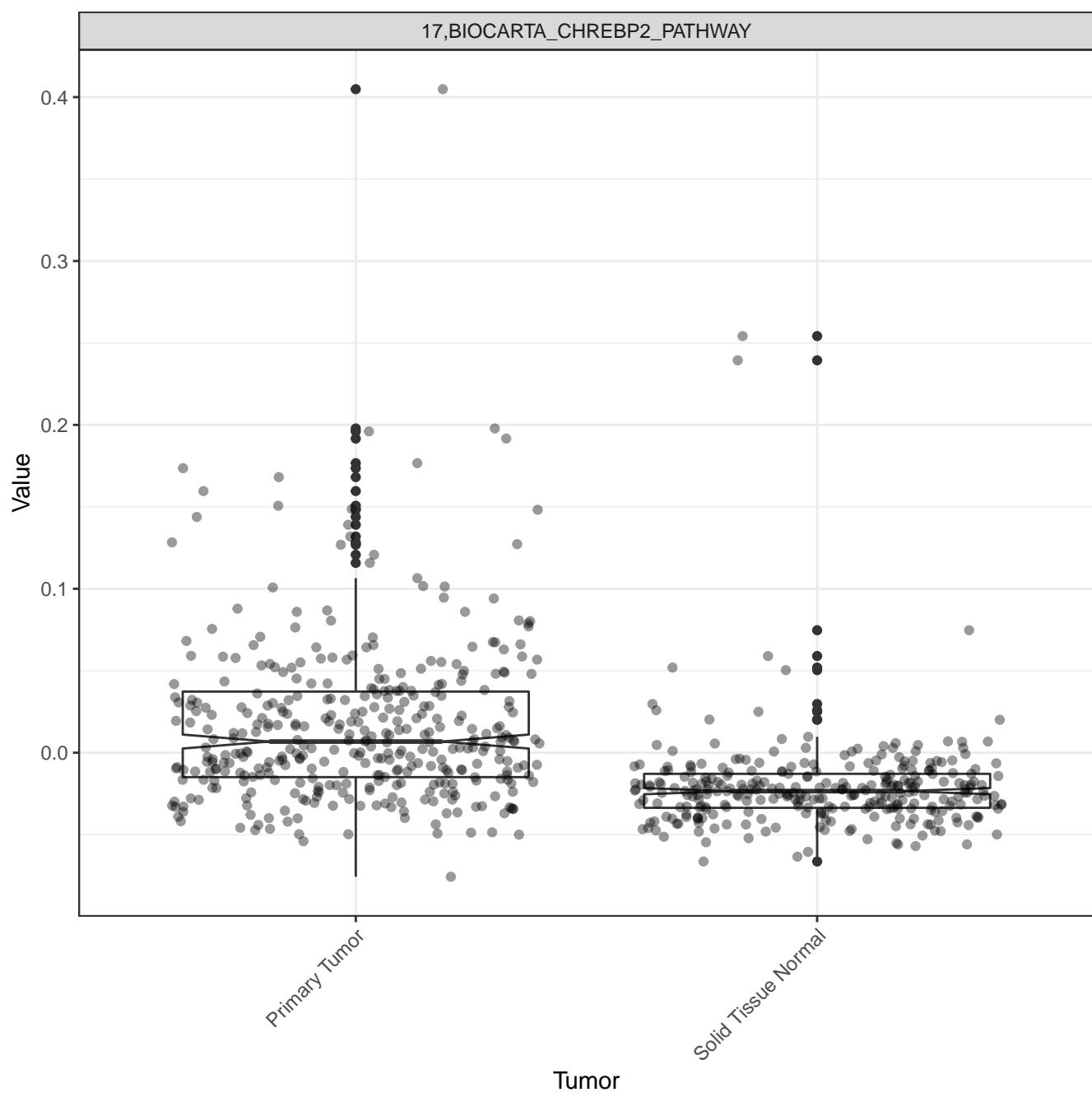
Primary Tumor

Solid Tissue Normal

Tumor



### 17, BIOCARTA\_CHREBP2\_PATHWAY



# 18,REACTOME\_COLLAGEN\_FORMATION

Value

0.4

0.3

0.2

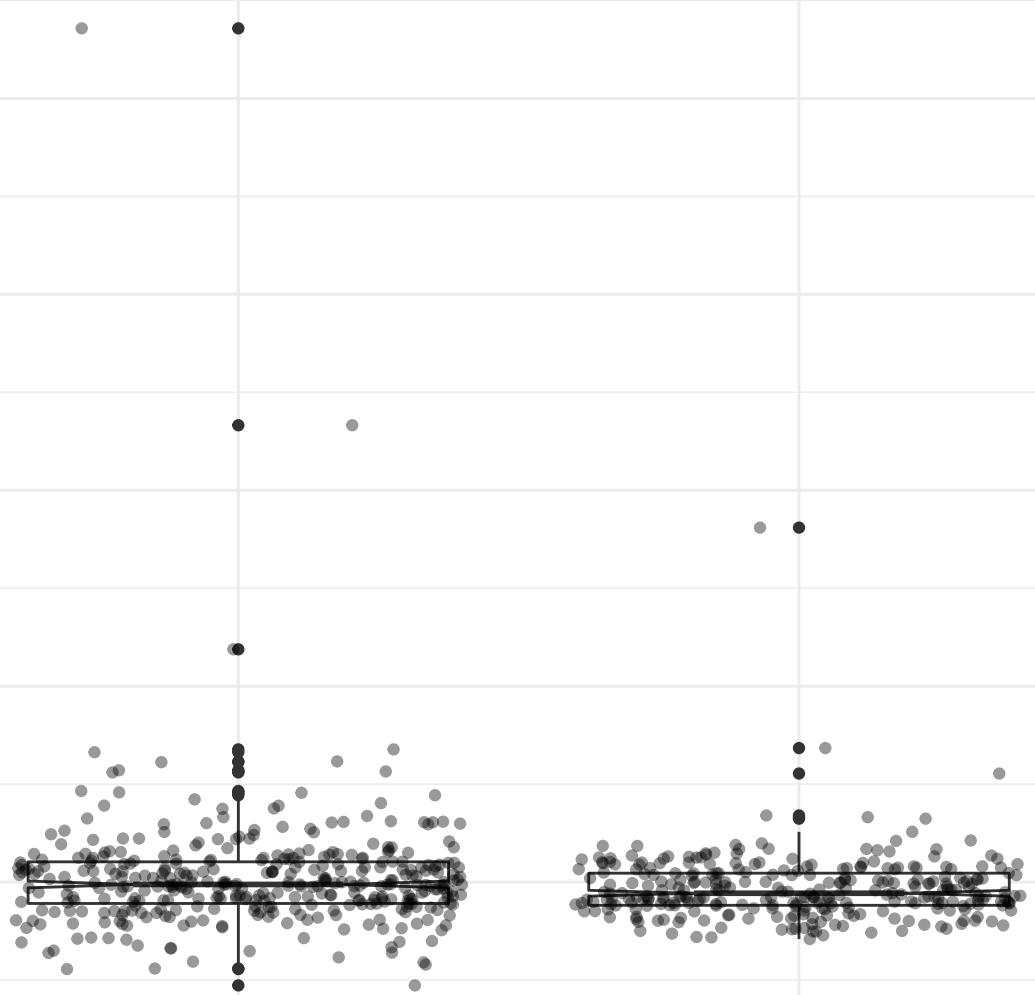
0.1

0.0

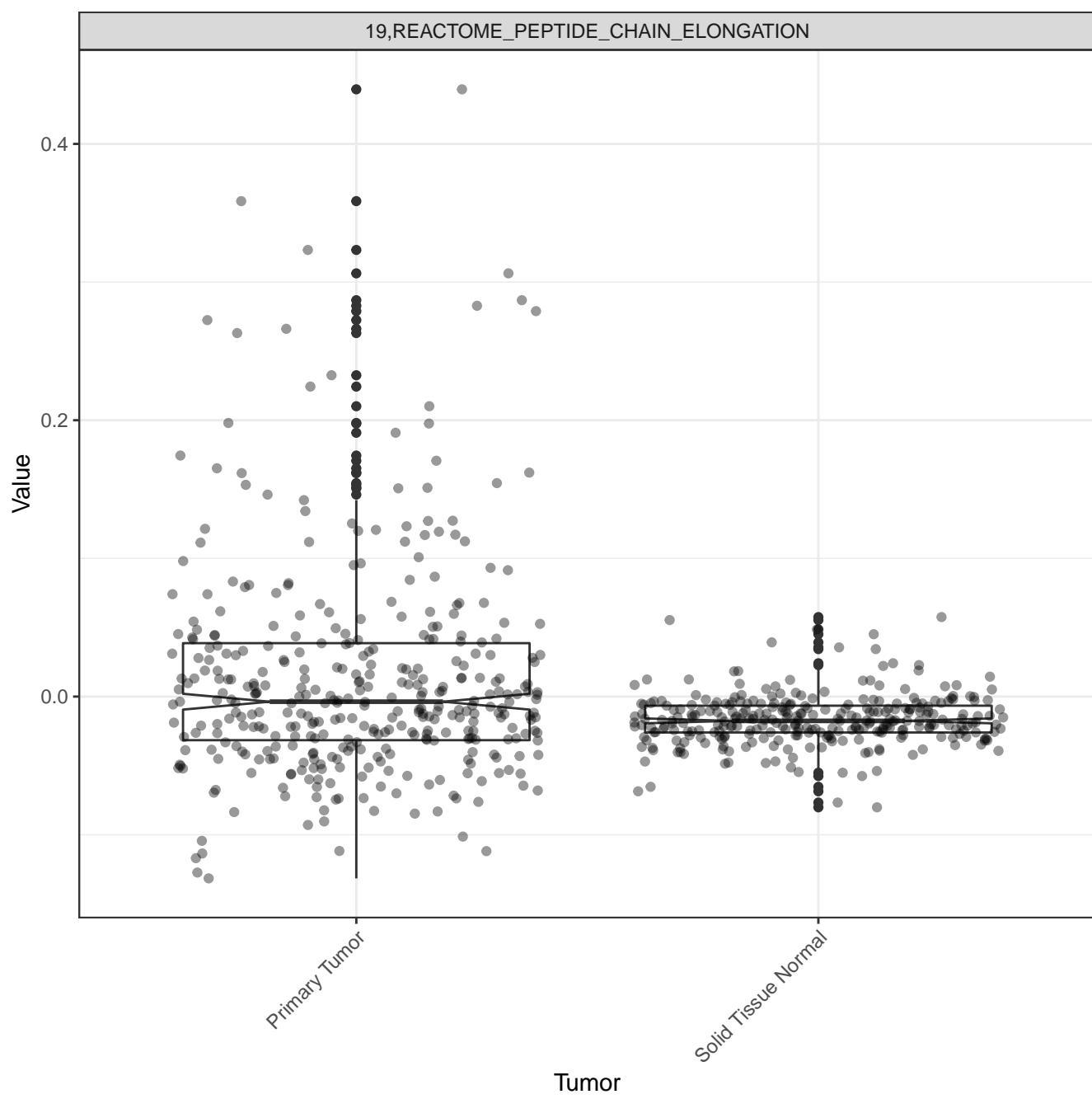
Primary Tumor

Solid Tissue Normal

Tumor

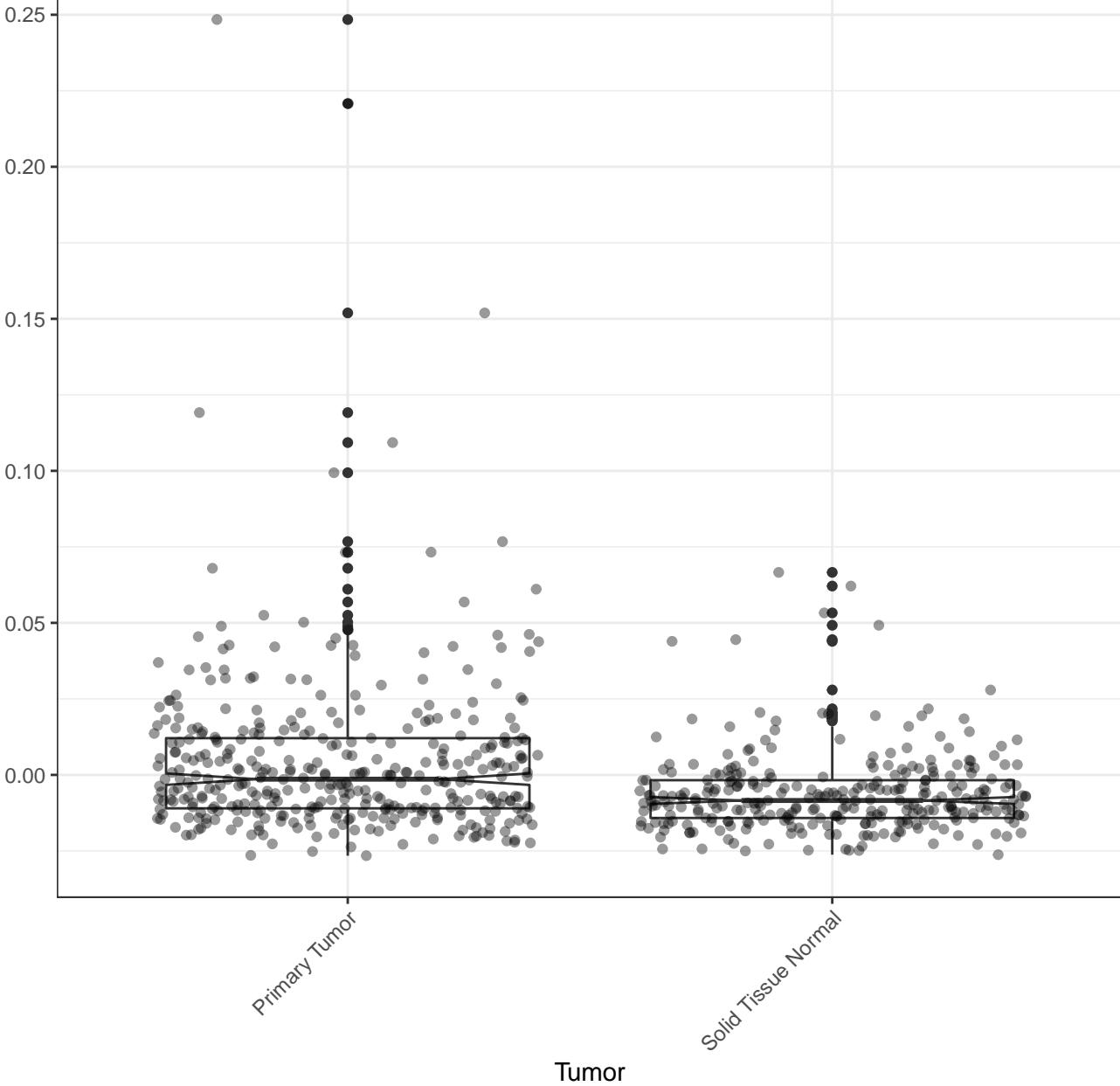


# 19,REACTOME\_PEPTIDE\_CHAIN\_ELONGATION



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

Value



## 21,IRIS\_Monocyte–Day1

Value

0.3

0.2

0.1

0.0

Primary Tumor

Solid Tissue Normal

Tumor



## 22,KEGG\_PHOSPHATIDYLINOSITOL\_SIGNALING\_SYSTEM

Value

1.2

0.8

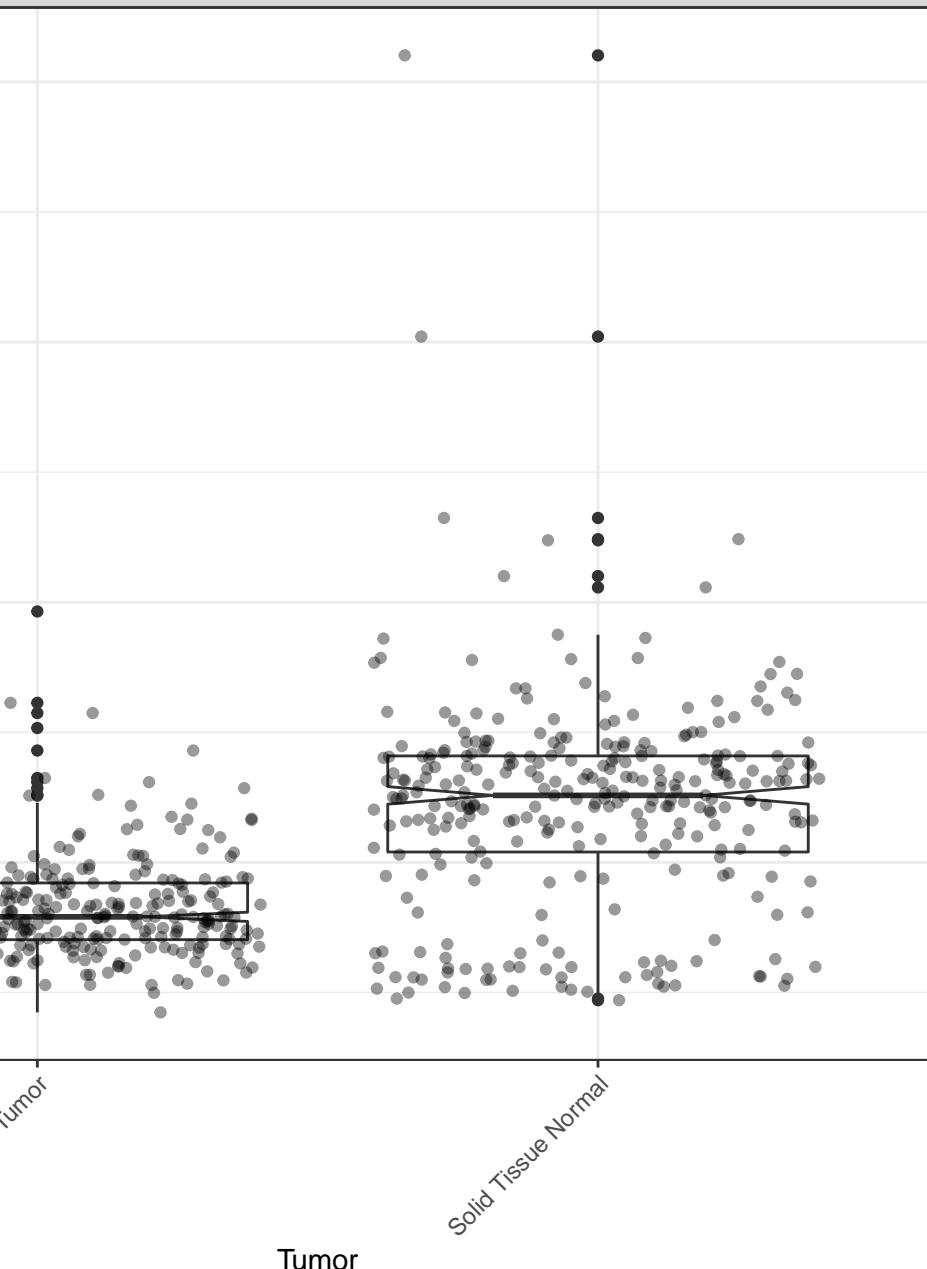
0.4

0.0

Primary Tumor

Solid Tissue Normal

Tumor



## 23,DMAP\_ERY4

Value

0.10

0.05

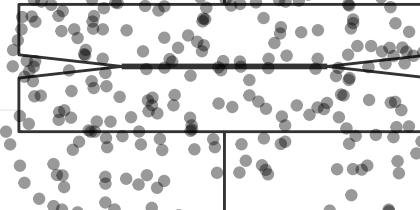
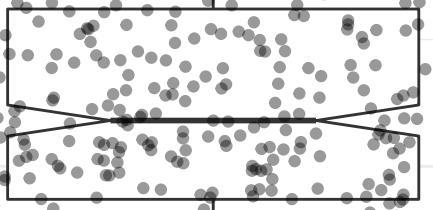
0.00

-0.05

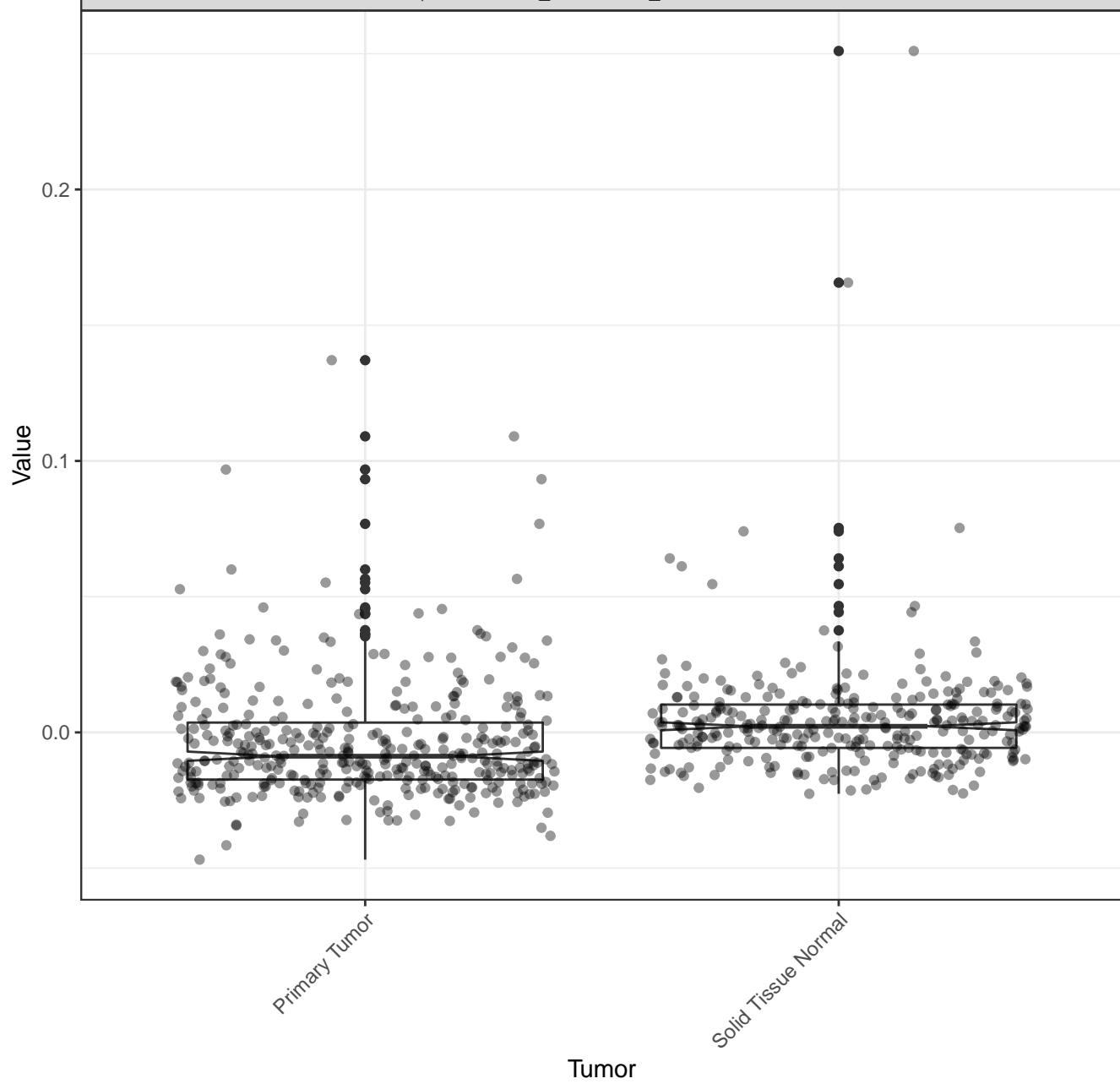
Primary Tumor

Solid Tissue Normal

Tumor

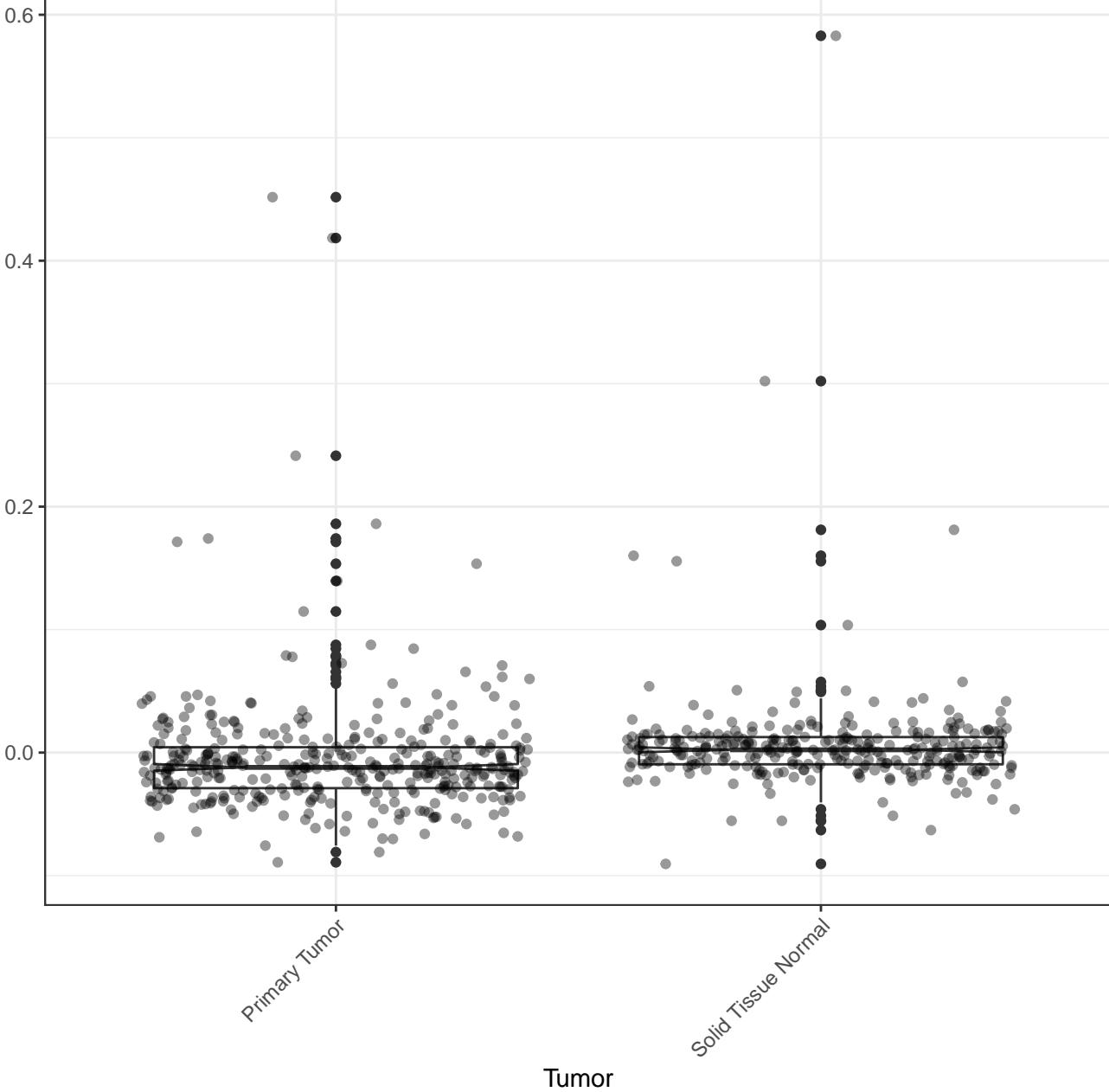


## 24,REACTOME\_PLATELET\_HOMEOSTASIS

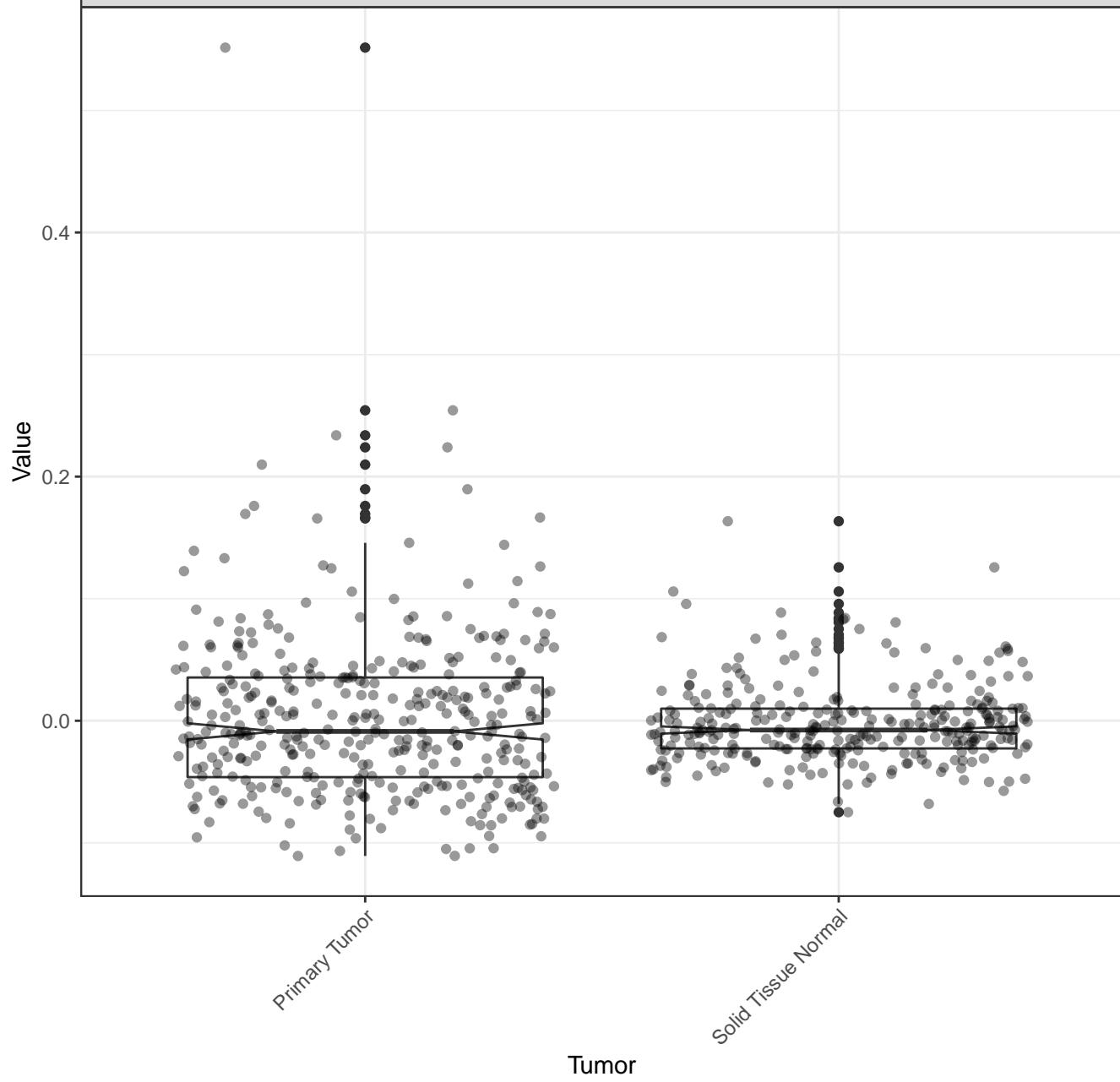


### 25,PID\_INTEGRIN1\_PATHWAY

Value



## 26,IRIS\_Neutrophil–Resting



LV 27

Value

0.3

0.2

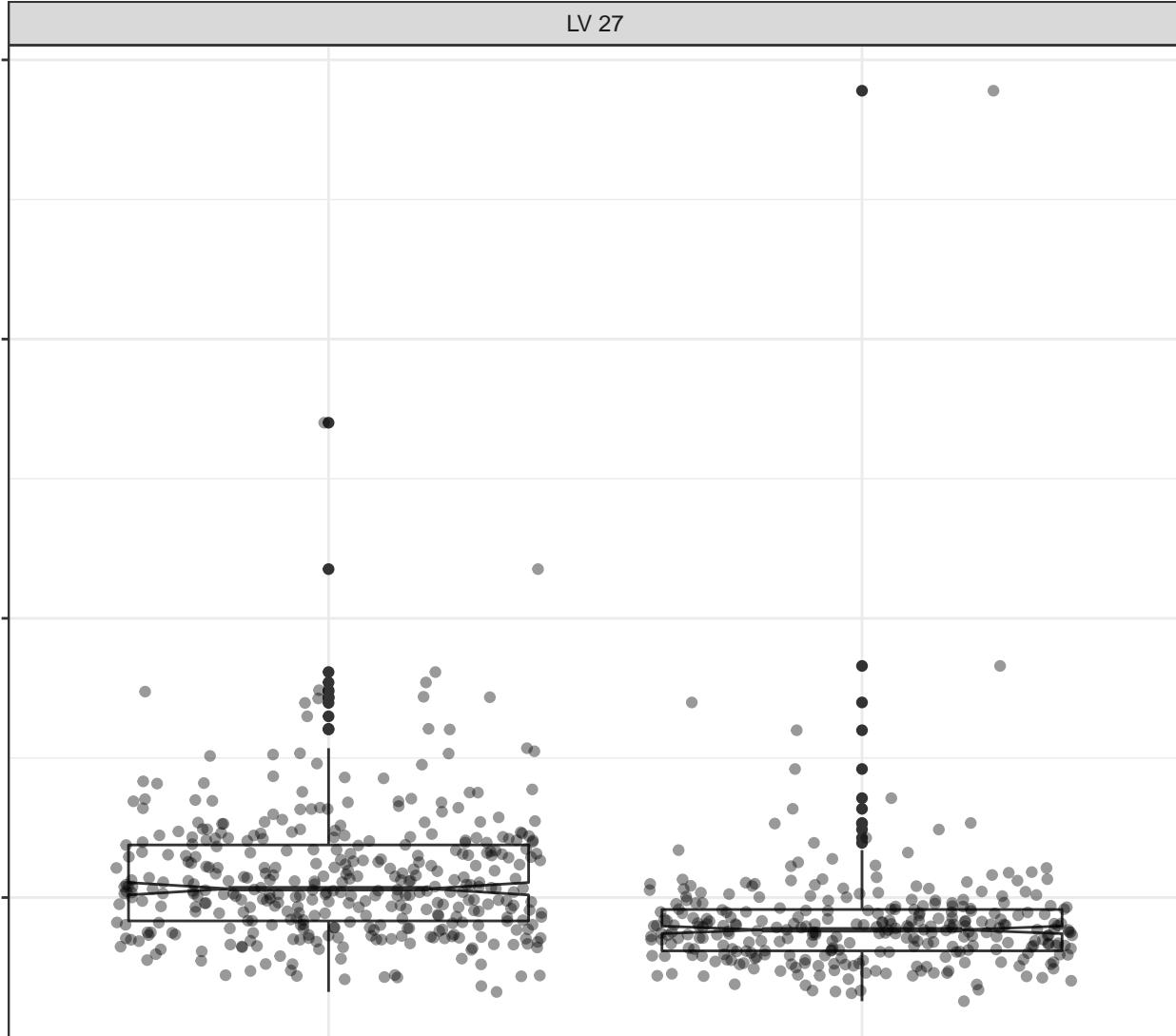
0.1

0.0

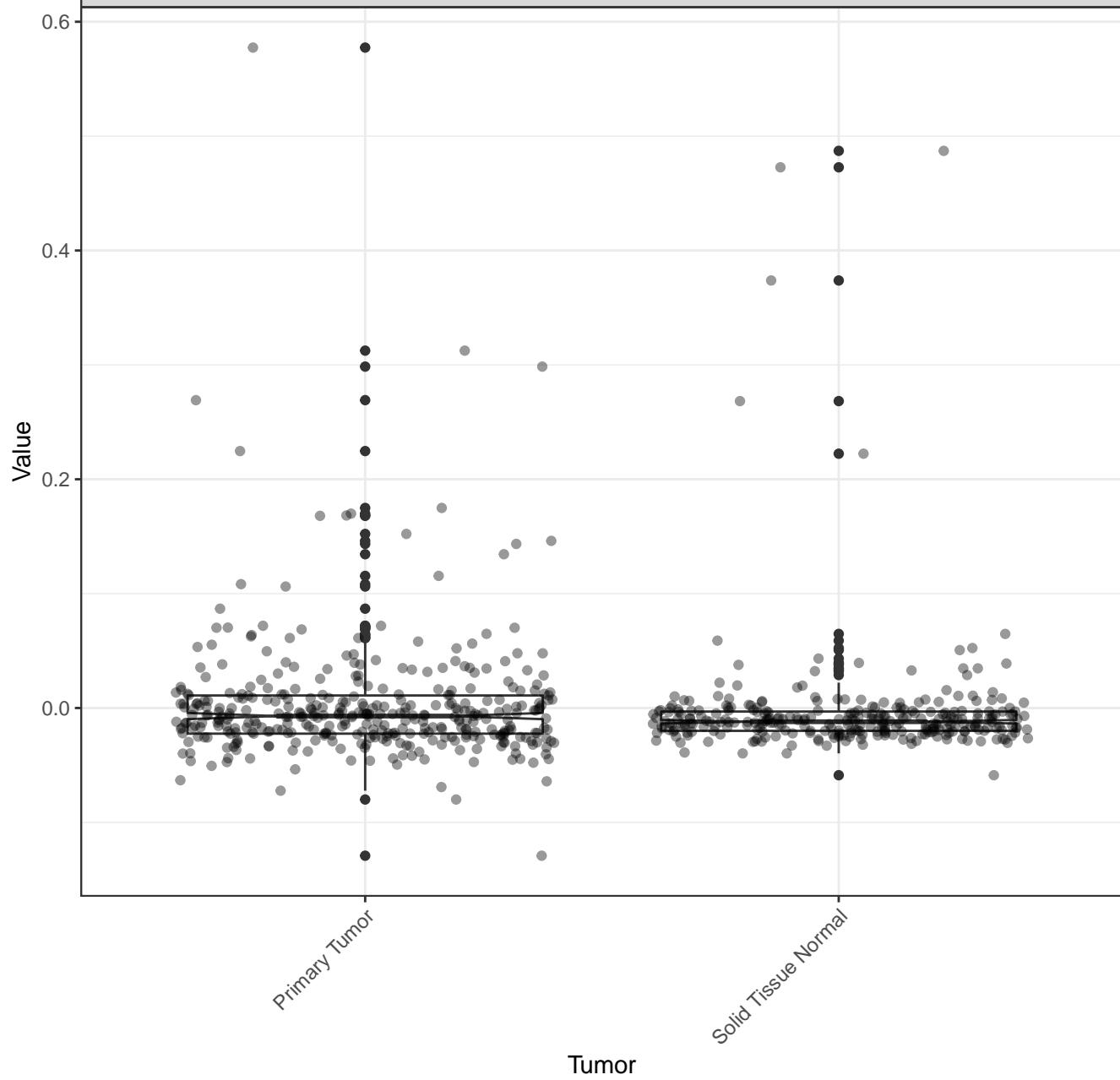
Primary Tumor

Solid Tissue Normal

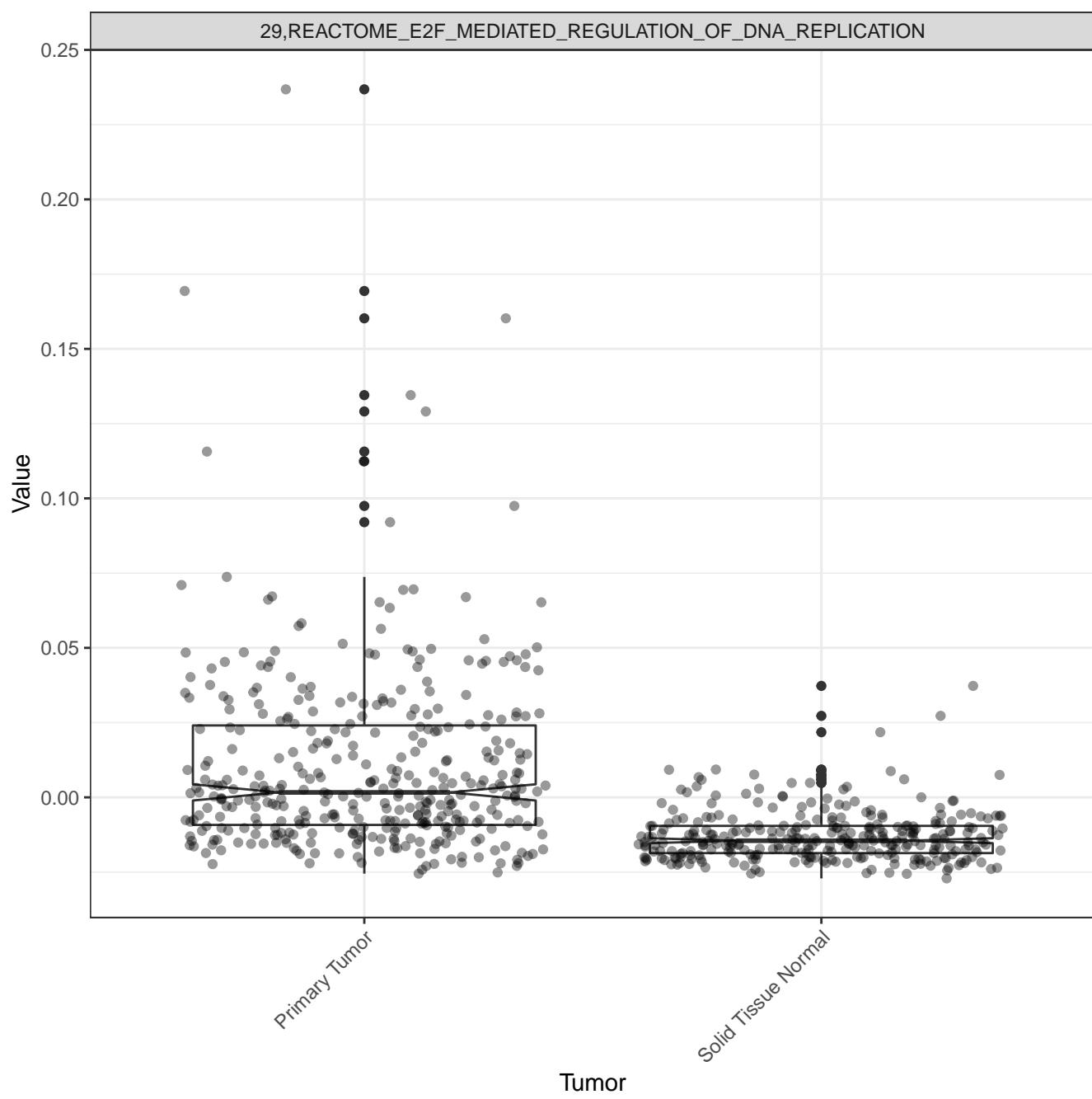
Tumor



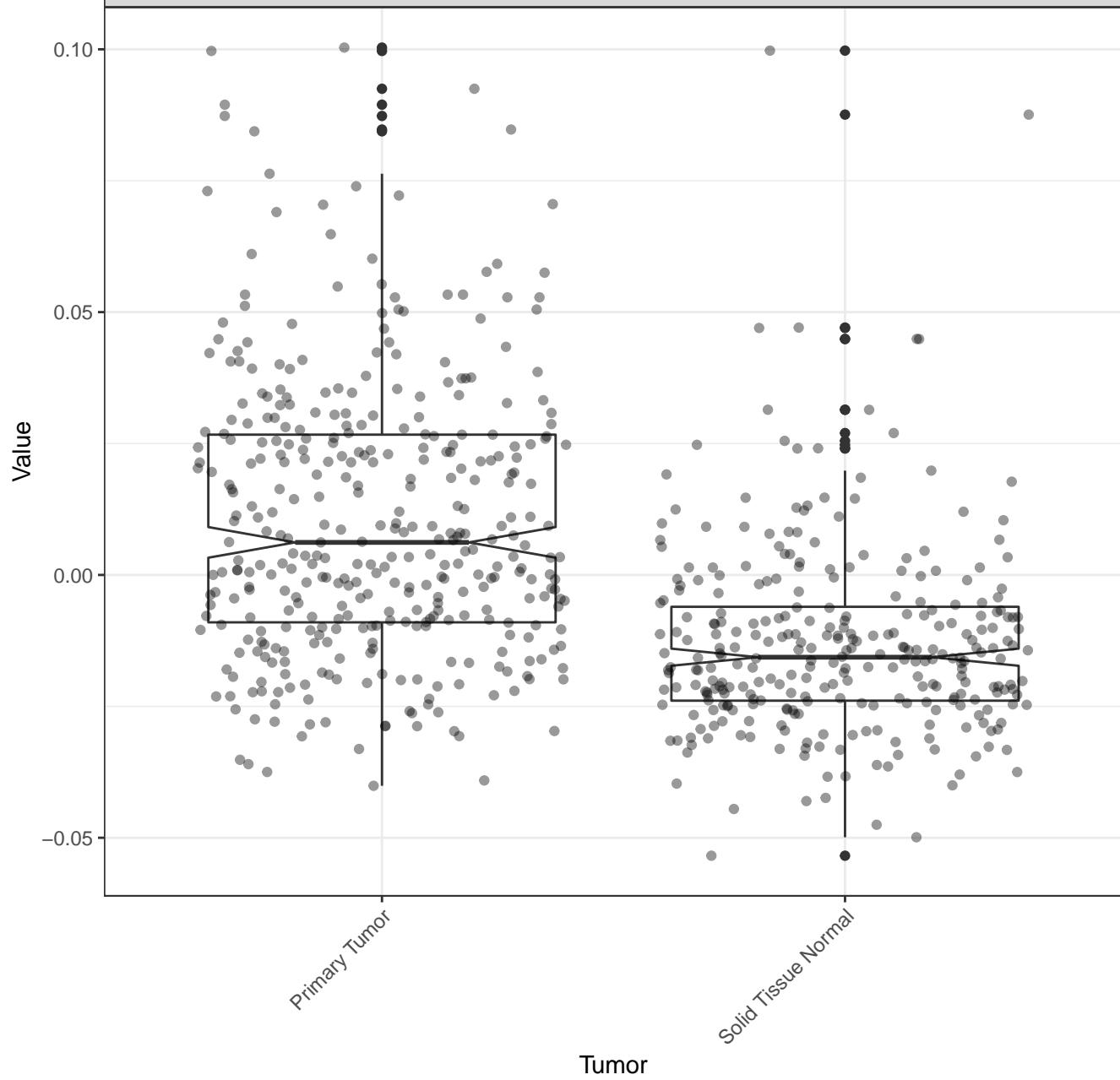
### 28,REACTOME\_INTERFERON\_ALPHA\_BETA\_SIGNALING



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

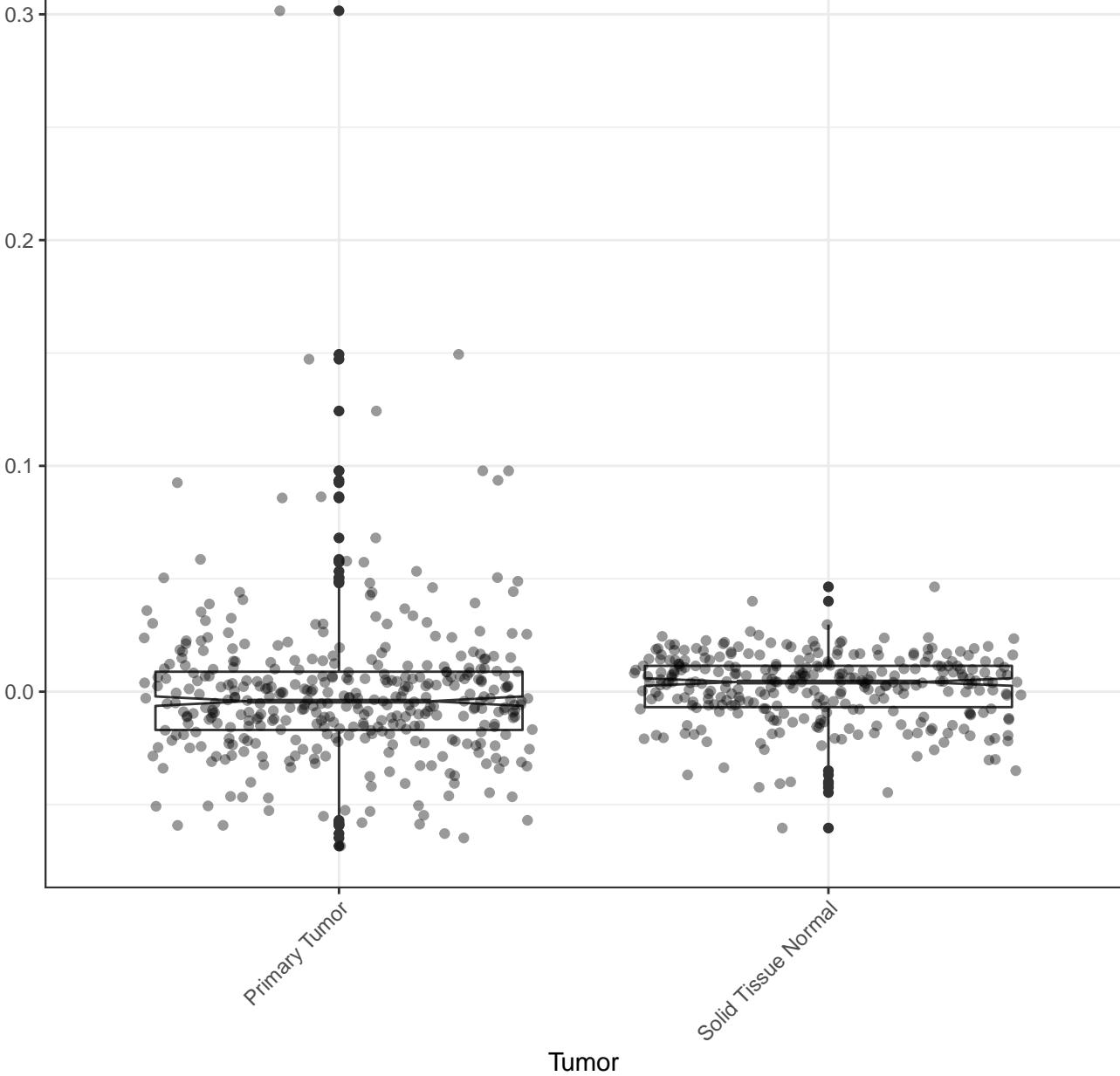


### 30,REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TRANSPORT

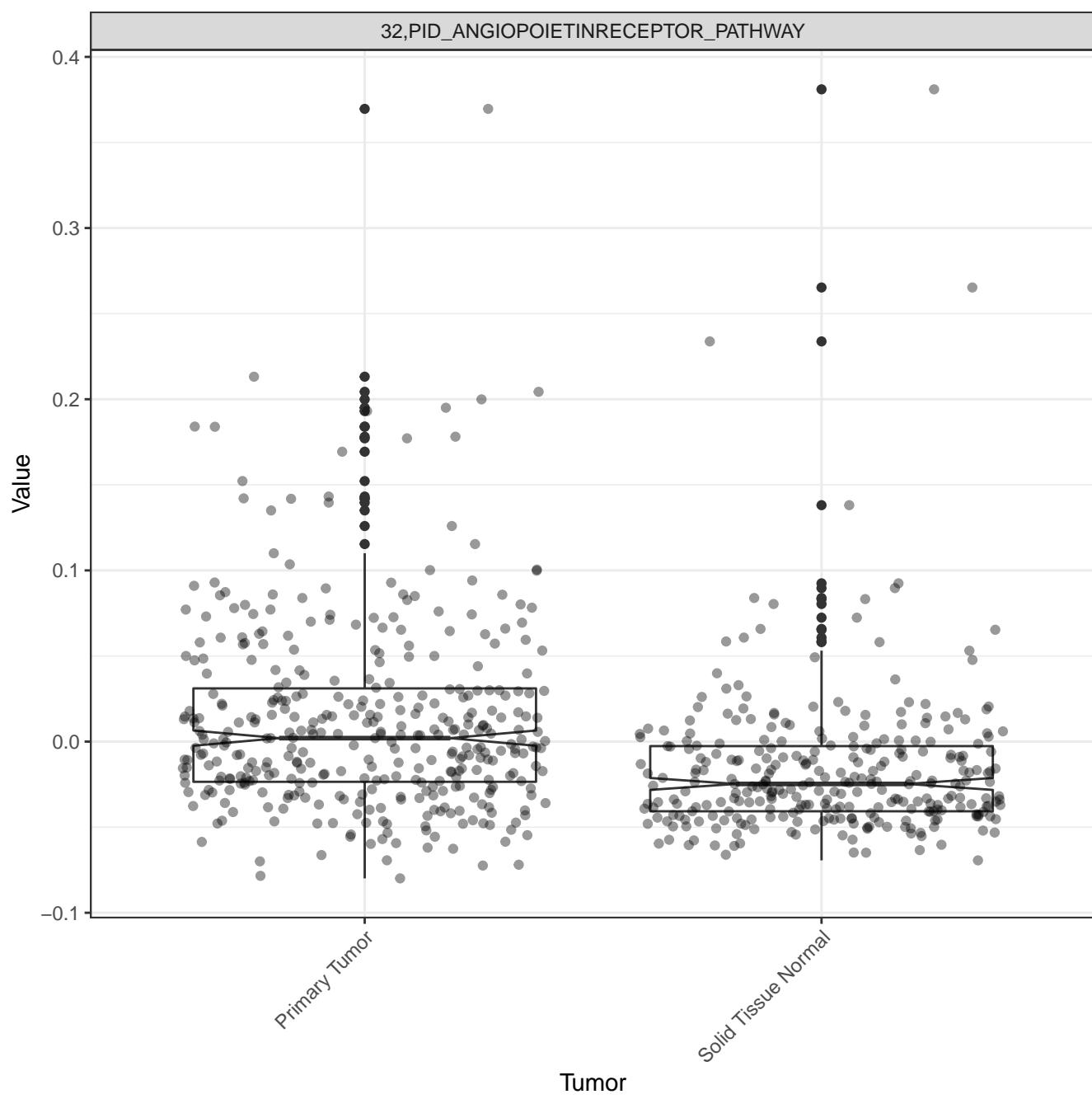


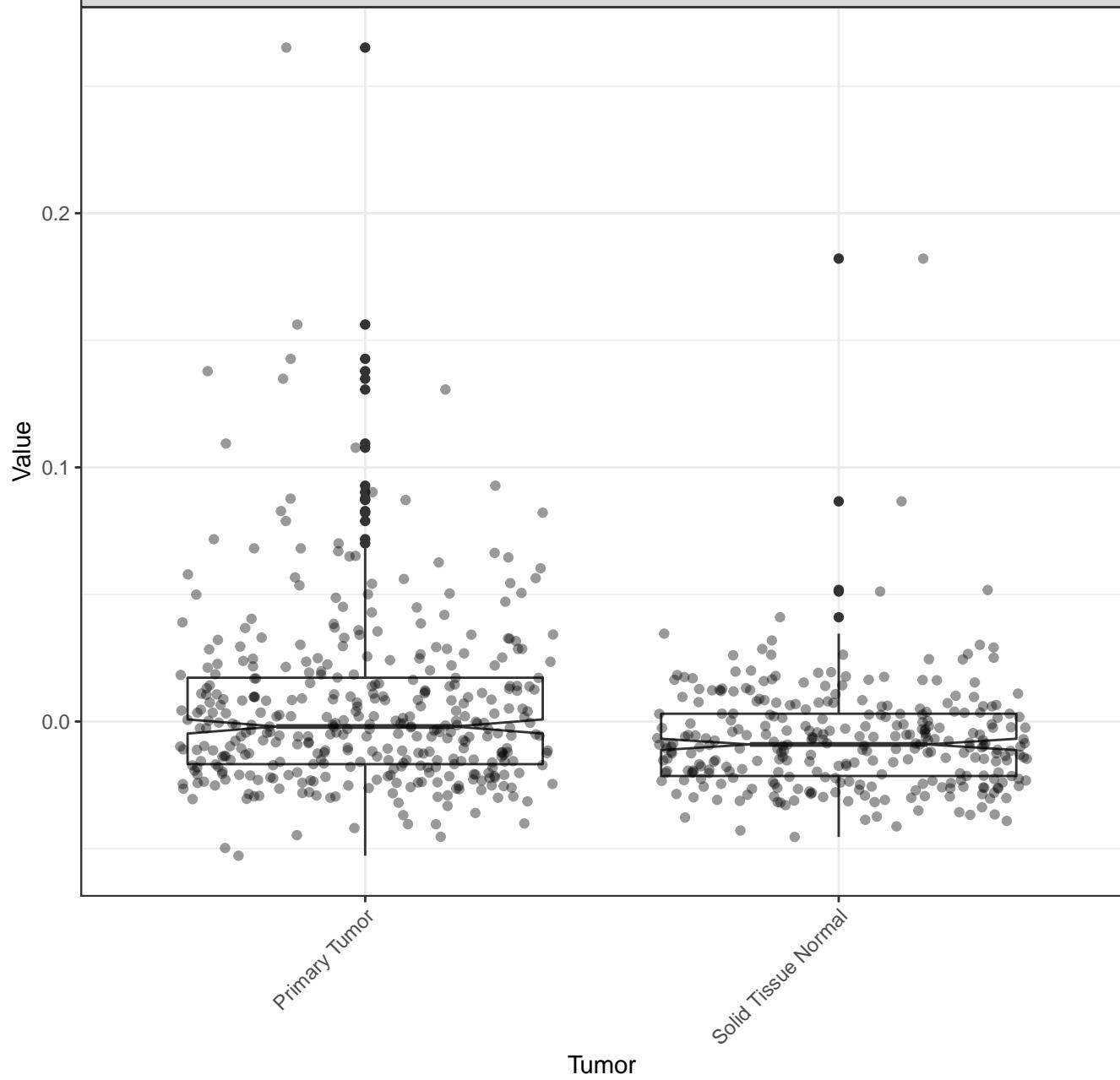
### 31,KEGG\_CYSTEINE\_AND\_METHIONINE\_METABOLISM

Value

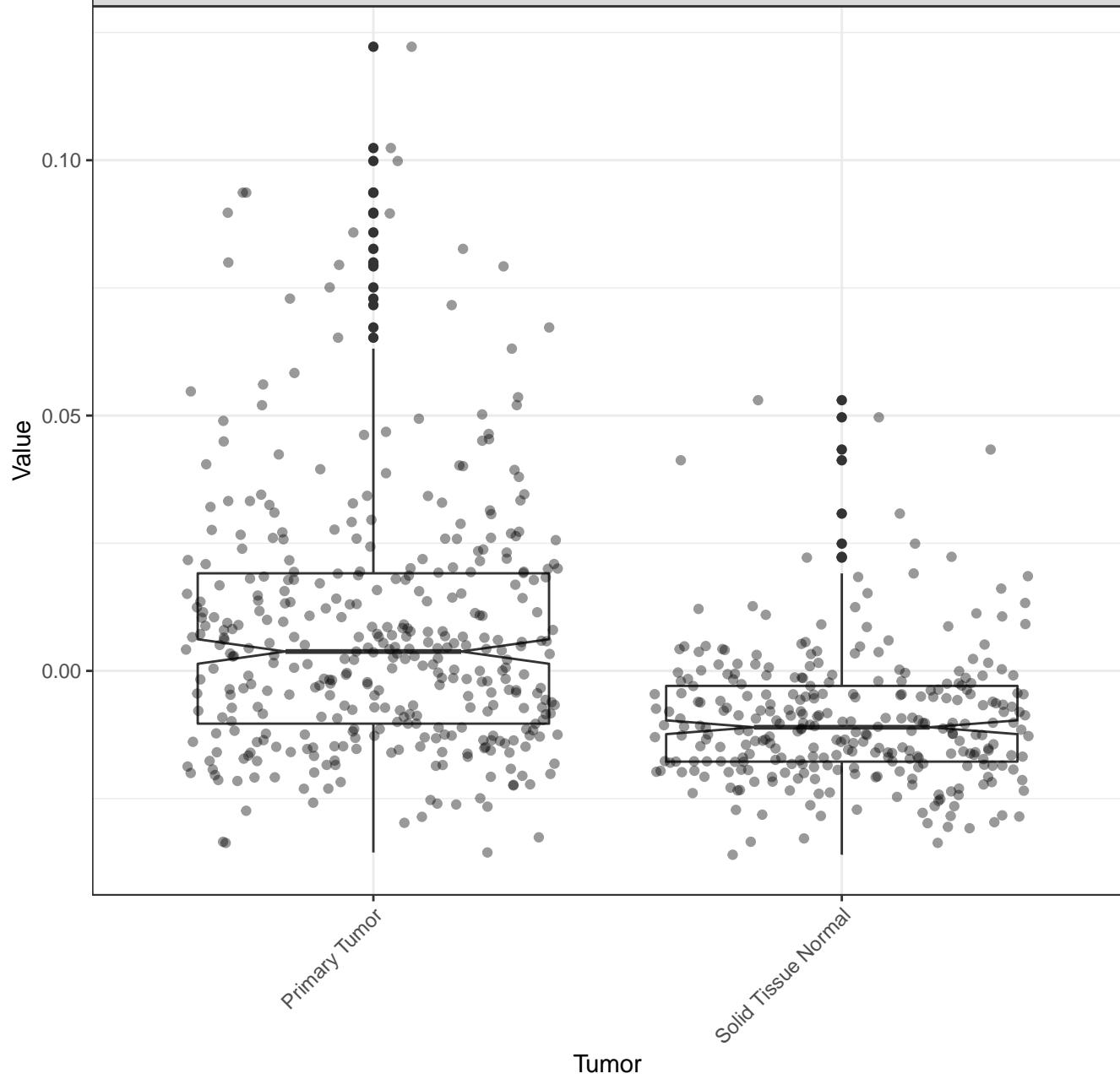


### 32,PID\_ANGIOPOIETINRECEPTOR\_PATHWAY

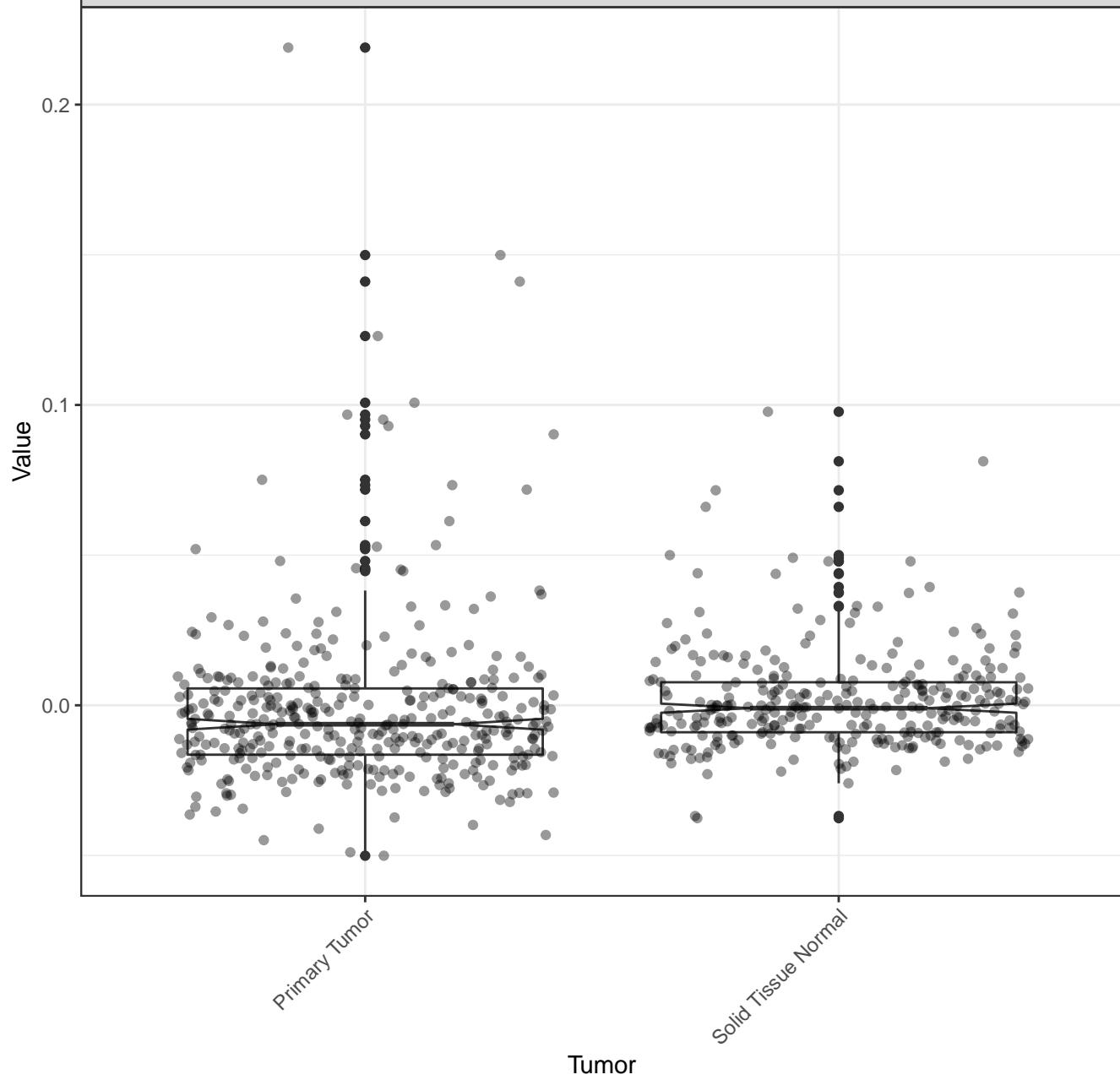




### 34,REACTOME\_3\_UTR\_MEDIANATED\_TRANSLATIONAL\_REGULATION

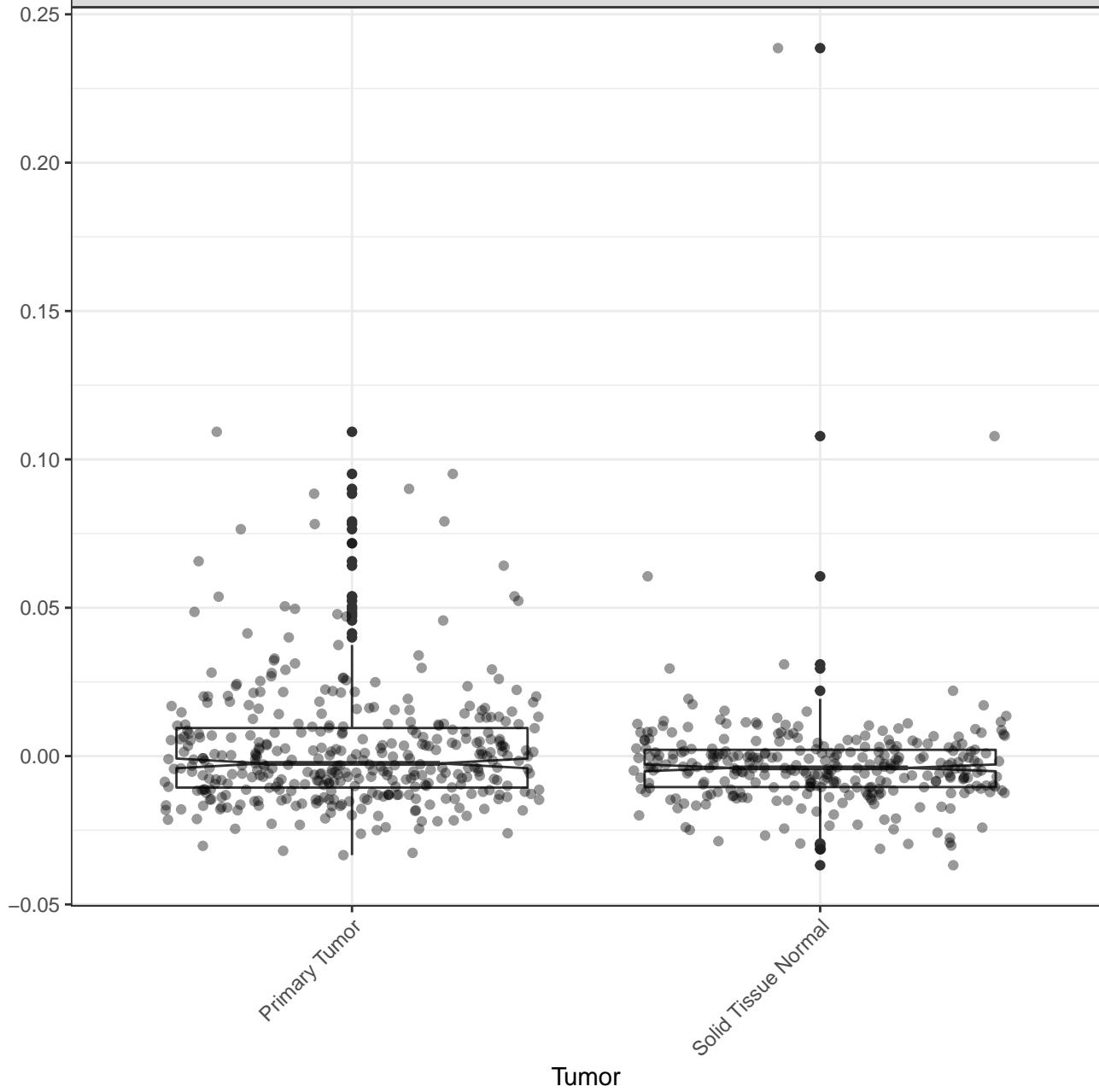


## 35,DMAP\_MEGA2

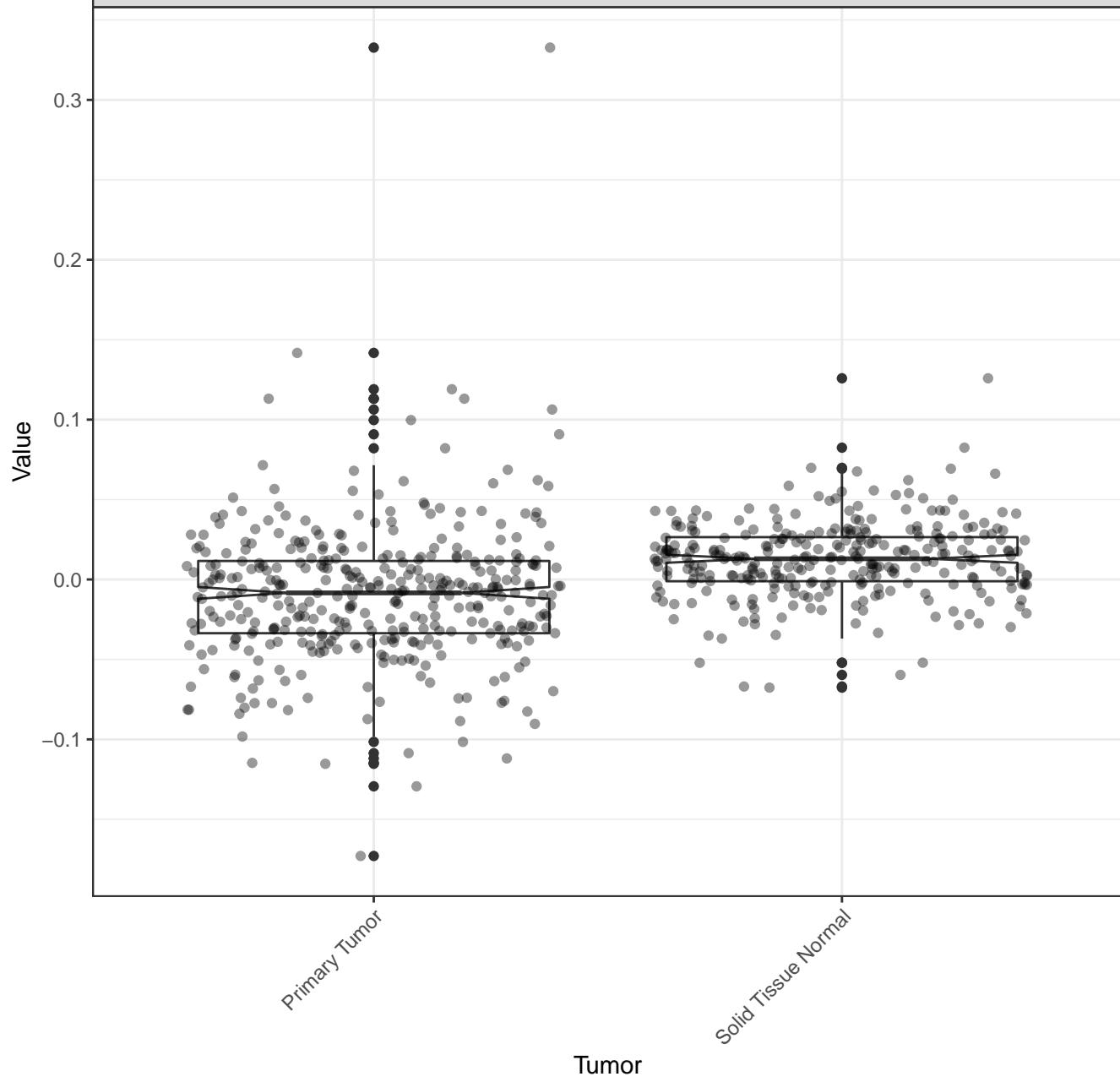


## 36,DMAP\_HSC3

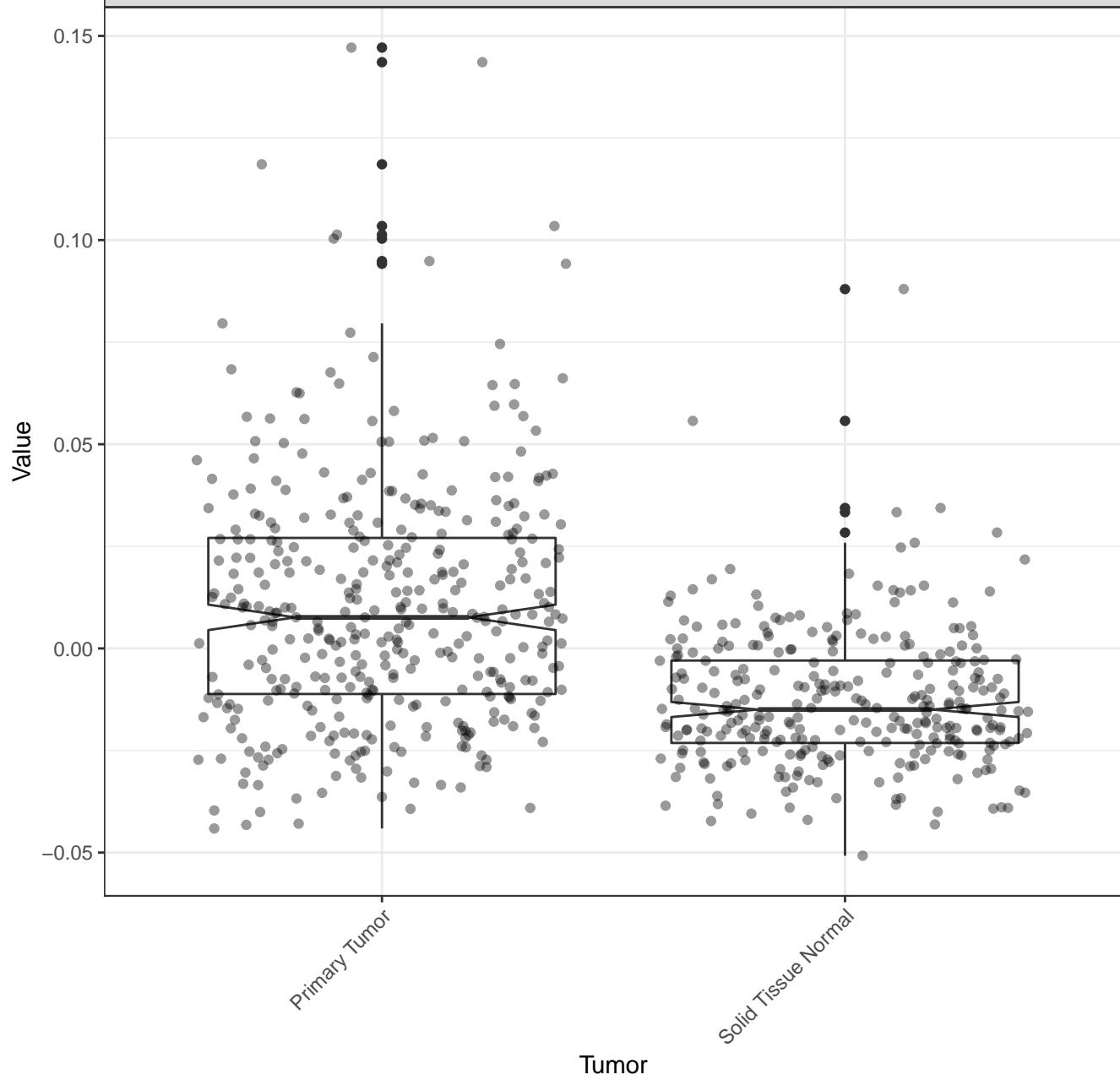
Value



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



## 38,REACTOME\_REGULATION\_OF\_MRNA\_STABILITY\_BY\_PROTEINS\_THAT\_BIND\_AU\_RICH\_ELEMENTS



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

Value

0.3

0.2

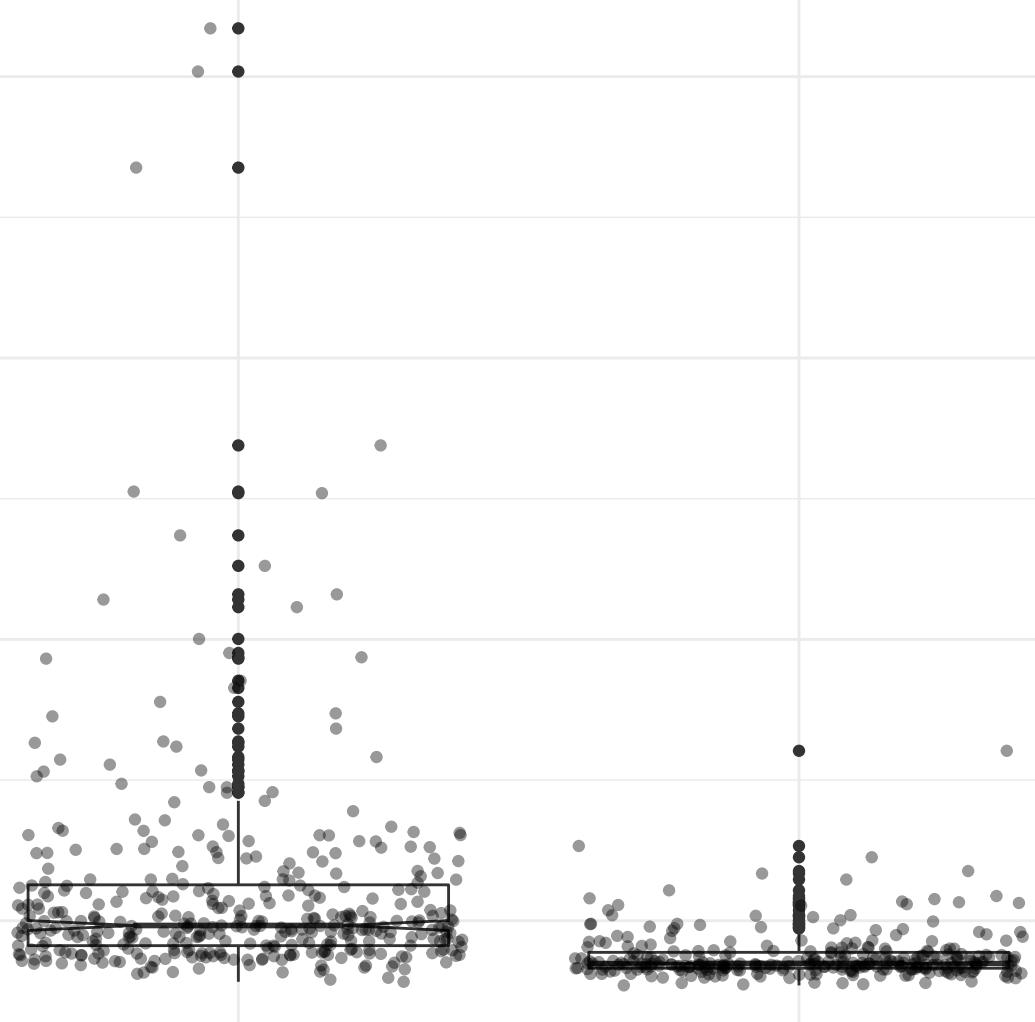
0.1

0.0

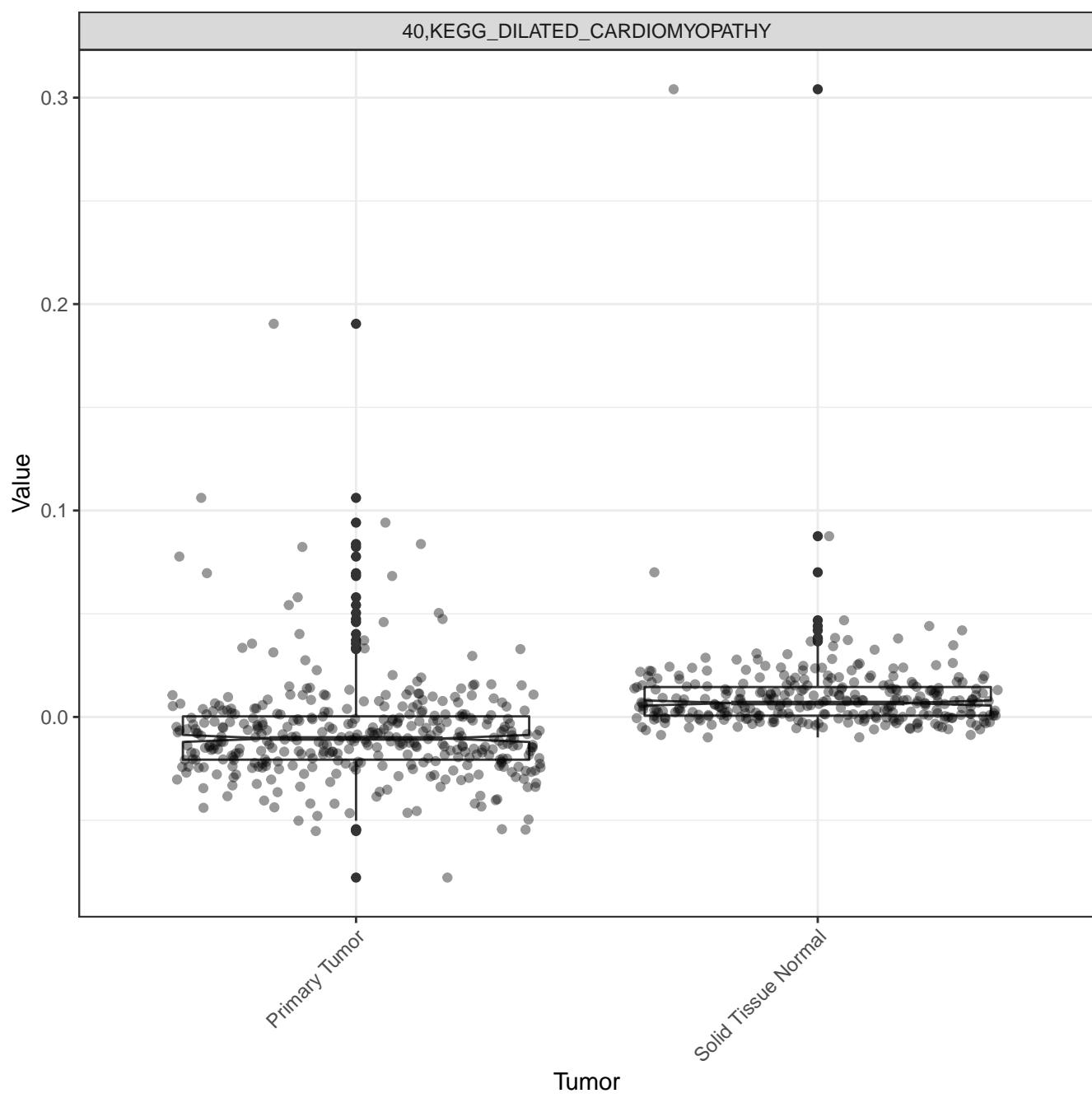
Primary Tumor

Solid Tissue Normal

Tumor



40,KEGG\_DILATED\_CARDIOMYOPATHY



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

Value

0.1

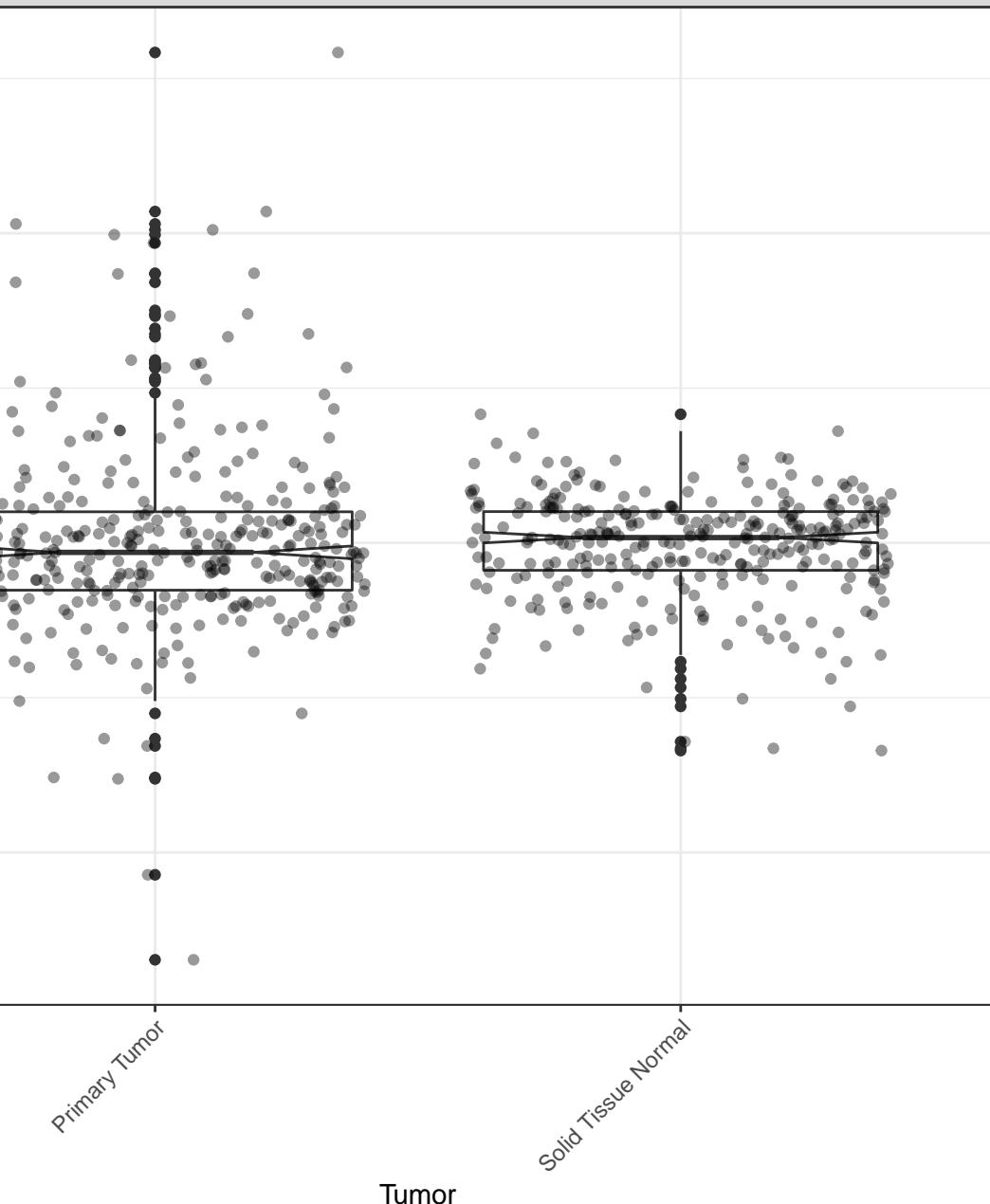
0.0

-0.1

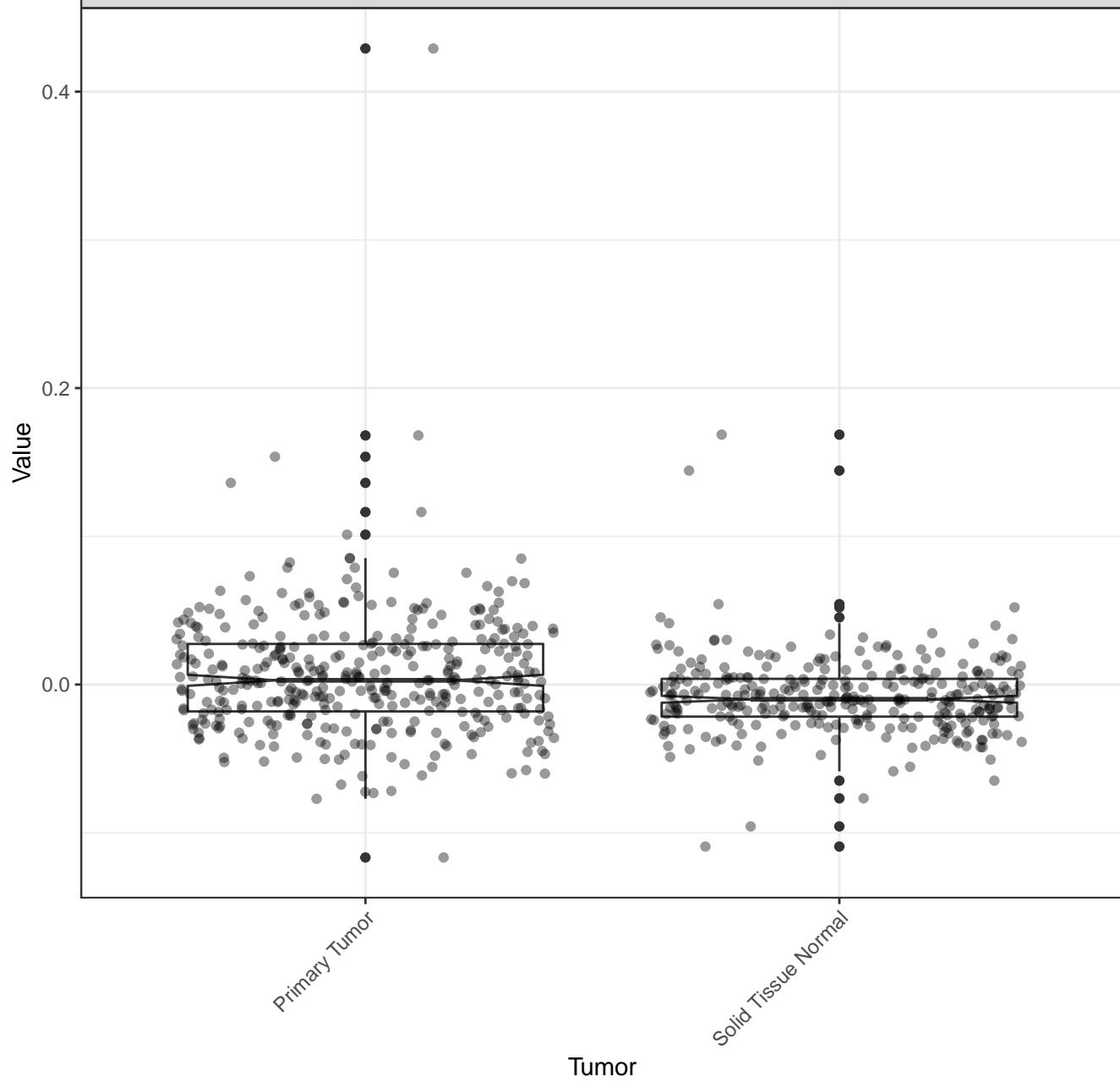
Primary Tumor

Solid Tissue Normal

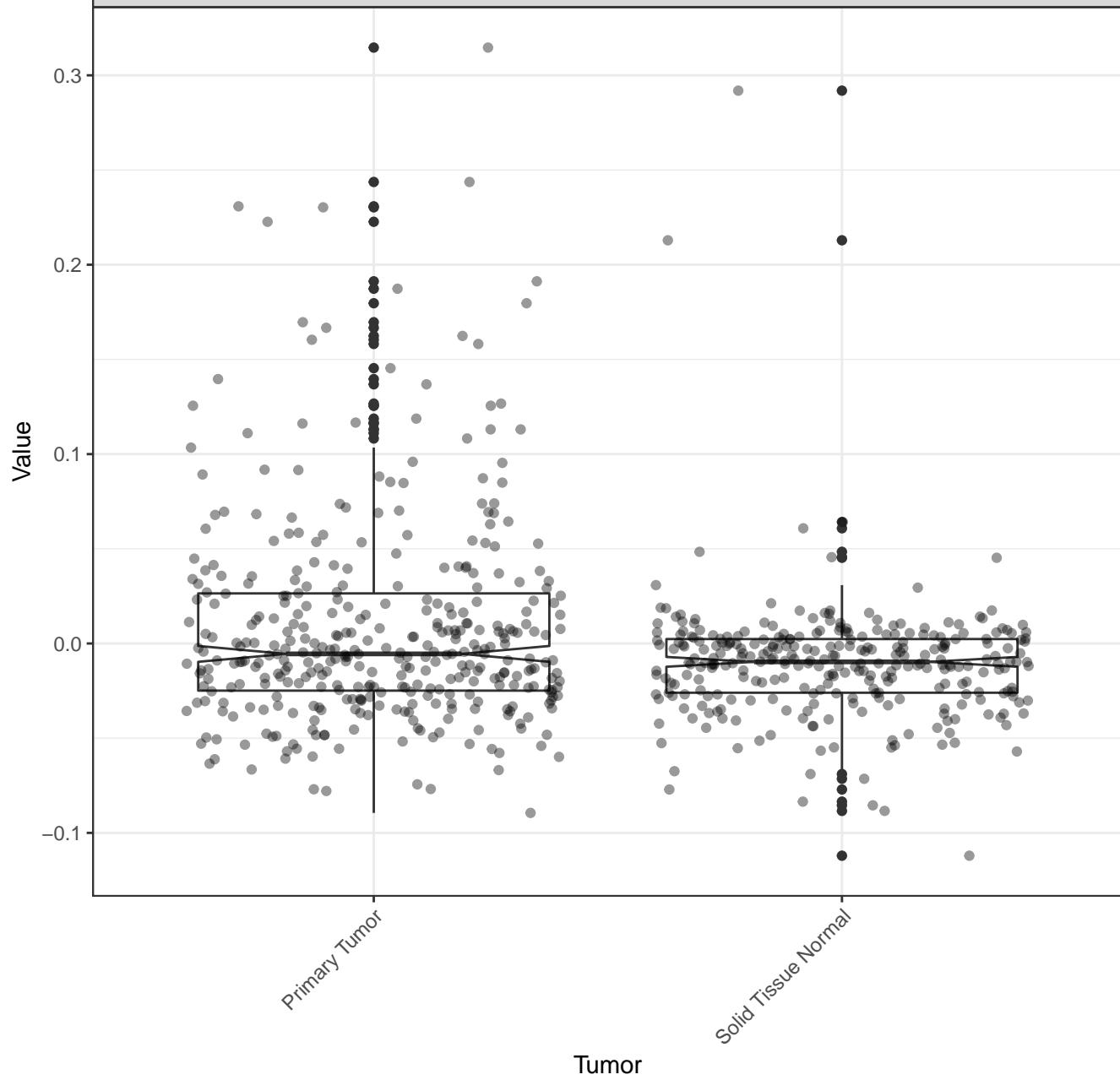
Tumor



42,REACTOME DEVELOPMENTAL\_BIOLOGY



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



## 44,MIPS\_55S\_RIBOSOME MITOCHONDRIAL

Value

0.4

0.2

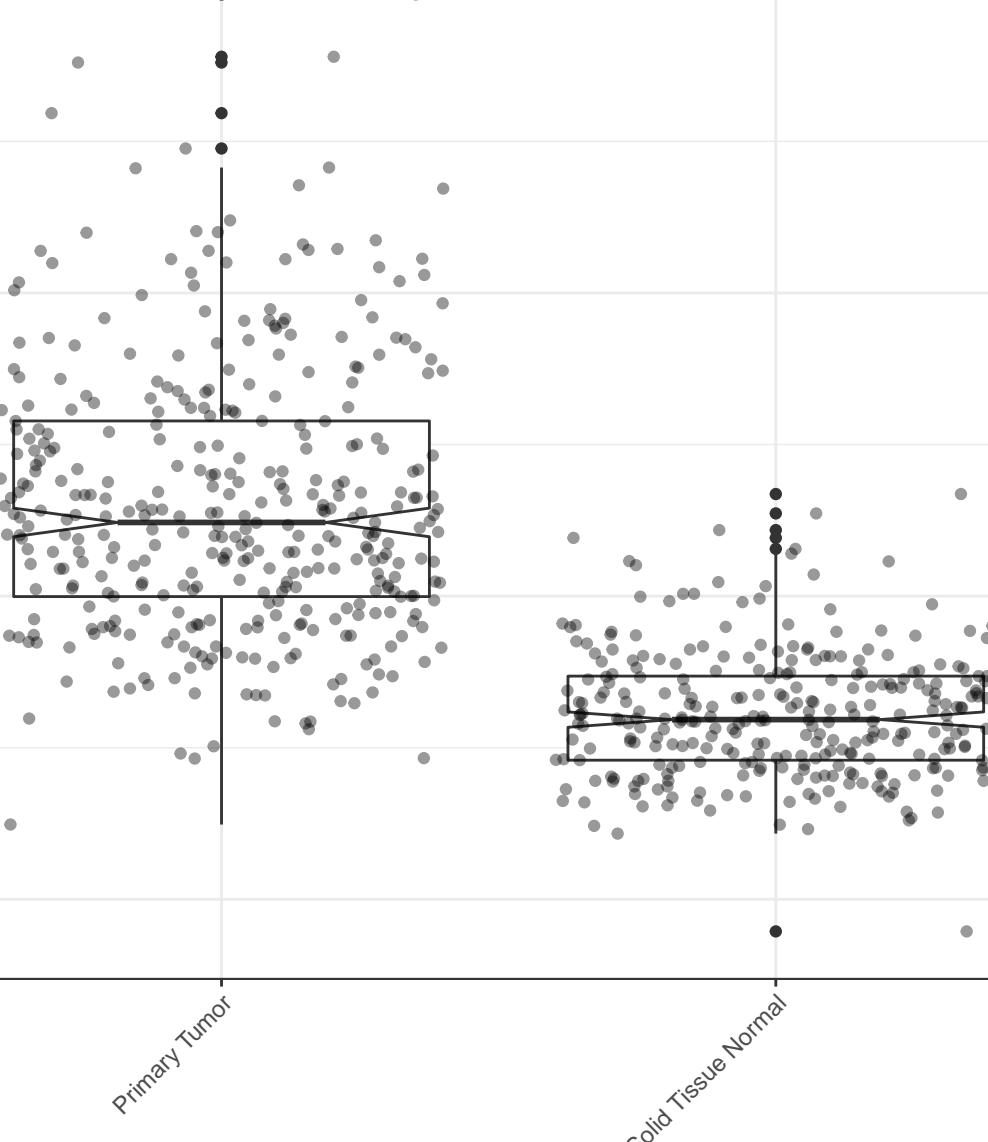
0.0

-0.2

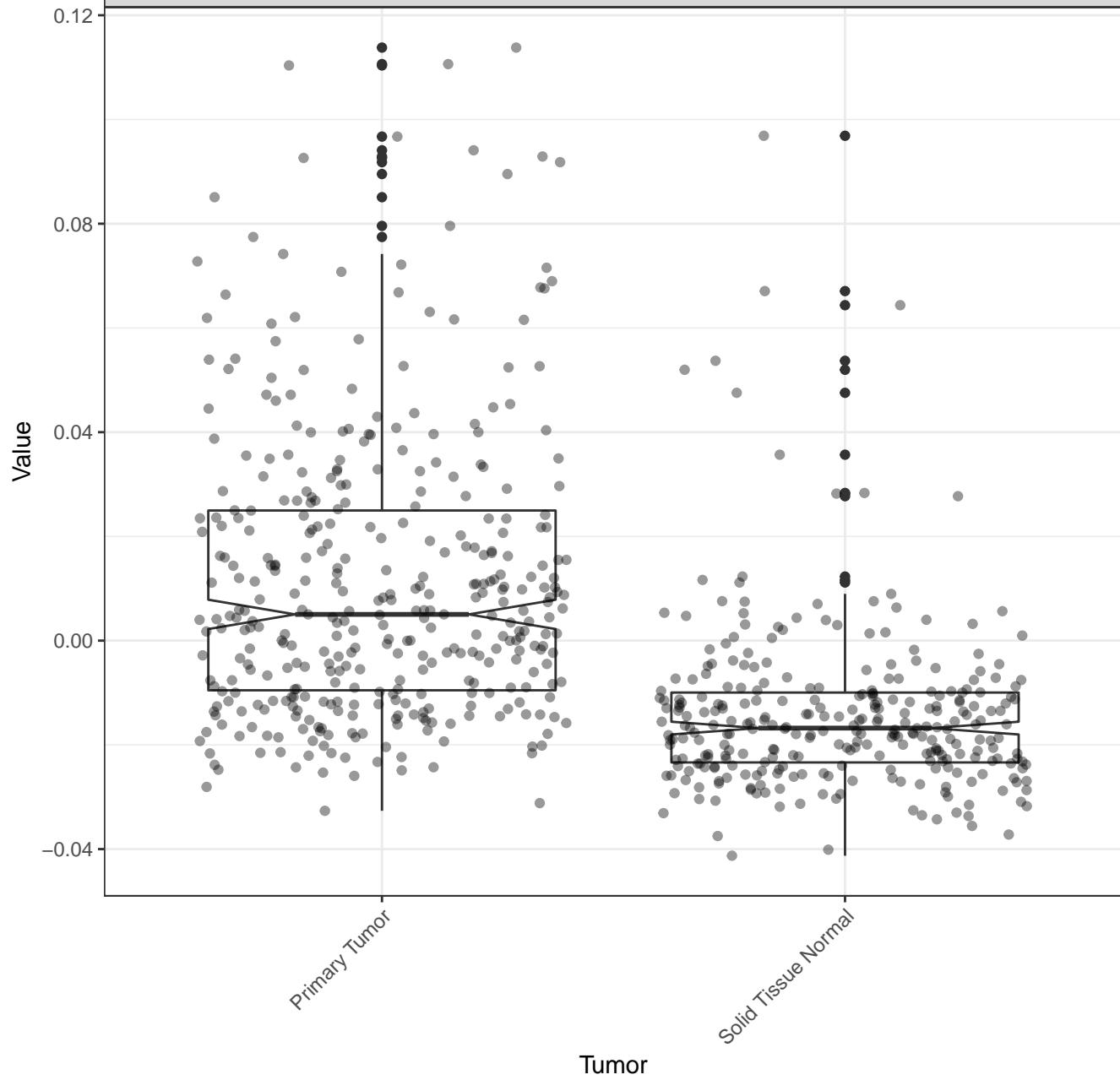
Primary Tumor

Tumor

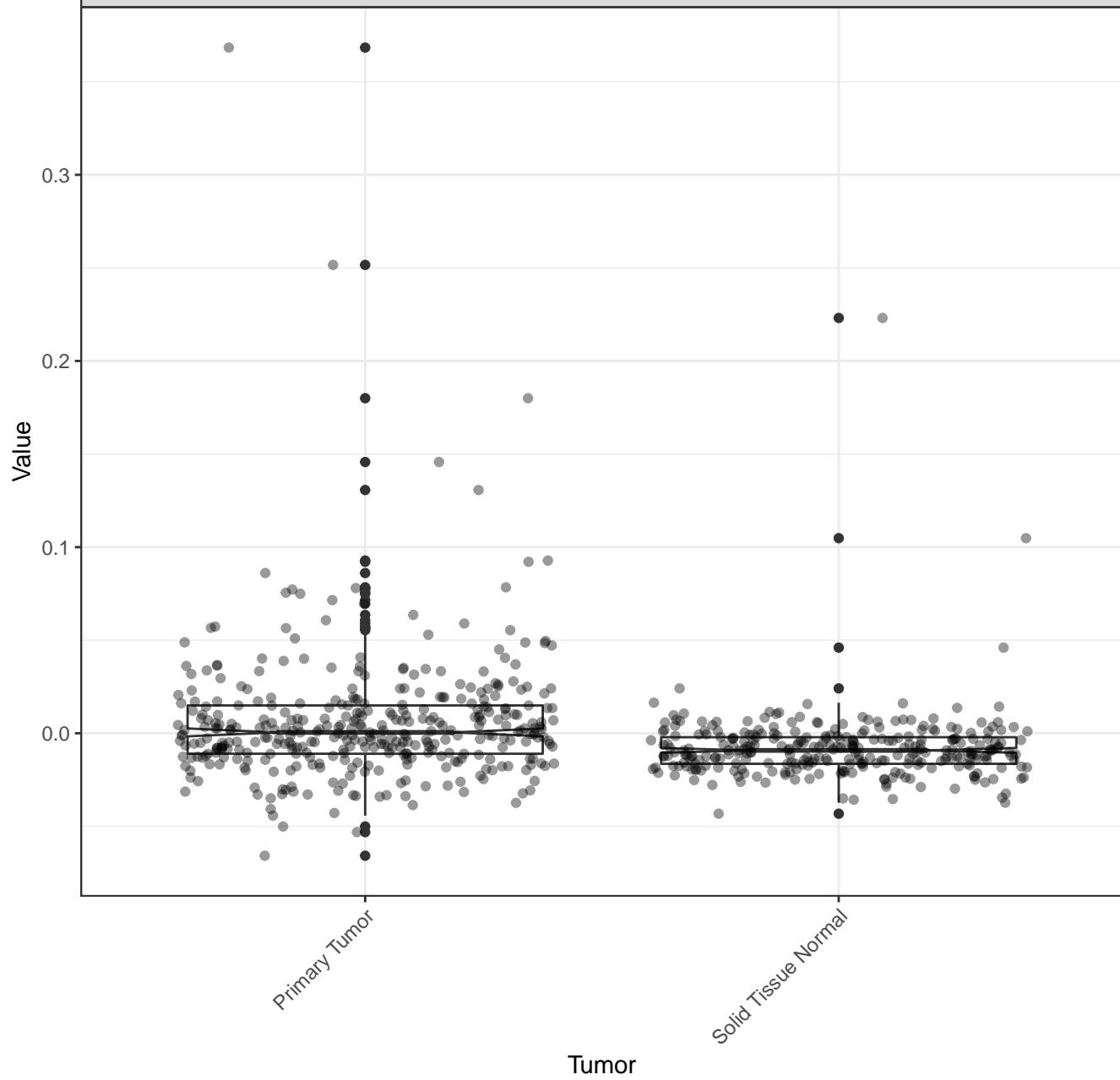
Solid Tissue Normal



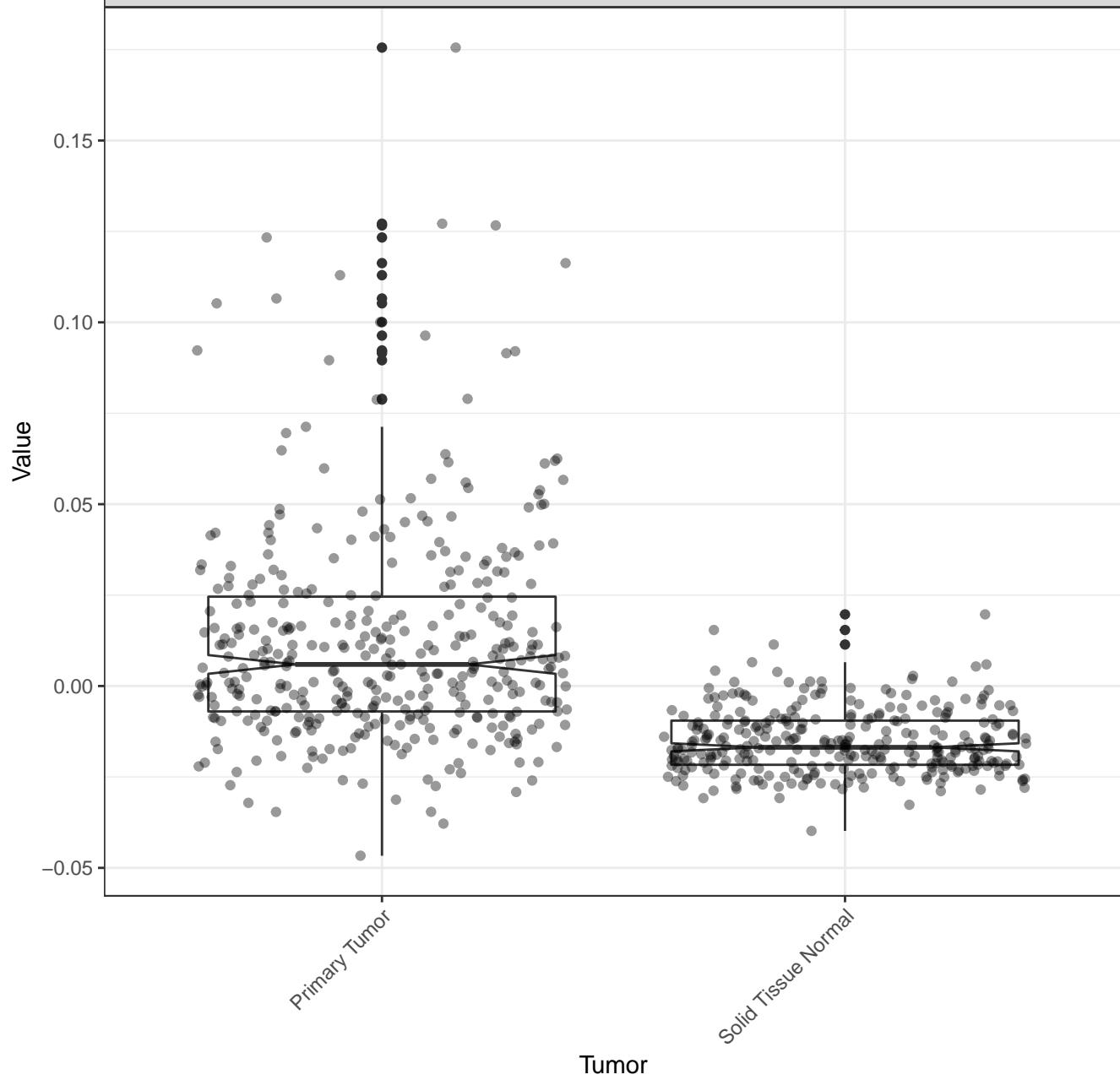
## 45,PID\_MYC\_REPRESSPATHWAY



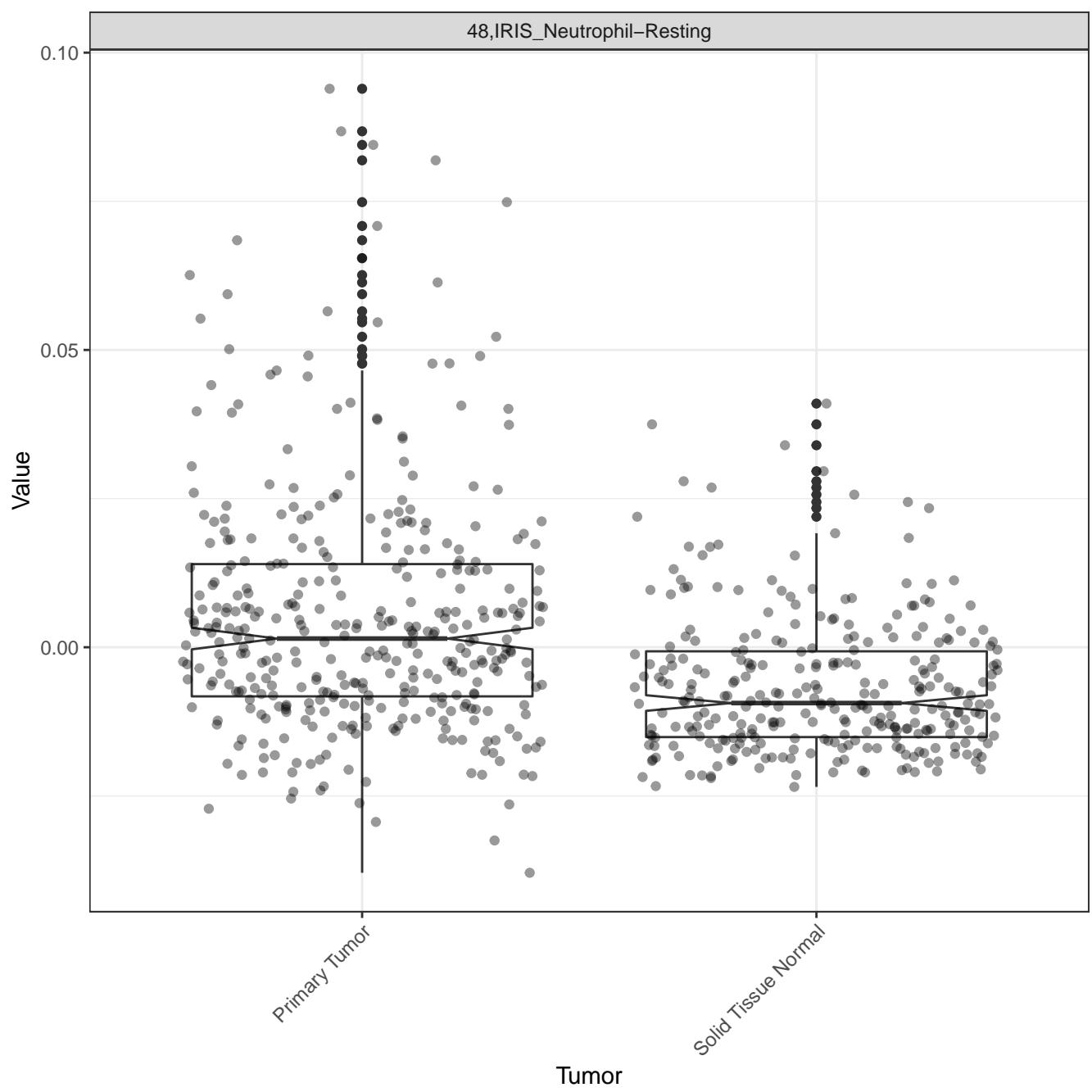
## 46,REACTOME\_AXON\_GUIDANCE



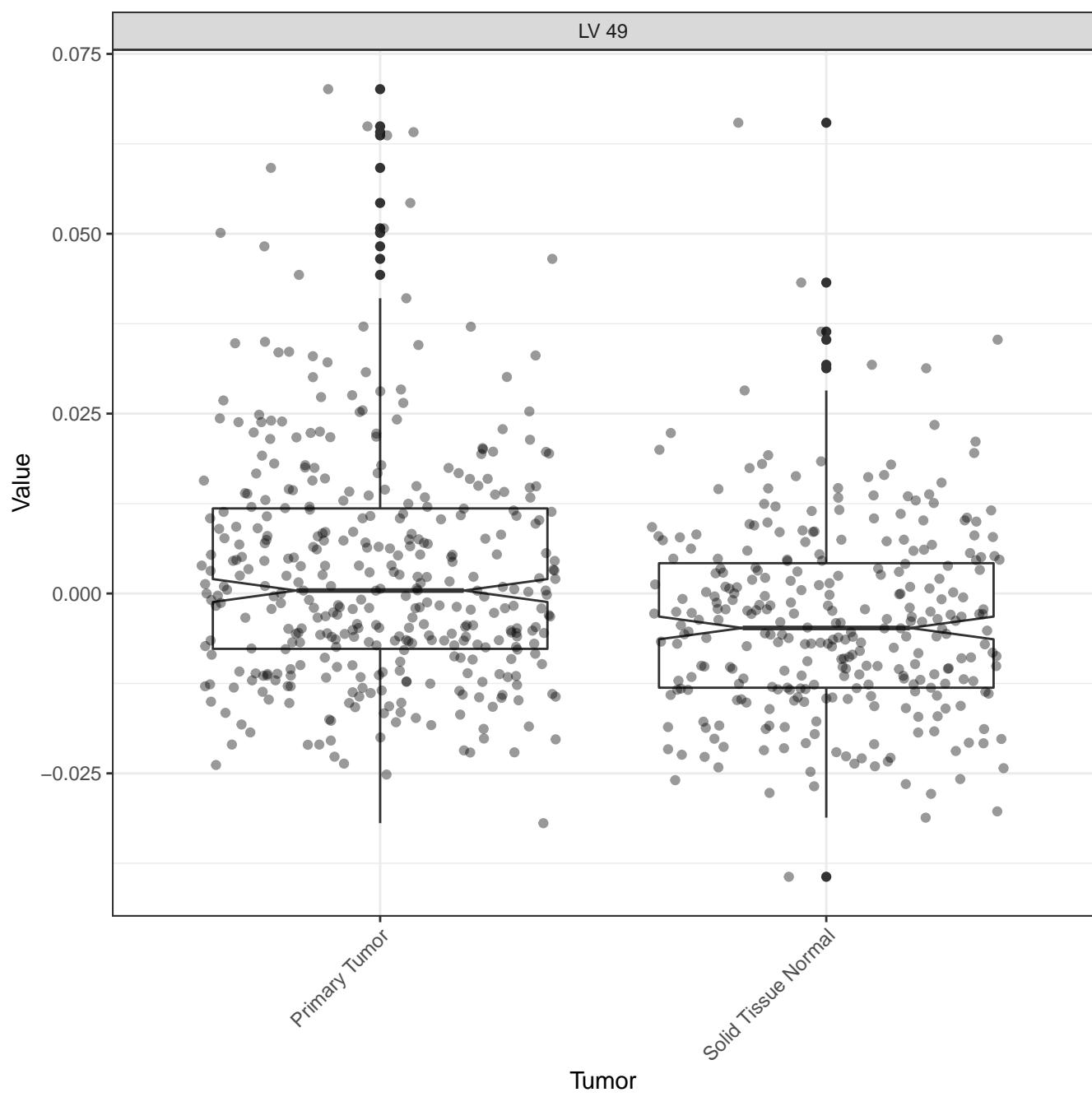
47,REACTOME\_METABOLISM\_OF\_MRNA



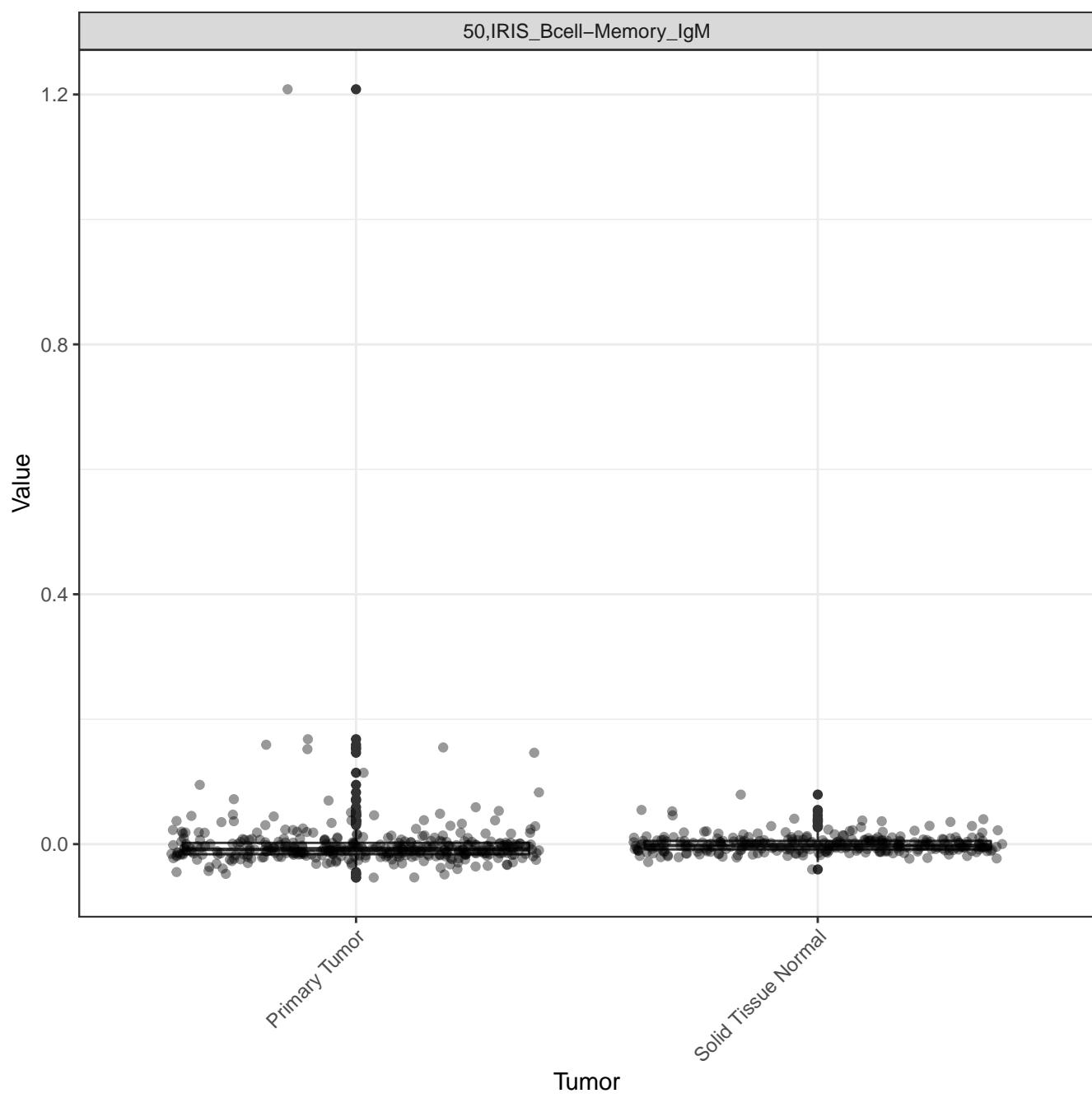
## 48,IRIS\_Neutrophil-Resting



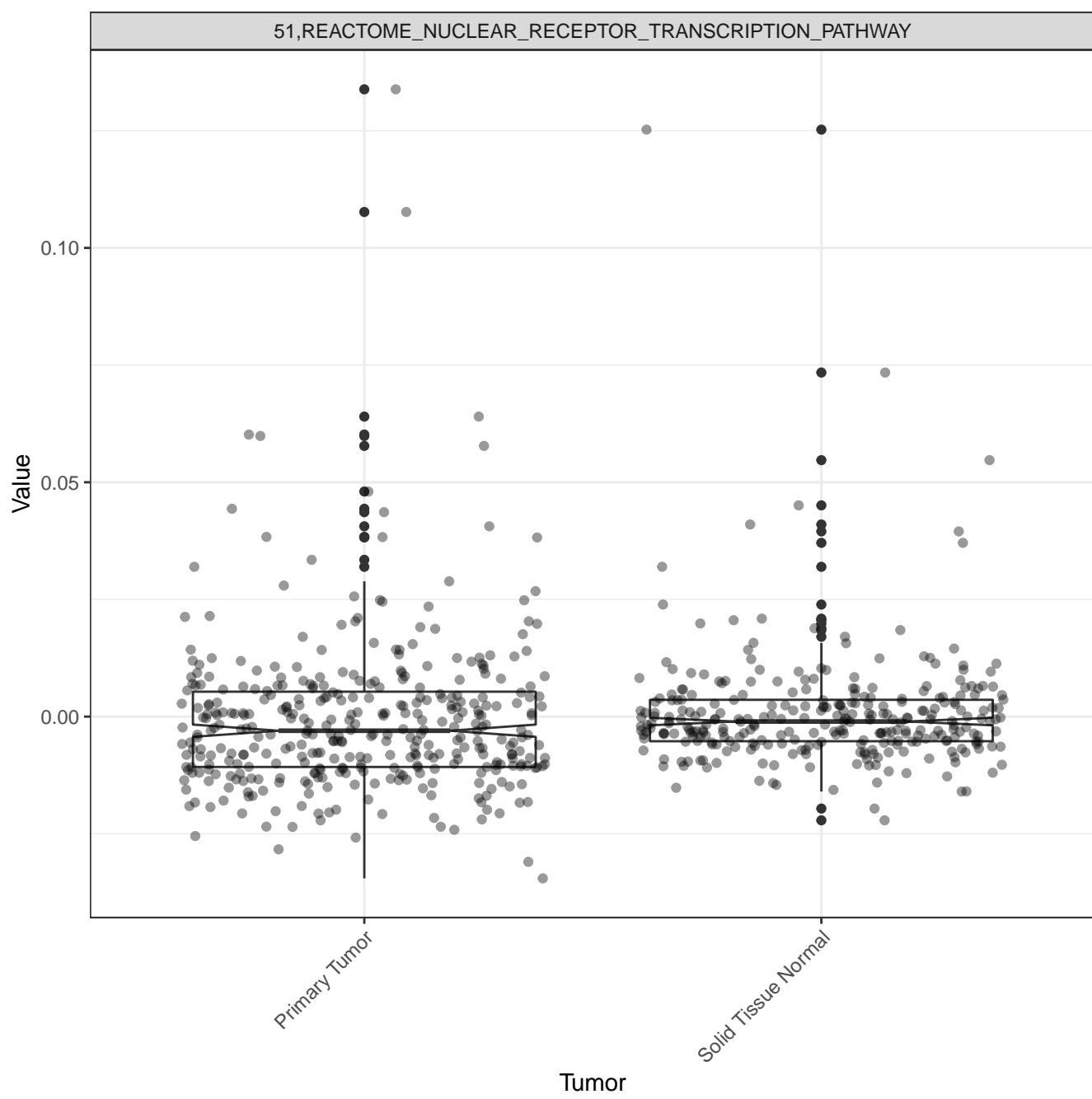
LV 49



## 50,IRIS\_Bcell-Memory\_IgM



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



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

Value

0.10

0.05

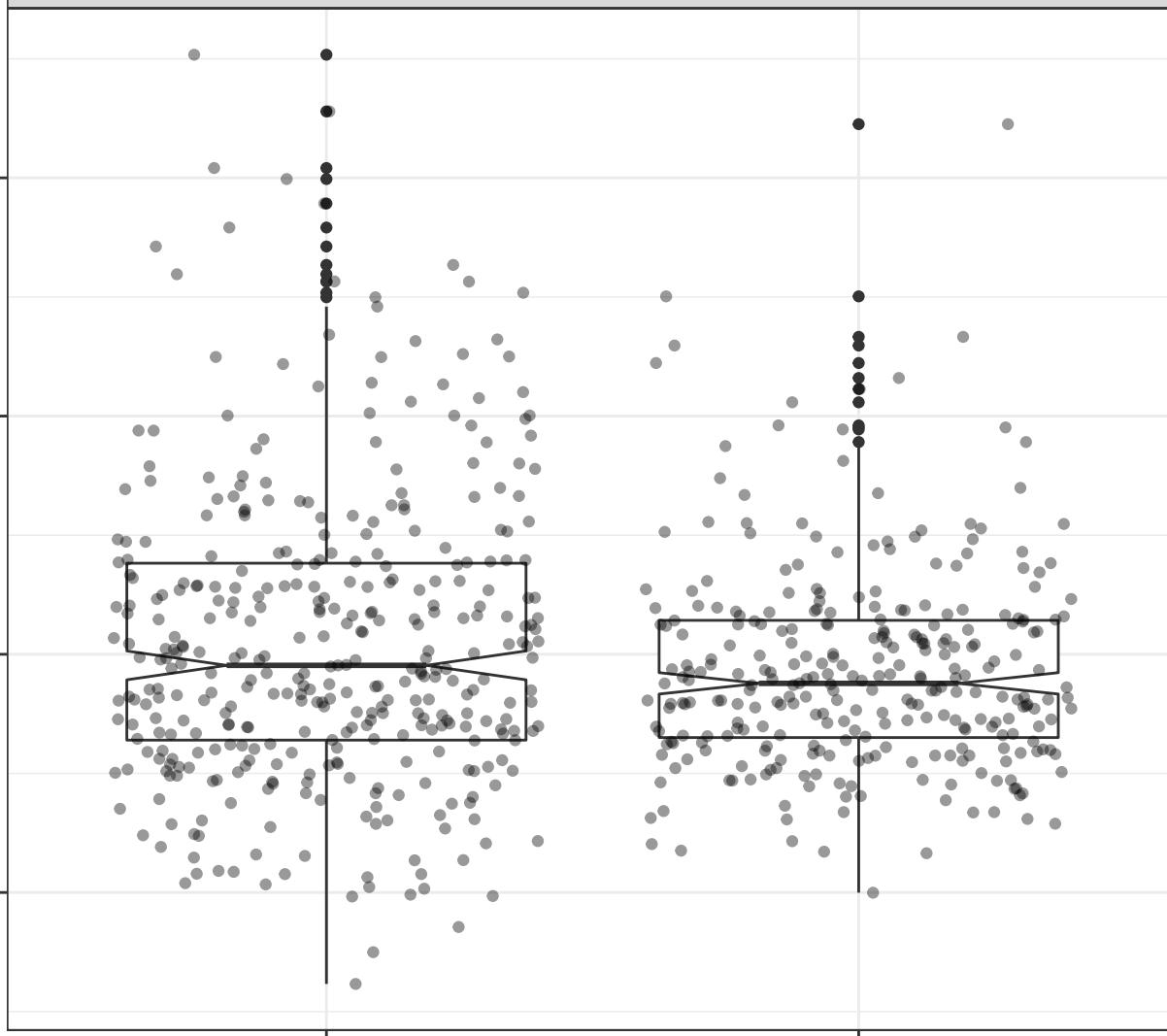
0.00

-0.05

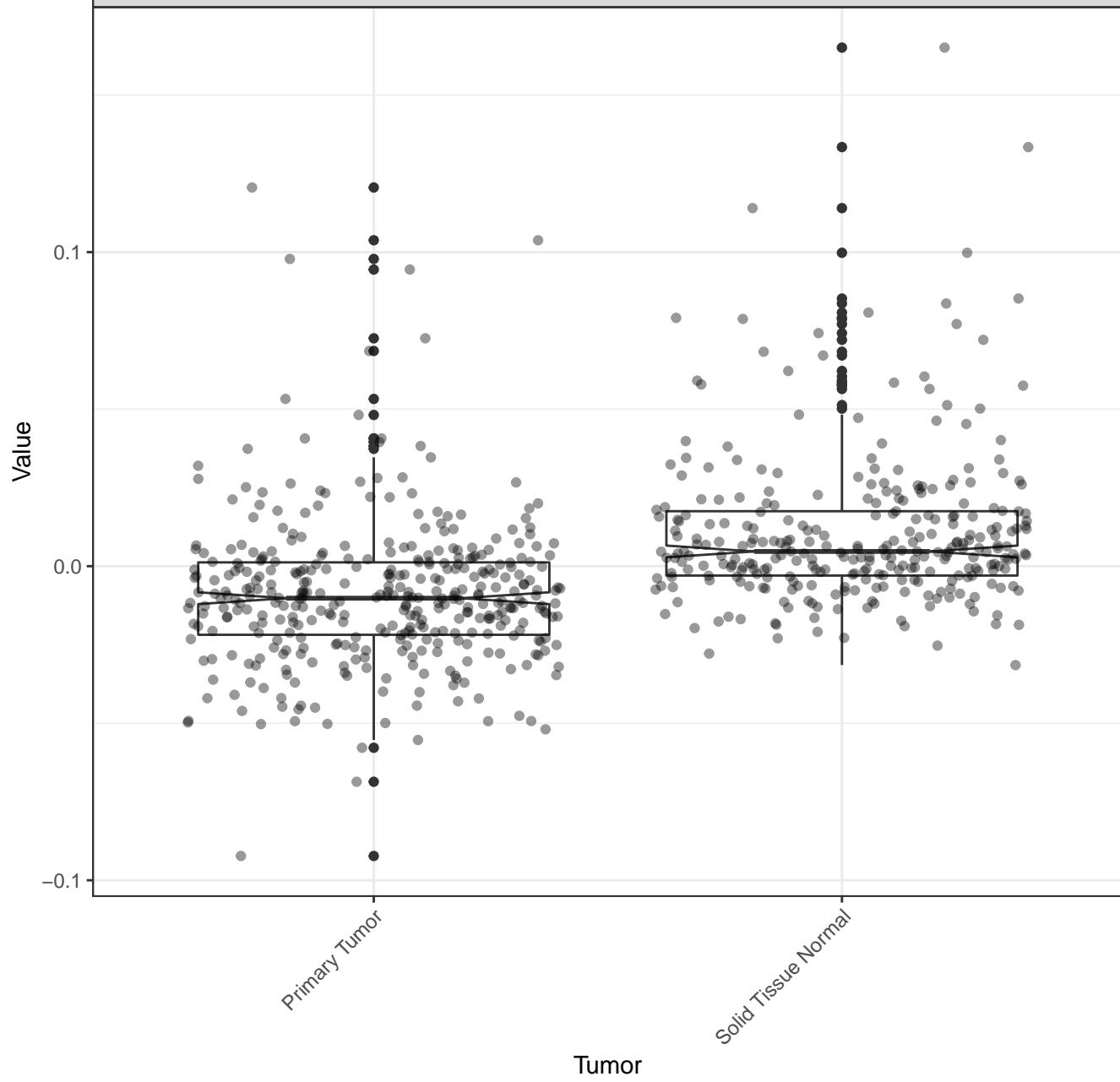
Primary Tumor

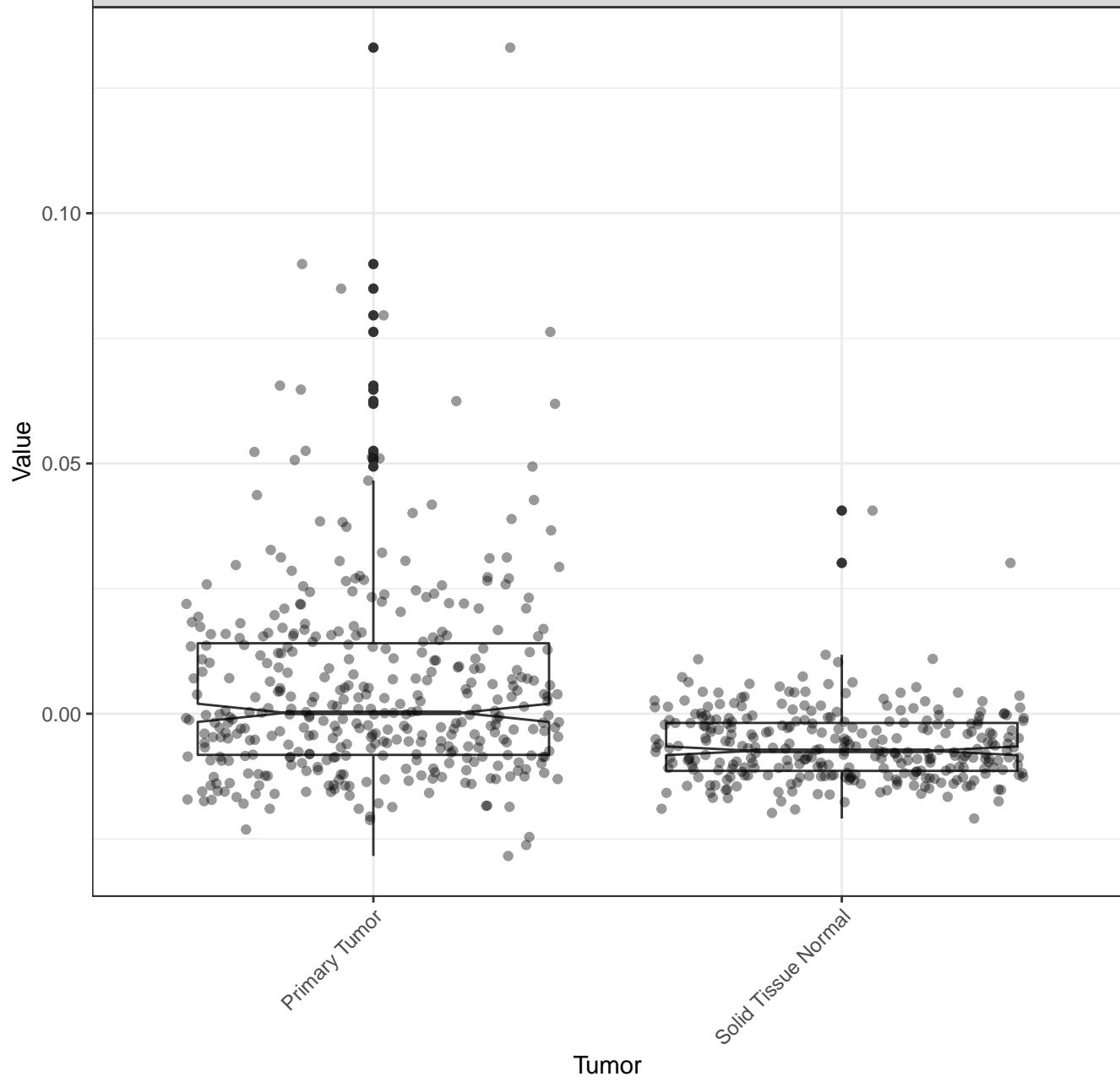
Solid Tissue Normal

Tumor

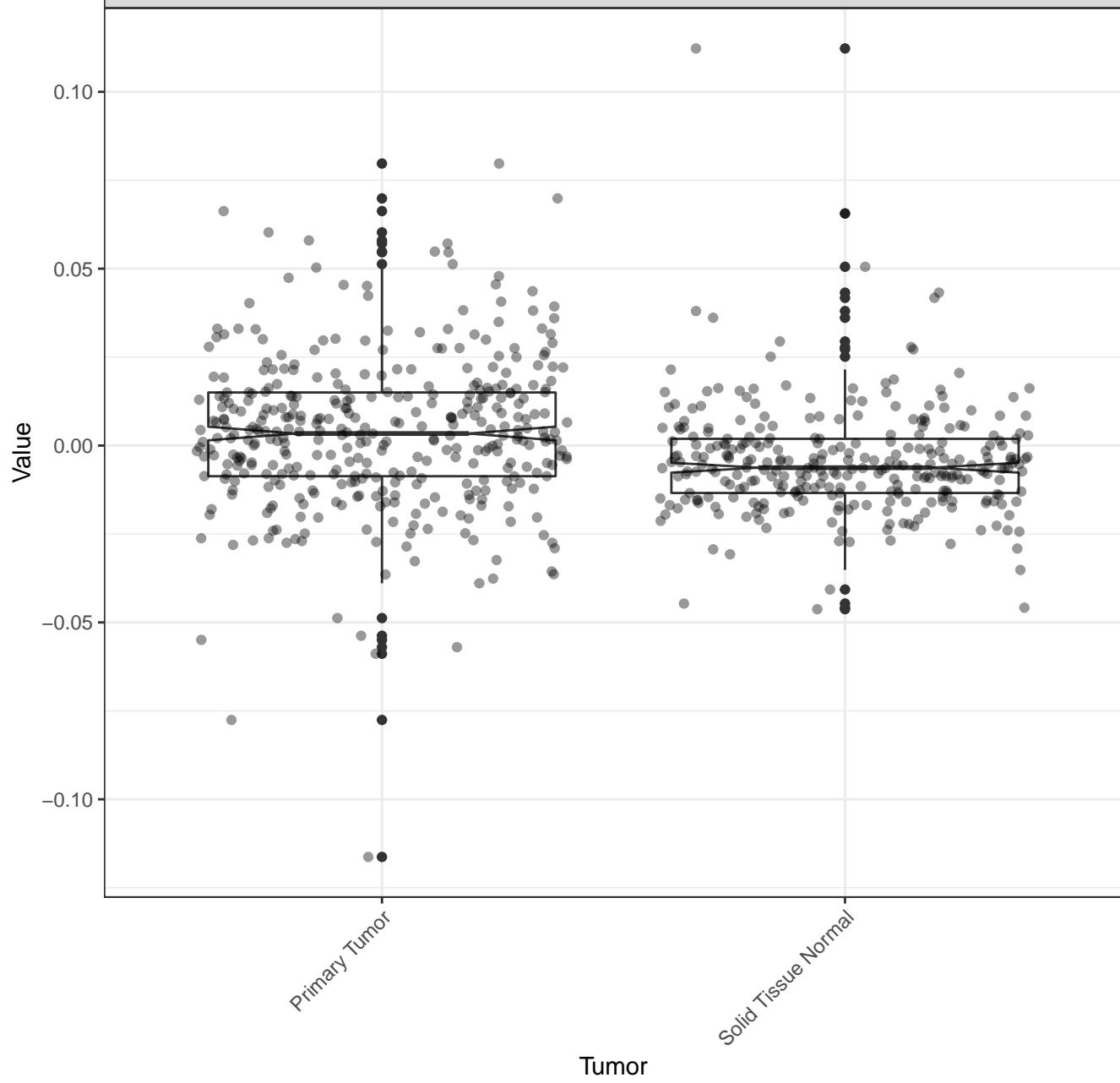


### 53,SVM T cells CD4 memory activated

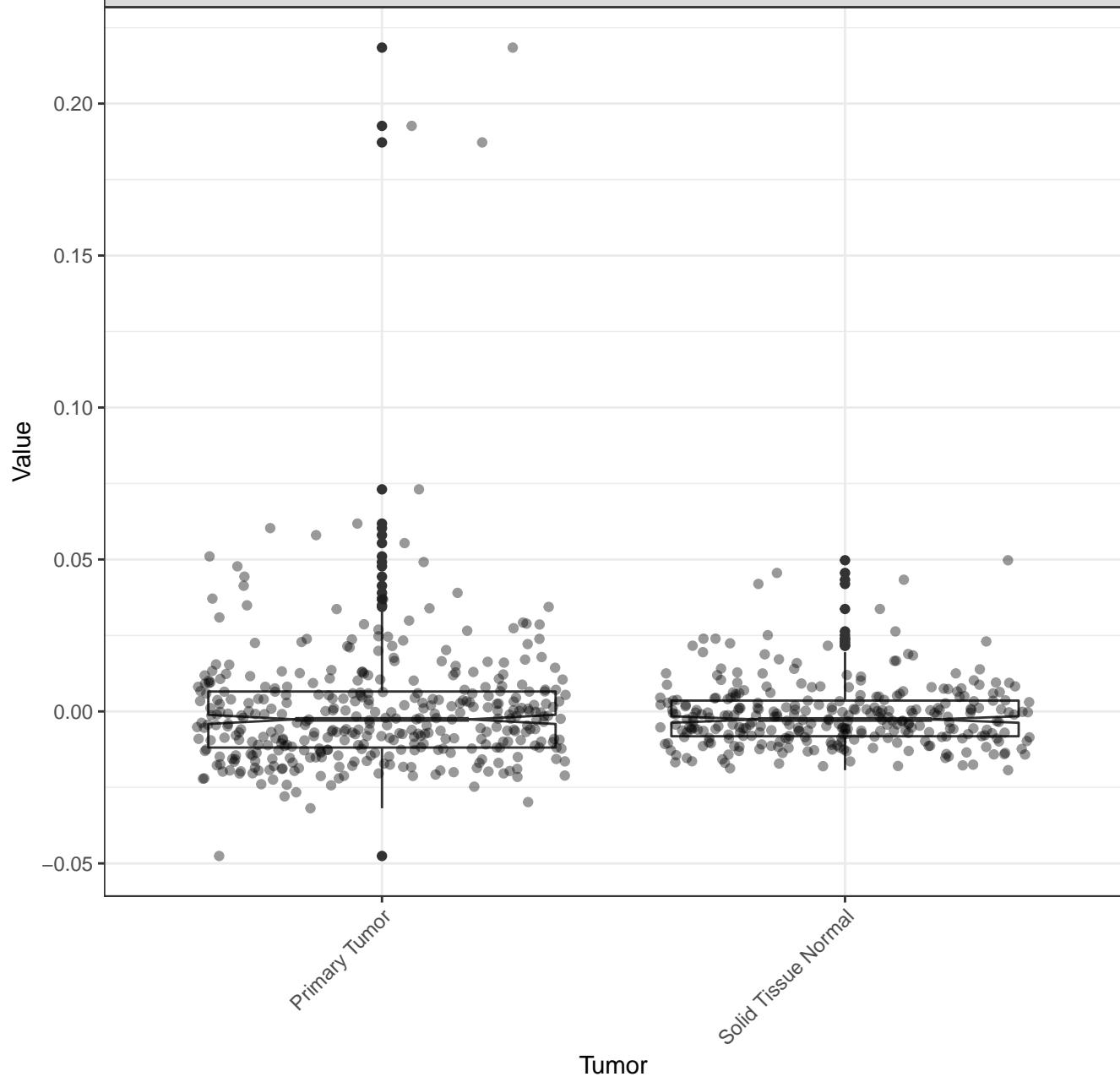




### 55,KEGG\_INSULIN\_SIGNALING\_PATHWAY



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



# 57,KEGG\_SYSTEMIC\_LUPUS\_ERYTHEMATOSUS

Value

0.2

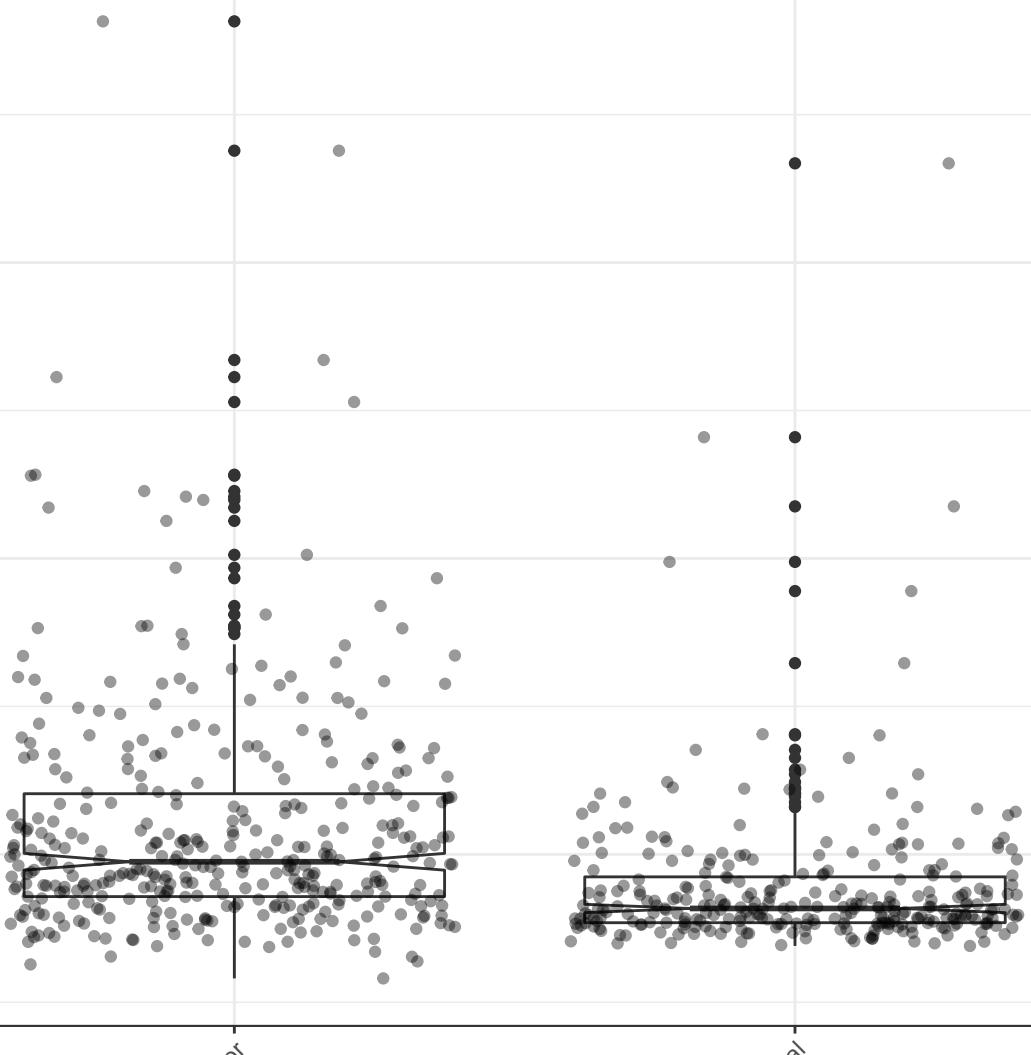
0.1

0.0

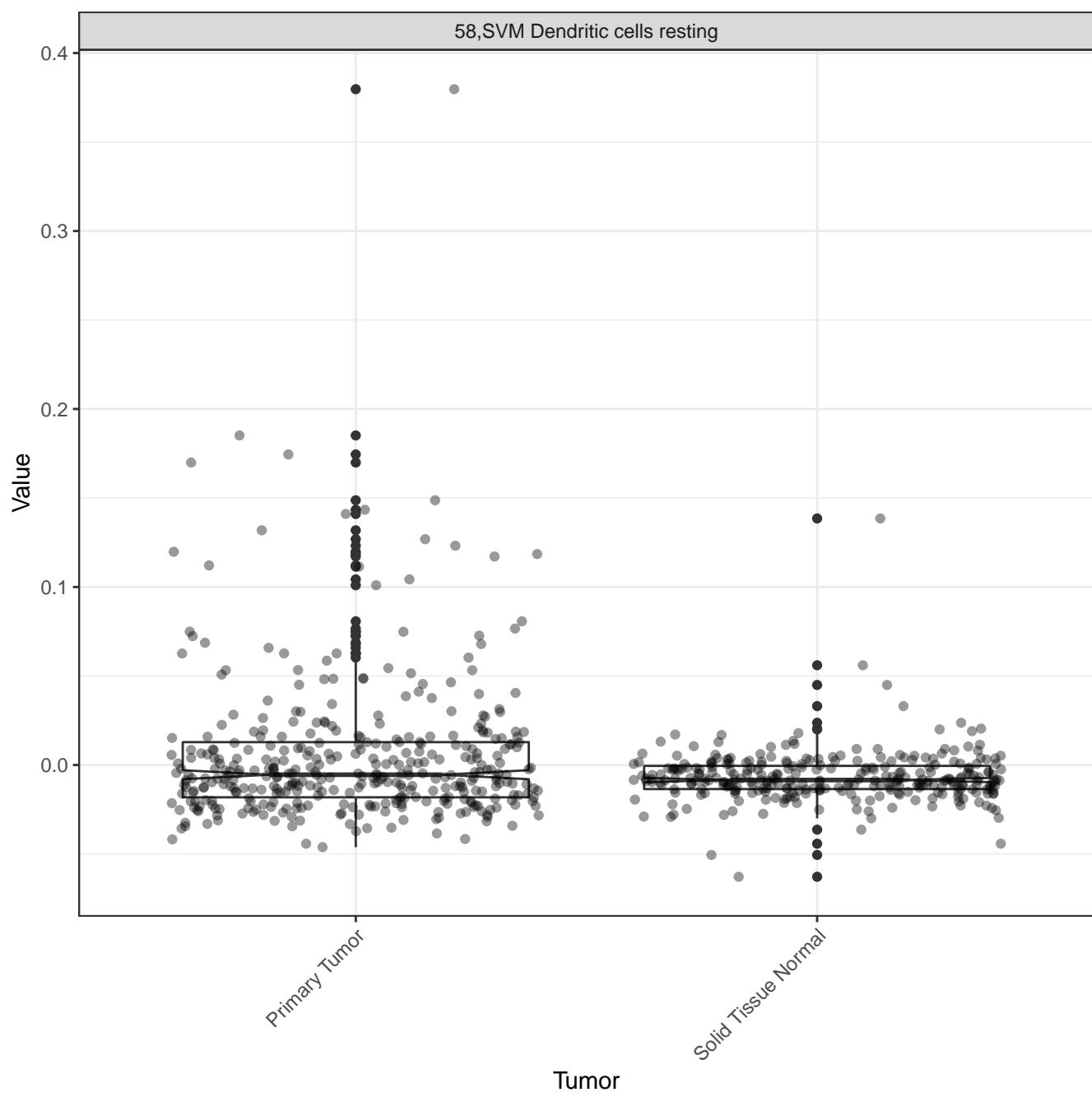
Primary Tumor

Solid Tissue Normal

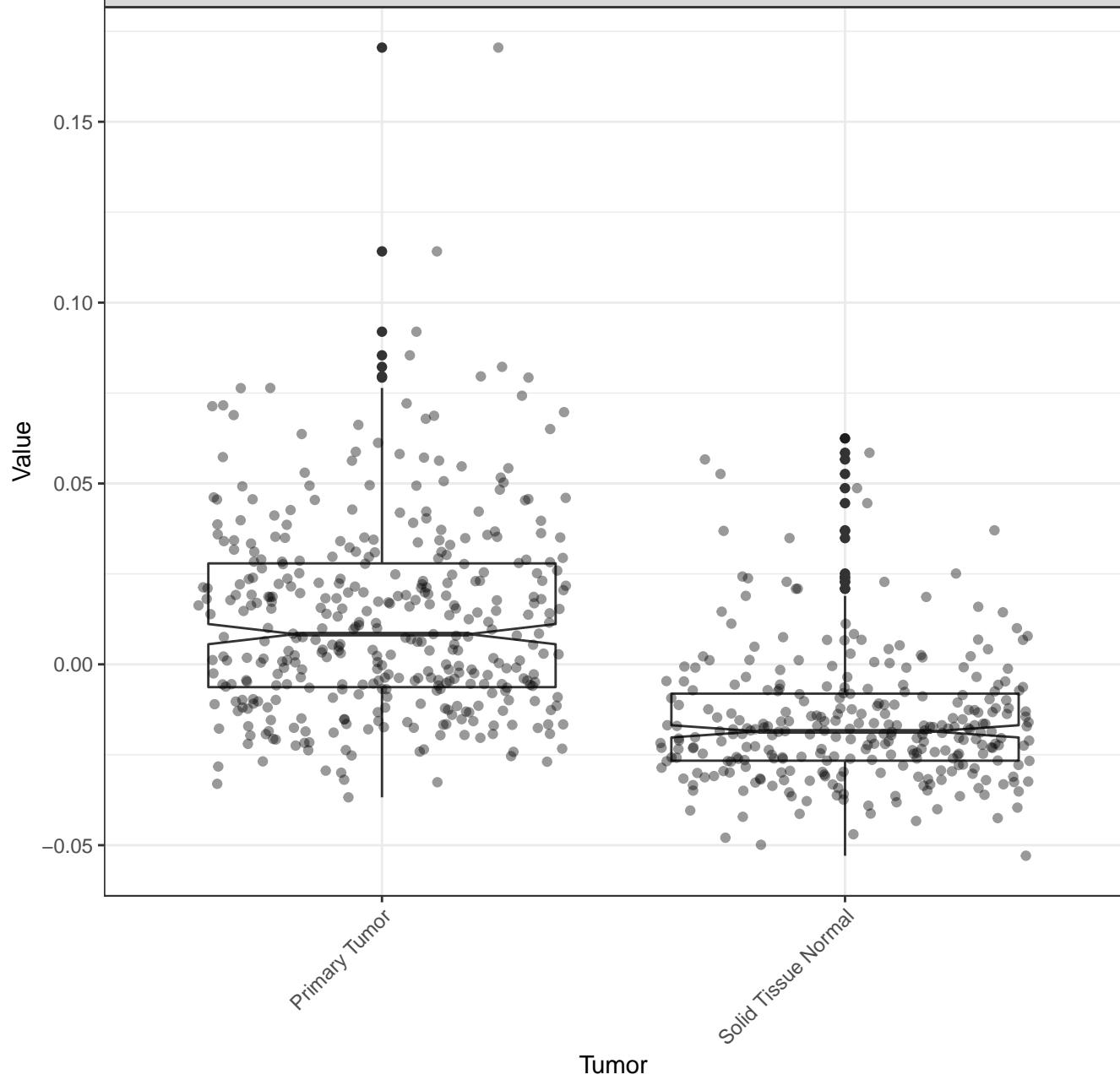
Tumor



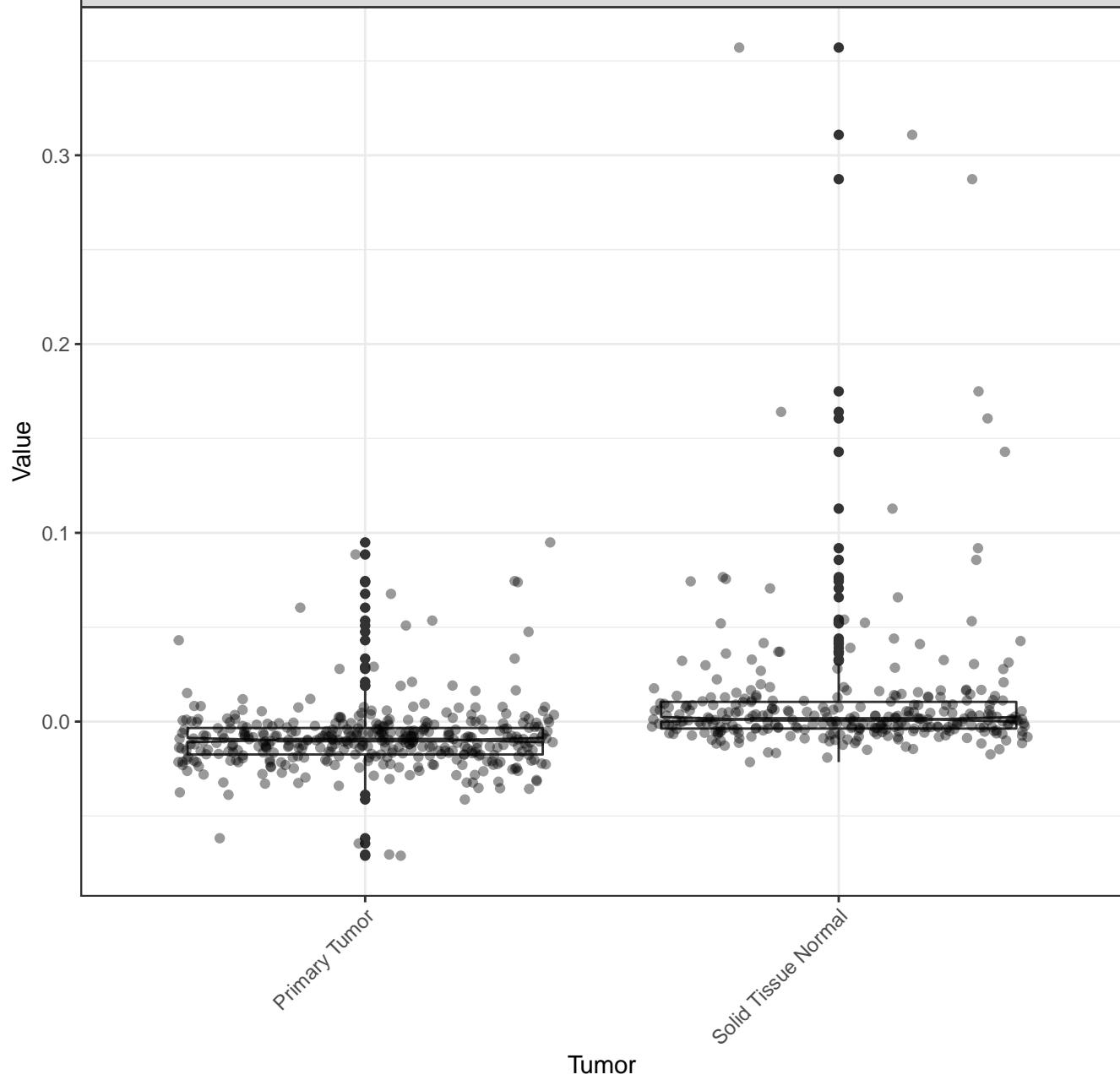
58,SVM Dendritic cells resting



59,REACTOME\_HIV\_INFECTION

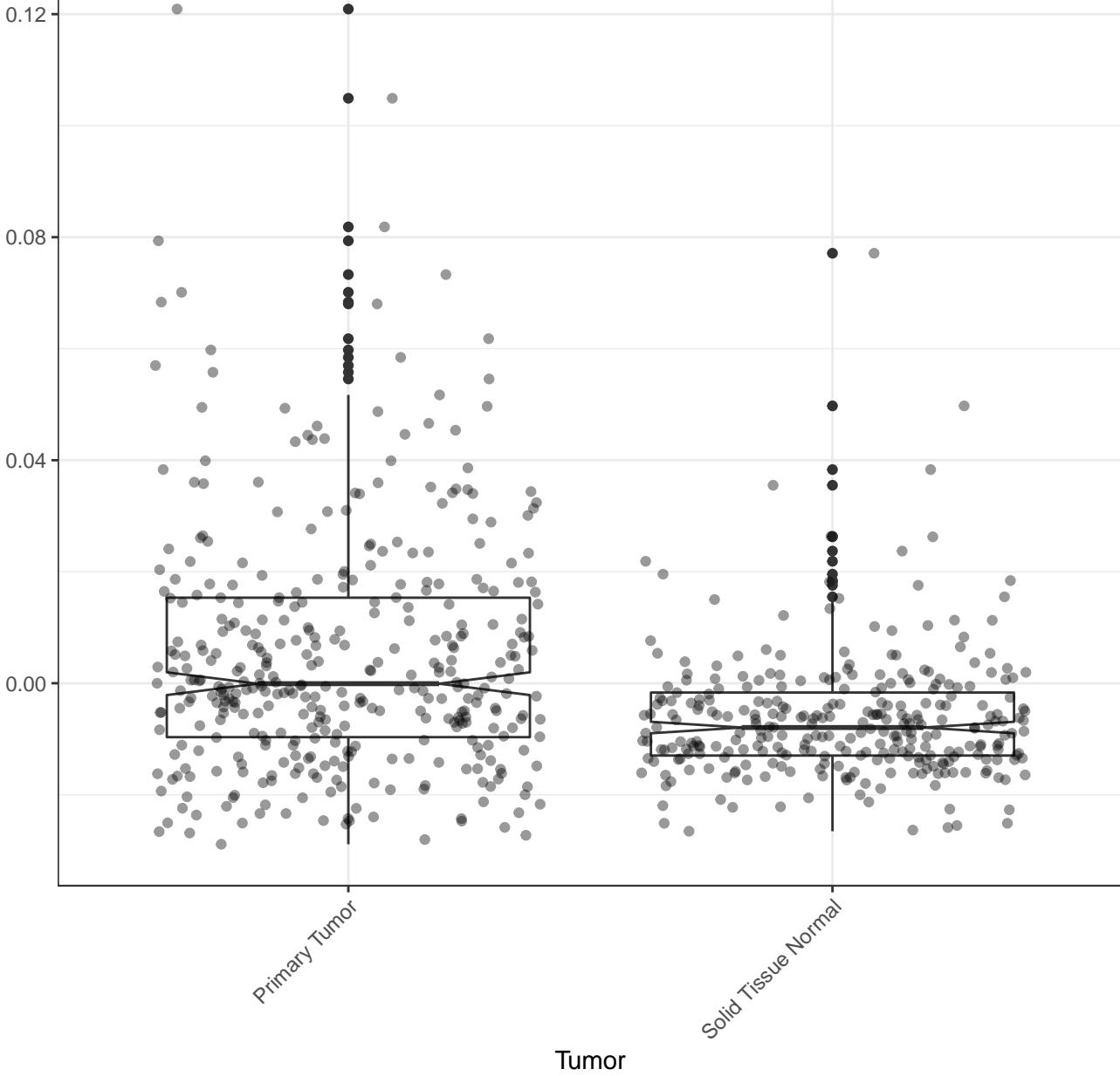


## 60,IRIS\_NKcell-control



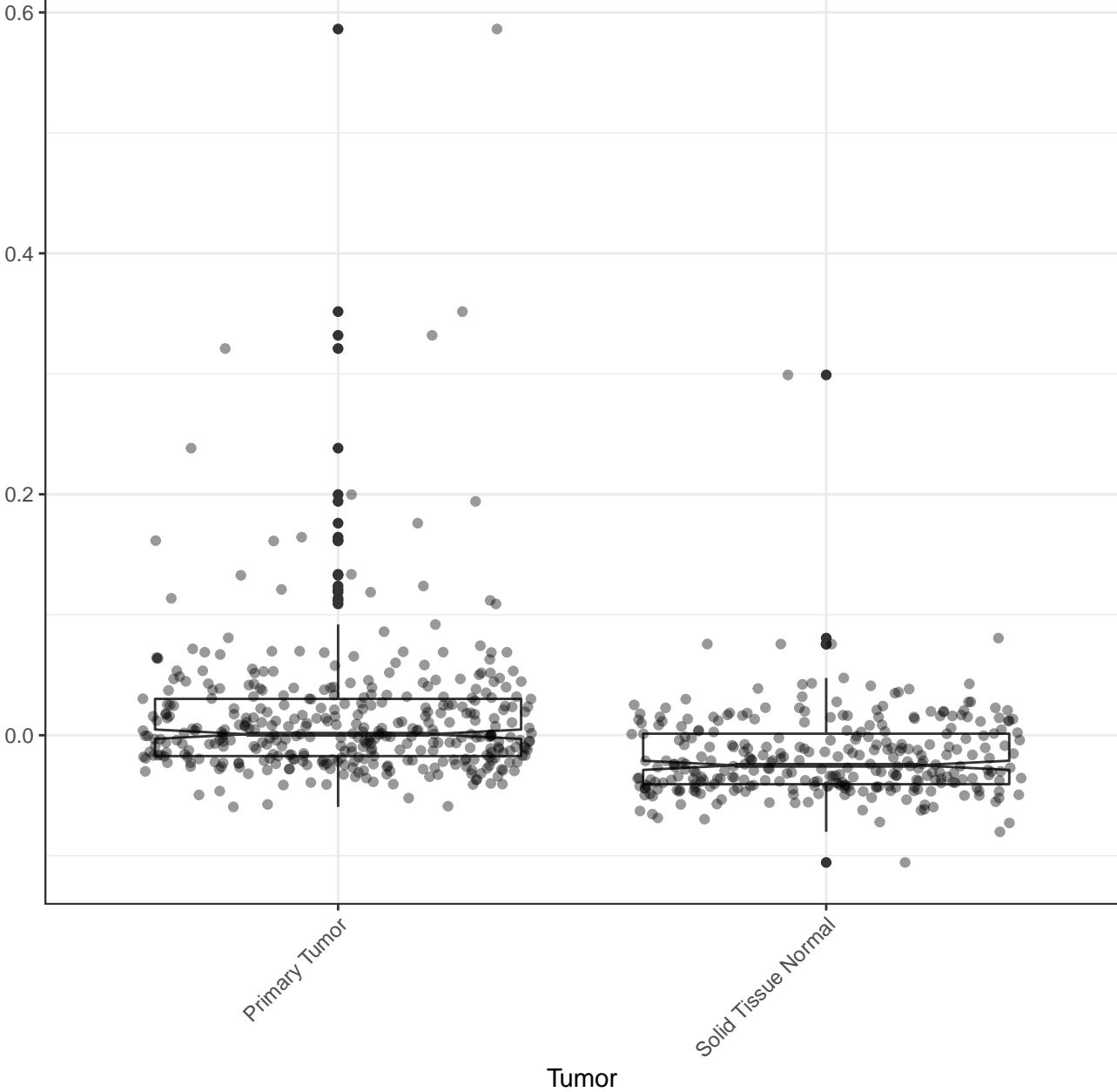
# 61,REACTOME\_METABOLISM\_OF\_VITAMINS\_AND\_COFACTORS

Value



## 62,IRIS\_DendriticCell-Control

Value



## 63,DMAP\_ERY4

Value

0.6

0.4

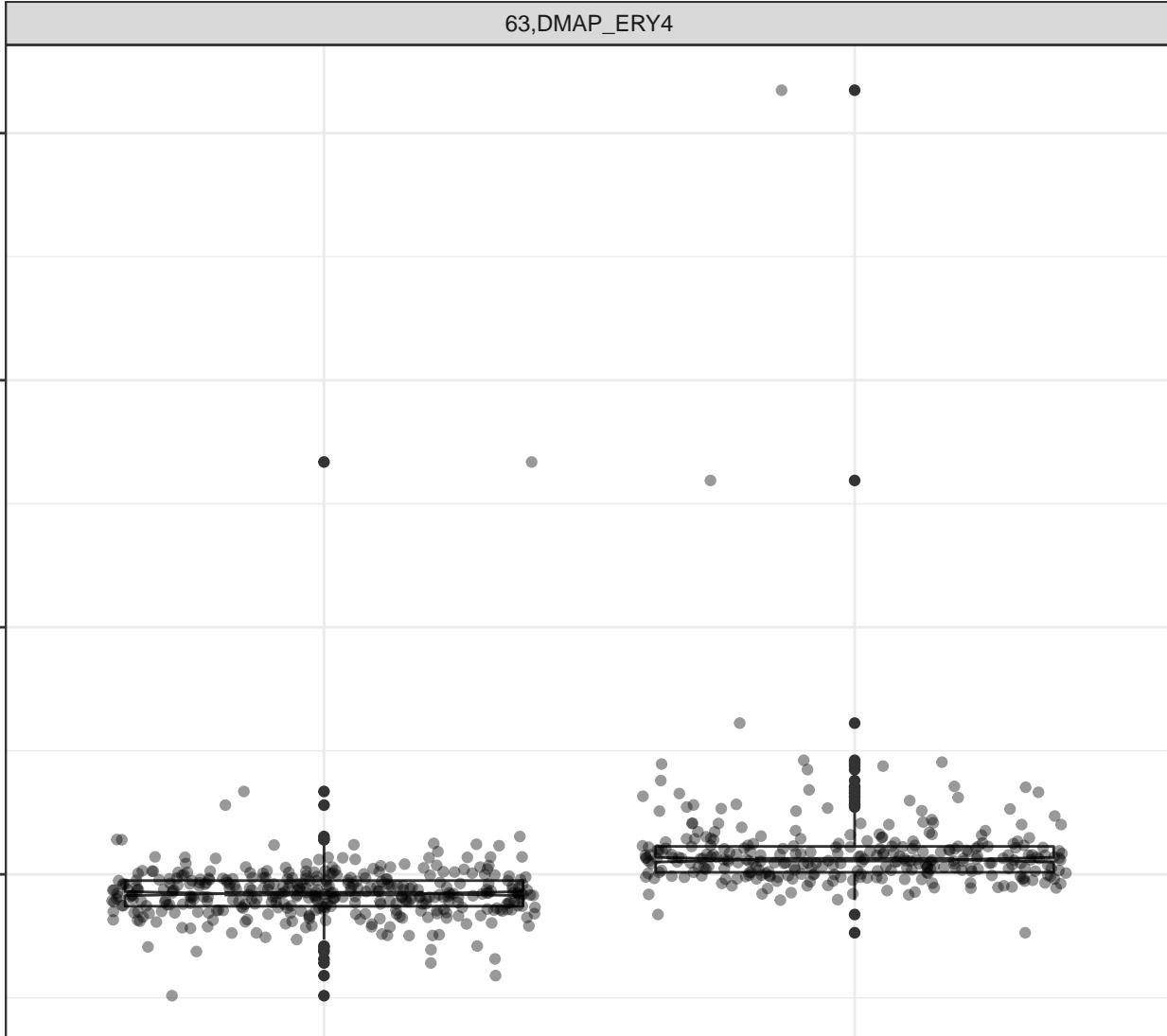
0.2

0.0

Primary Tumor

Solid Tissue Normal

Tumor



## 64,DMAP\_DENDA2

Value

0.10

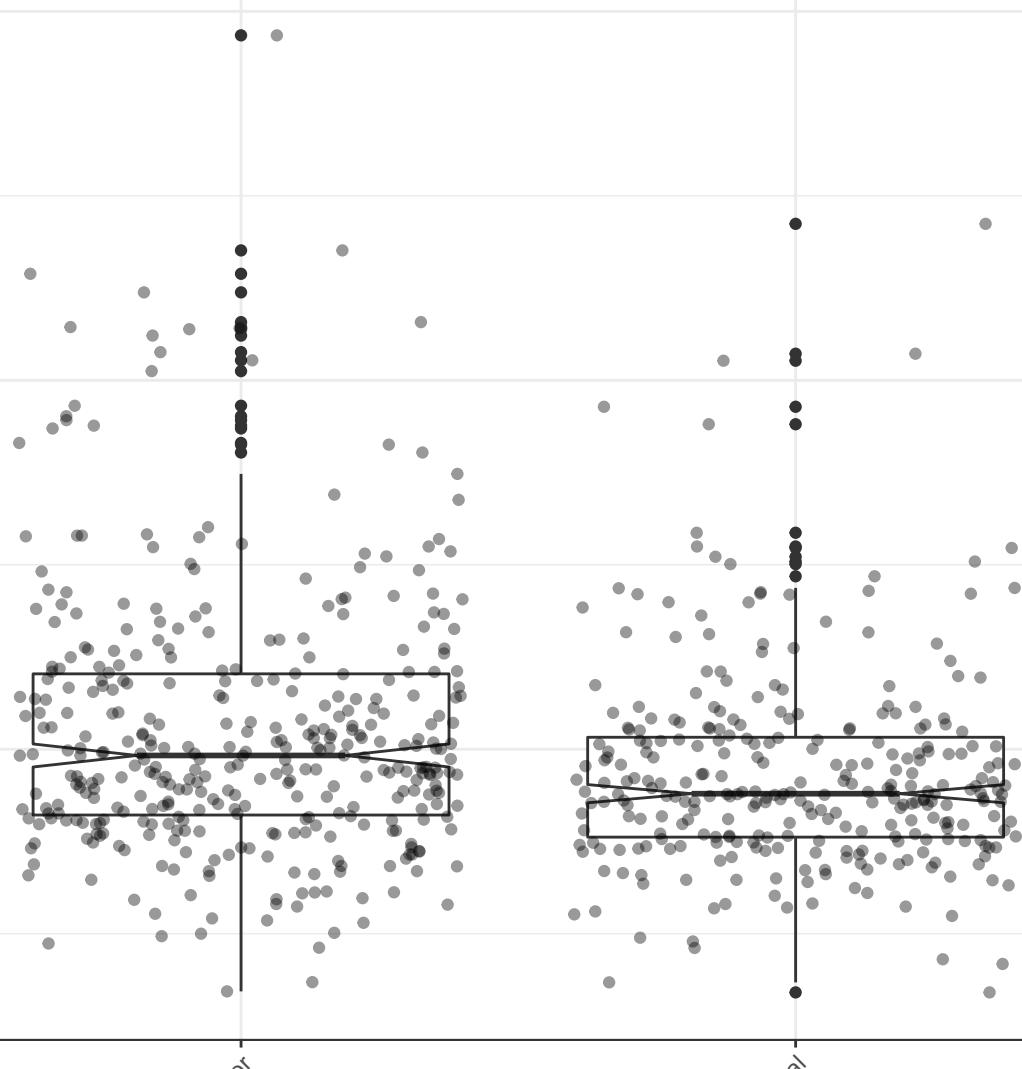
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



### 65,SVM NK cells resting

Value

0.4

0.3

0.2

0.1

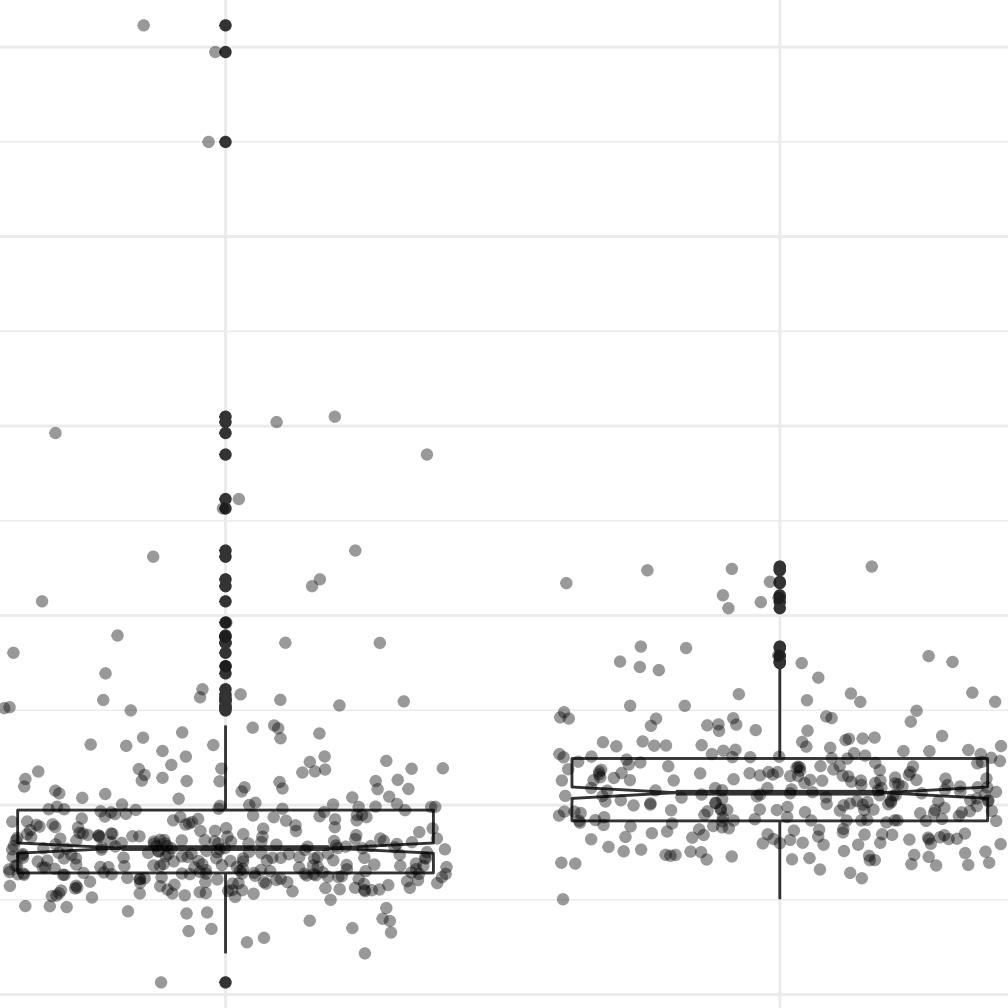
0.0

-0.1

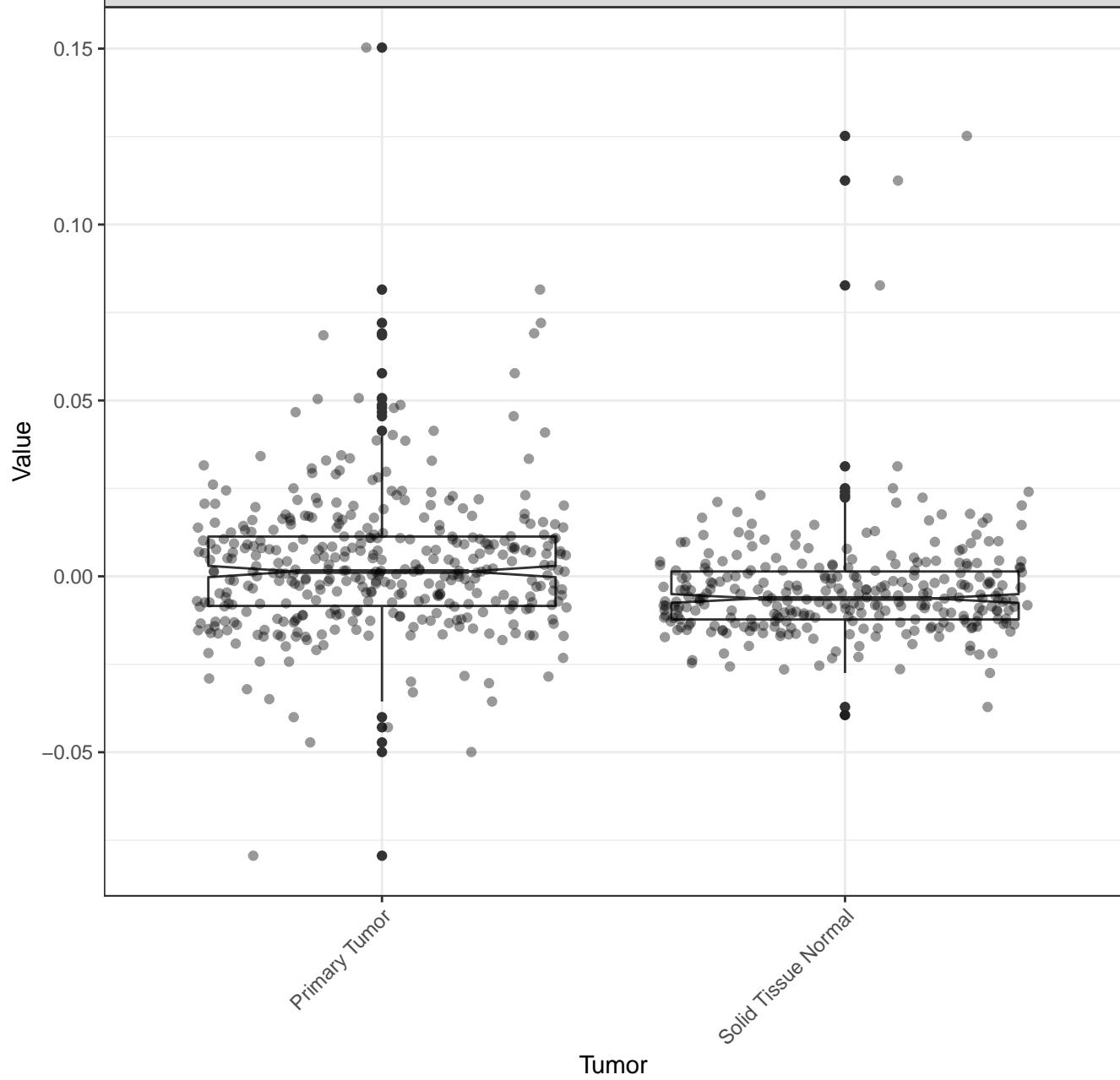
Primary Tumor

Solid Tissue Normal

Tumor



# 66,IRIS\_Neutrophil–Resting



# 67,REACTOME\_COLLAGEN\_FORMATION

Value

0.1

0.0

-0.1

Primary Tumor

Solid Tissue Normal

Tumor



## 68,REACTOME\_RESPIRATORY\_ELECTRON\_TRANSPORT

Value

0.05

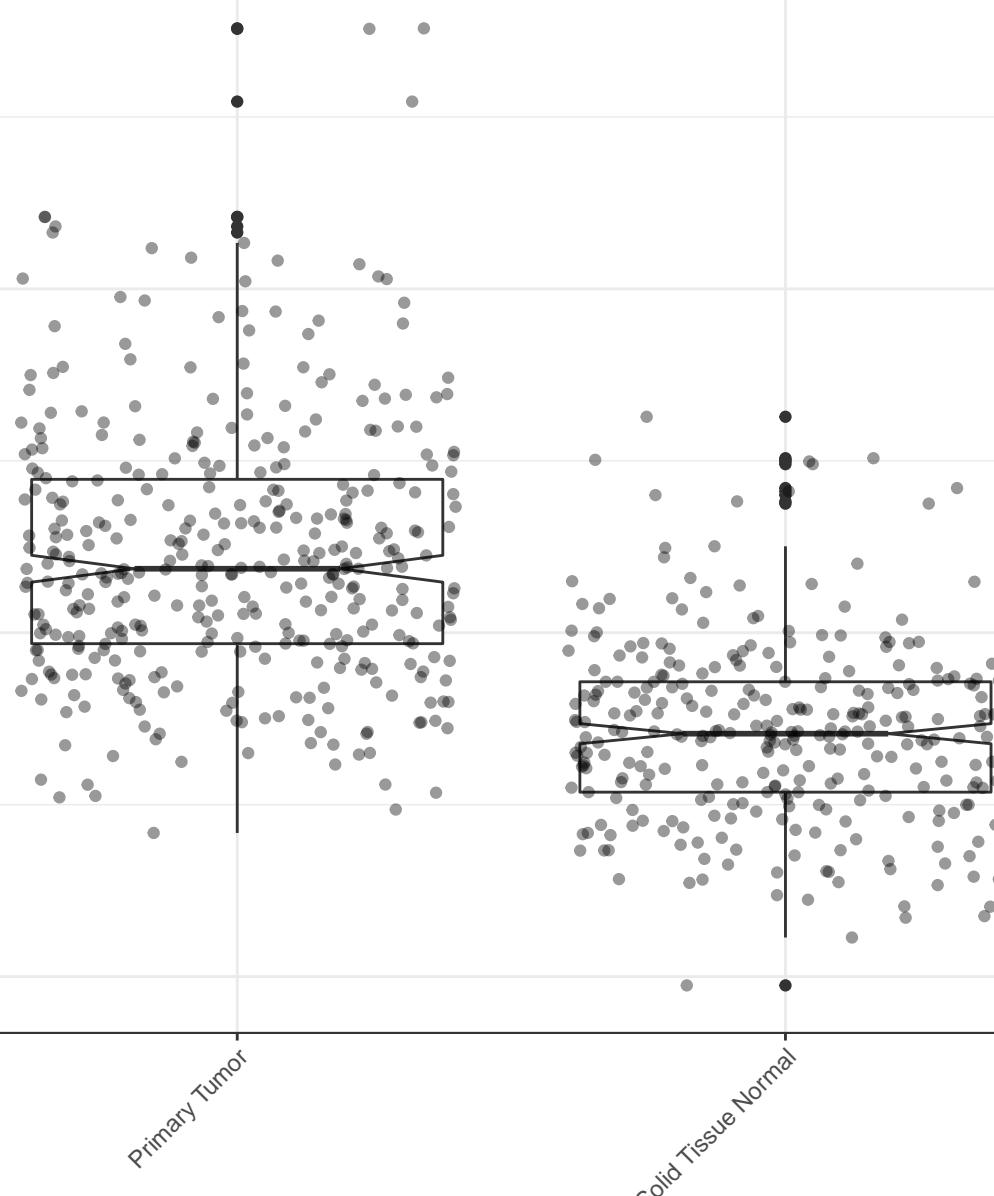
0.00

-0.05

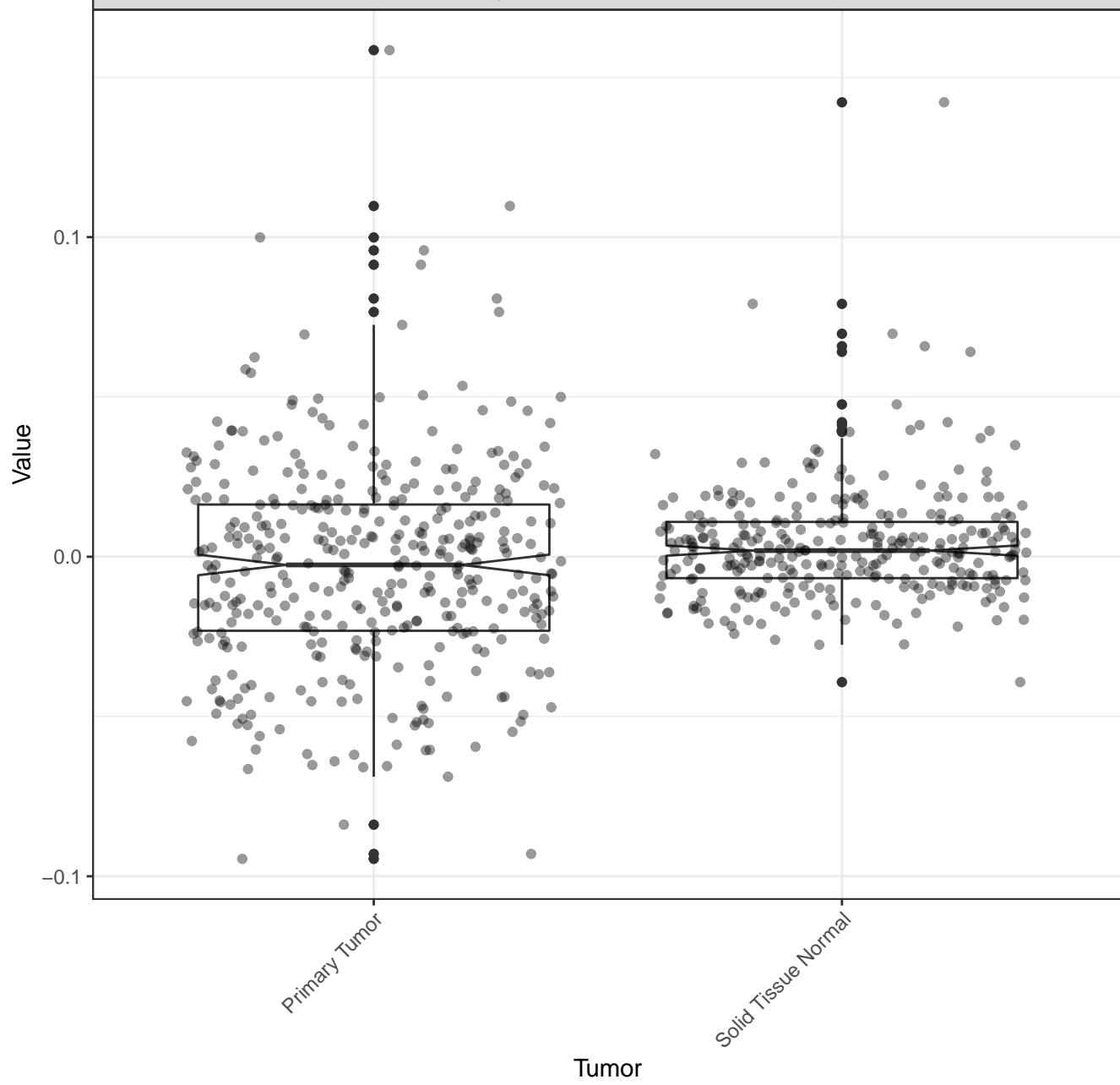
Primary Tumor

Solid Tissue Normal

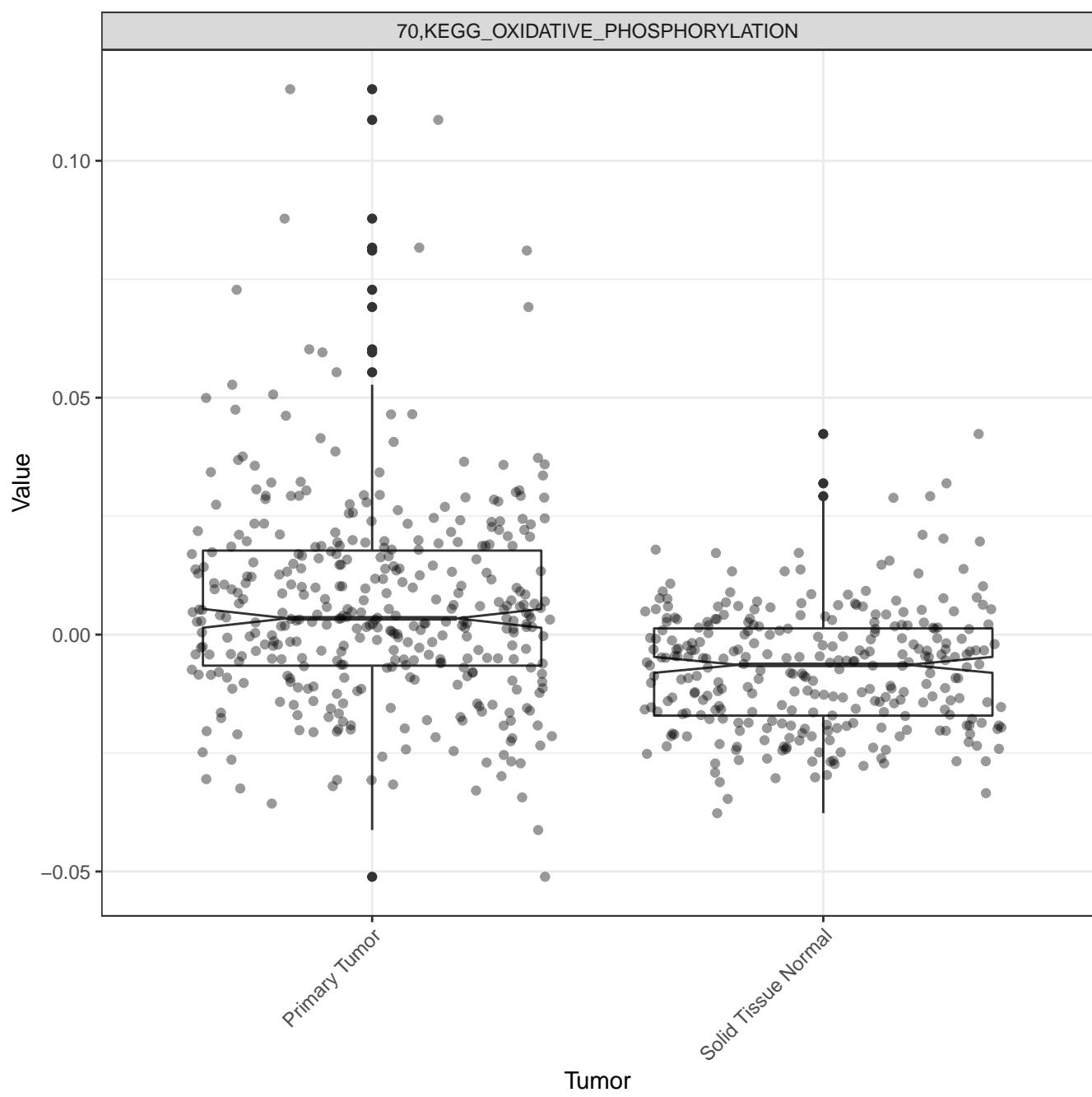
Tumor



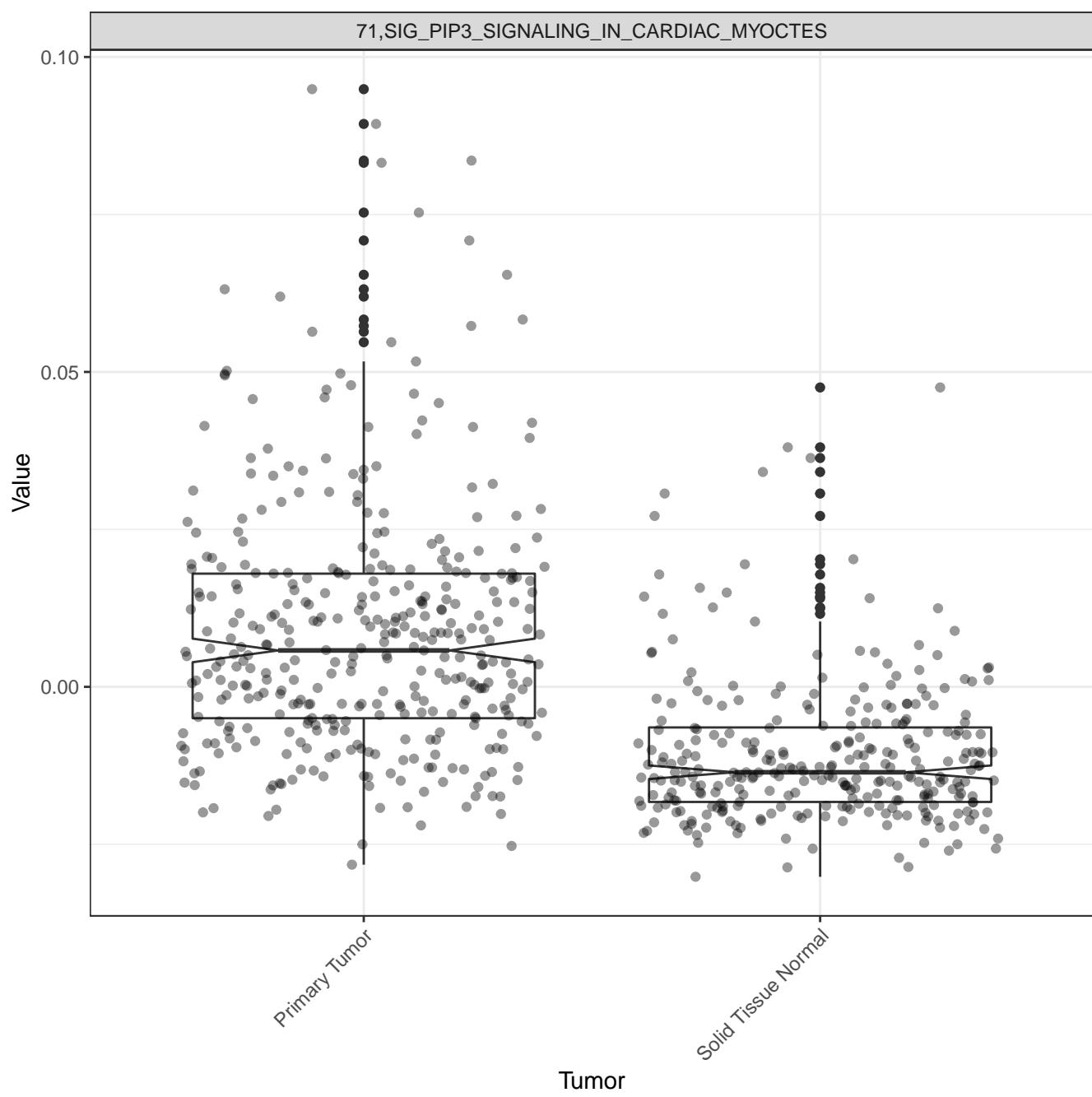
## 69,PID\_EPHBFWDPATHWAY



### 70,KEGG\_OXIDATIVE\_PHOSPHORYLATION



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



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

Value

0.2

0.0

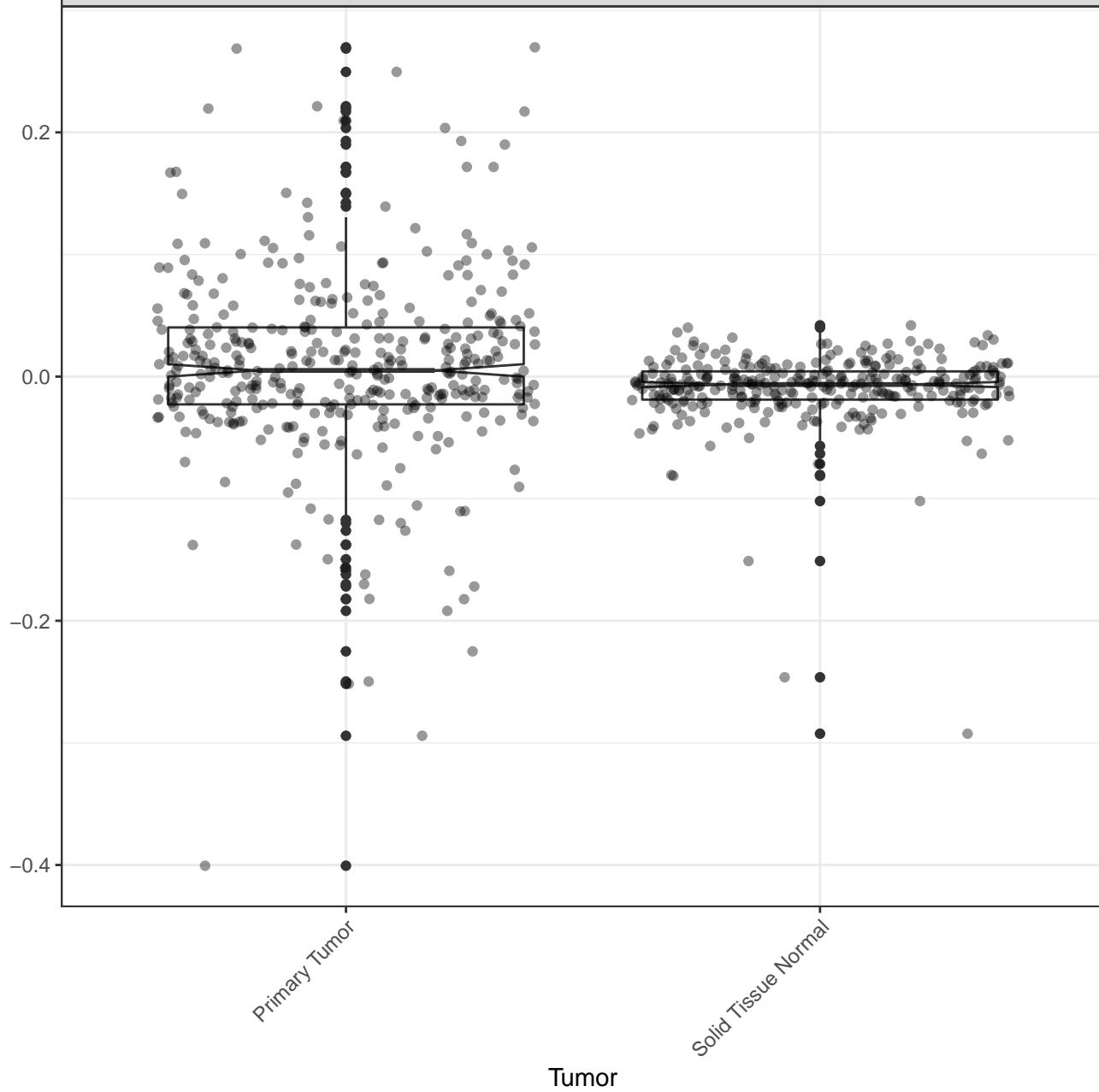
-0.2

-0.4

Primary Tumor

Tumor

Solid Tissue Normal



### 73,REACTOME\_GENERIC\_TRANSSCRIPTION\_PATHWAY

Value

0.15

0.10

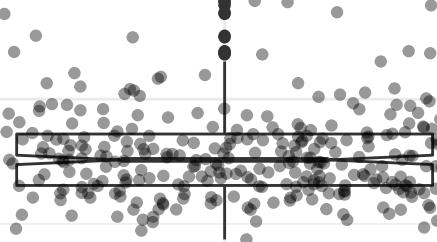
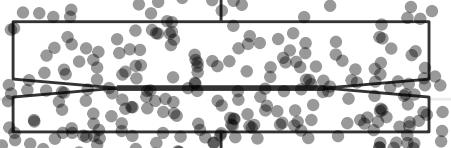
0.05

0.00

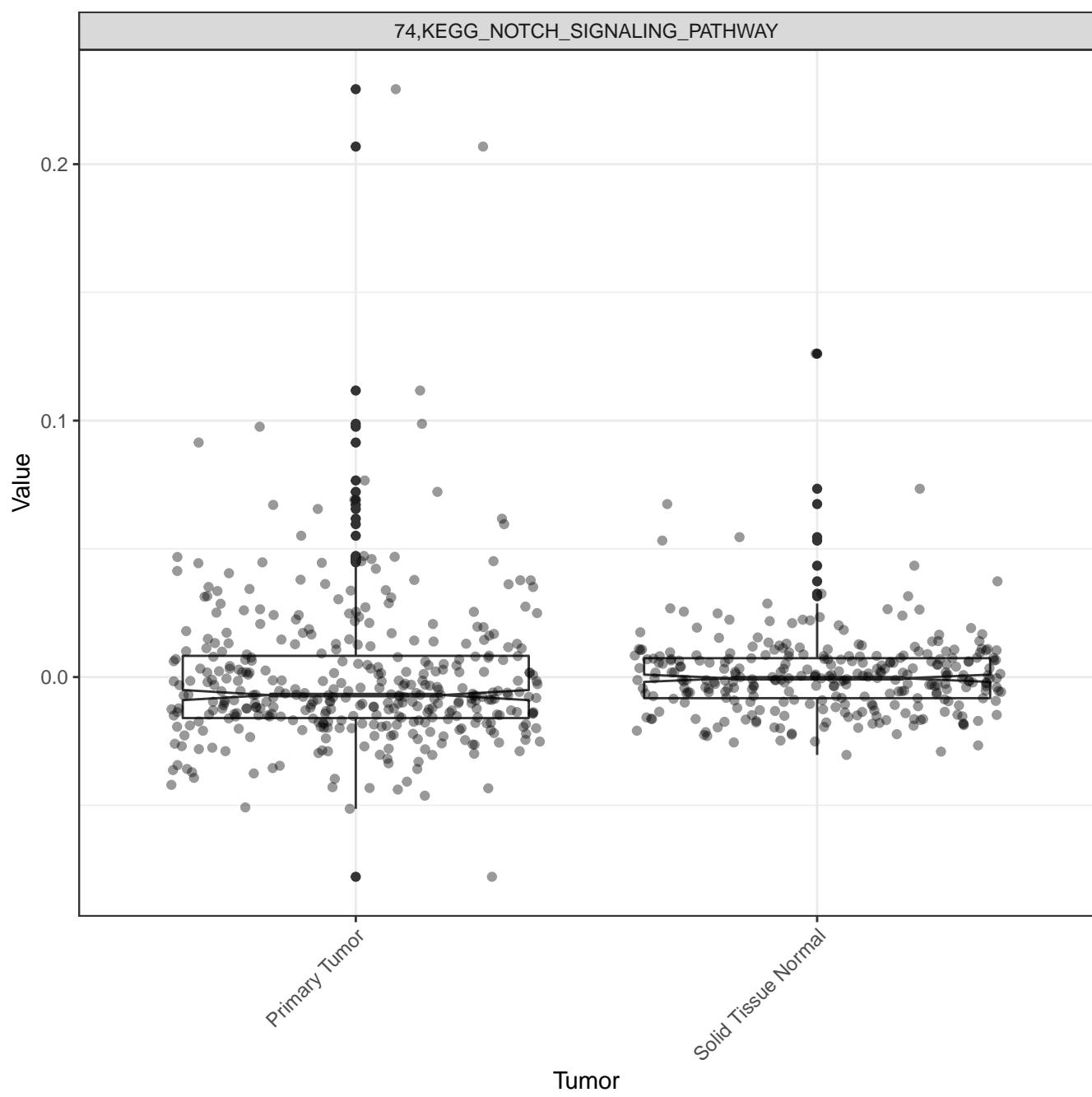
Primary Tumor

Solid Tissue Normal

Tumor



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



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

Value

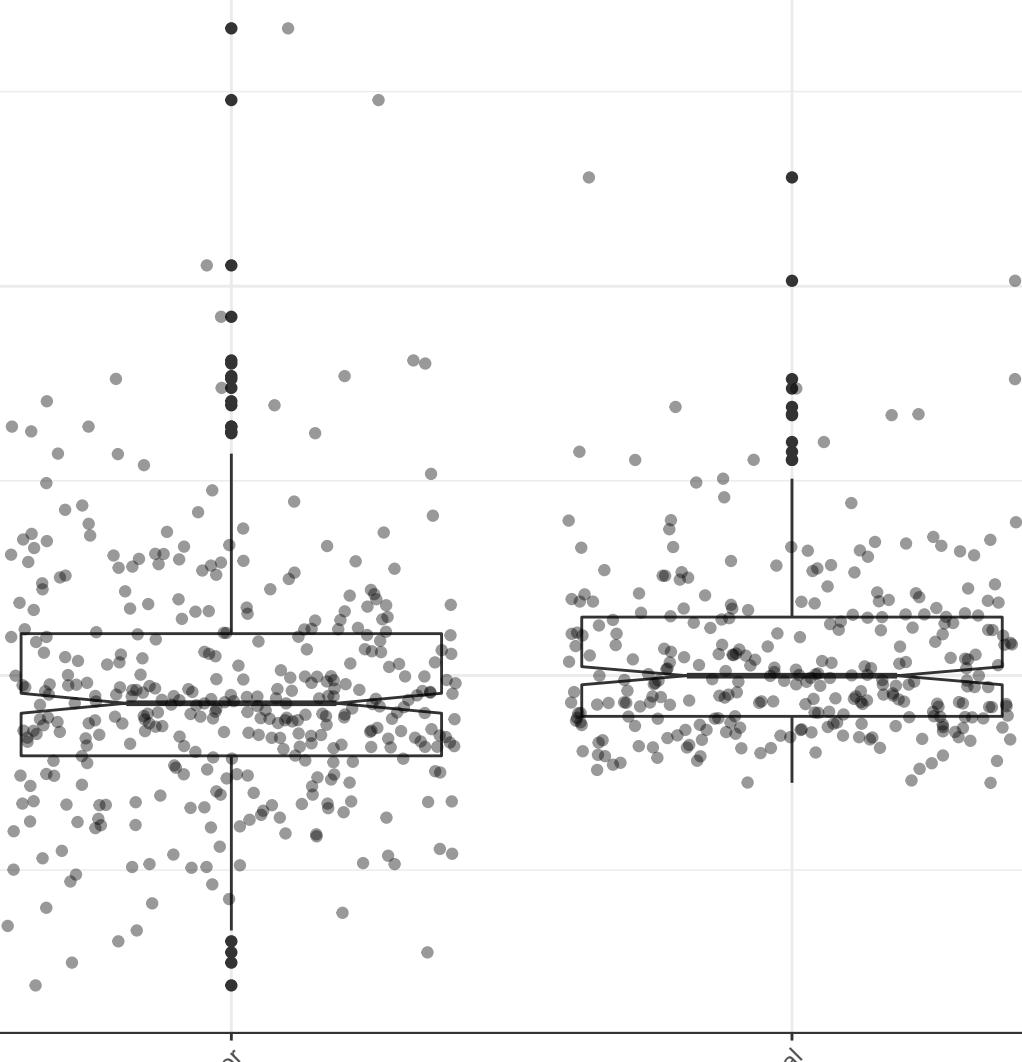
0.1

0.0

Primary Tumor

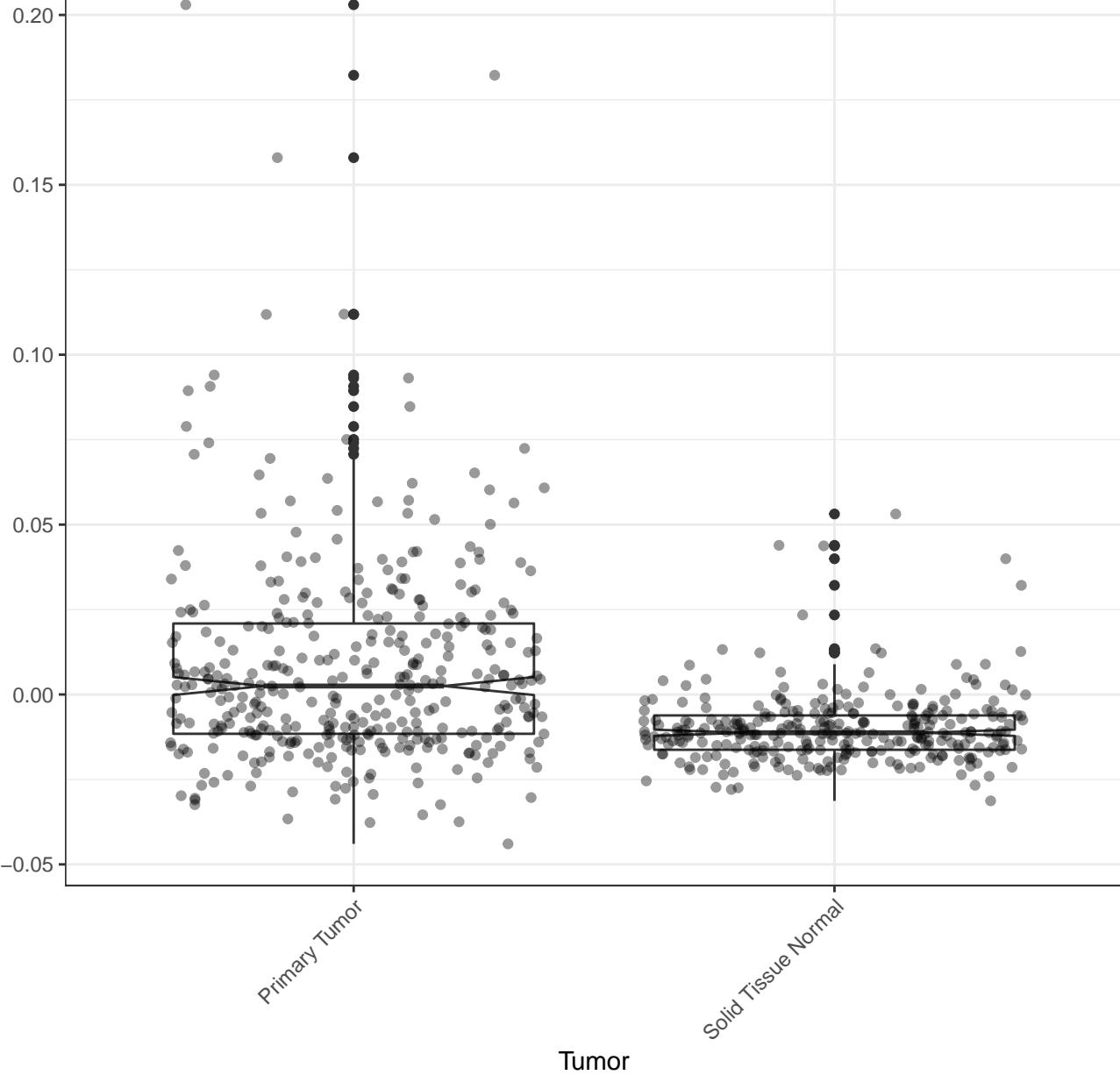
Solid Tissue Normal

Tumor

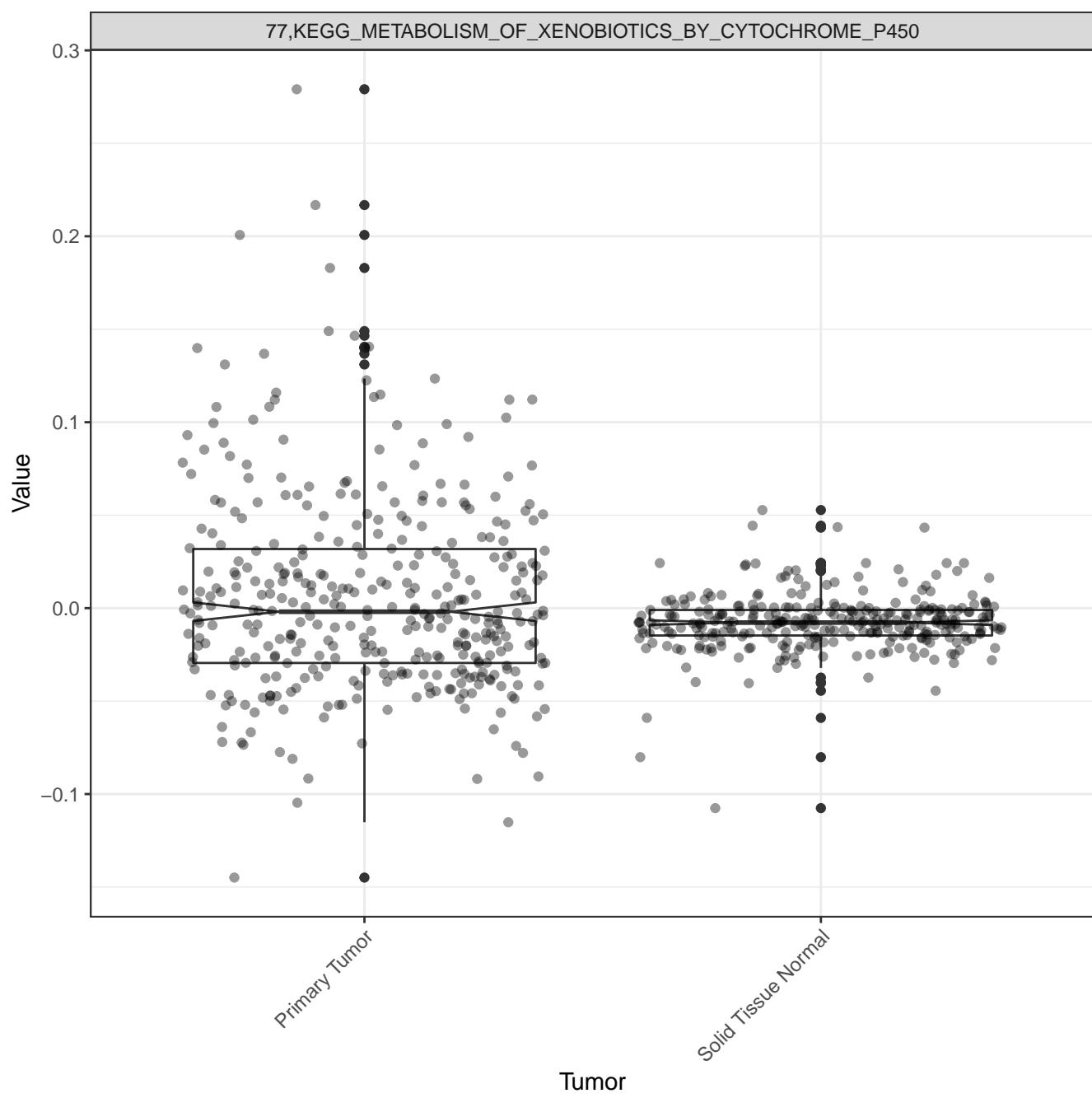


## 76,KEGG\_CELL\_CYCLE

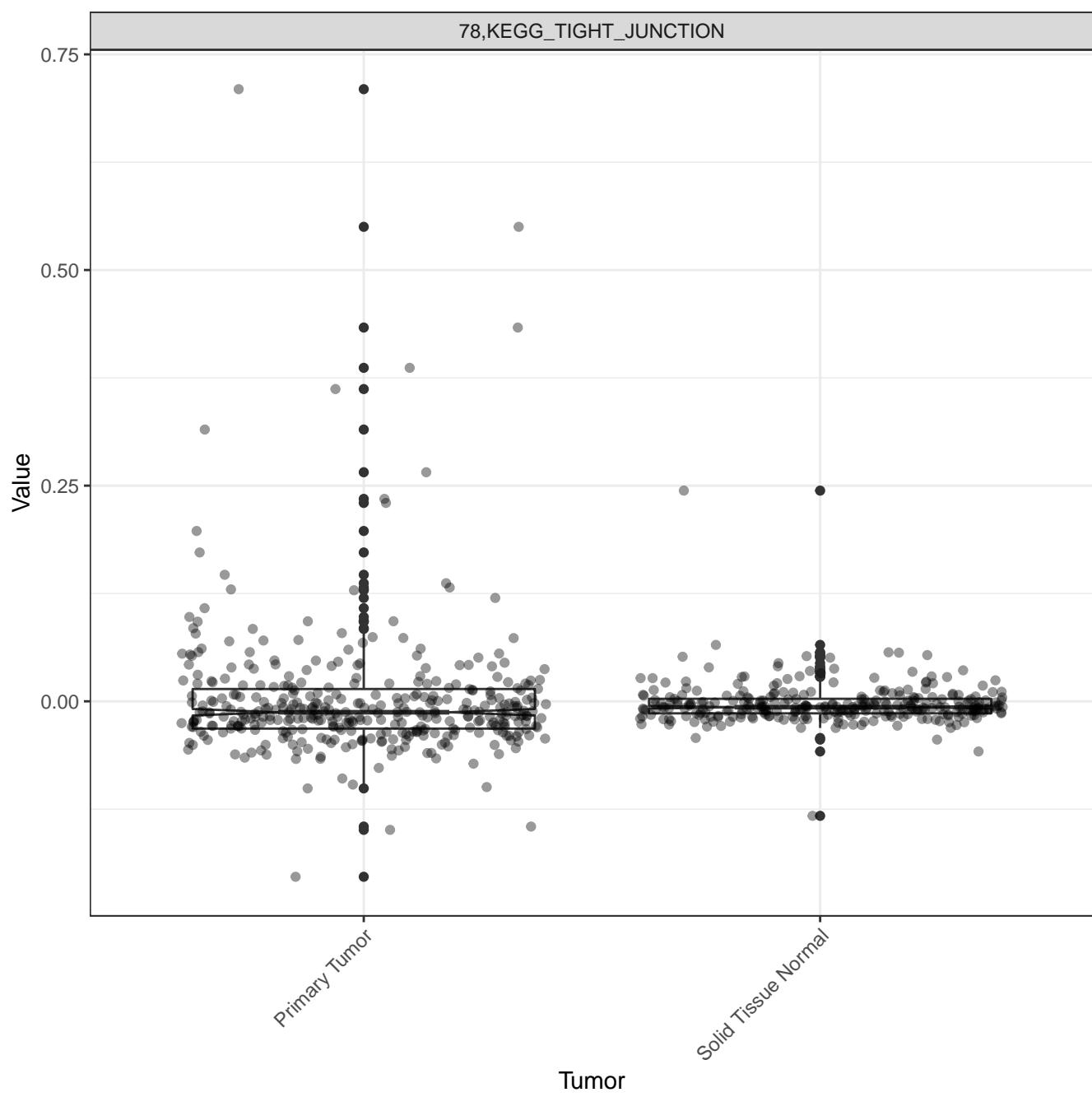
Value



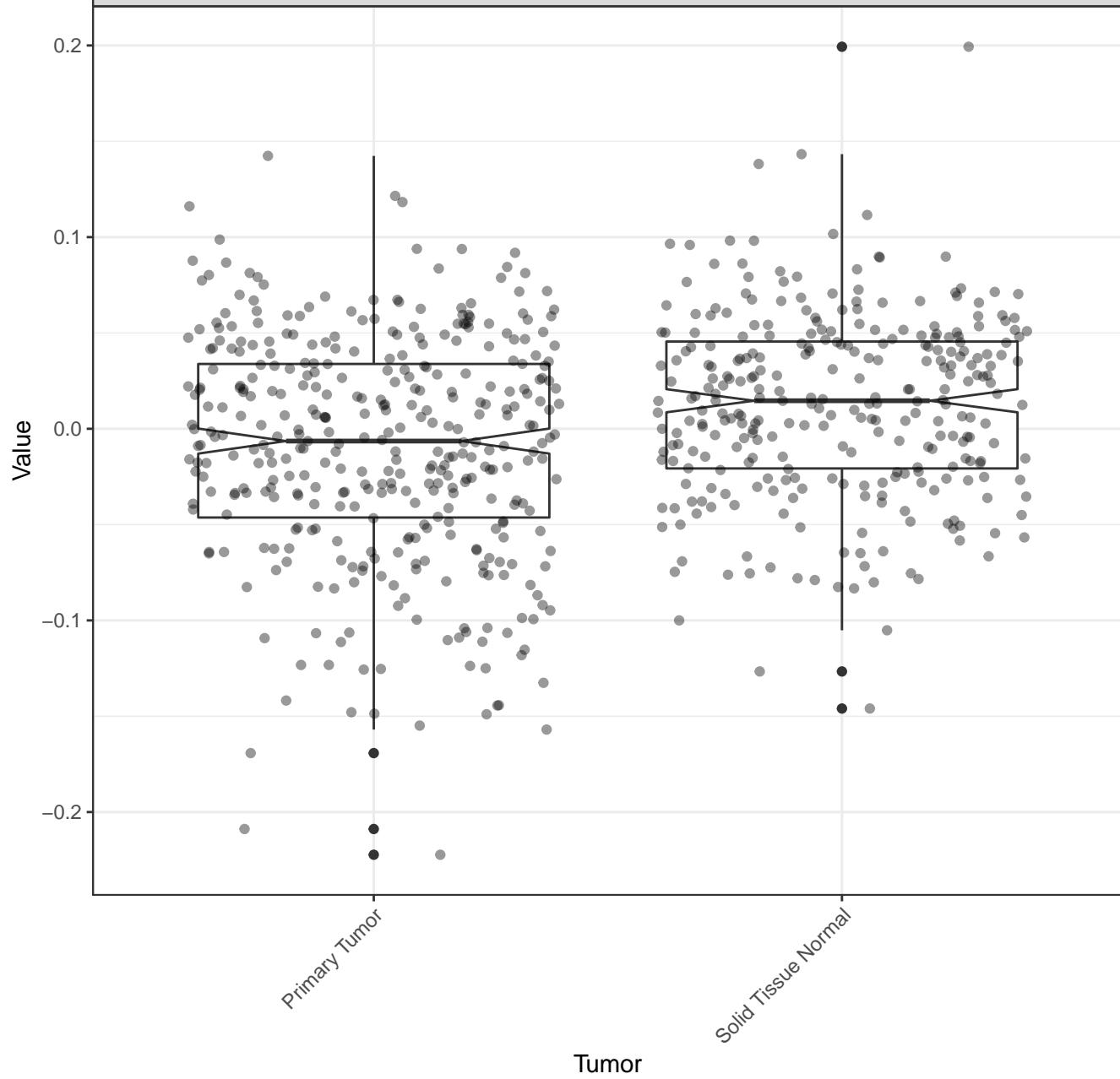
### 77,KEGG\_METABOLISM\_OF\_XENOBIOTICS\_BY\_CYTOCHROME\_P450



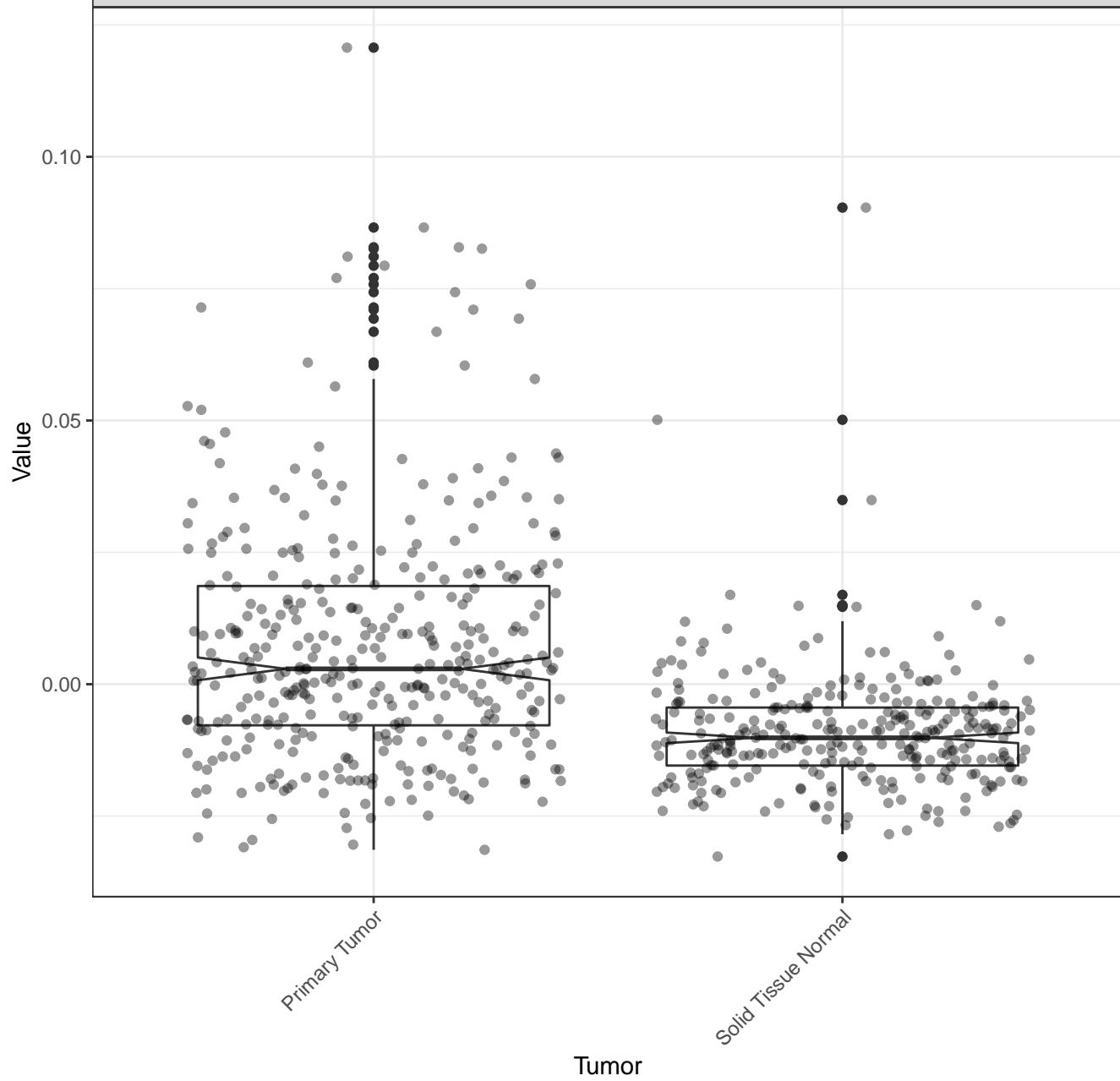
## 78,KEGG\_TIGHT\_JUNCTION



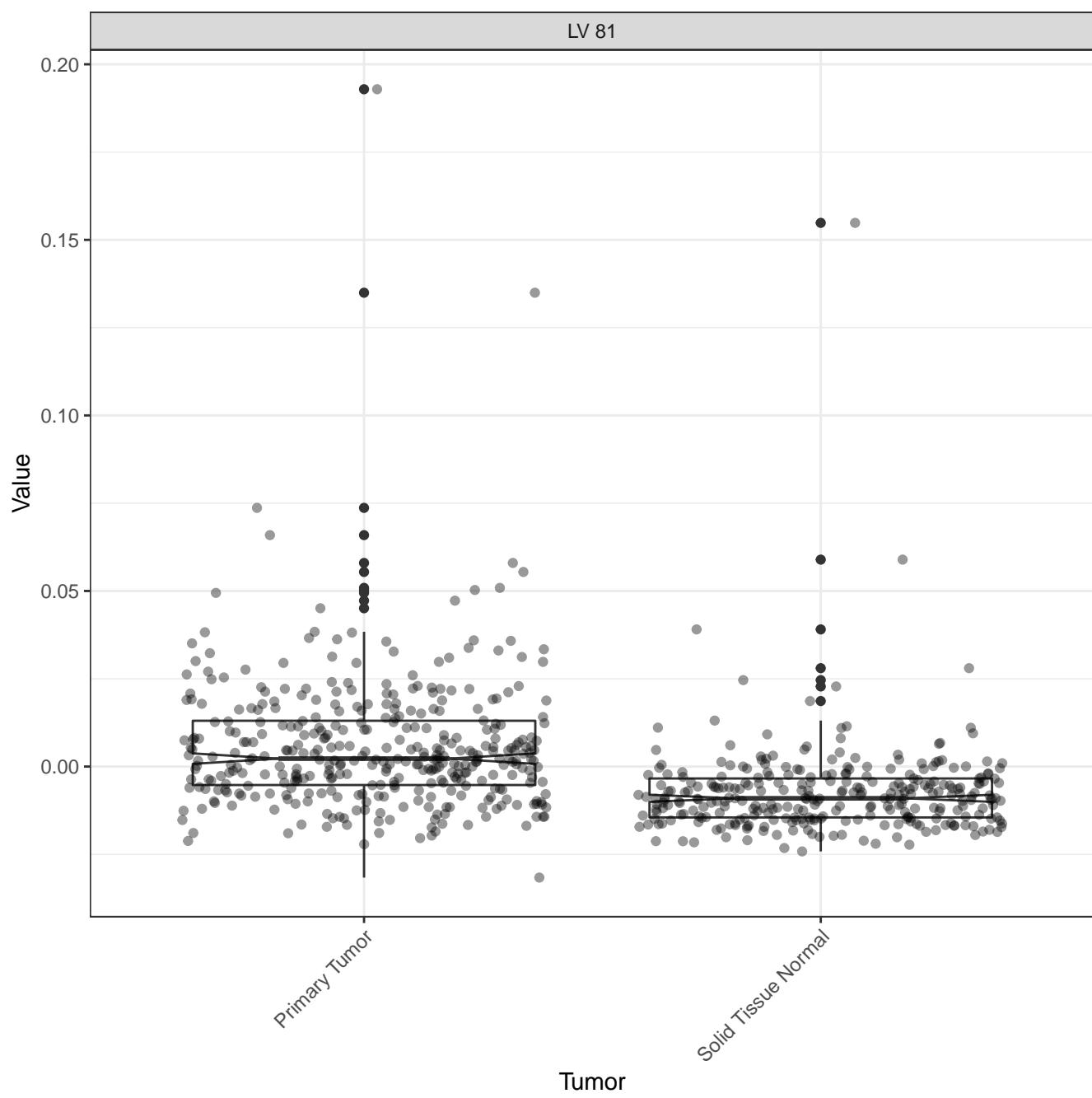
### 79,KEGG\_METABOLISM\_OF\_XENOBIOTICS\_BY\_CYTOCHROME\_P450



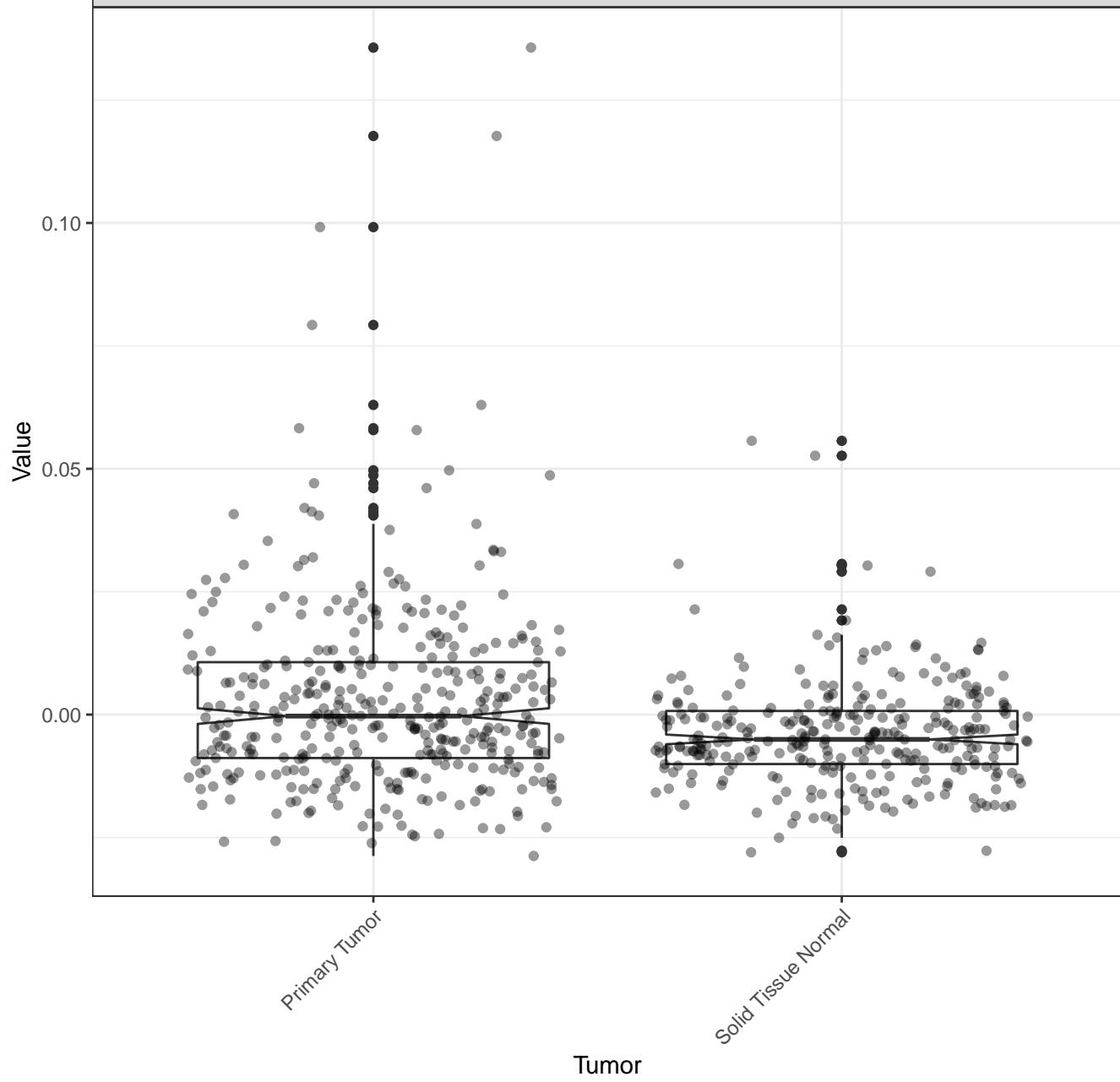
# 80,REACTOME\_MEMBRANE\_TRAFFICKING



LV 81



## 82,REACTOME\_METABOLISM\_OF\_RNA



### 83,SVM Monocytes

Value

0.3

0.2

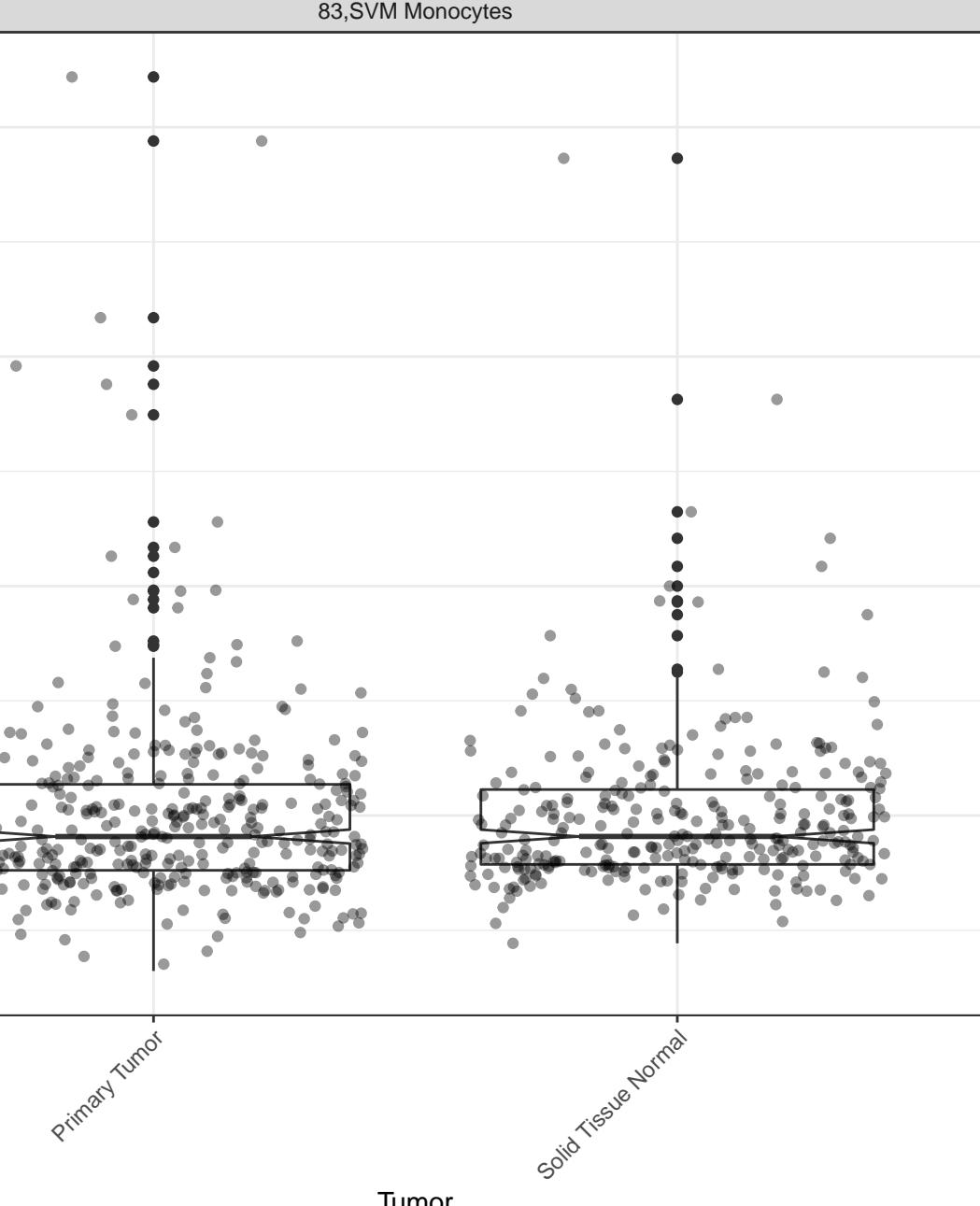
0.1

0.0

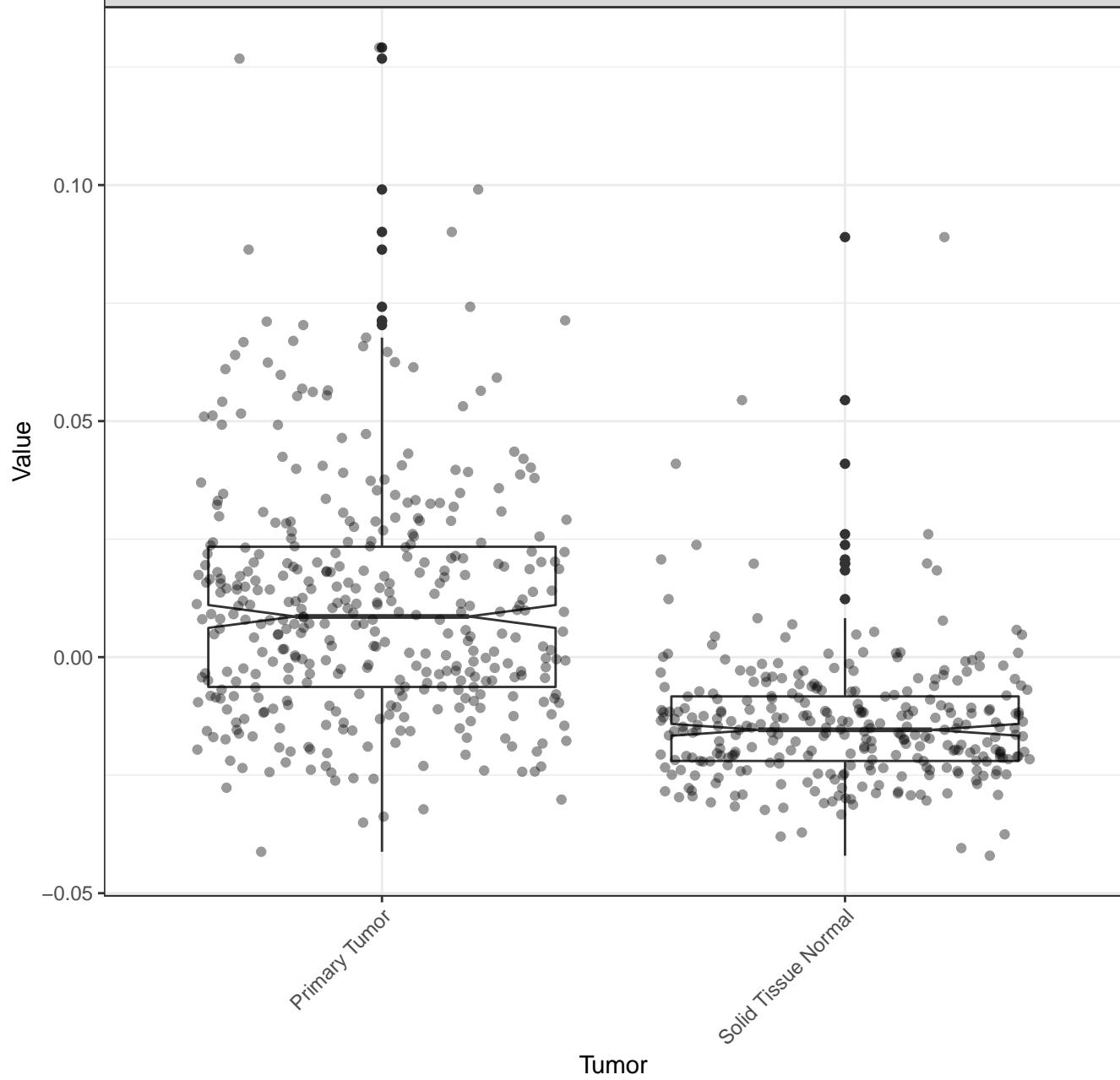
Primary Tumor

Solid Tissue Normal

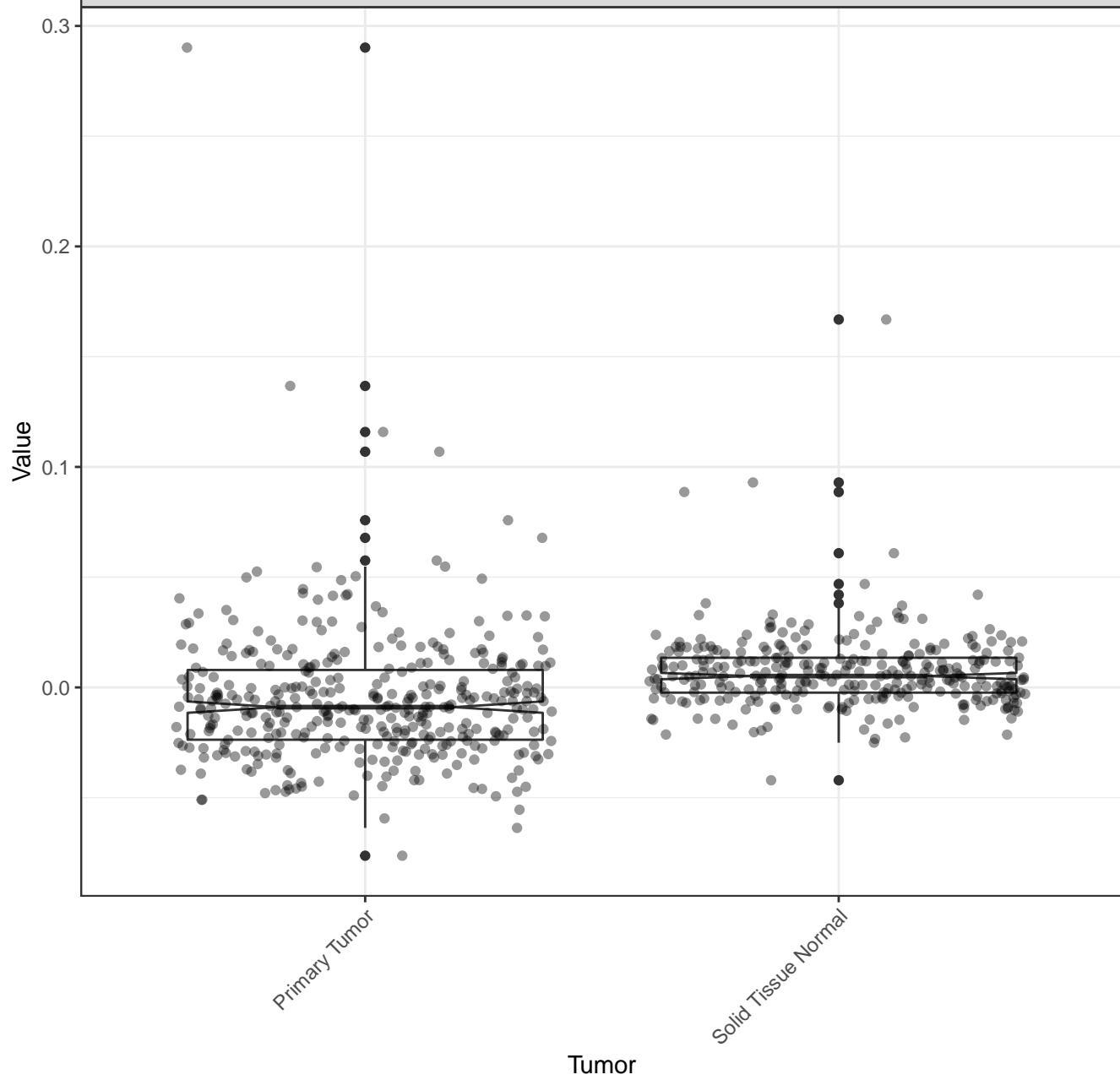
Tumor



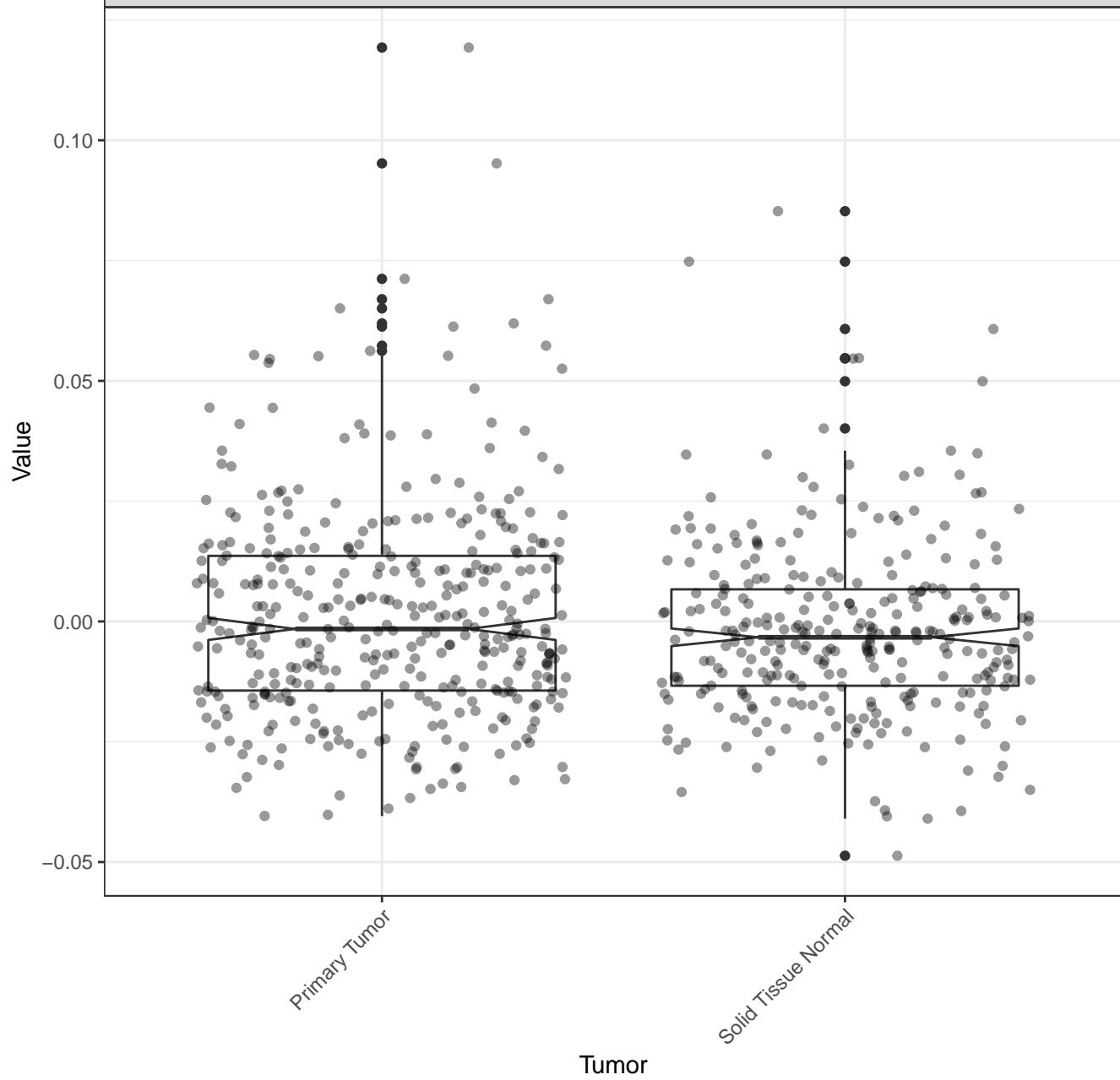
### 84,REACTOME\_RNA\_POL\_III\_TRANSCRIPTION



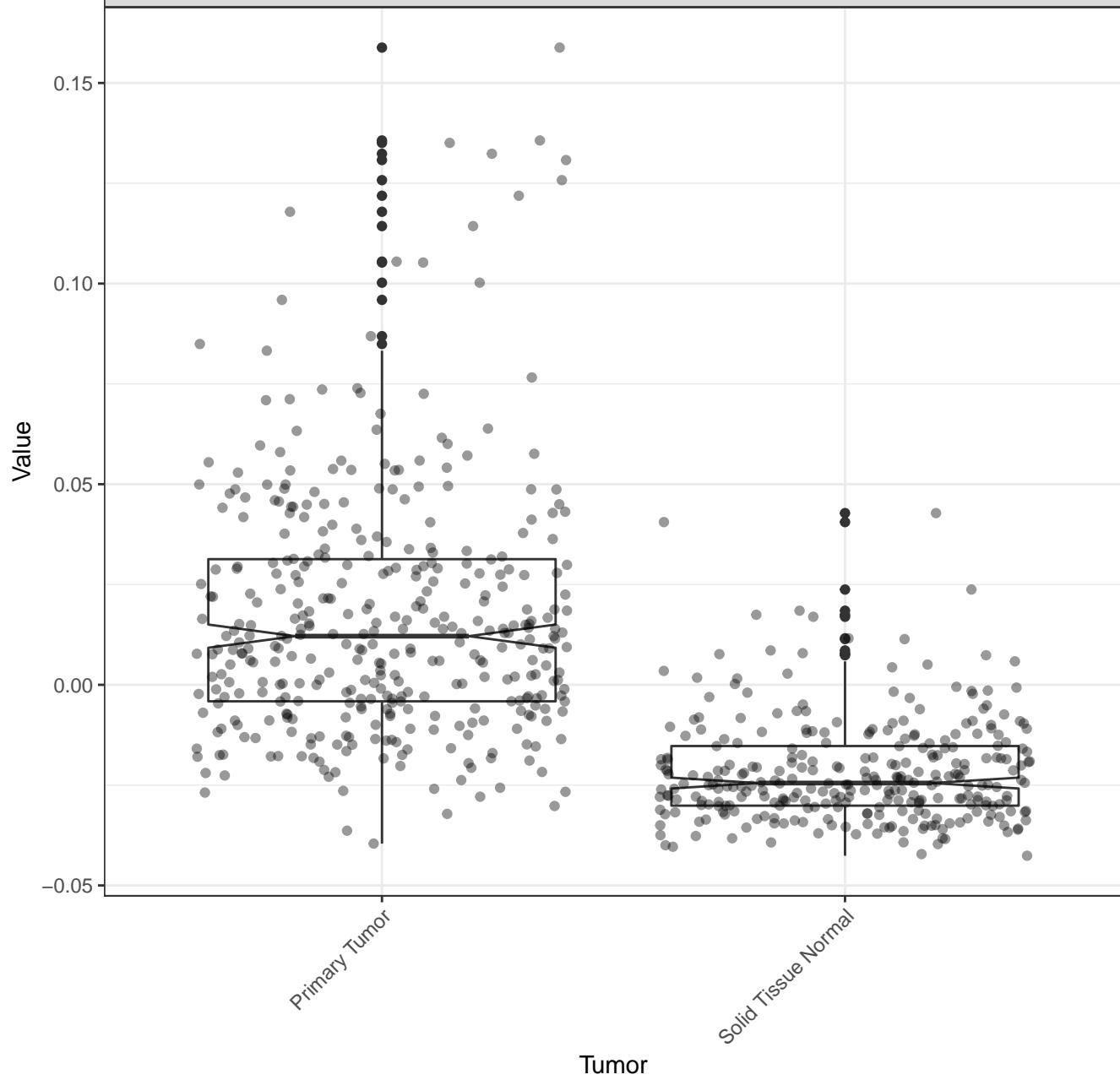
### 85,REACTOME\_CLASS\_A1\_RHODOPSIN\_LIKE\_RECEPTEORS



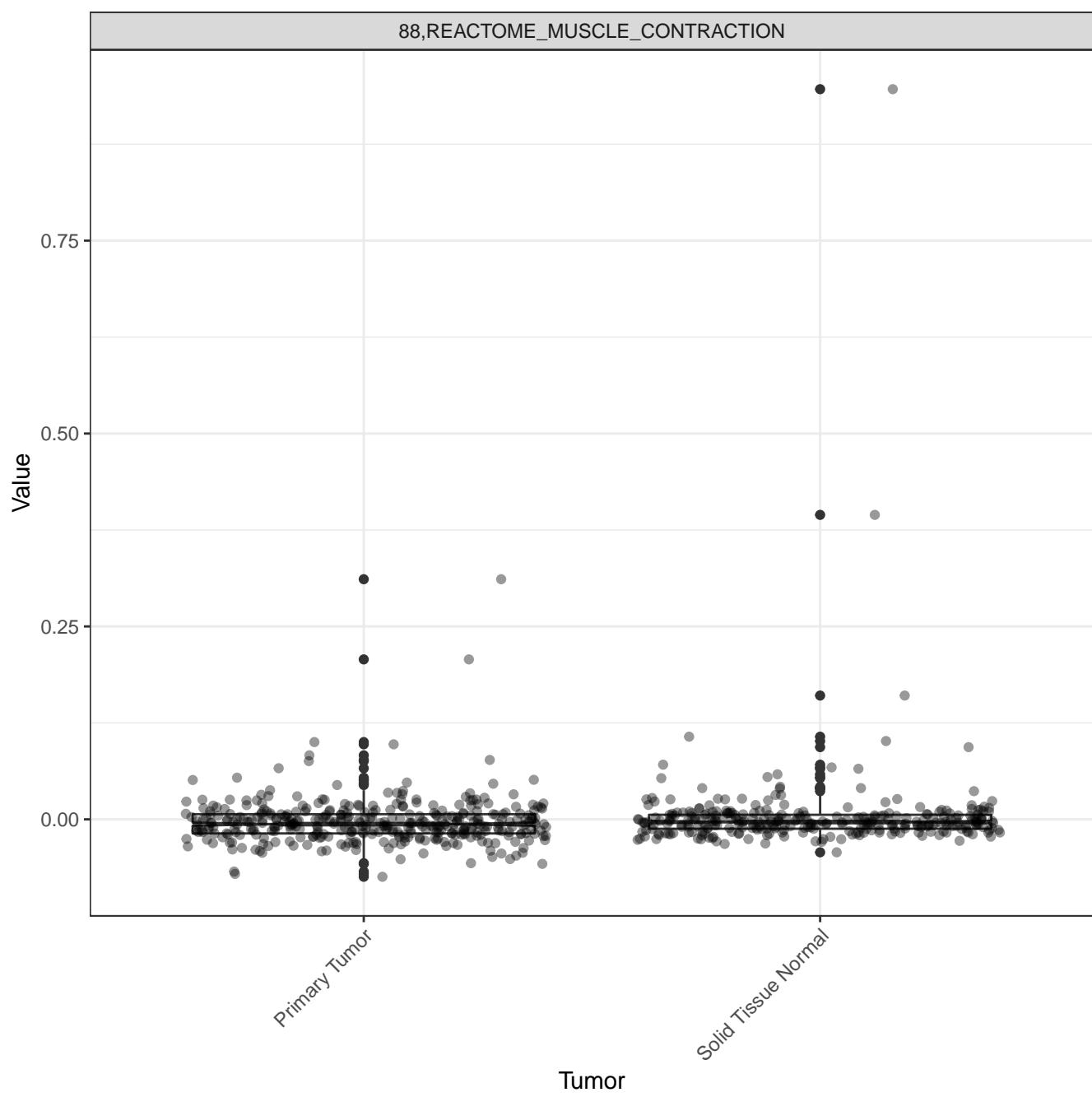
### 86,REACTOME\_RNA\_POL\_II\_PRE\_TRANSCRIPTION\_EVENTS



# 87,REACTOME\_L1CAM\_INTERACTIONS



## 88,REACTOME\_MUSCLE\_CONTRACTION



LV 89

Value

0.15

0.10

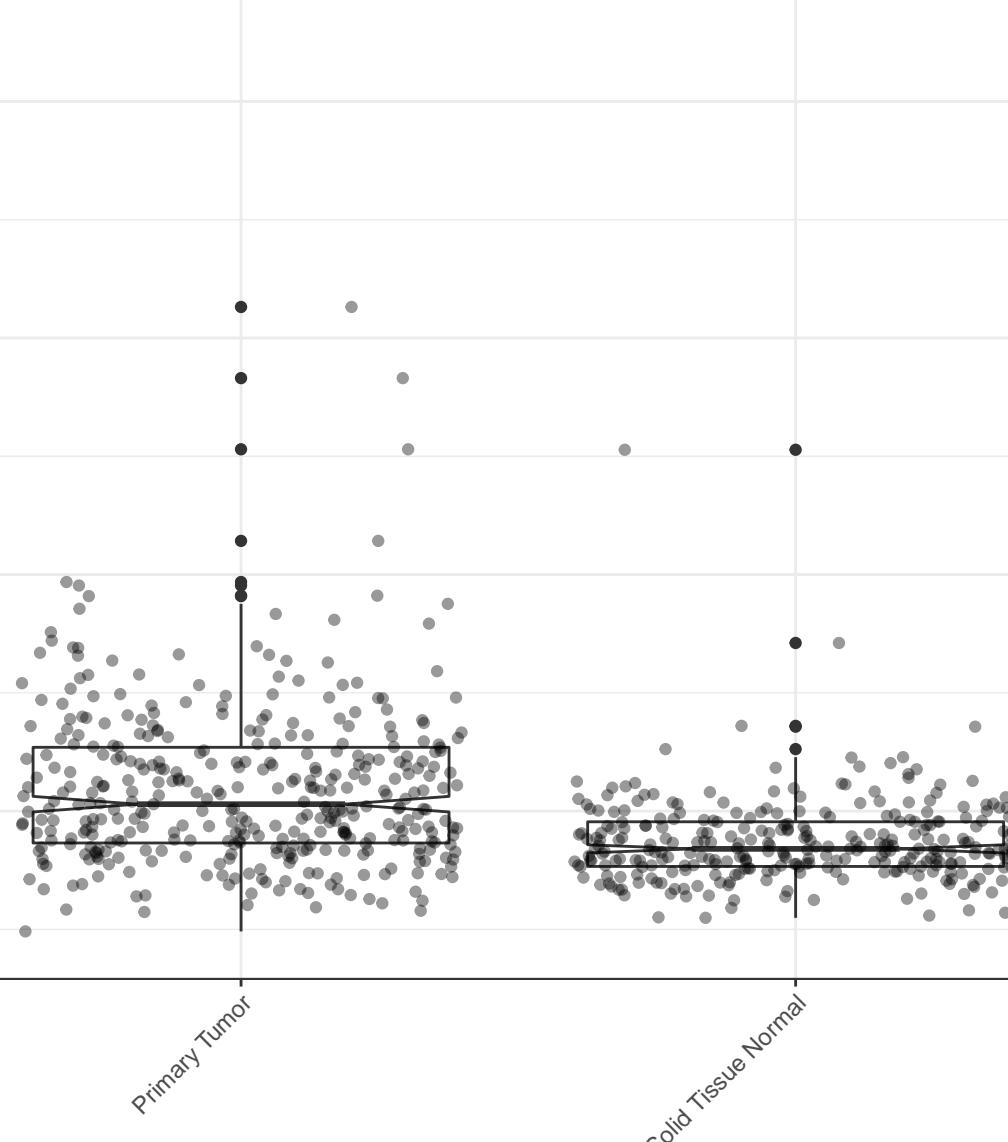
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



LV 90

Value

0.15

0.10

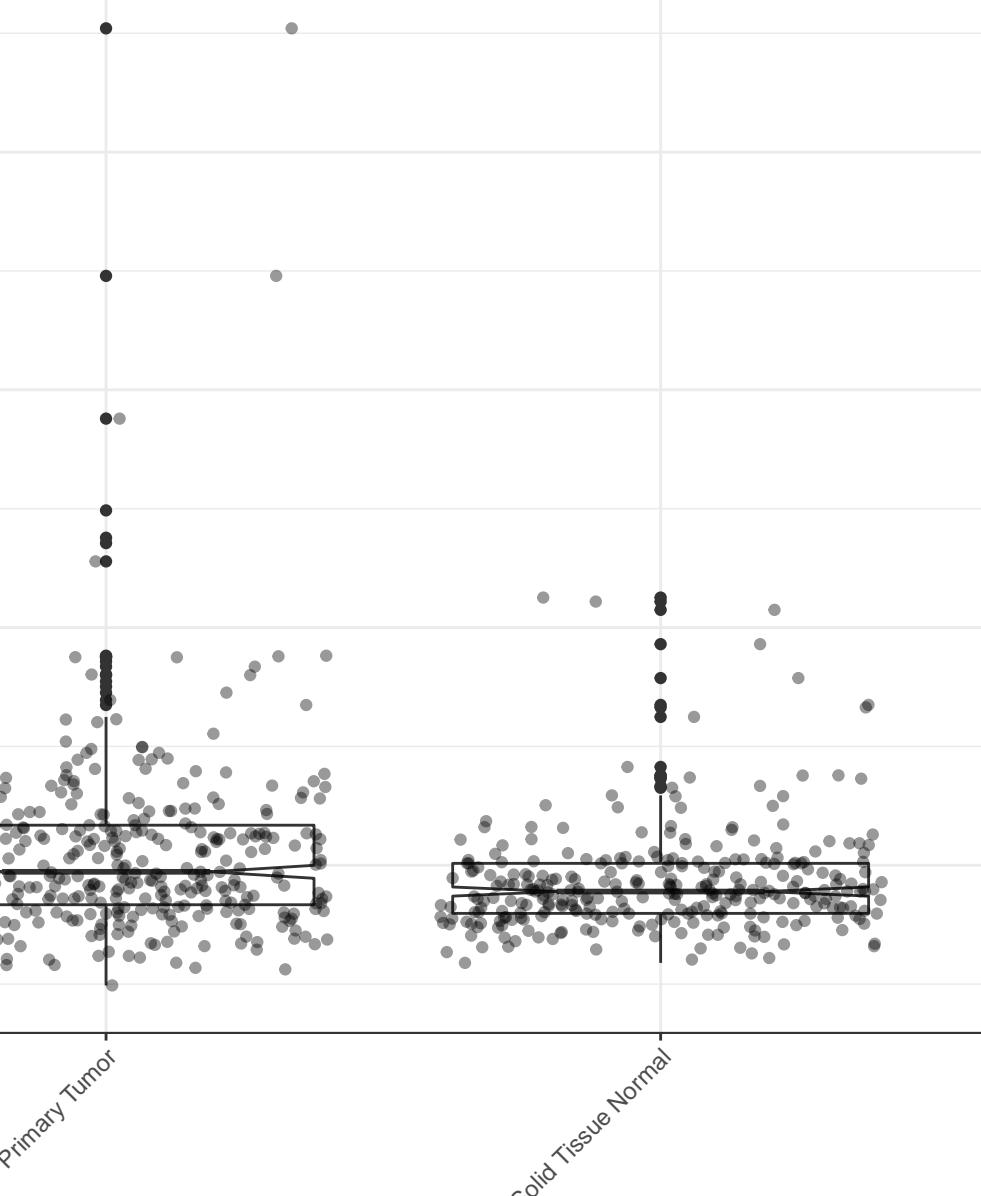
0.05

0.00

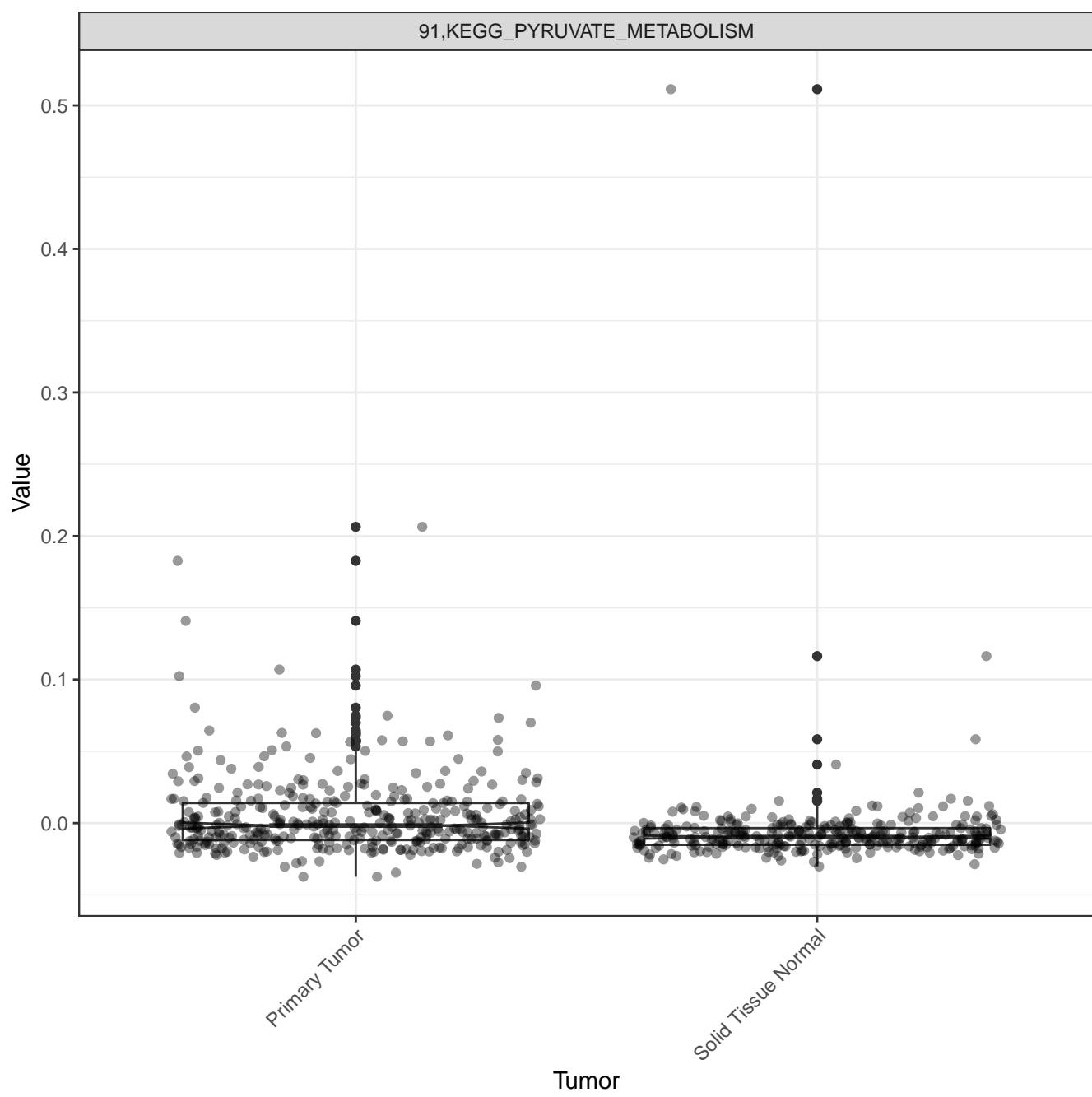
Primary Tumor

Solid Tissue Normal

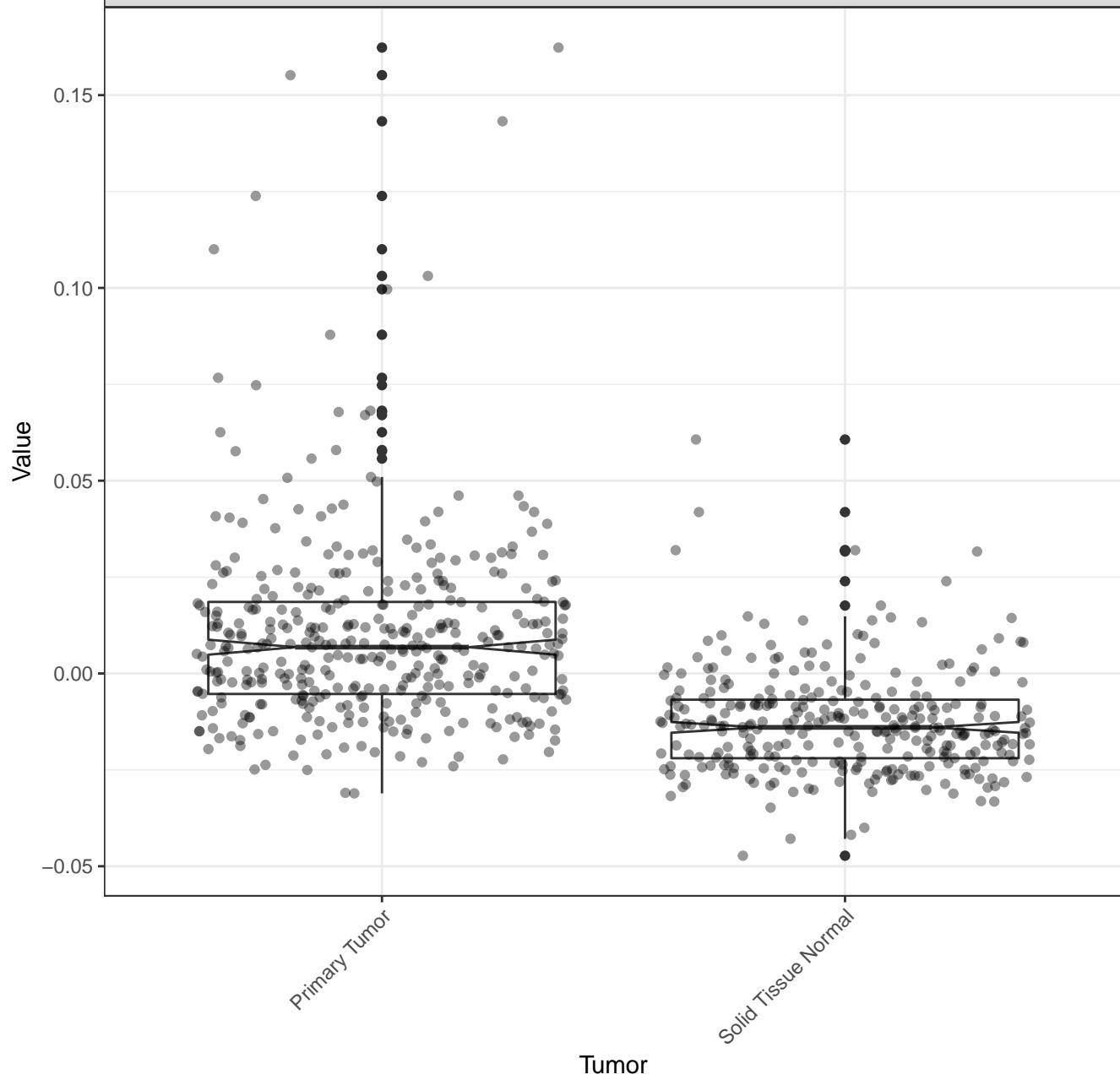
Tumor



# 91,KEGG\_PYRUVATE\_METABOLISM



## 92,REACTOME\_METABOLISM\_OF\_PROTEINS

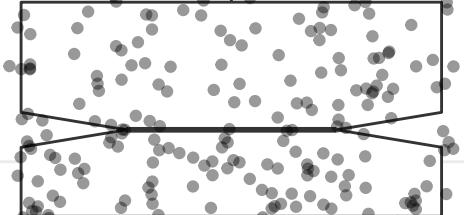


93,REACTOME\_SRP\_DEPENDENT\_COTRANSLATIONAL\_PROTEIN\_TARGETING\_TO\_MEMBRANE

Value

0.1

0.0

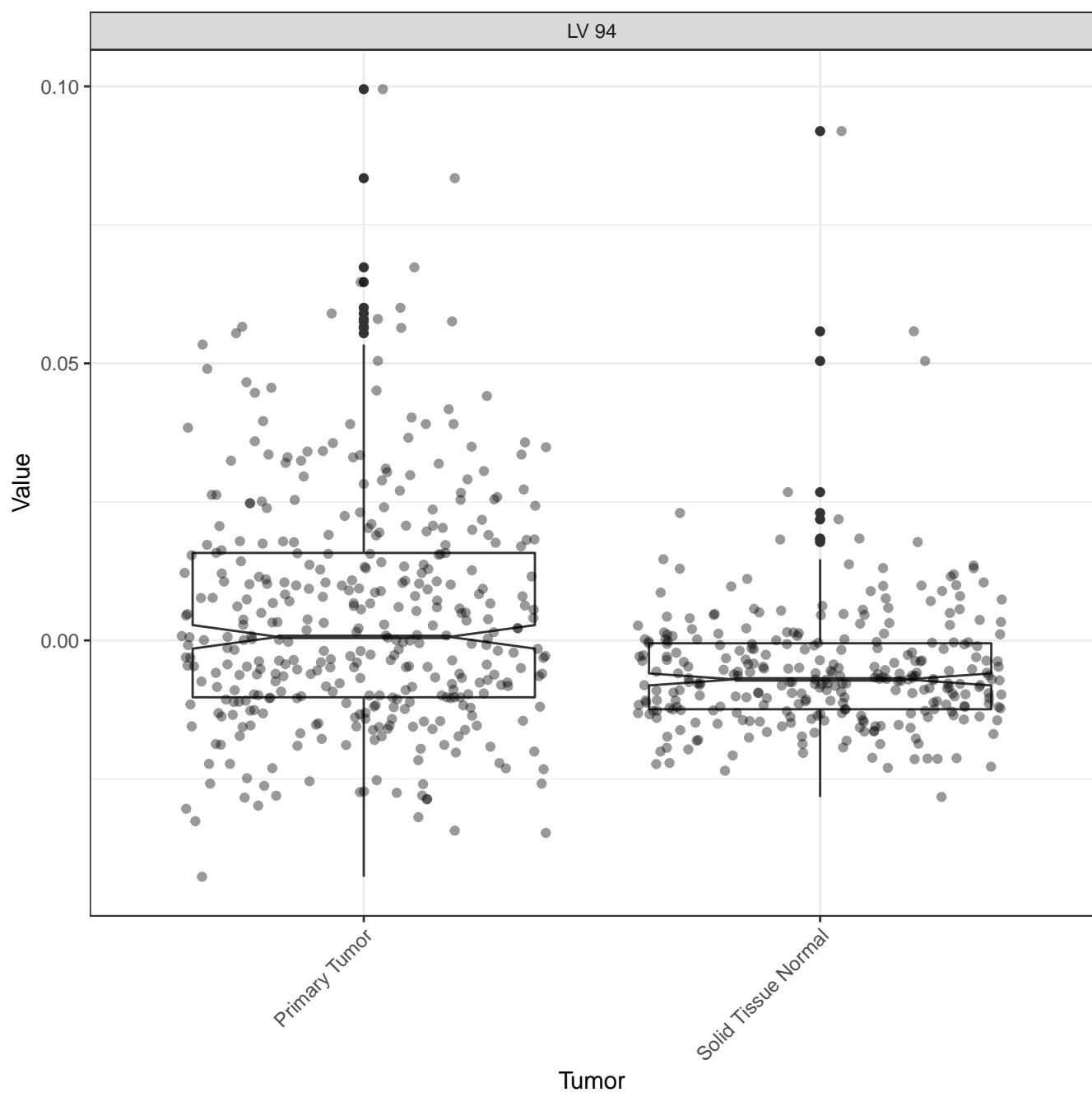


Primary Tumor

Tumor

Solid Tissue Normal

LV 94



## 95,PID\_DELTA\_NP63PATHWAY

Value

0.3

0.2

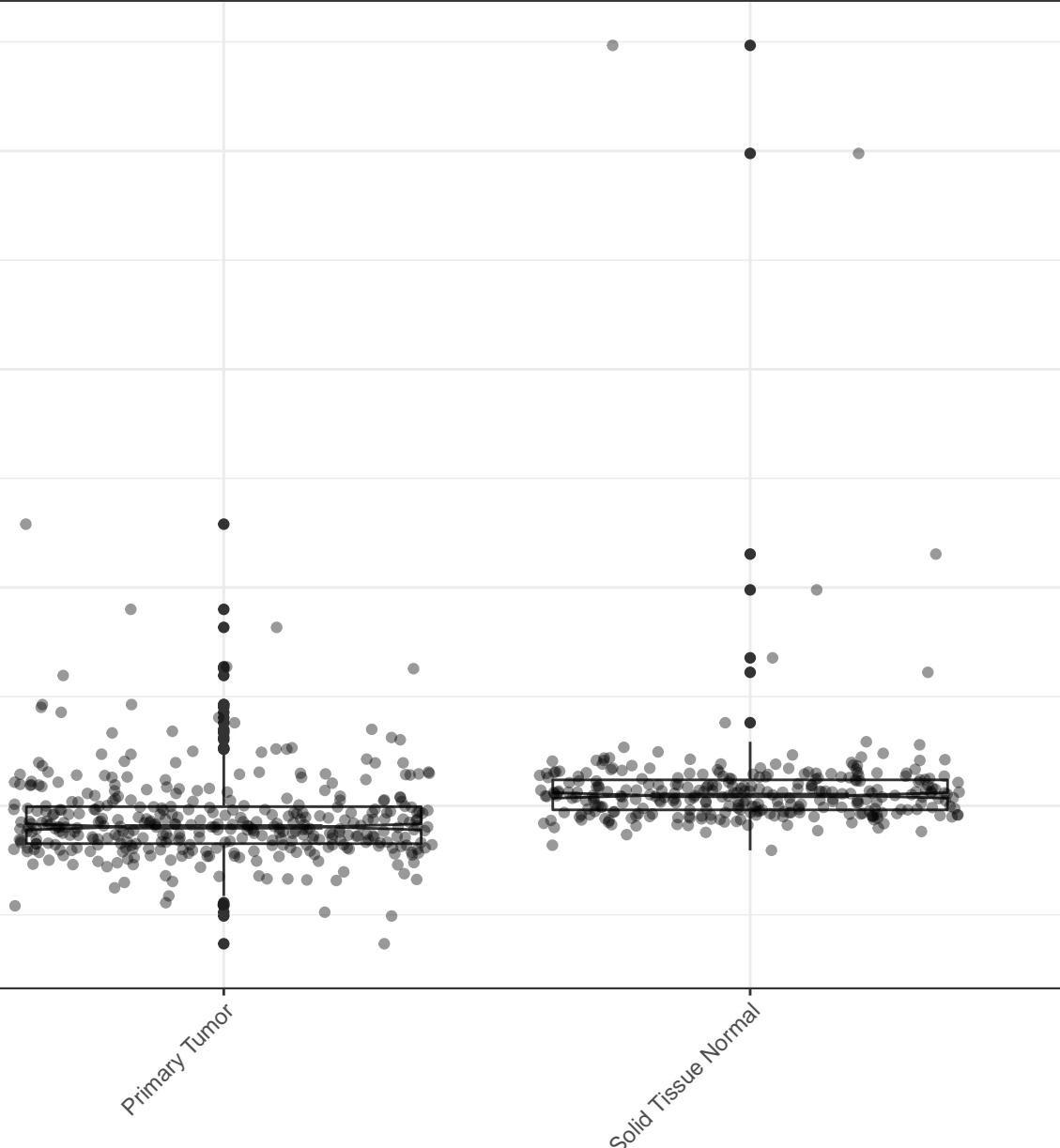
0.1

0.0

Primary Tumor

Solid Tissue Normal

Tumor



96,REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NRAGE\_NRIF\_AND\_NADE

Value

0.10

0.05

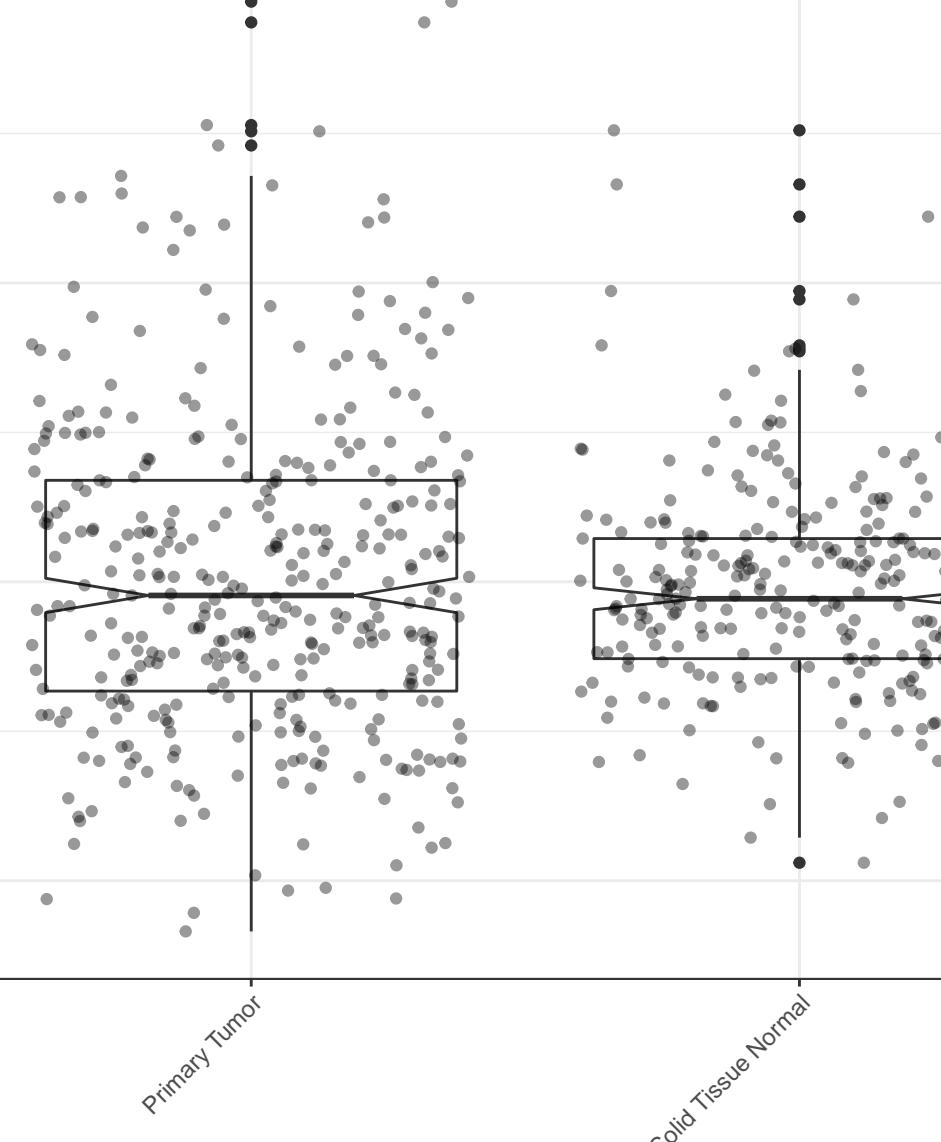
0.00

-0.05

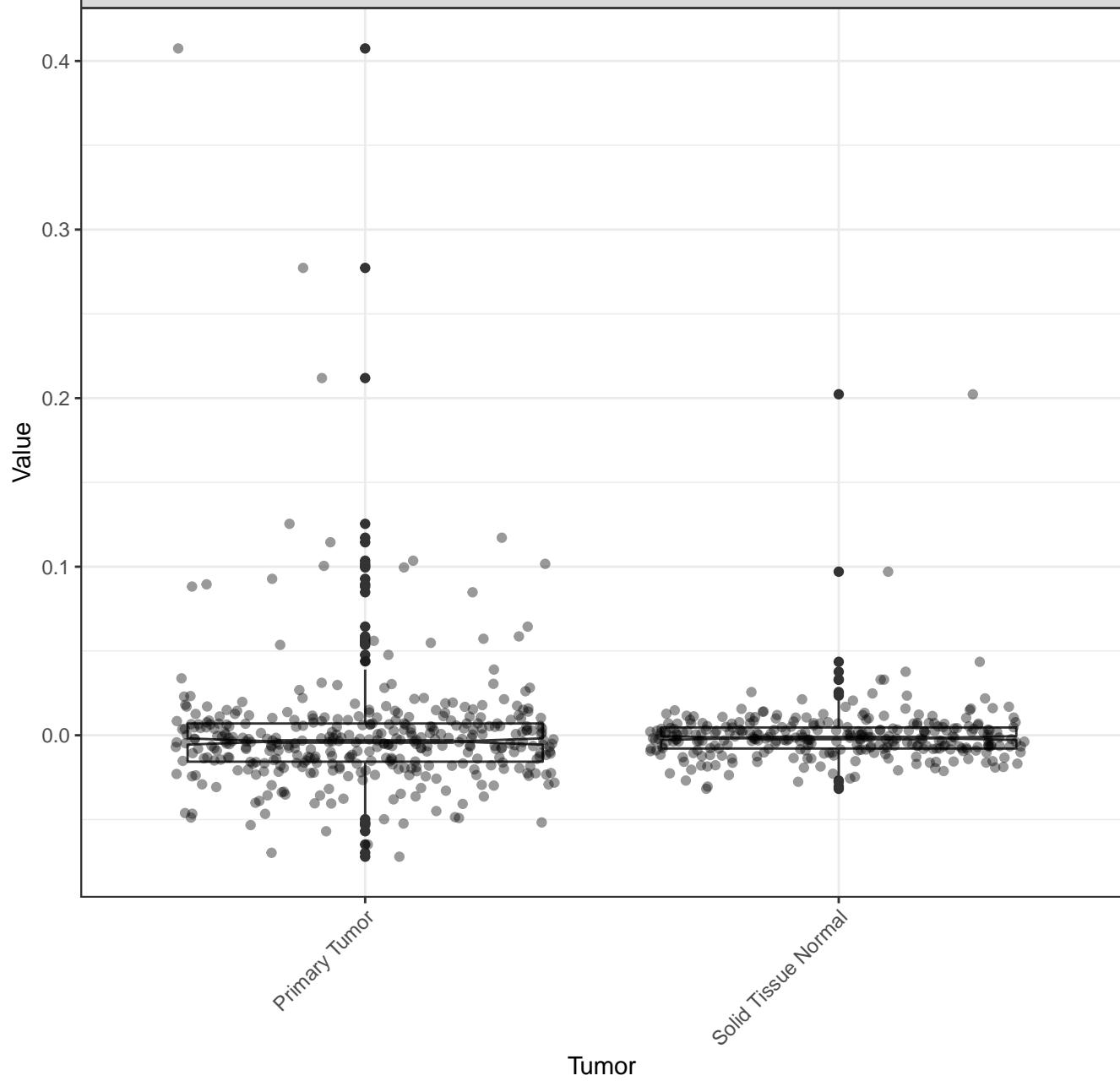
Primary Tumor

Solid Tissue Normal

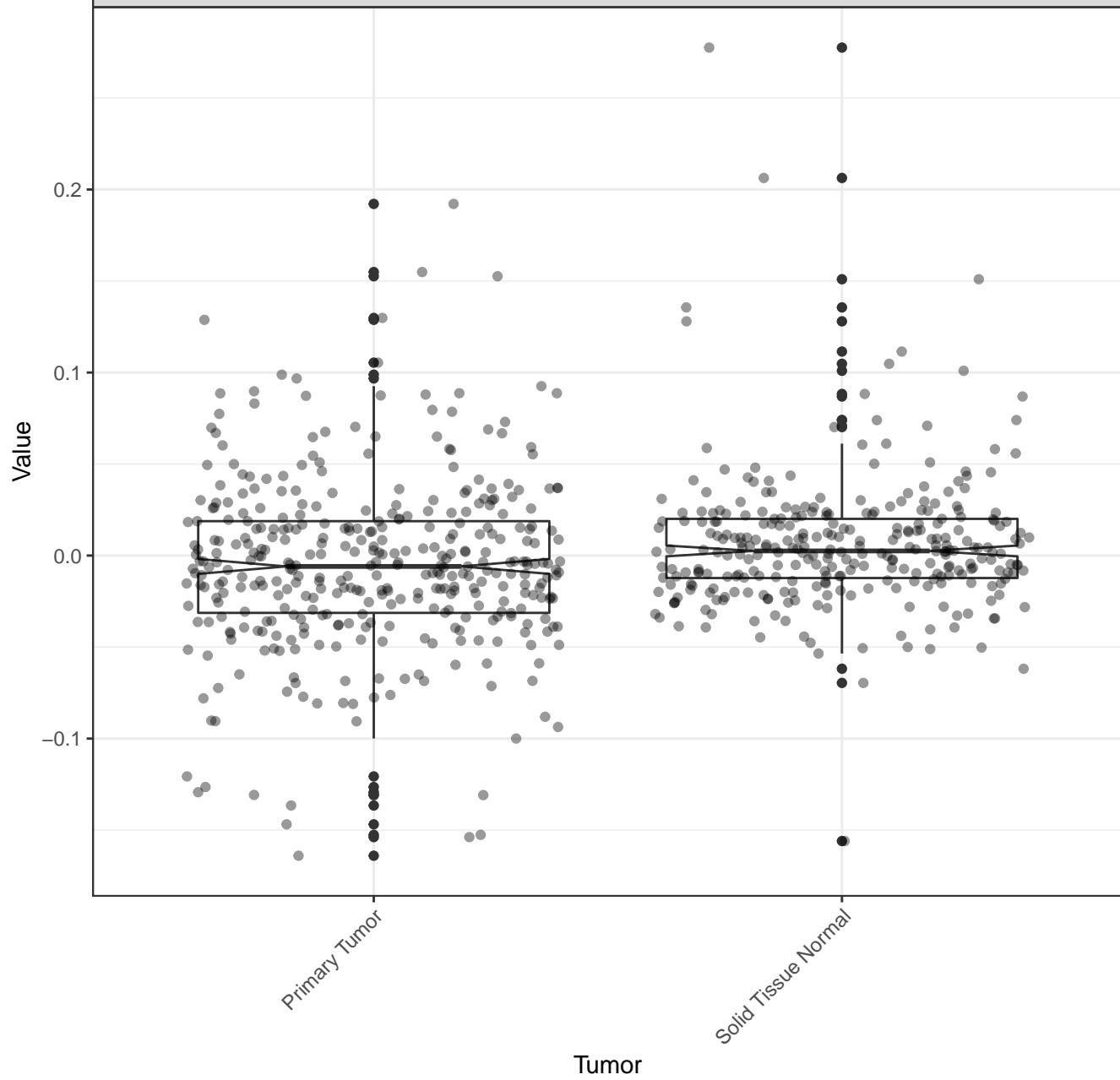
Tumor



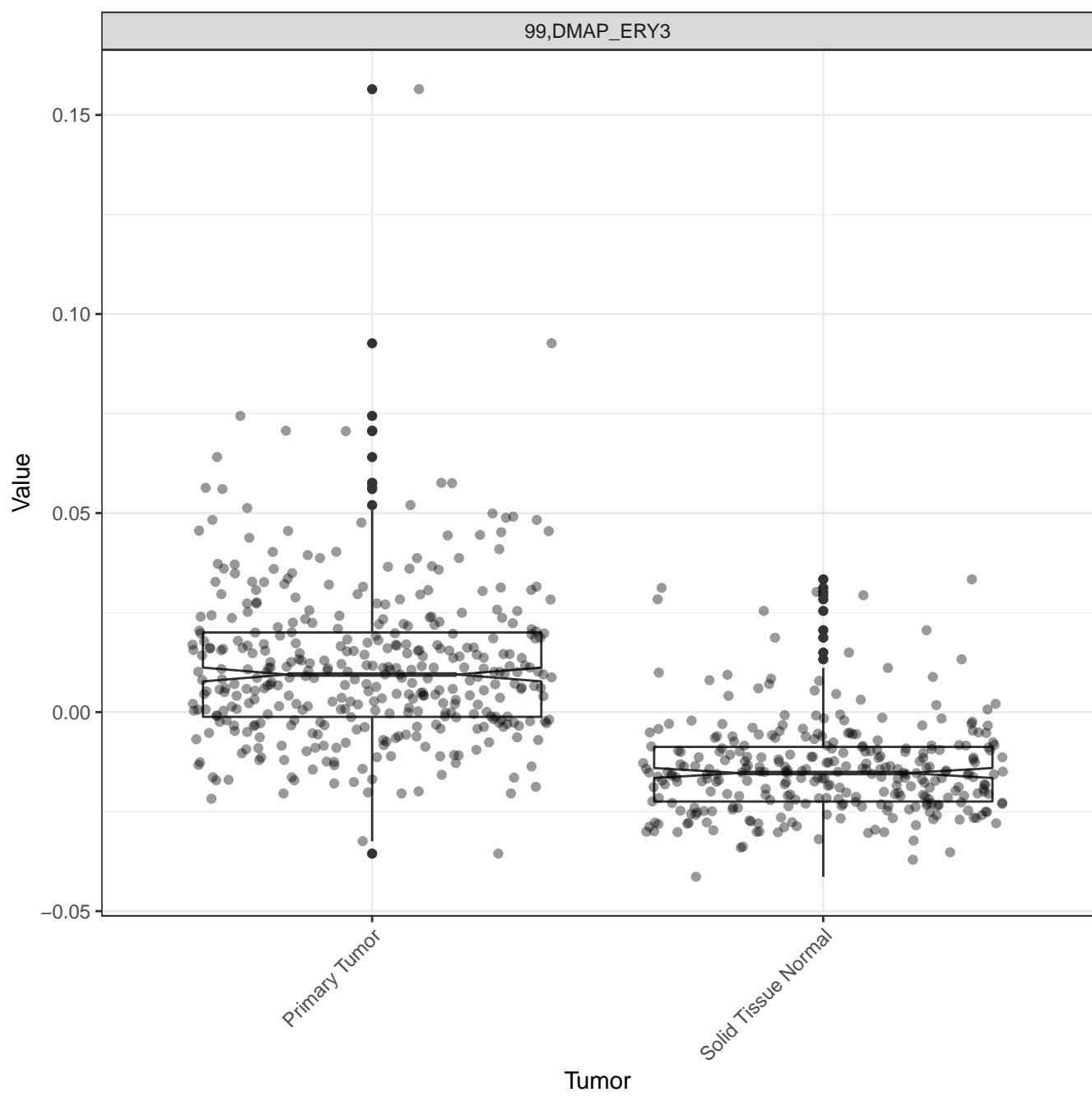
## 97,PID\_DELTA\_NP63\_PATHWAY



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



## 99,DMAP\_ERY3



LV 100

Value

0.10

0.05

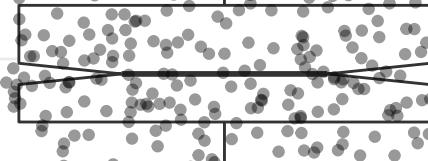
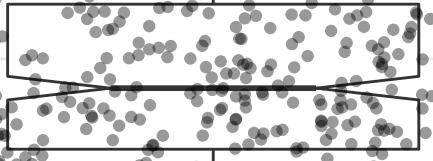
0.00

-0.05

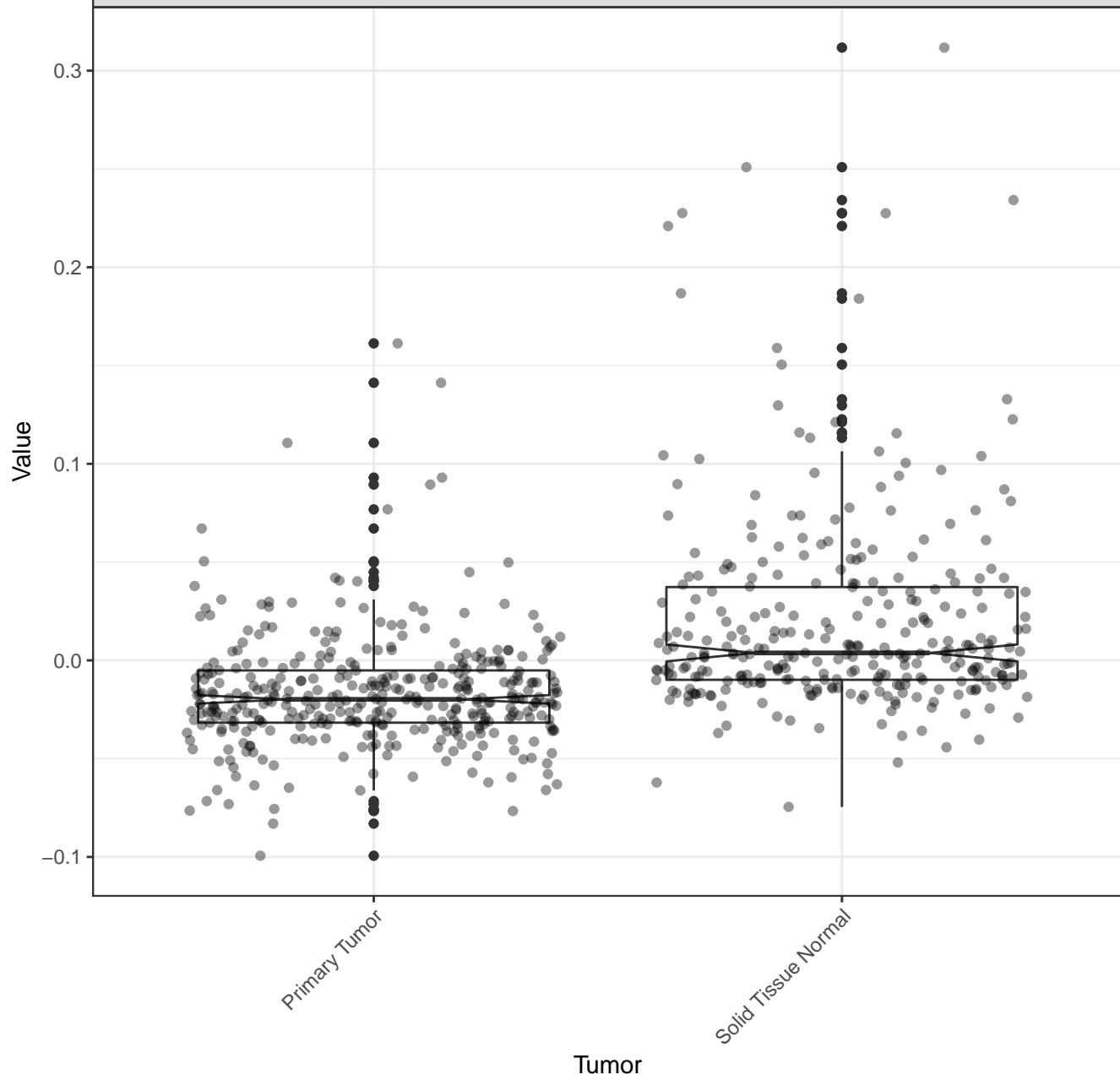
Primary Tumor

Solid Tissue Normal

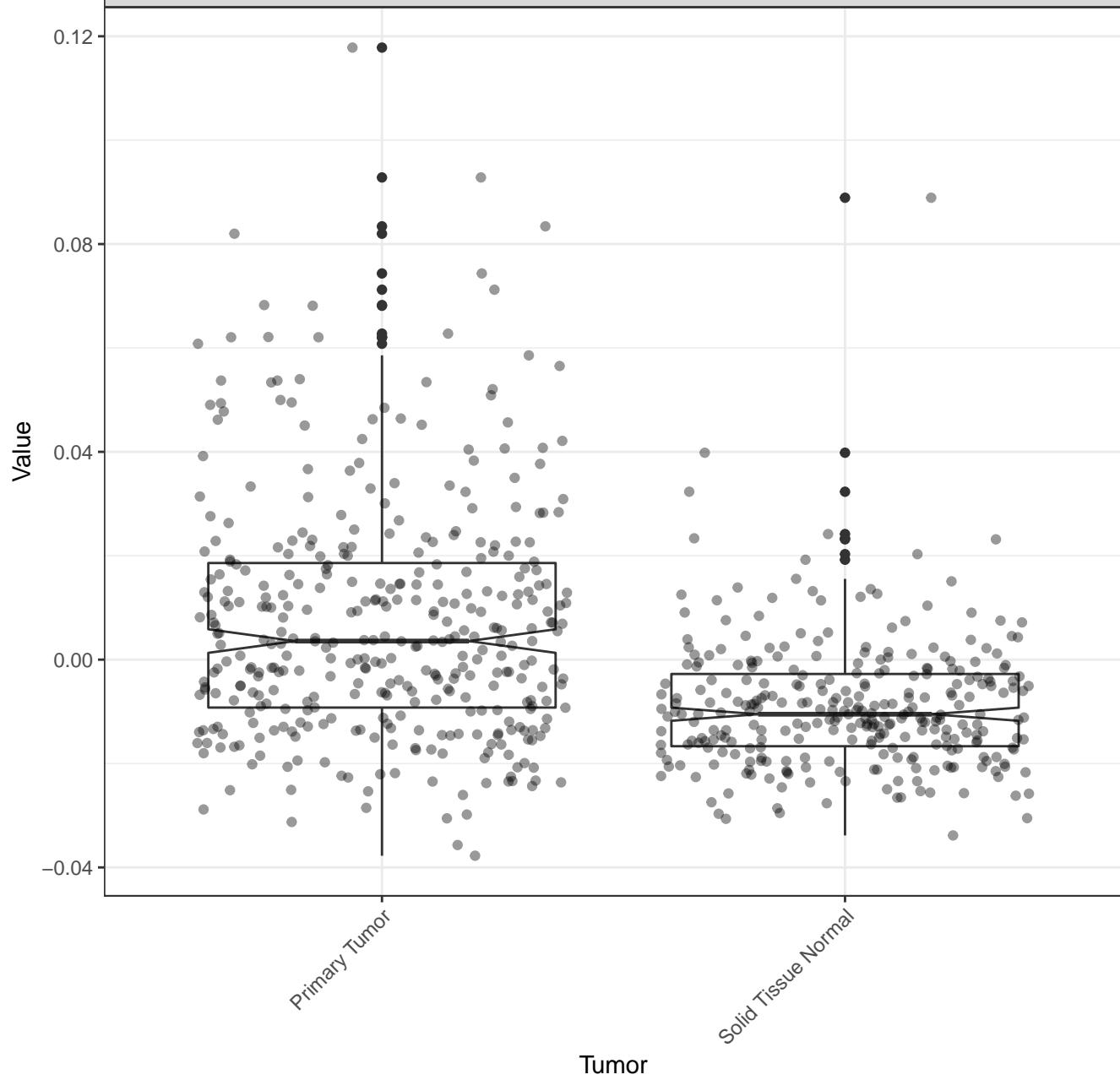
Tumor



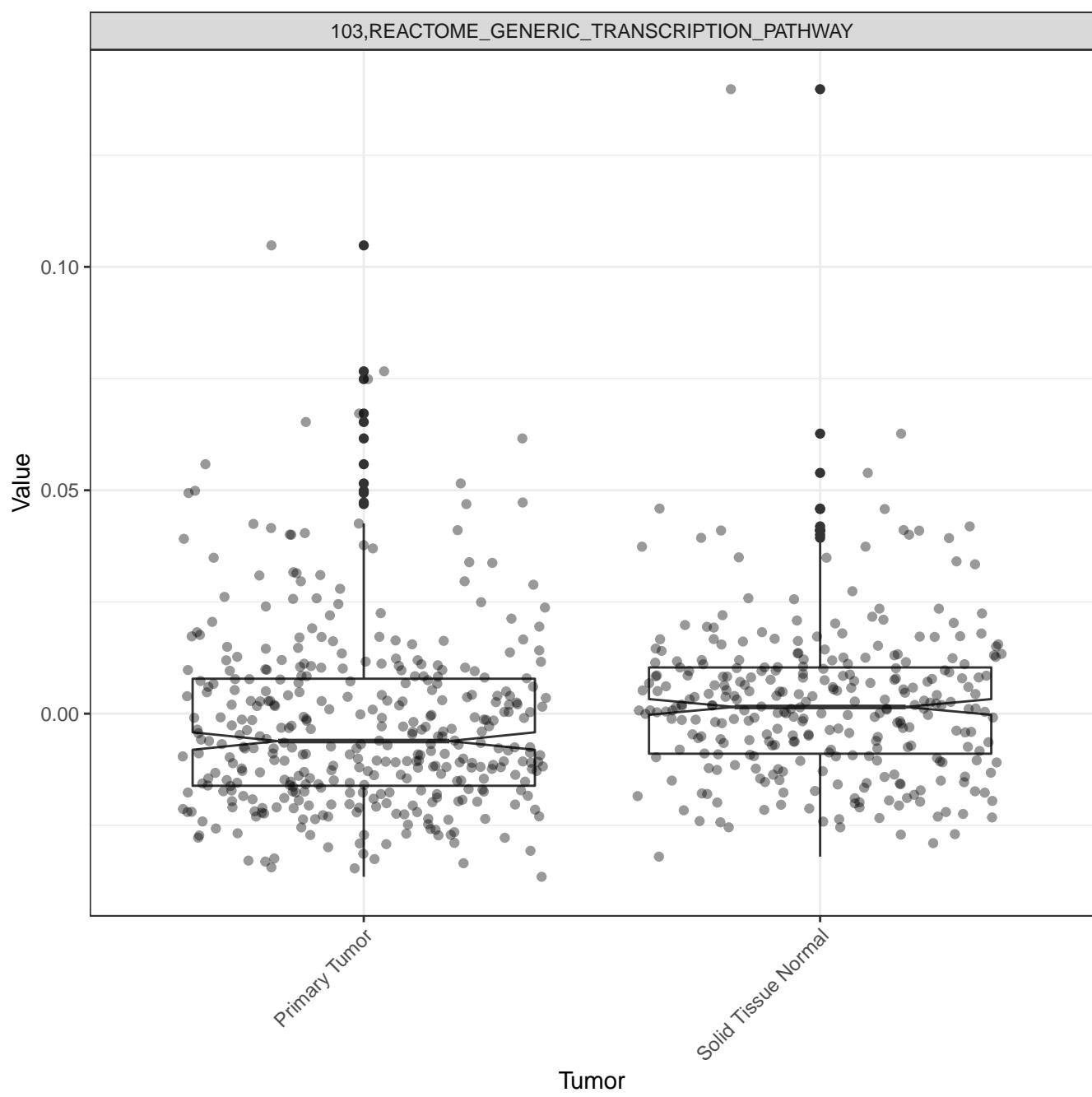
# 101,IRIS\_Neutrophil–Resting



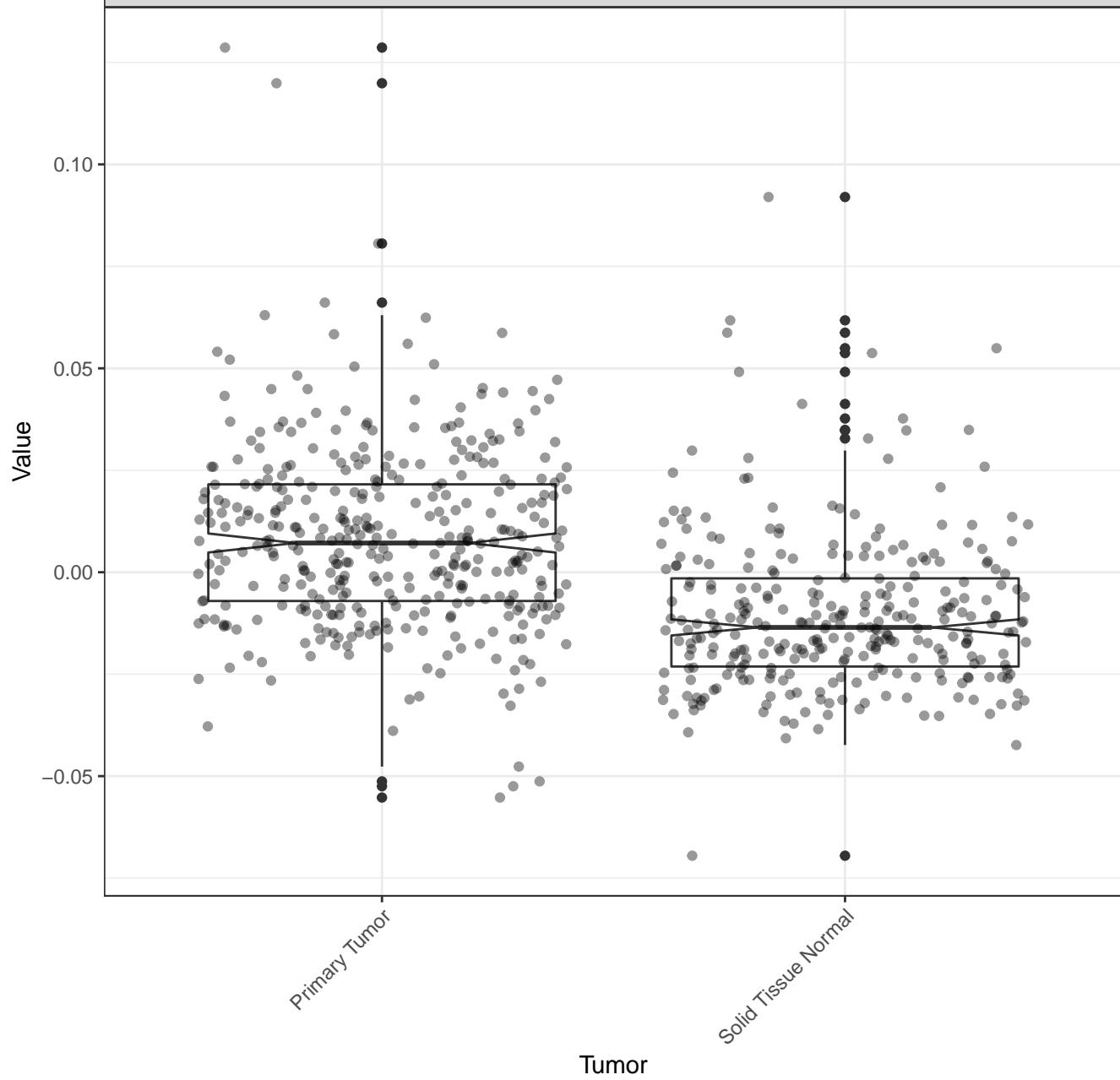
102,REACTOME\_METABOLISM\_OF\_CARBOHYDRATES



## 103,REACTOME\_GENERIC\_TRANSSCRIPTION\_PATHWAY



### 104,SVM Mast cells resting



# 105,PID\_ECADHERIN\_STABILIZATION\_PATHWAY

Value

0.08

0.04

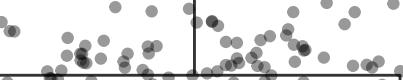
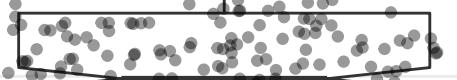
0.00

-0.04

Primary Tumor

Solid Tissue Normal

Tumor



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

Value

0.15

0.10

0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



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

Value

0.15

0.10

0.05

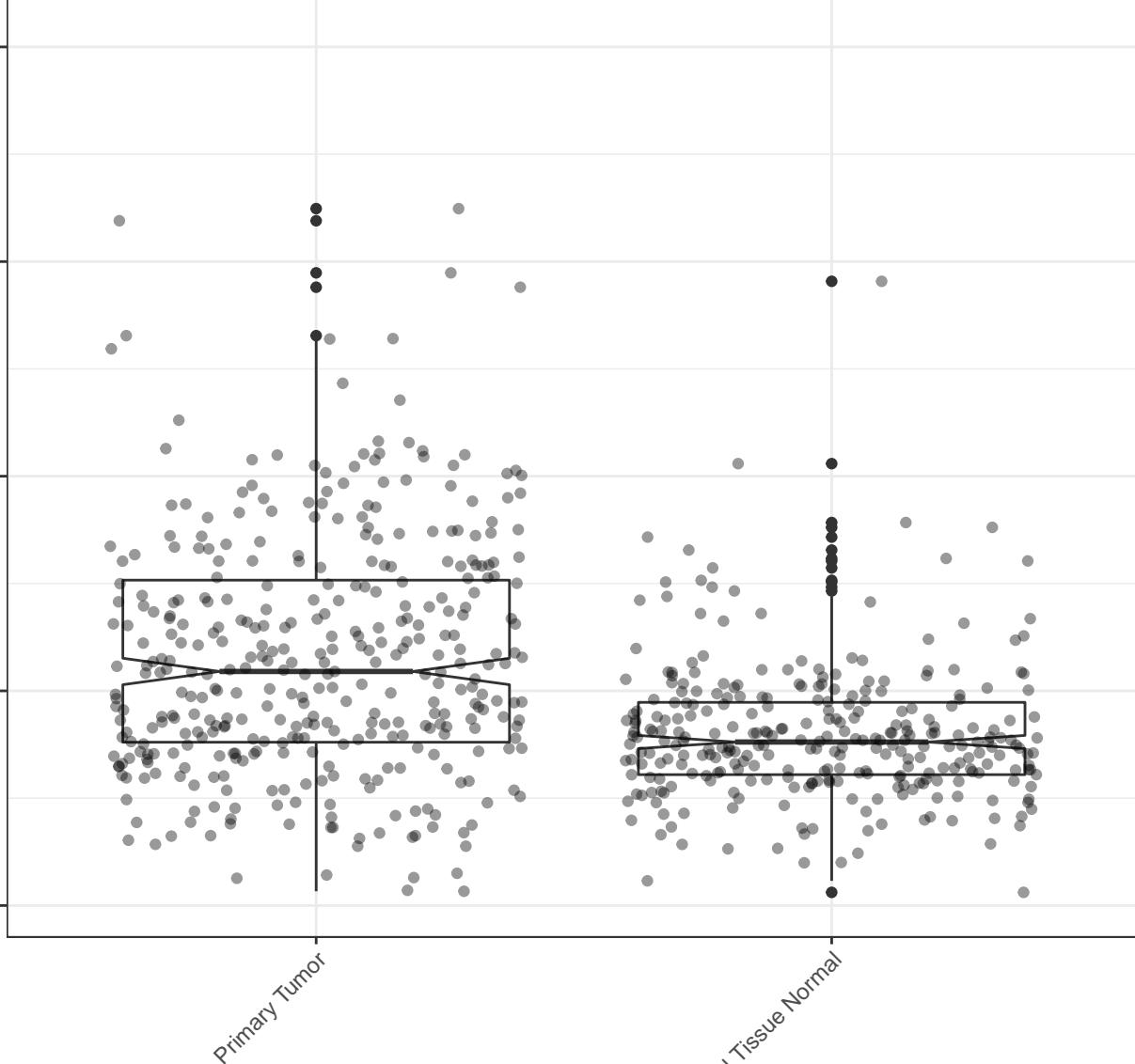
0.00

-0.05

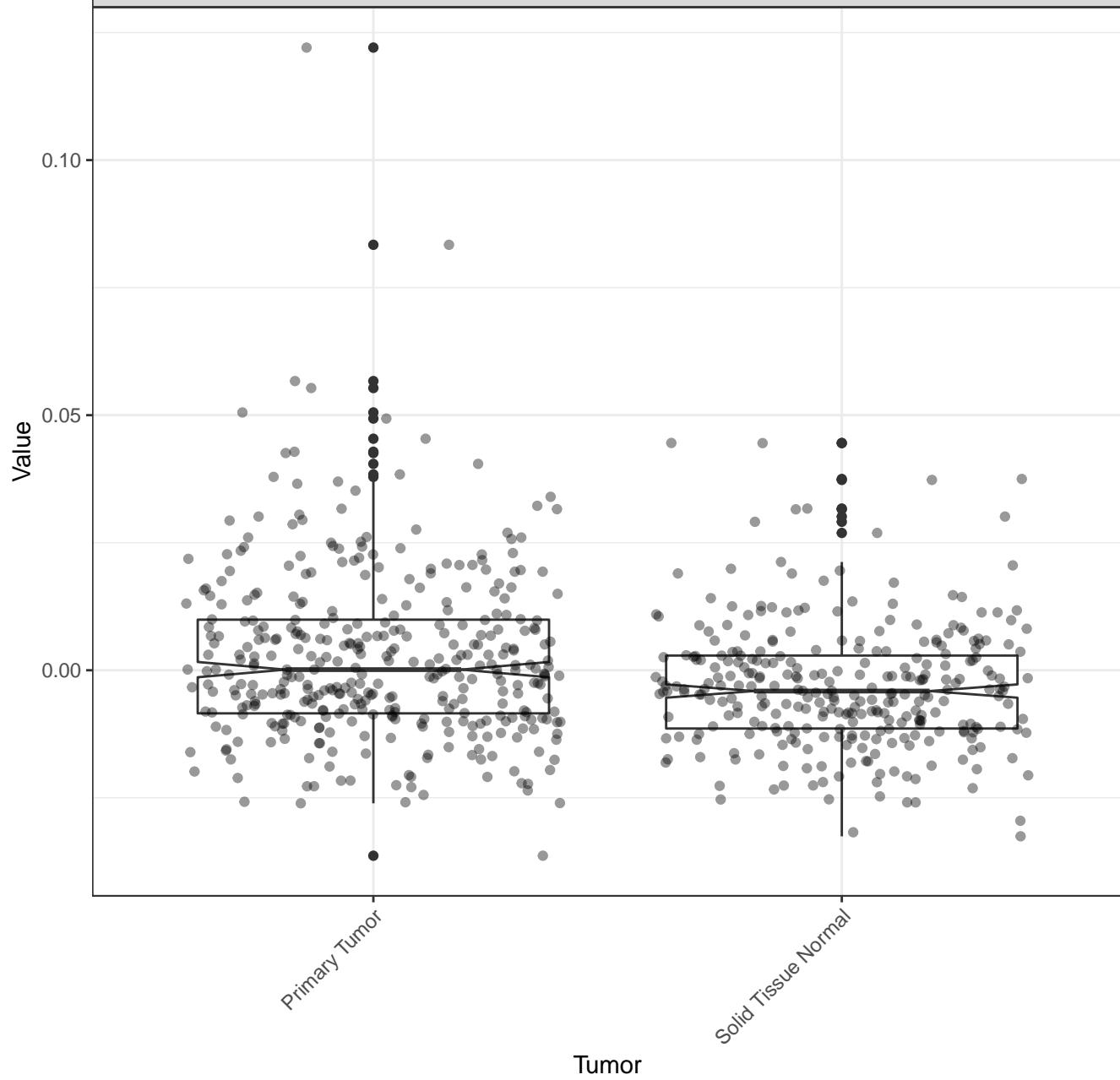
Primary Tumor

Solid Tissue Normal

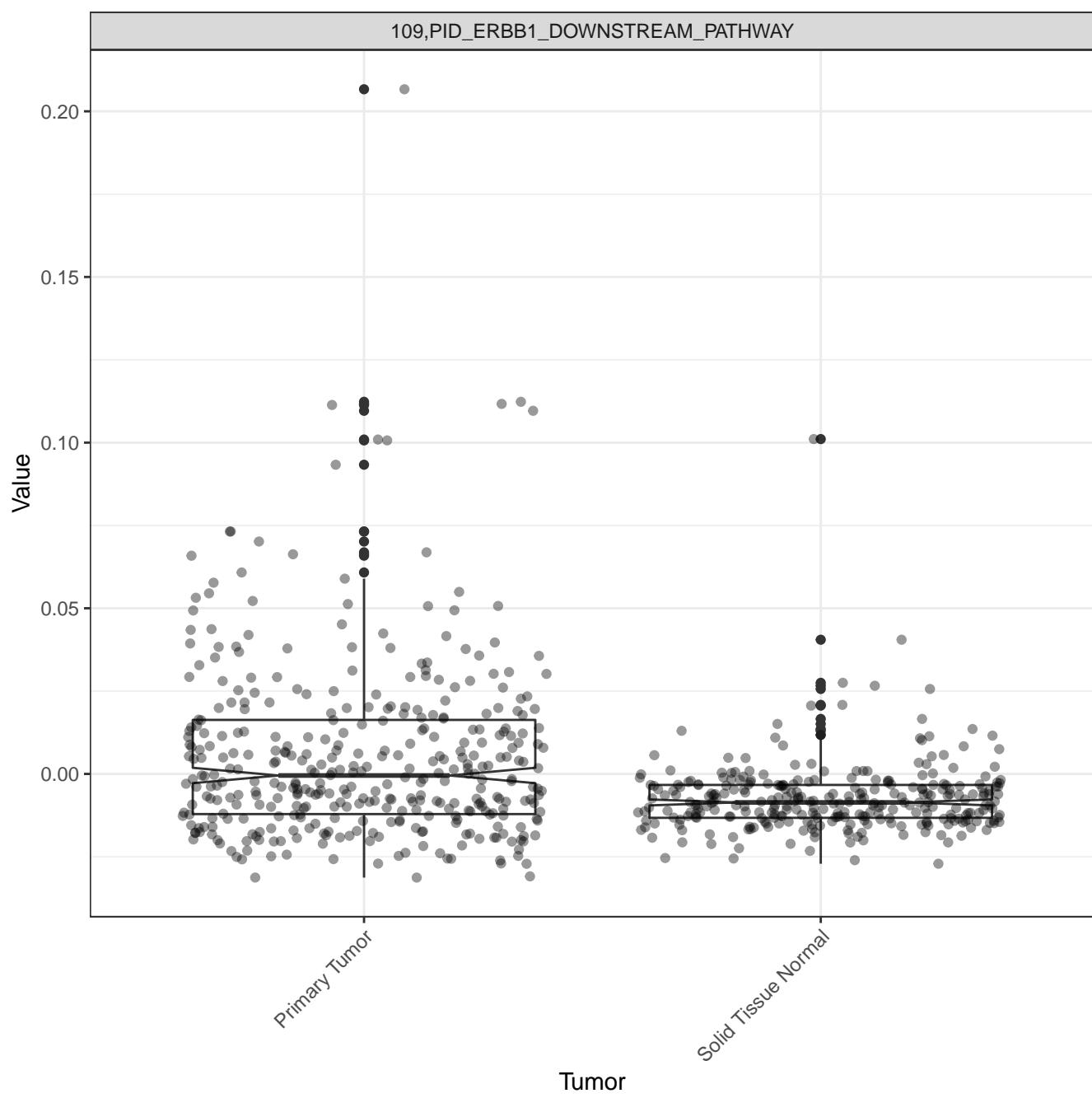
Tumor



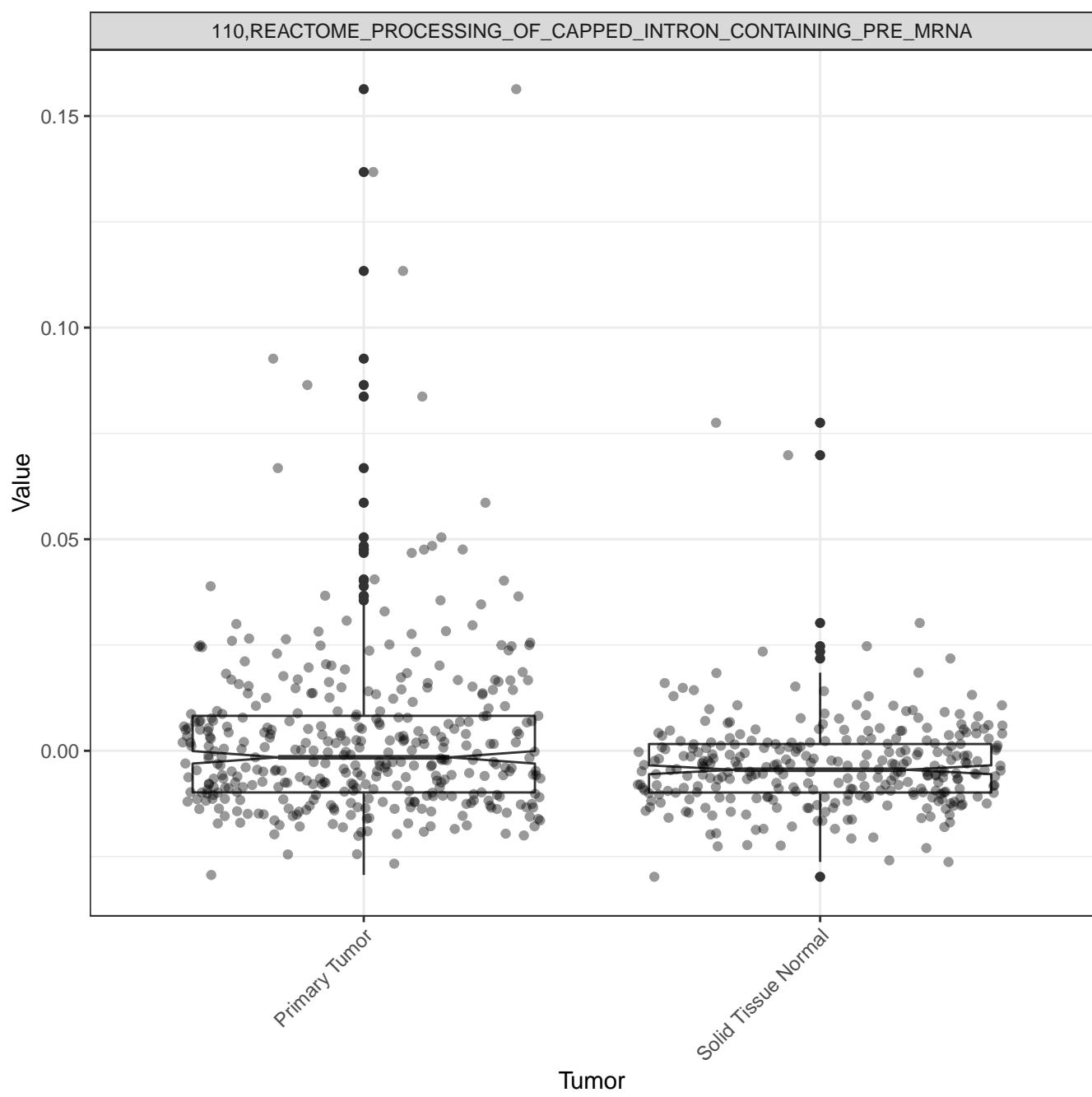
# 108,REACTOME\_MRNA\_SPLICING



# 109,PID\_ERBB1\_DOWNSTREAM\_PATHWAY



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



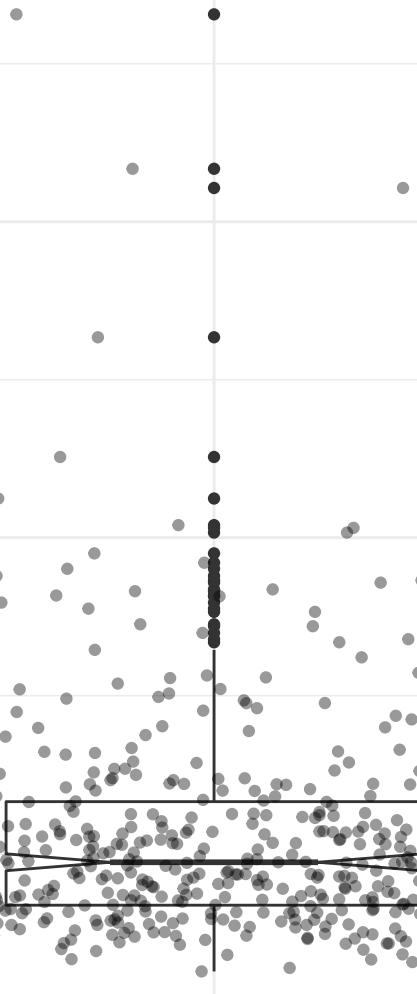
## 111,PID\_ATM\_PATHWAY

Value

0.10

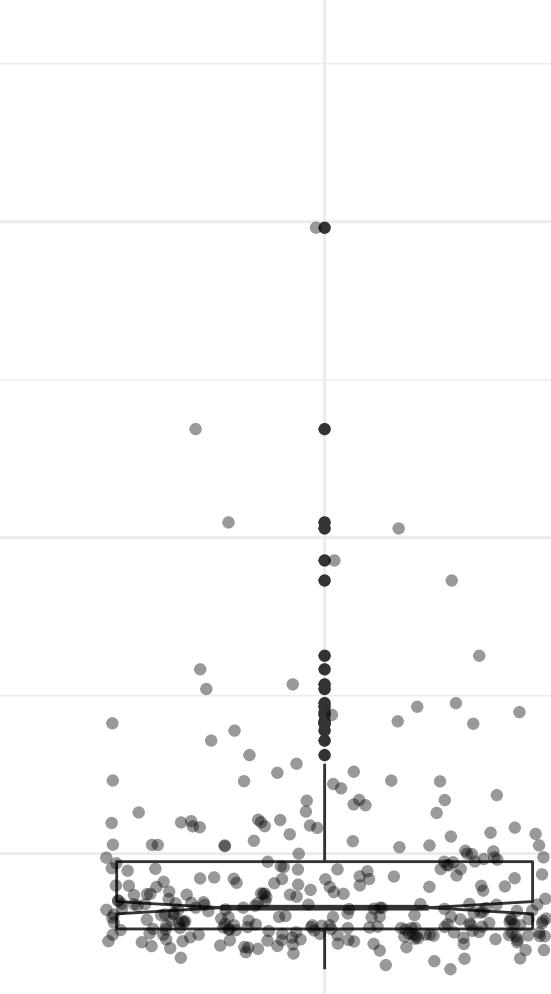
0.05

0.00



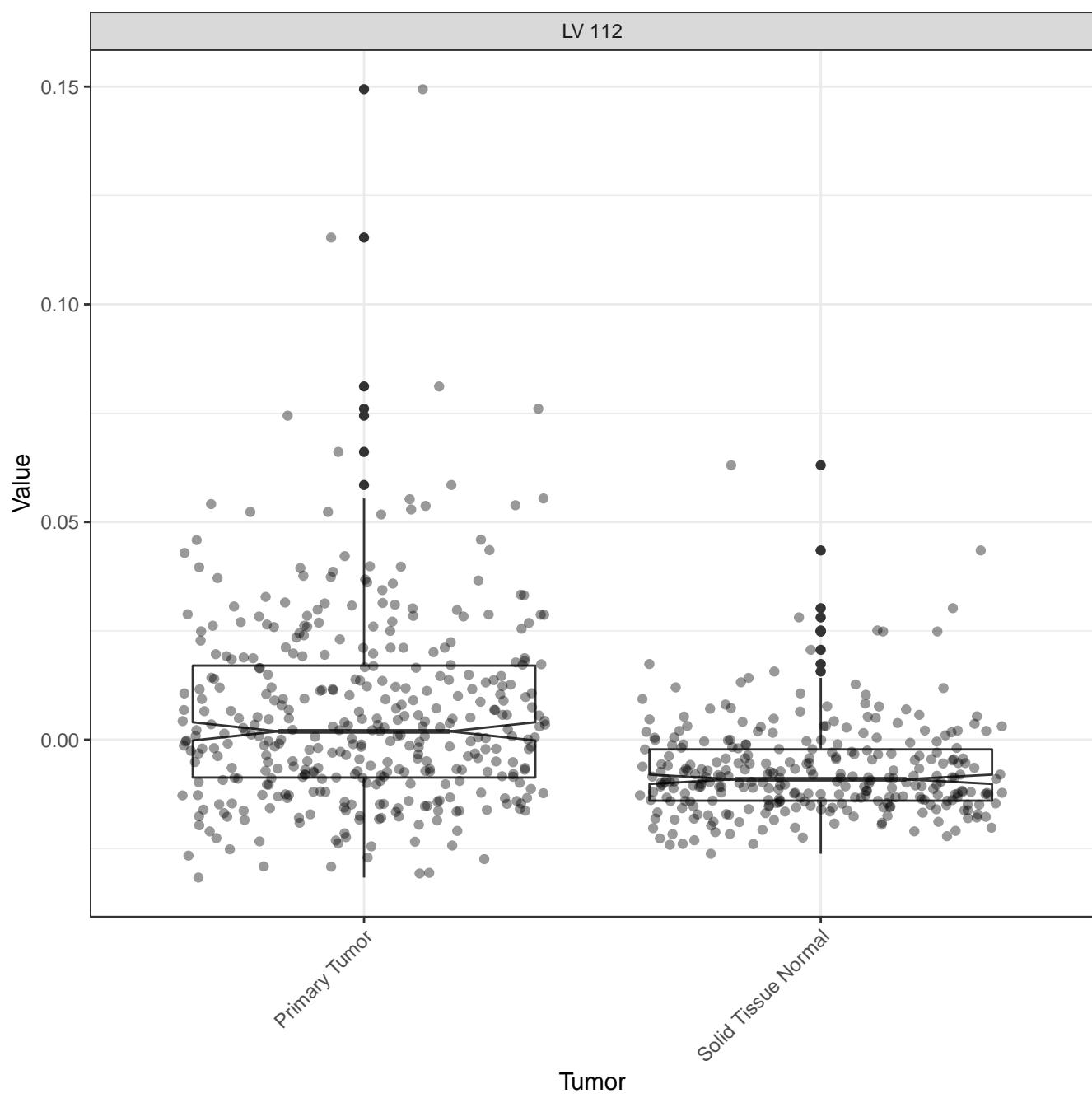
Primary Tumor

Tumor

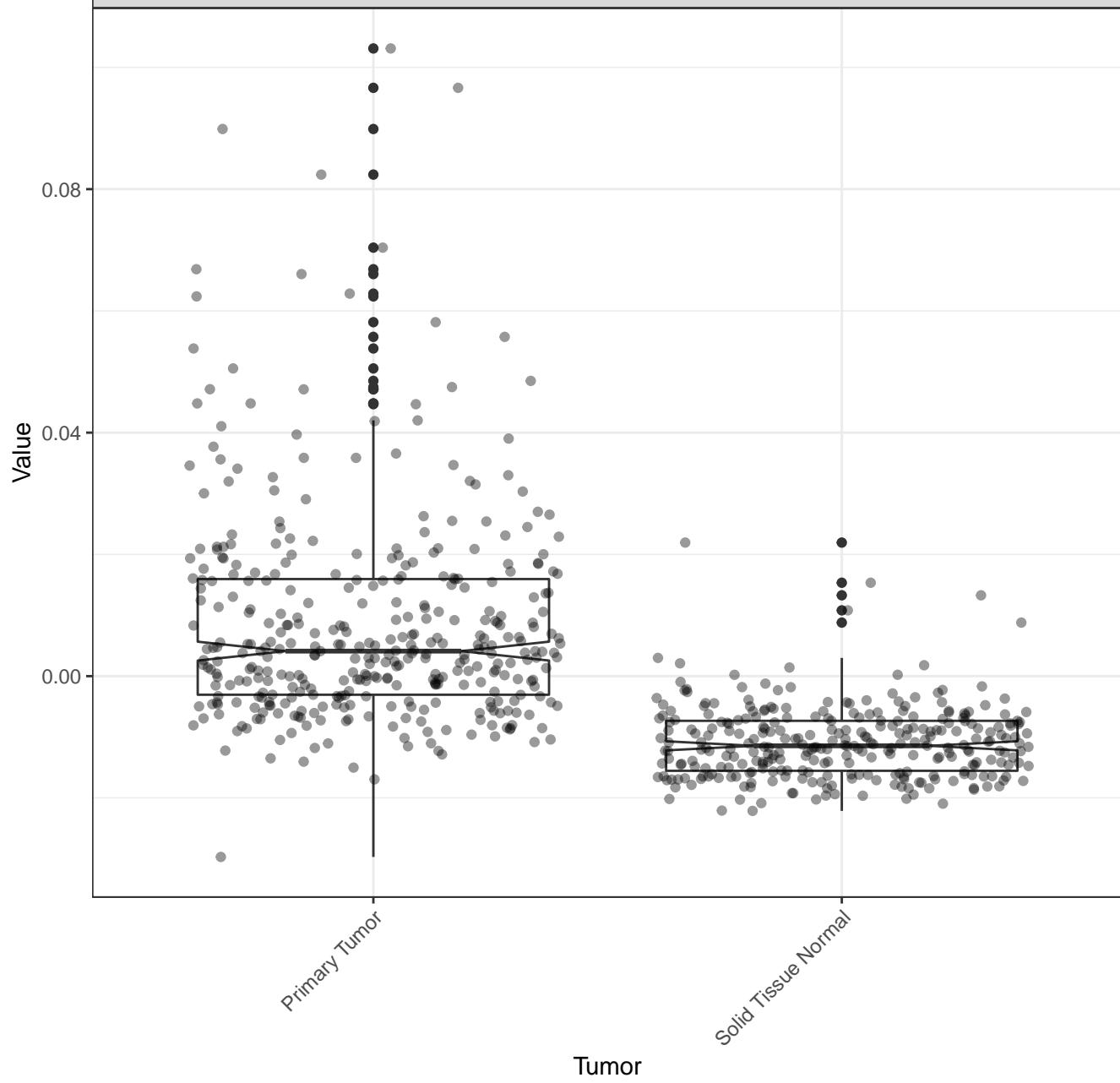


Solid Tissue Normal

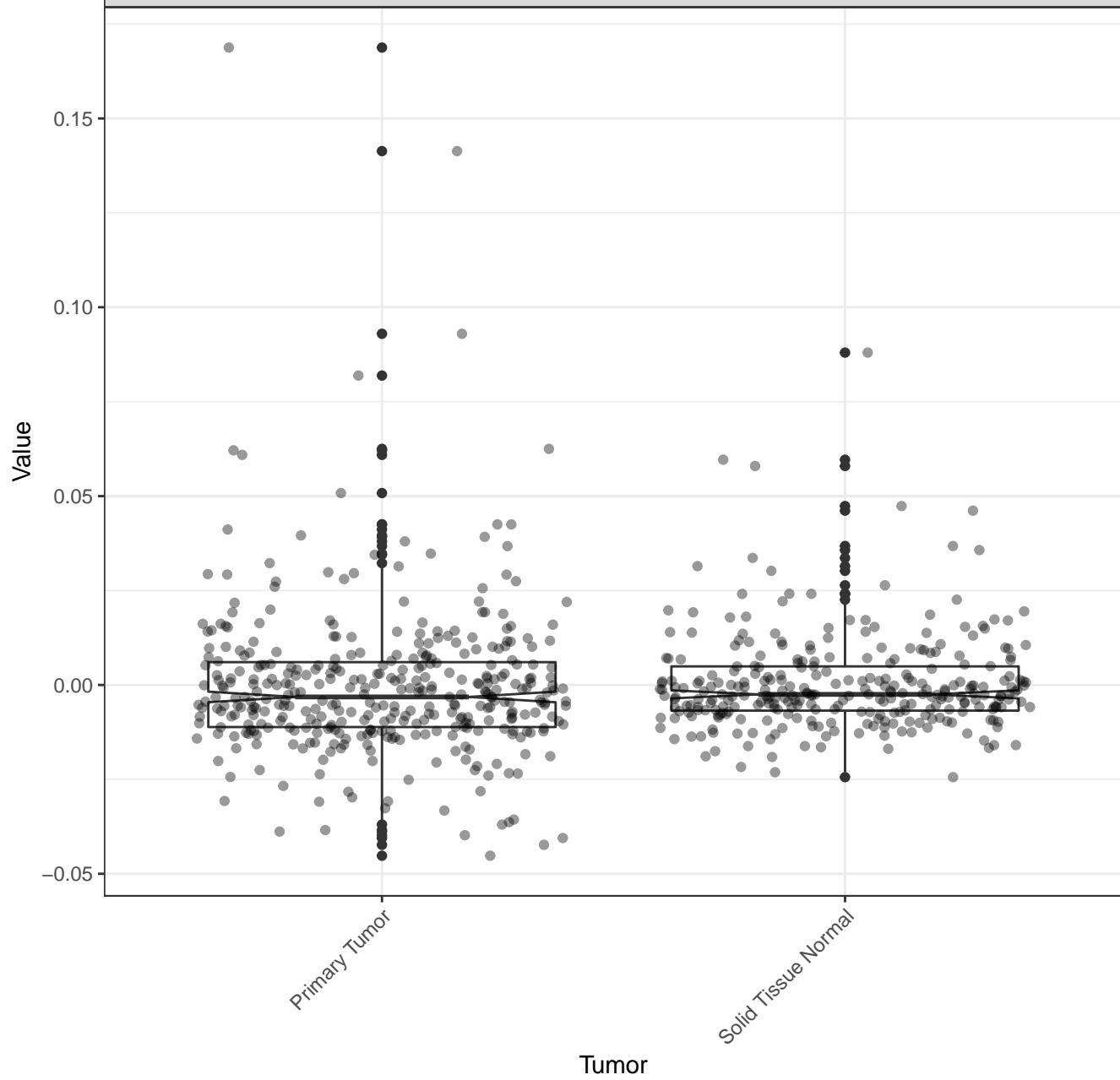
LV 112



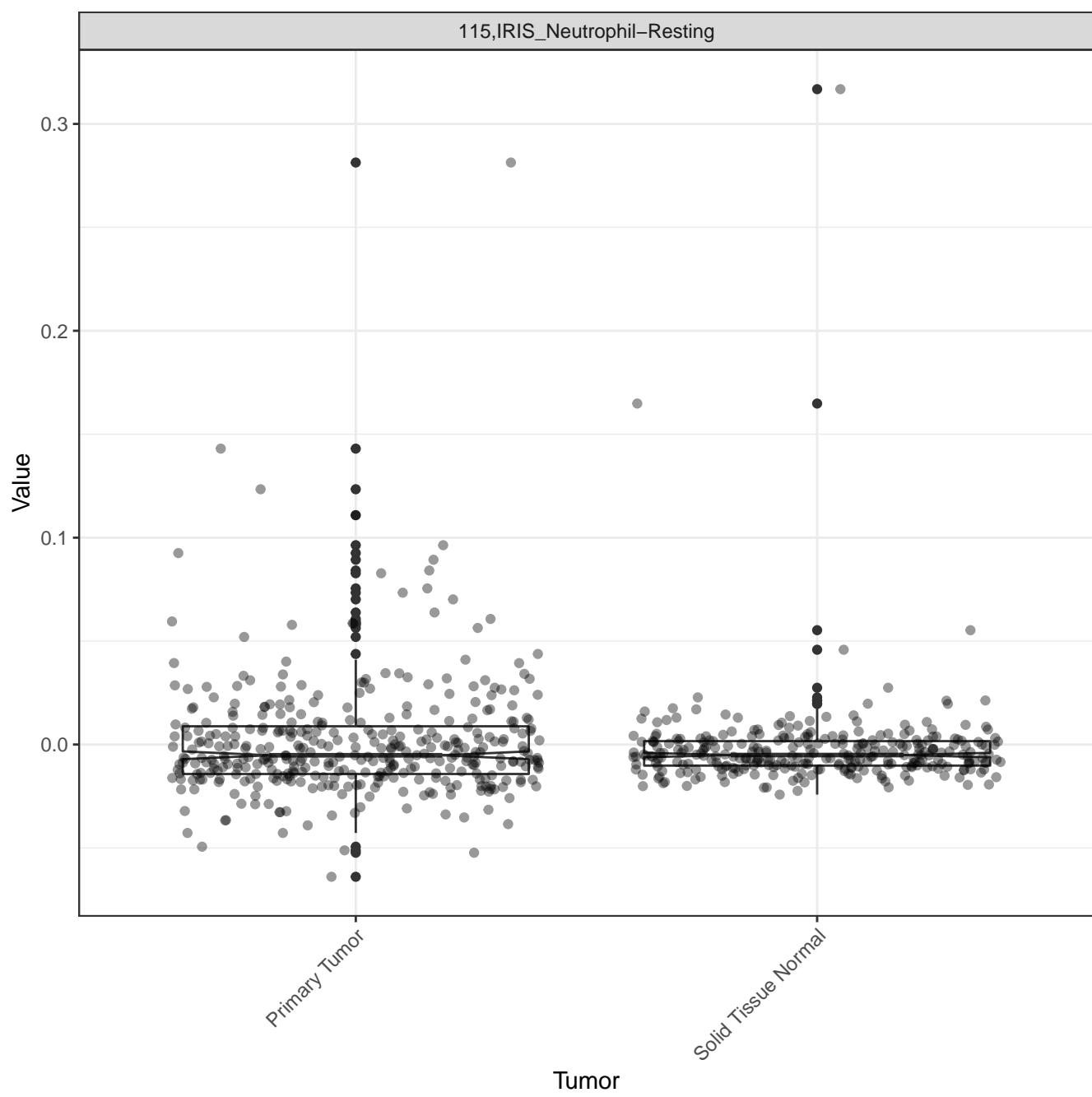
## 113,REACTOME\_METABOLISM\_OF\_RNA



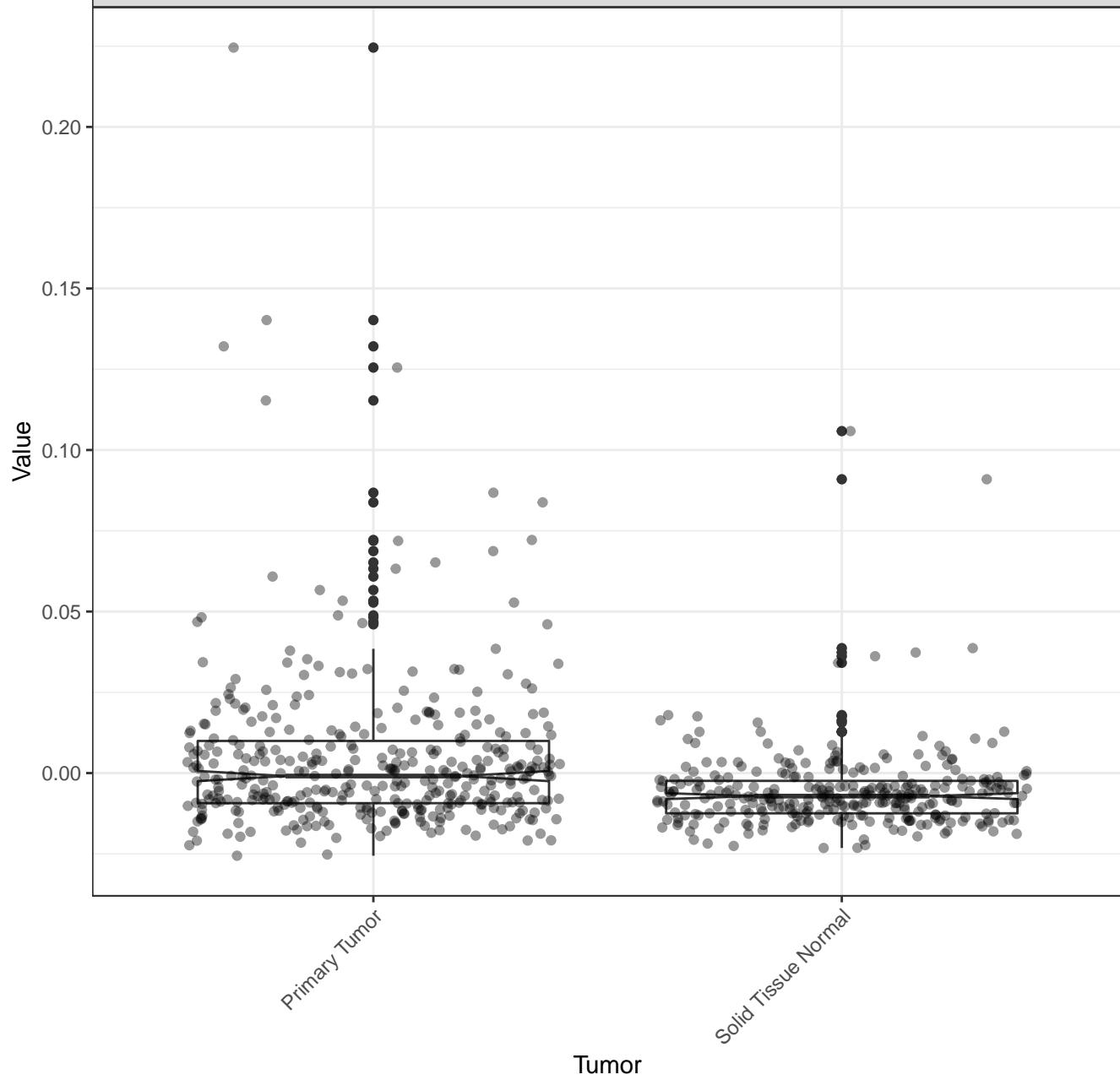
# 114,REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS



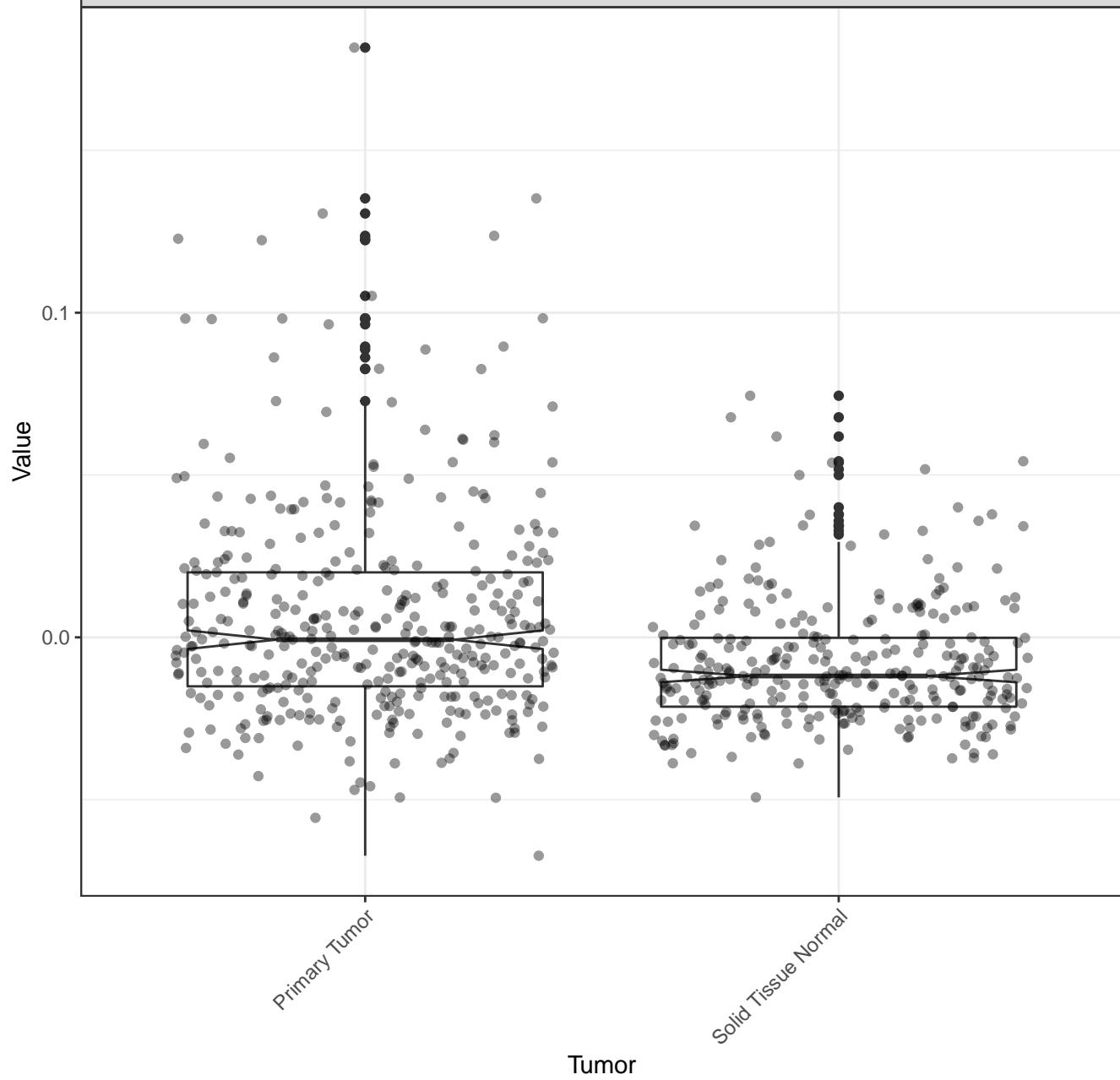
# 115,IRIS\_Neutrophil-Resting



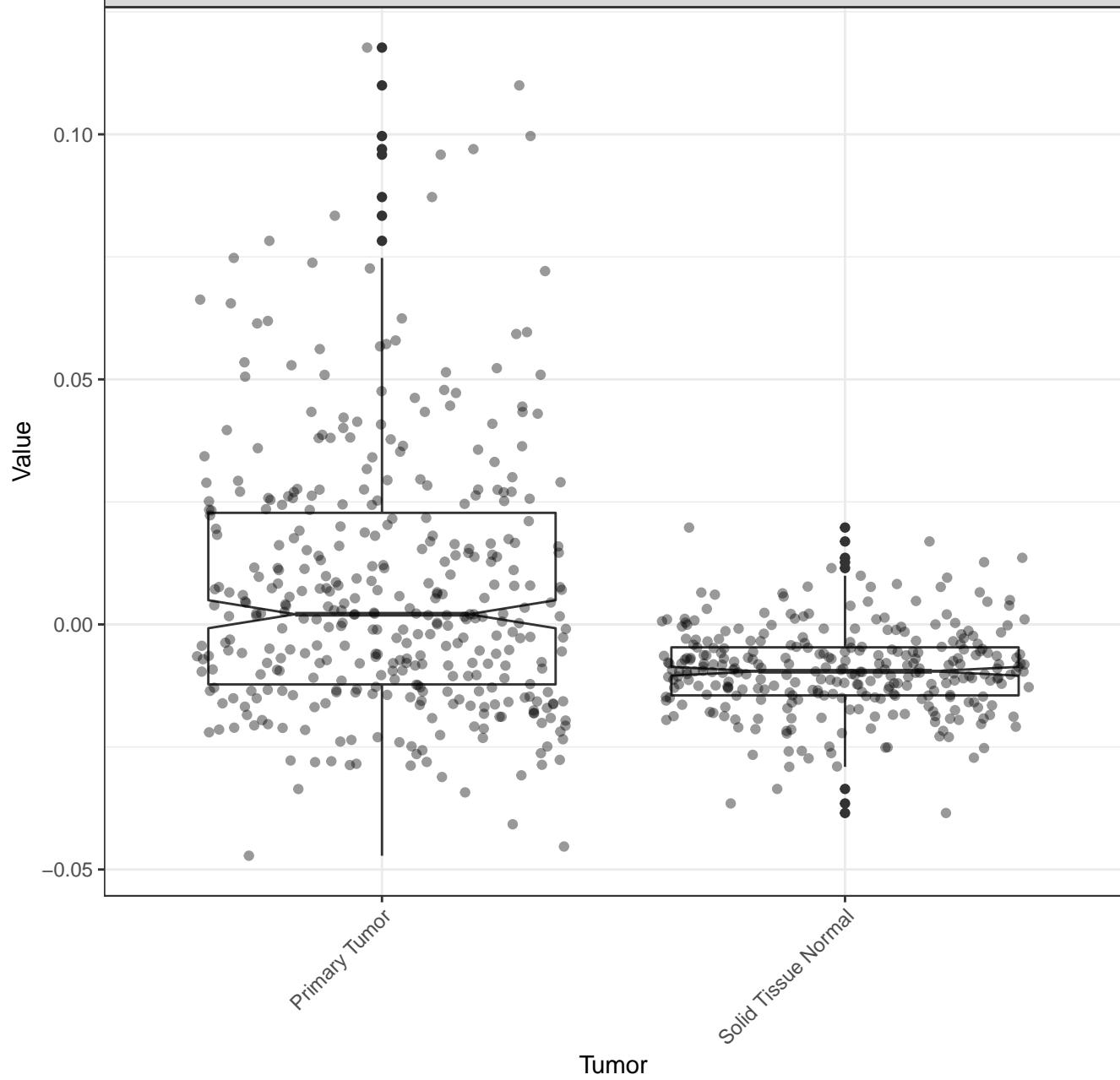
# 116,KEGG\_HEDGEHOG\_SIGNALING\_PATHWAY



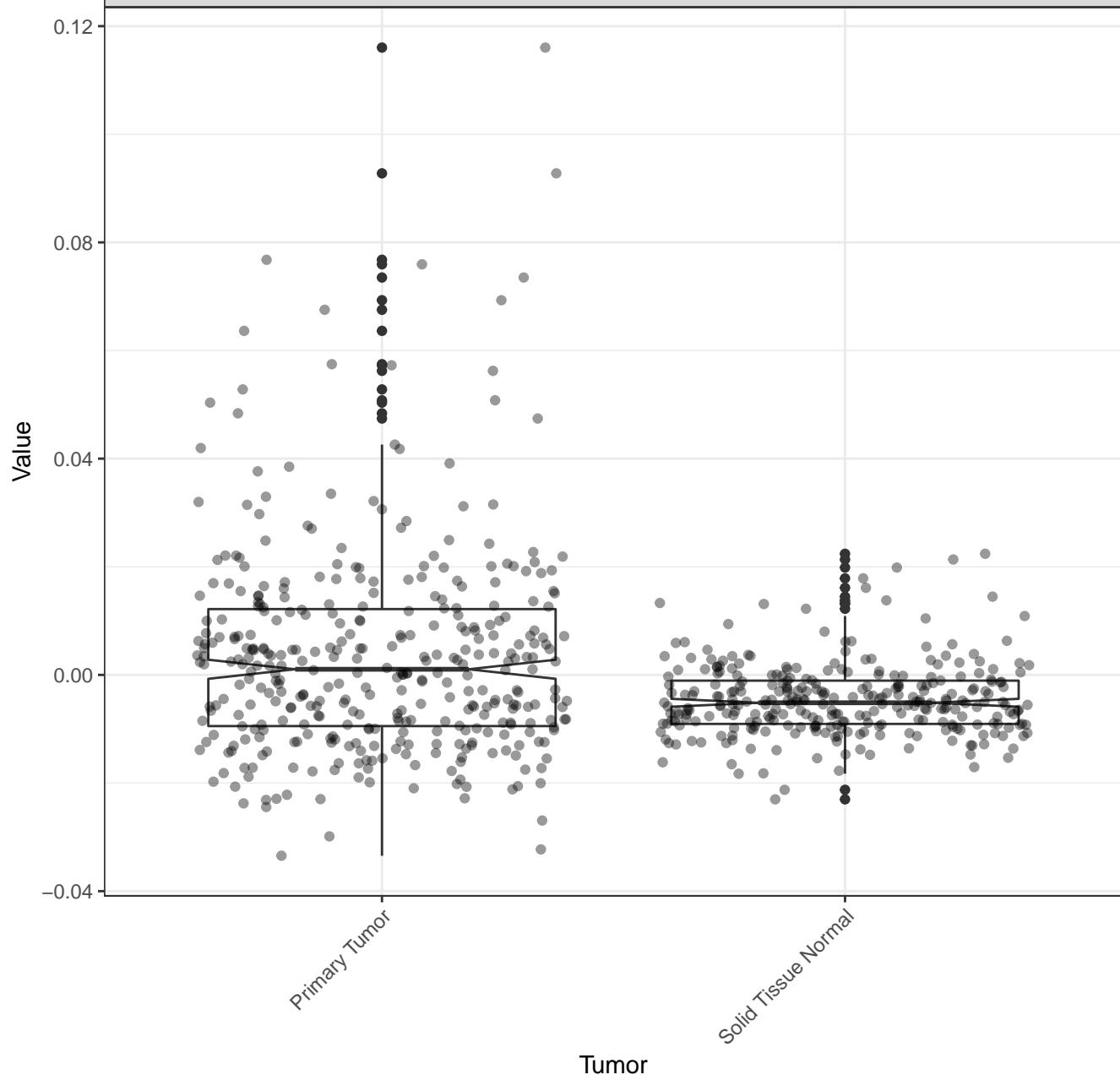
# 117,REACTOME\_MRNA\_PROCESSING



## 118,KEGG\_CELL\_CYCLE



LV 119



# 120,KEGG\_PARKINSONS\_DISEASE

Value

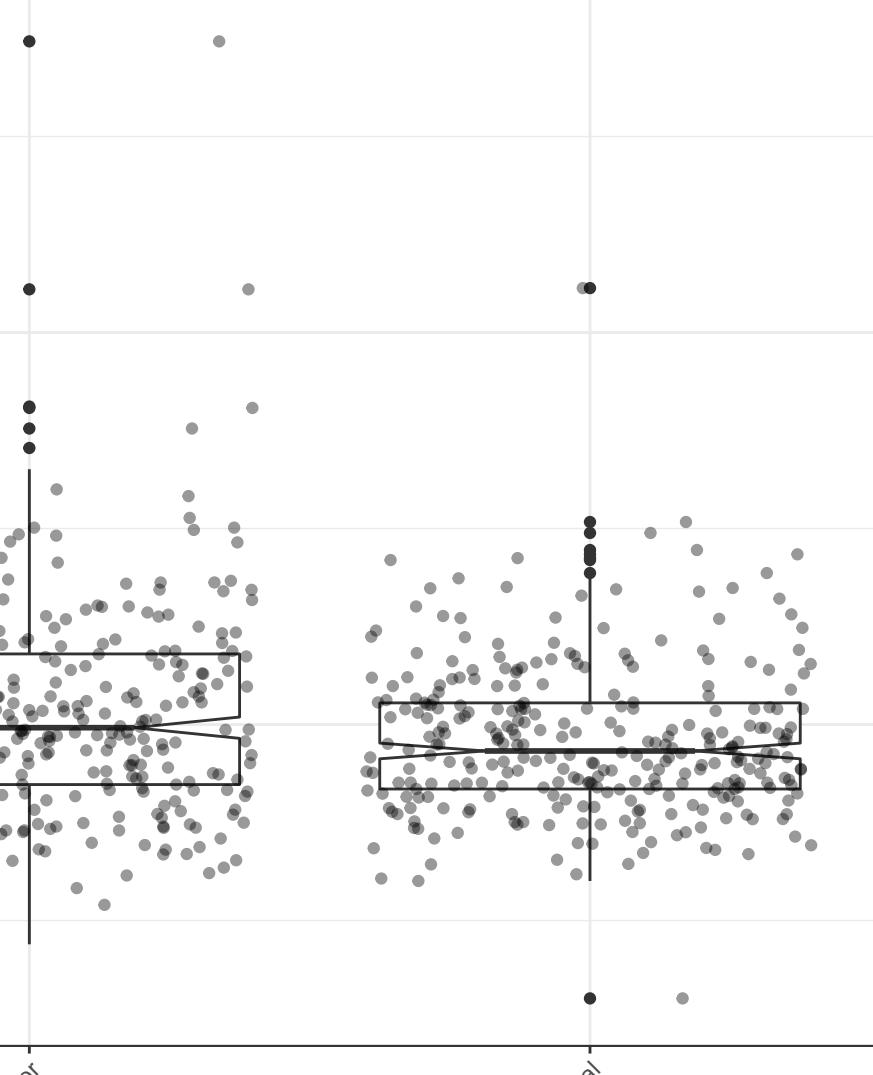
0.1

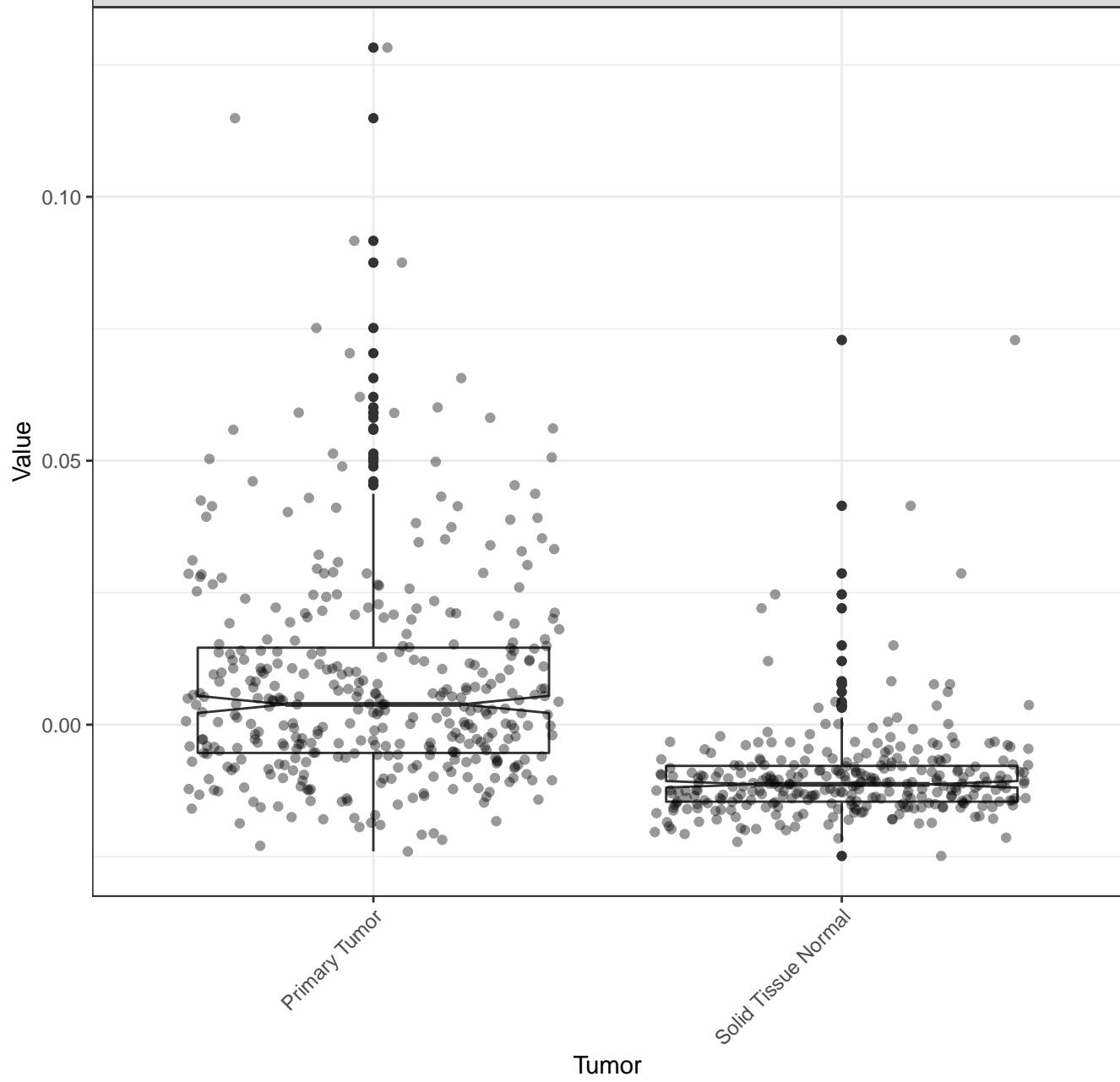
0.0

Primary Tumor

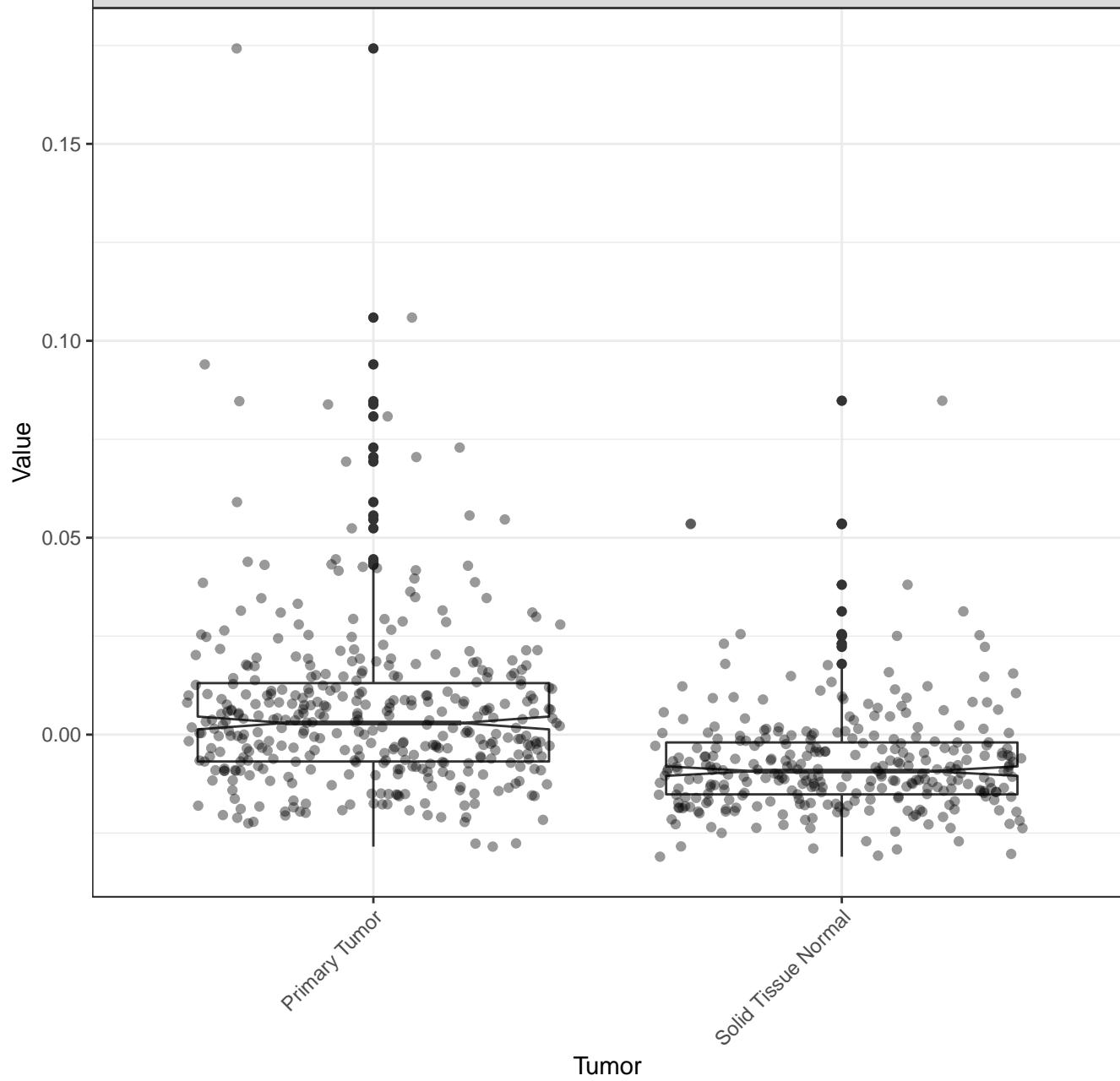
Solid Tissue Normal

Tumor





## 122,REACTOME DEVELOPMENTAL\_BIOLOGY



Value

0.20

0.15

0.10

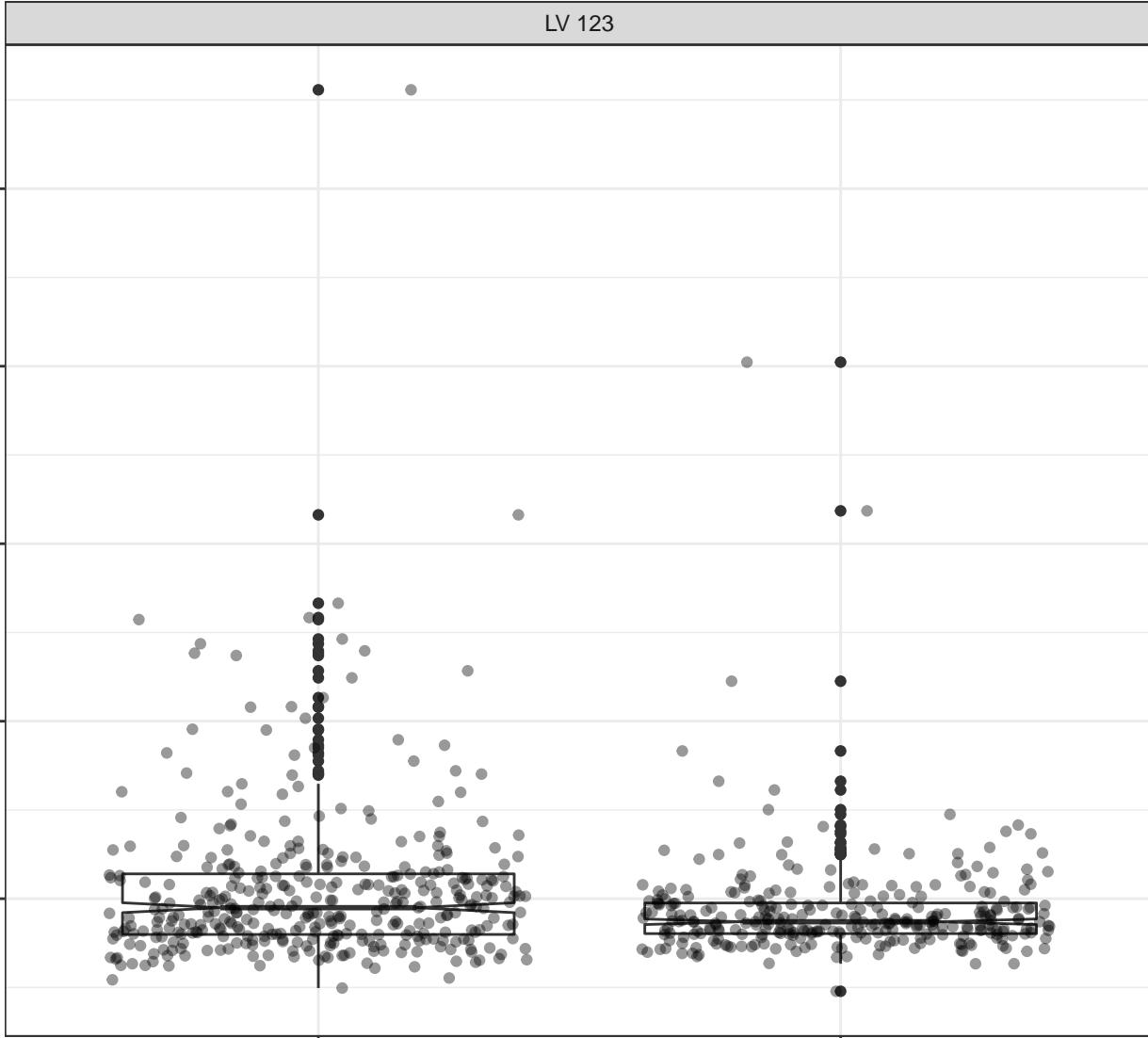
0.05

0.00

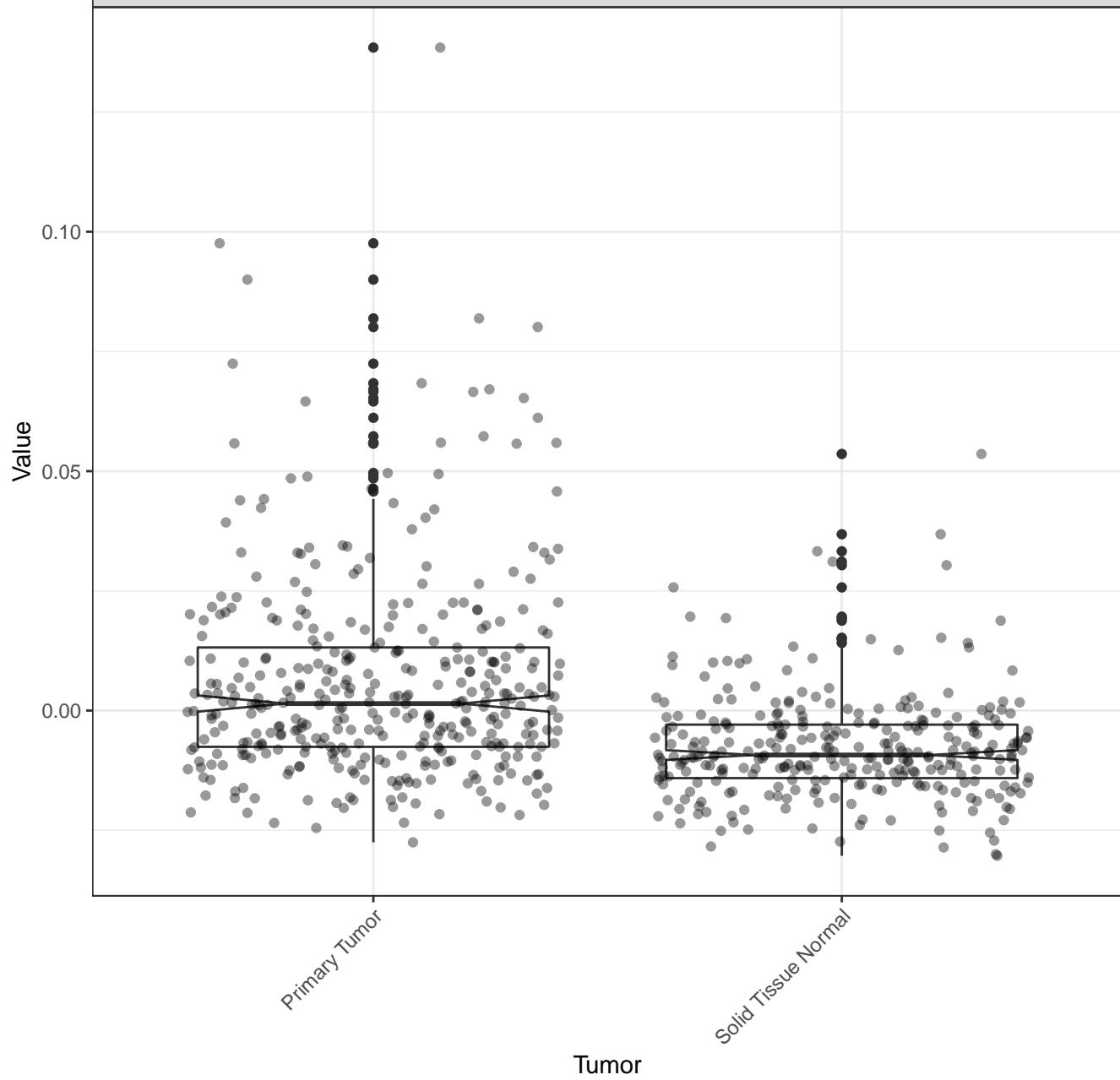
Primary Tumor

Solid Tissue Normal

Tumor



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



# 125,REACTOME\_PHOSPHOLIPID\_METABOLISM

Value

0.10

0.05

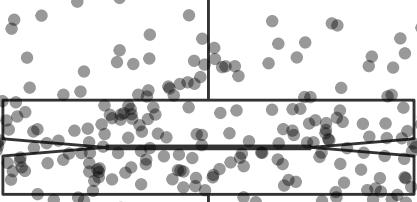
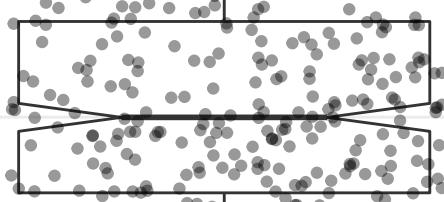
0.00

-0.05

Primary Tumor

Solid Tissue Normal

Tumor



Value

0.15

0.10

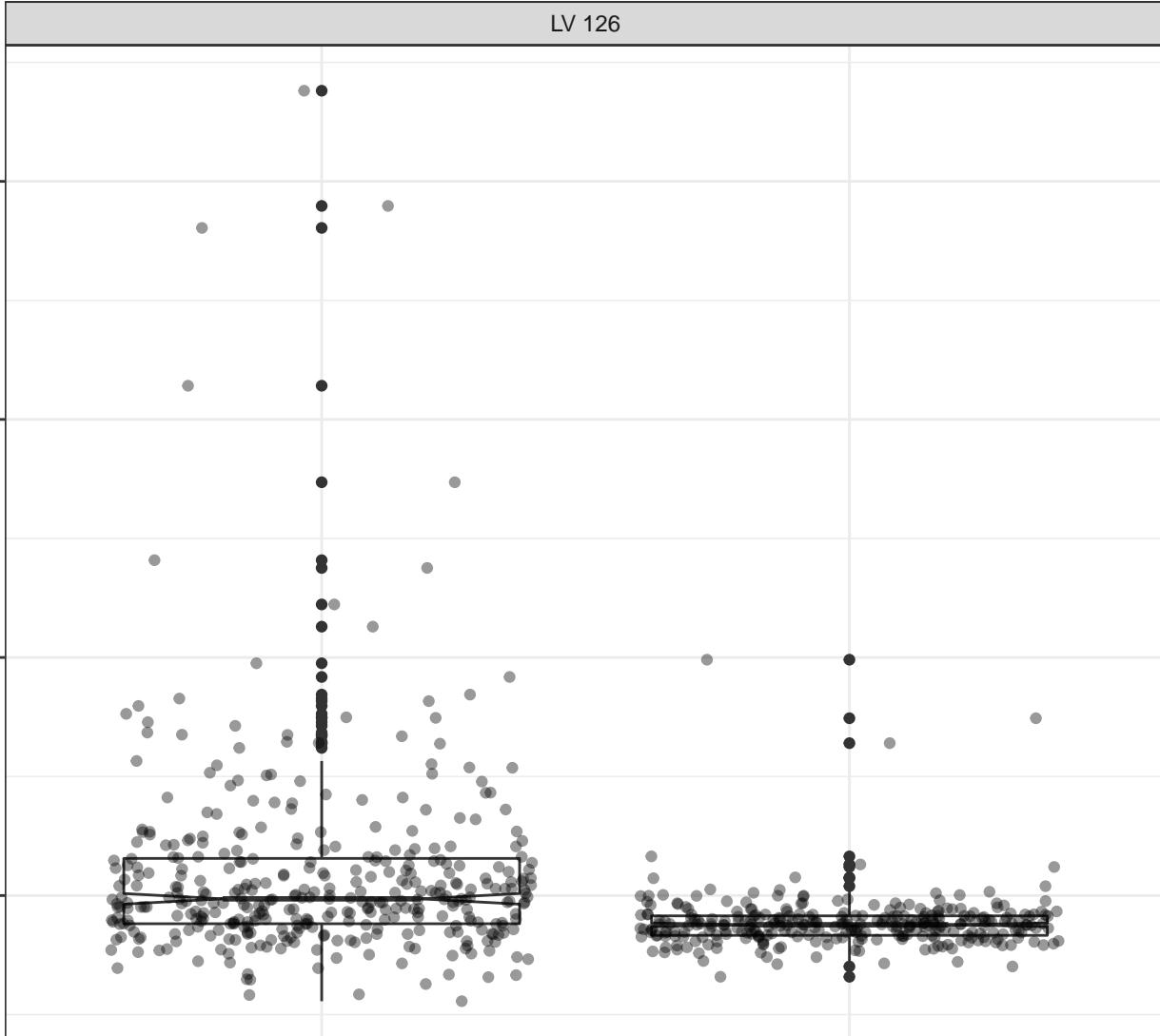
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



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

Value

0.3

0.2

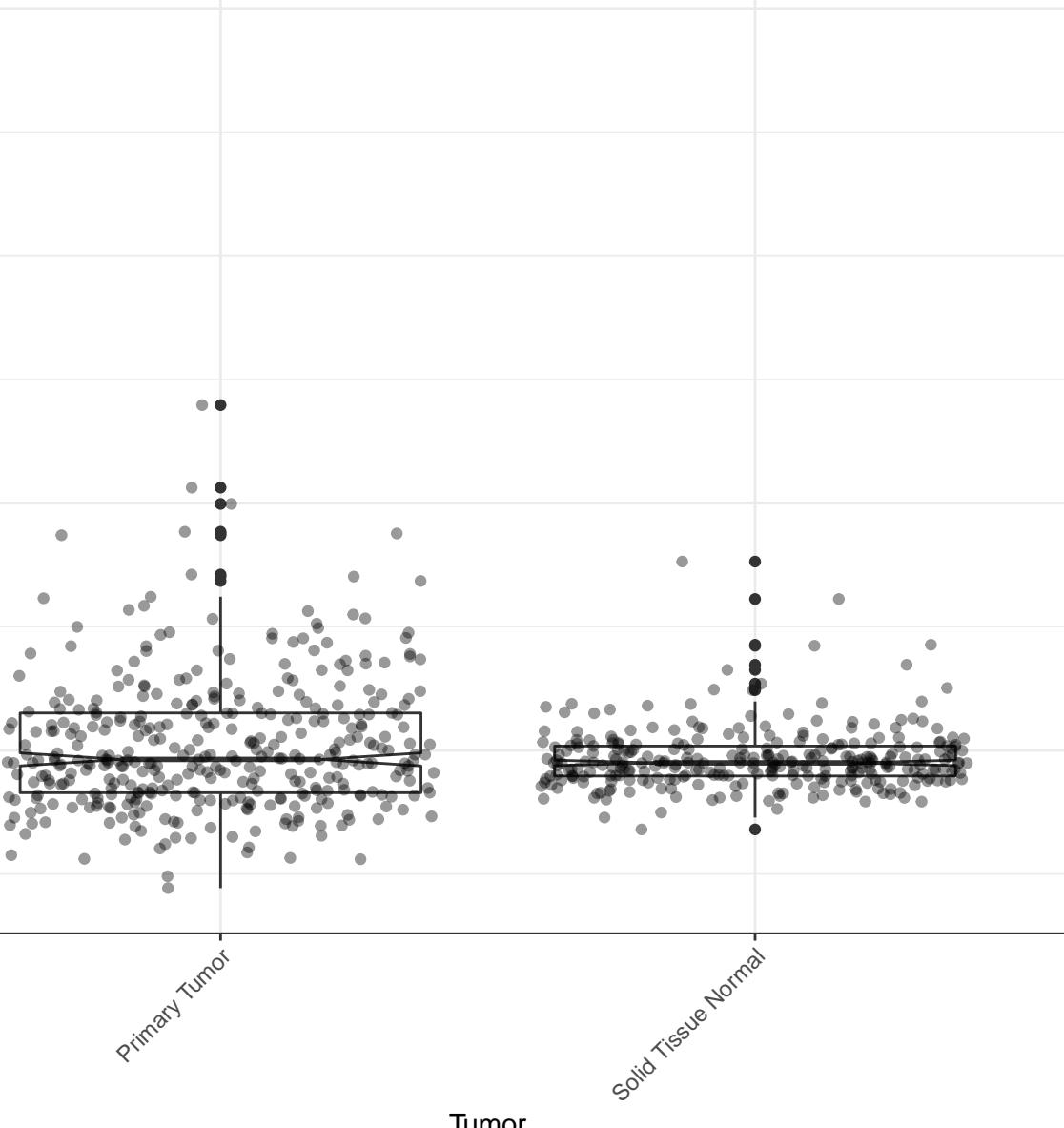
0.1

0.0

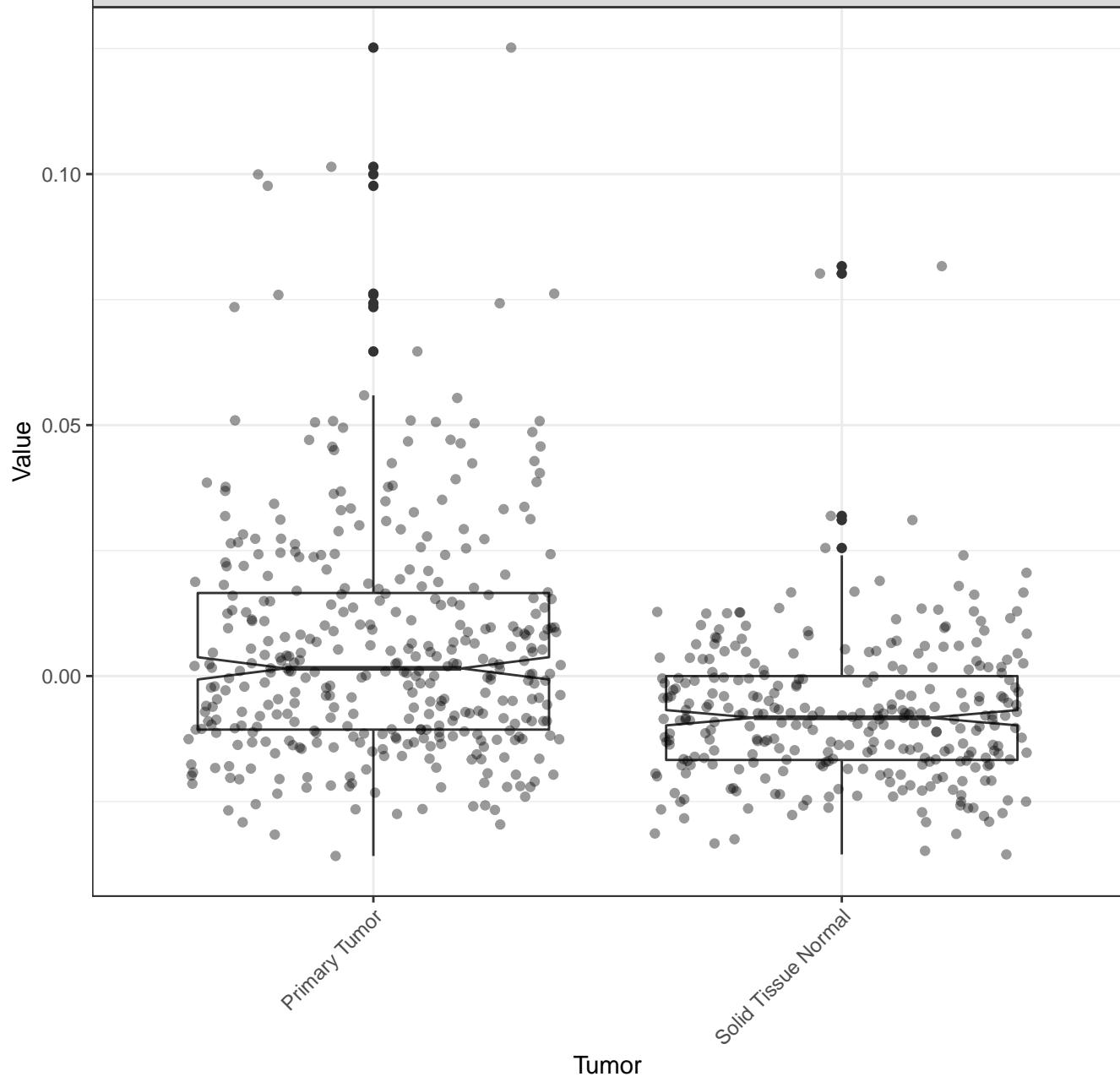
Primary Tumor

Solid Tissue Normal

Tumor



# 128,KEGG\_PURINE\_METABOLISM



Value

0.050

0.025

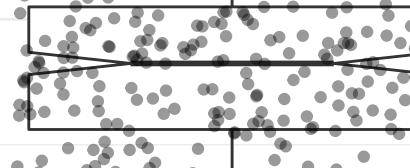
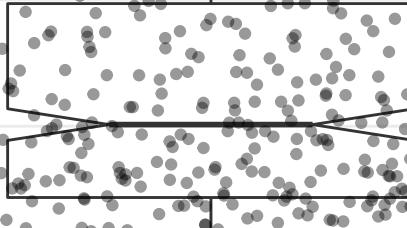
0.000

-0.025

Primary Tumor

Solid Tissue Normal

Tumor



LV 130

Value

0.3

0.2

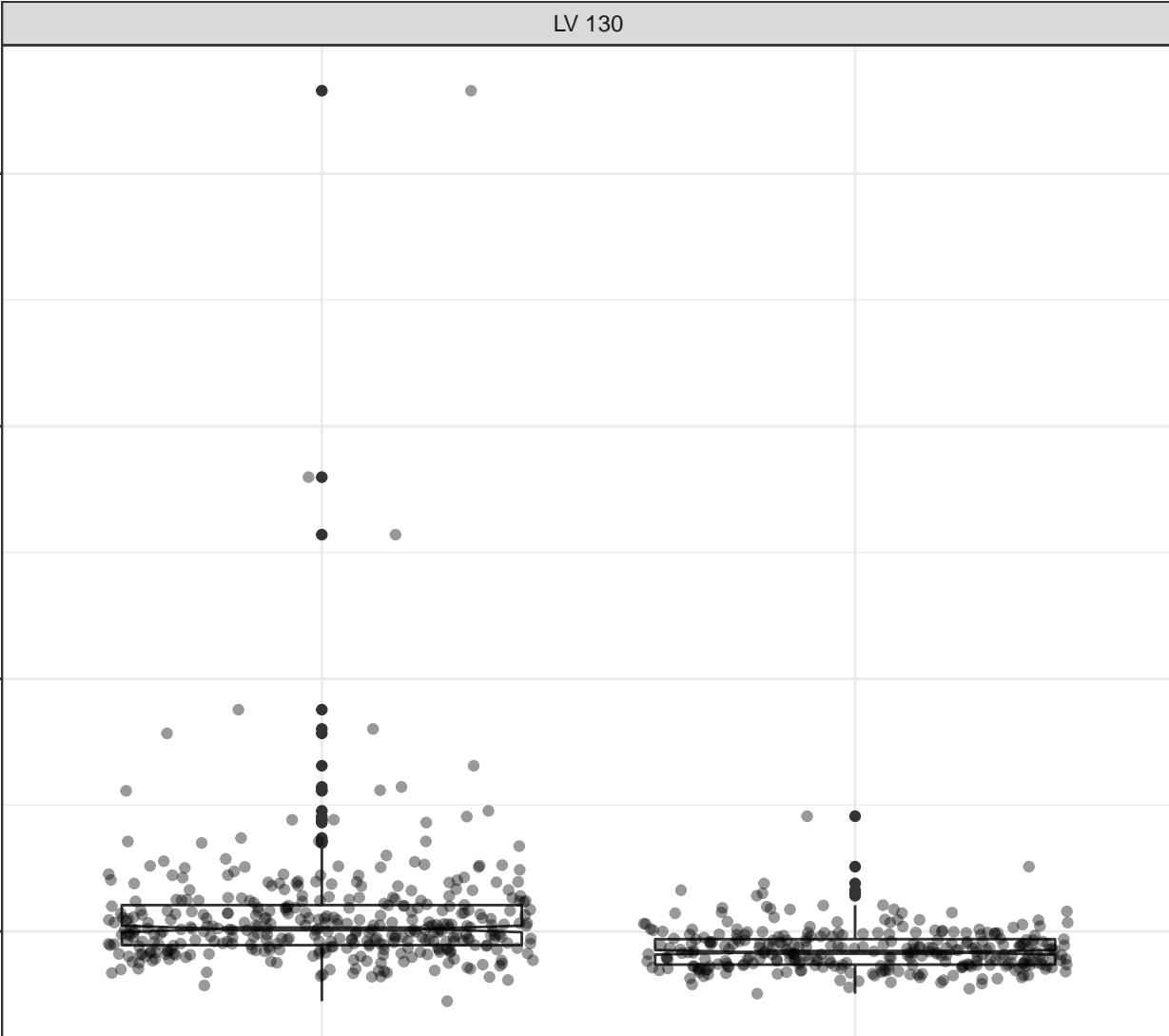
0.1

0.0

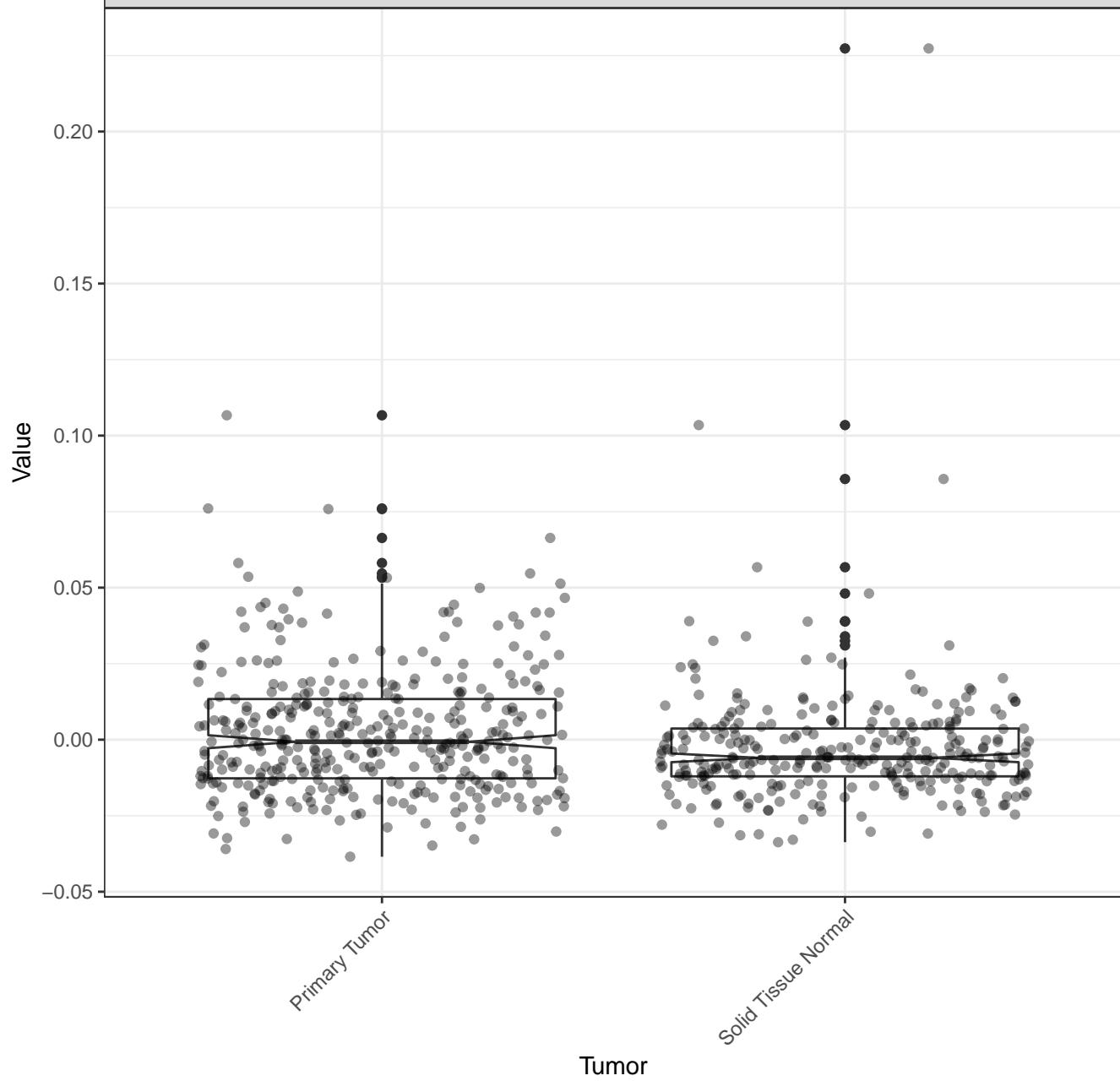
Primary Tumor

Solid Tissue Normal

Tumor



# 131,REACTOME\_OPIOID\_SIGNALLING



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

Value

0.15

0.10

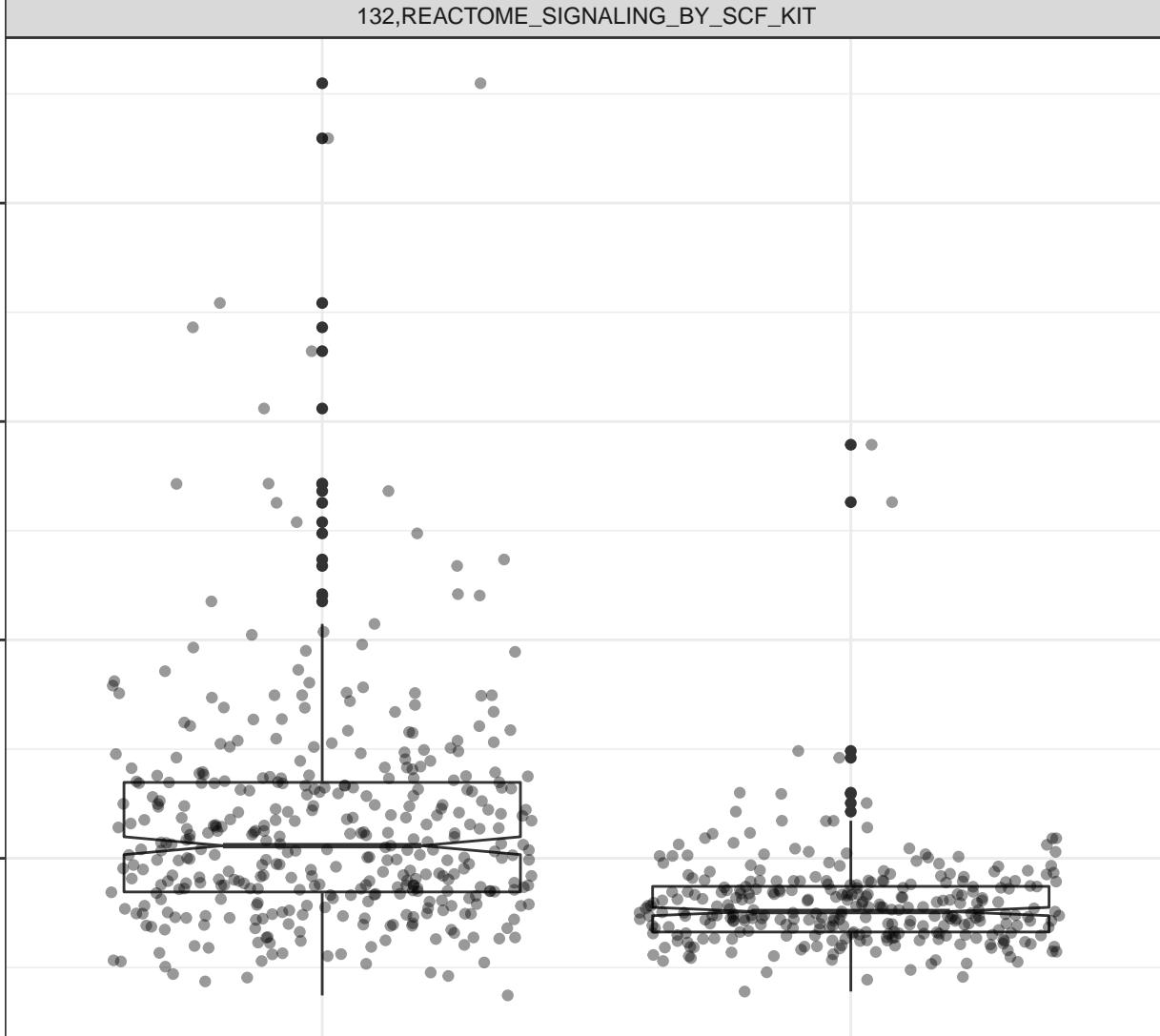
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



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

Value

0.10

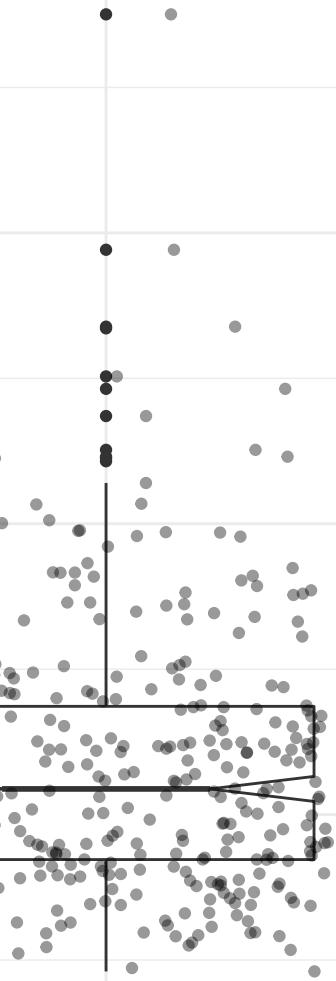
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



134,REACTOME\_DIABETES\_PATHWAYS

Value

0.15

0.10

0.05

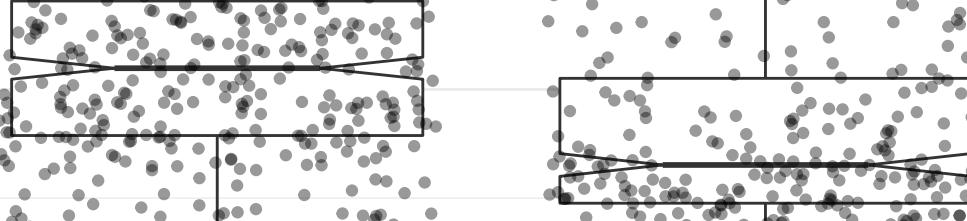
0.00

-0.05

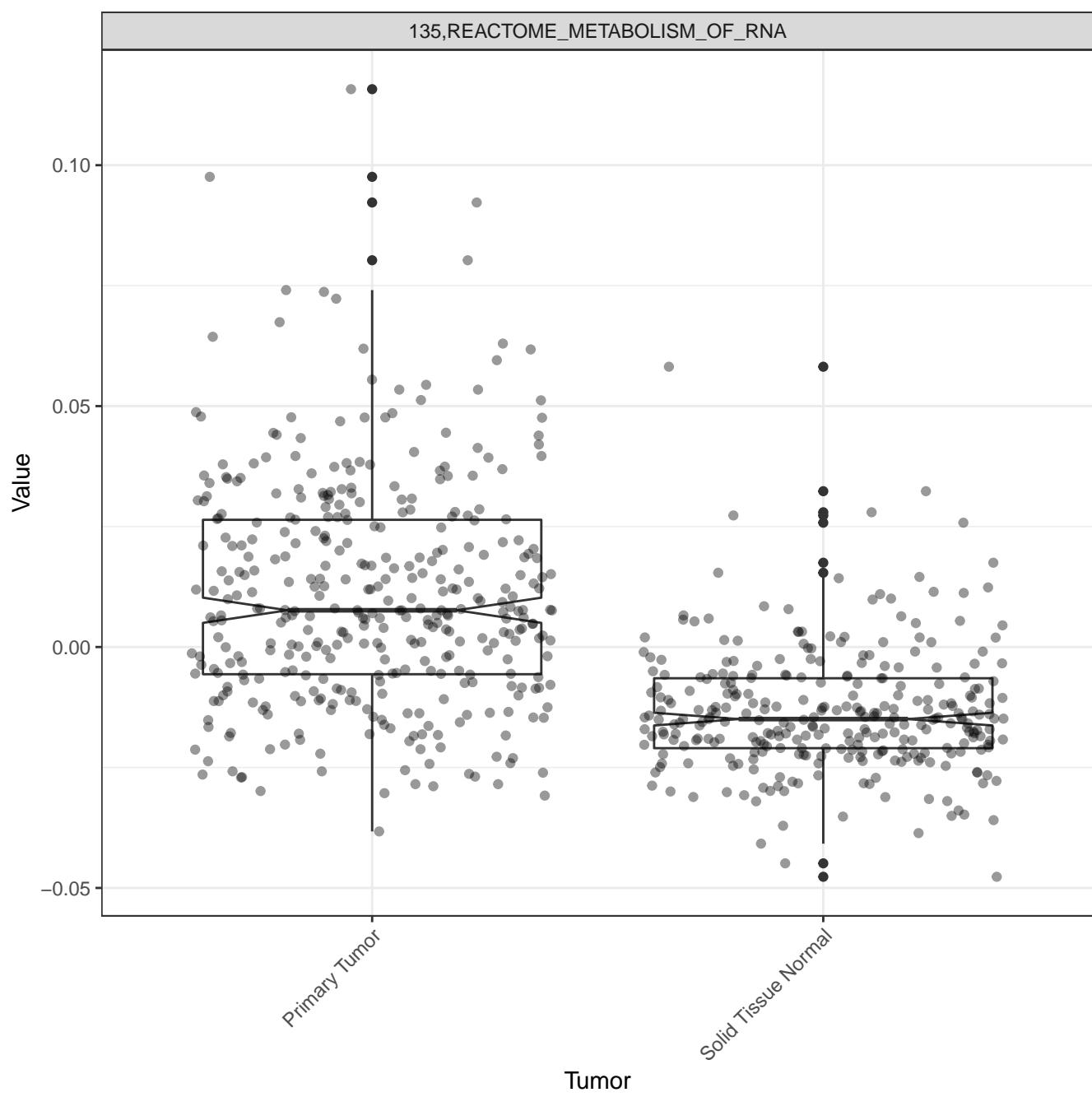
Primary Tumor

Solid Tissue Normal

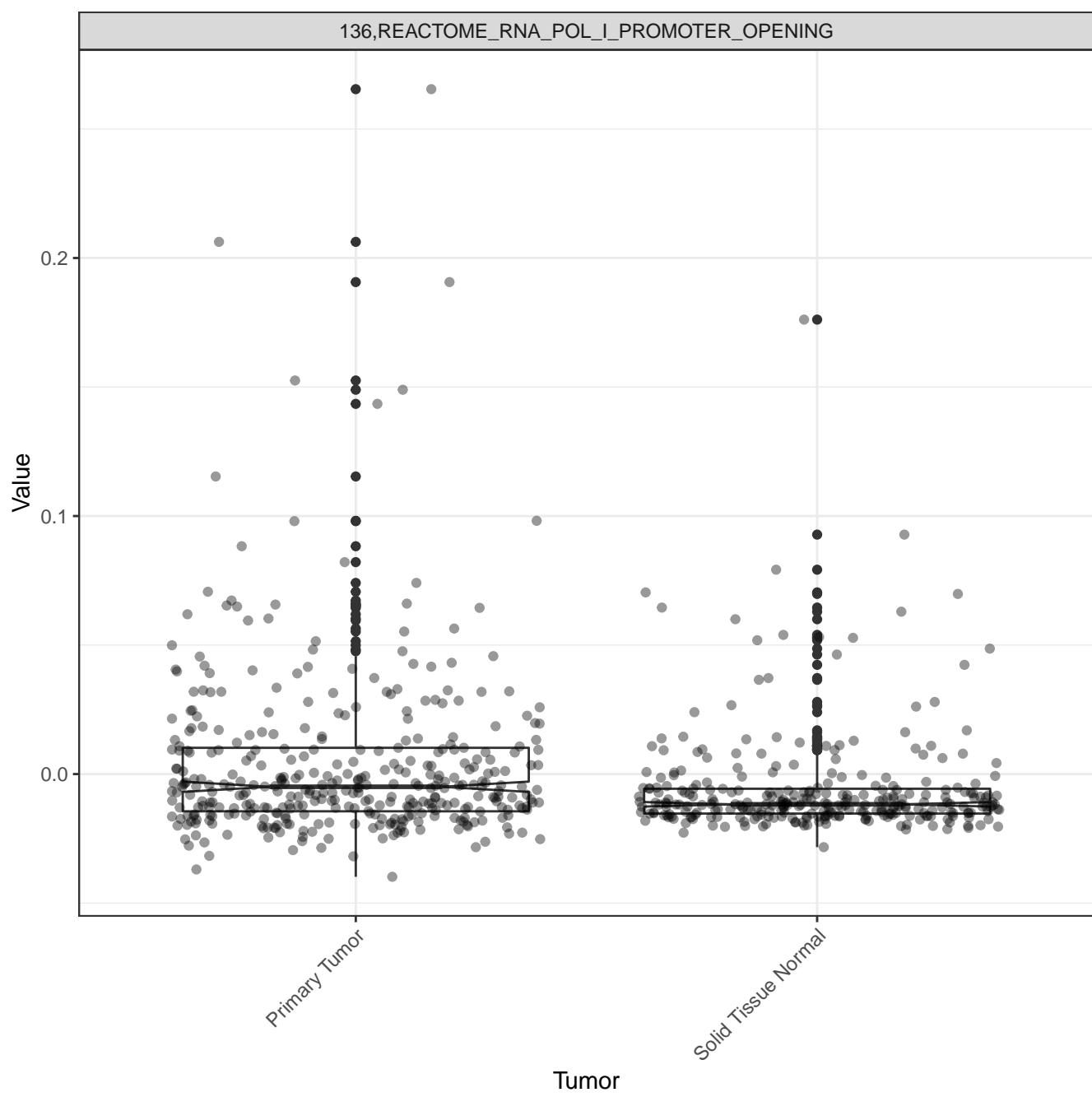
Tumor

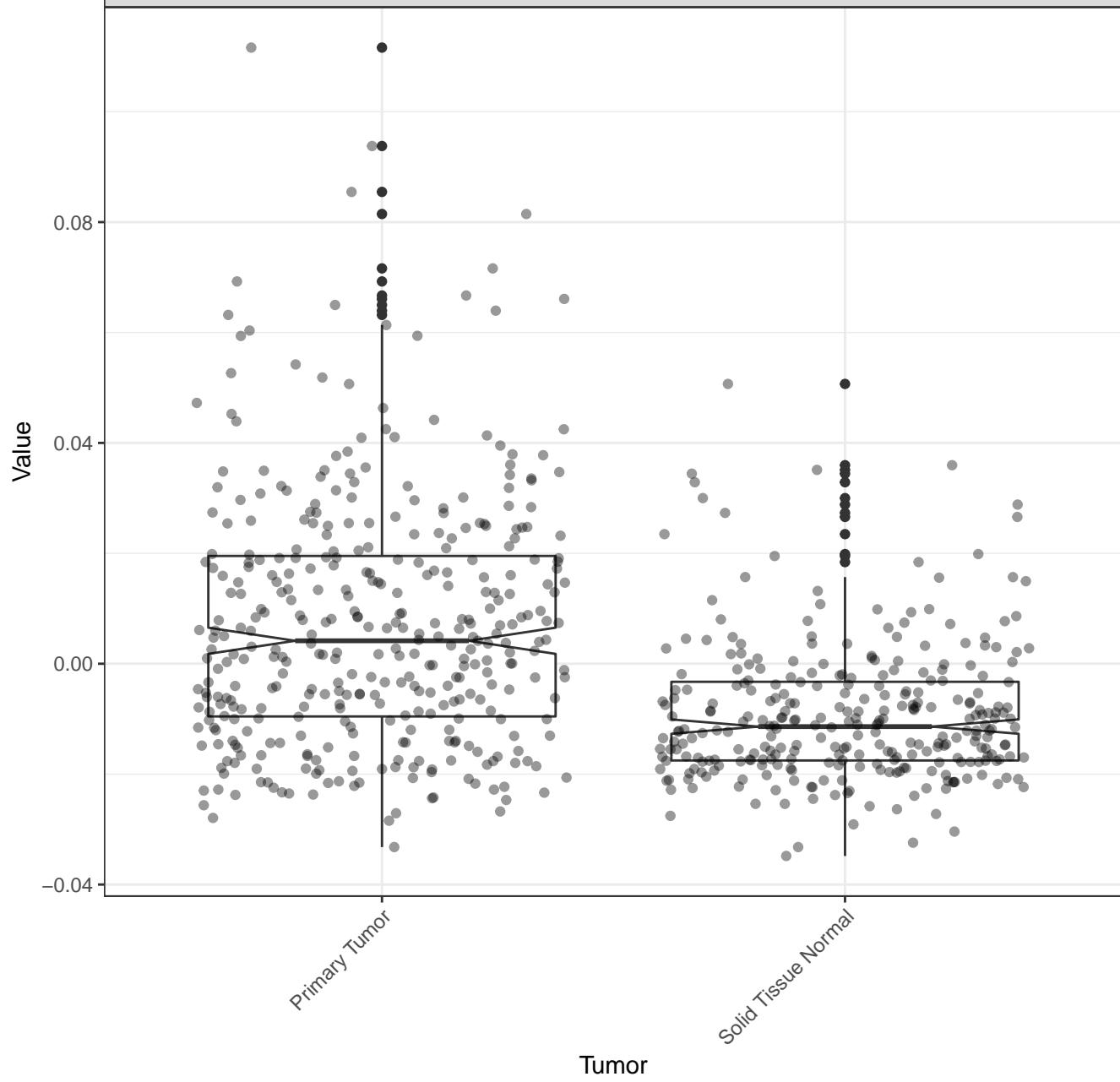


135,REACTOME\_METABOLISM\_OF\_RNA



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





Value

0.15

0.10

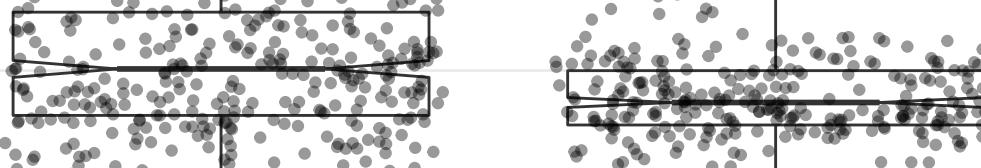
0.05

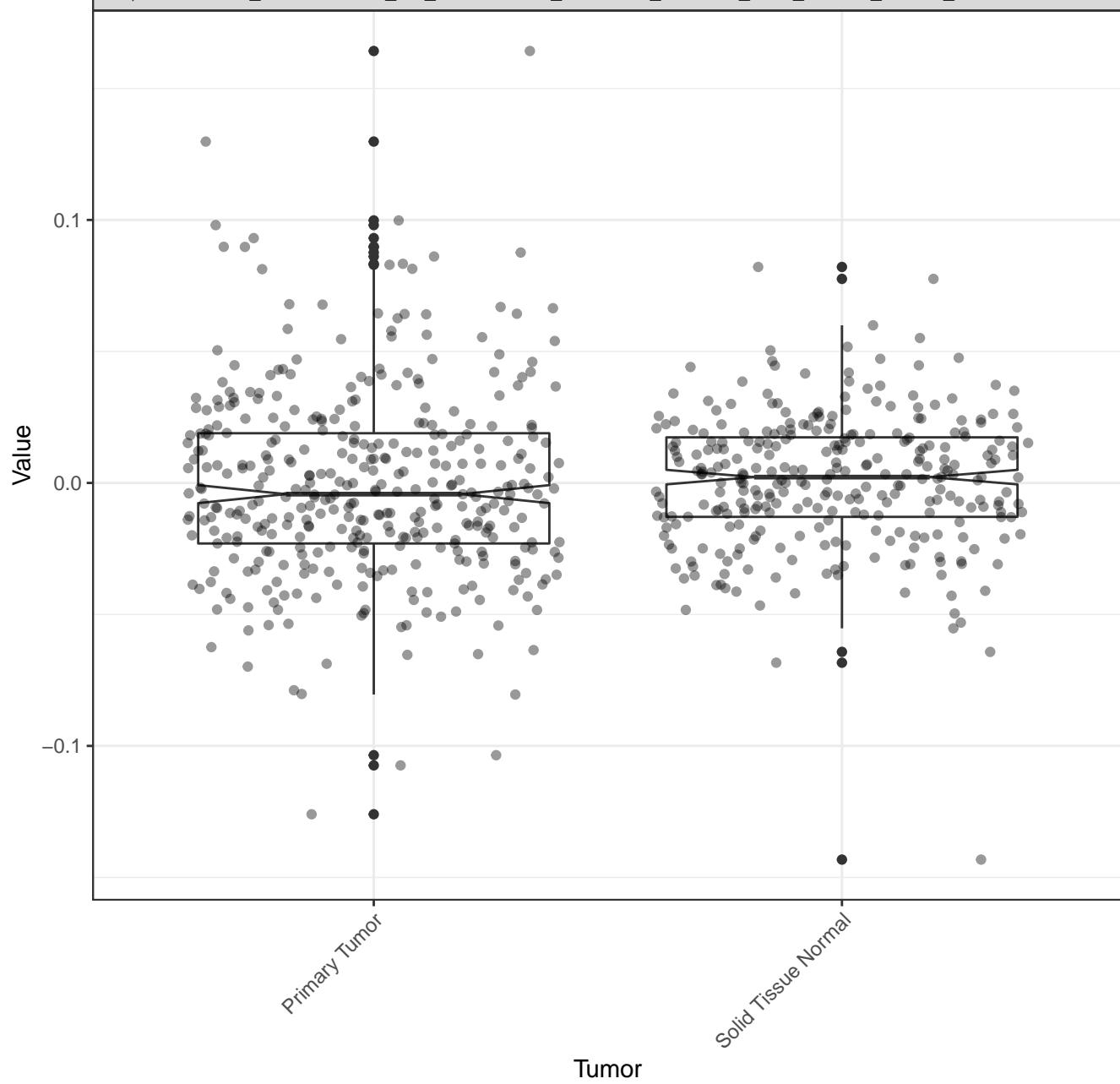
0.00

Primary Tumor

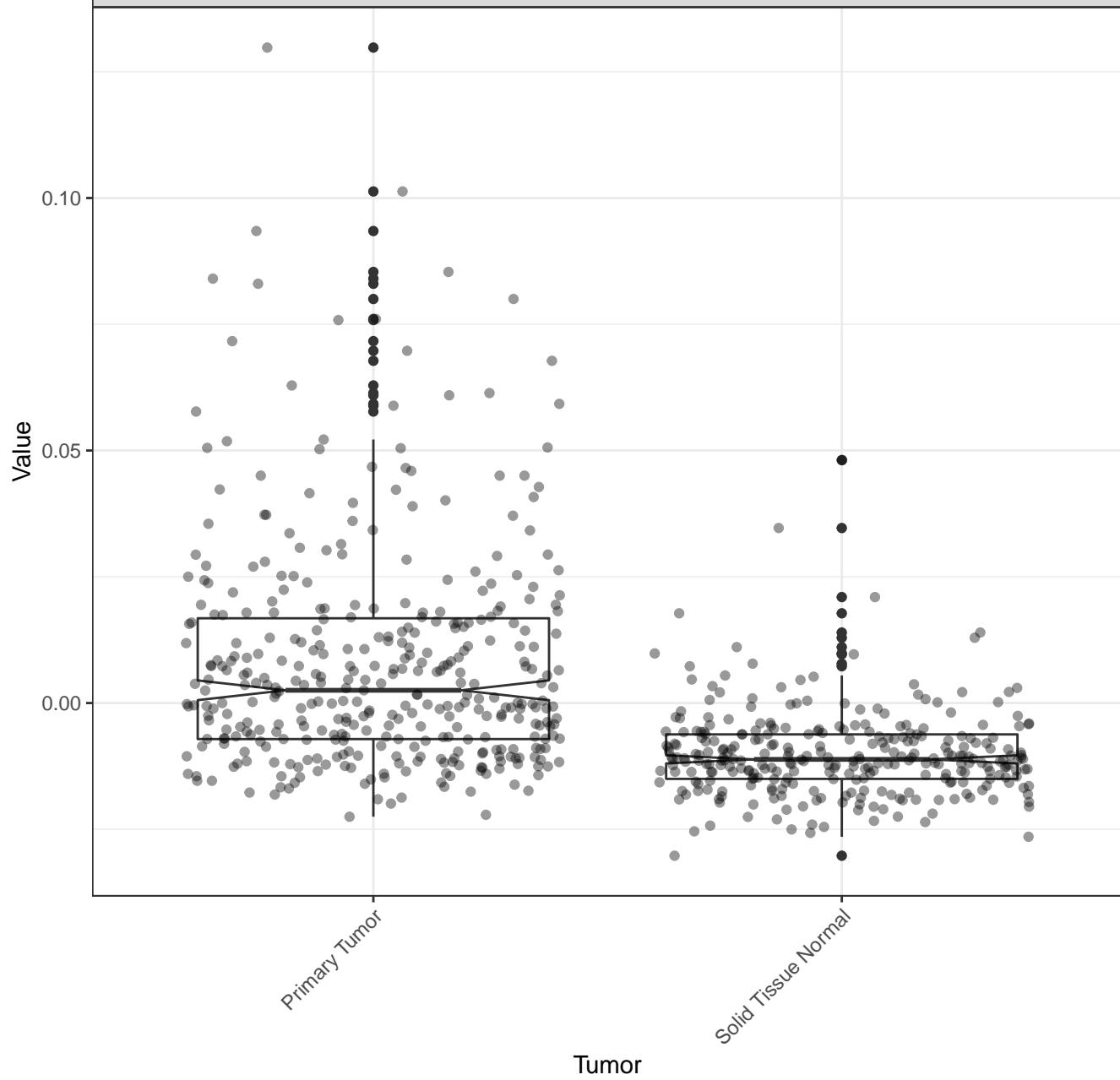
Solid Tissue Normal

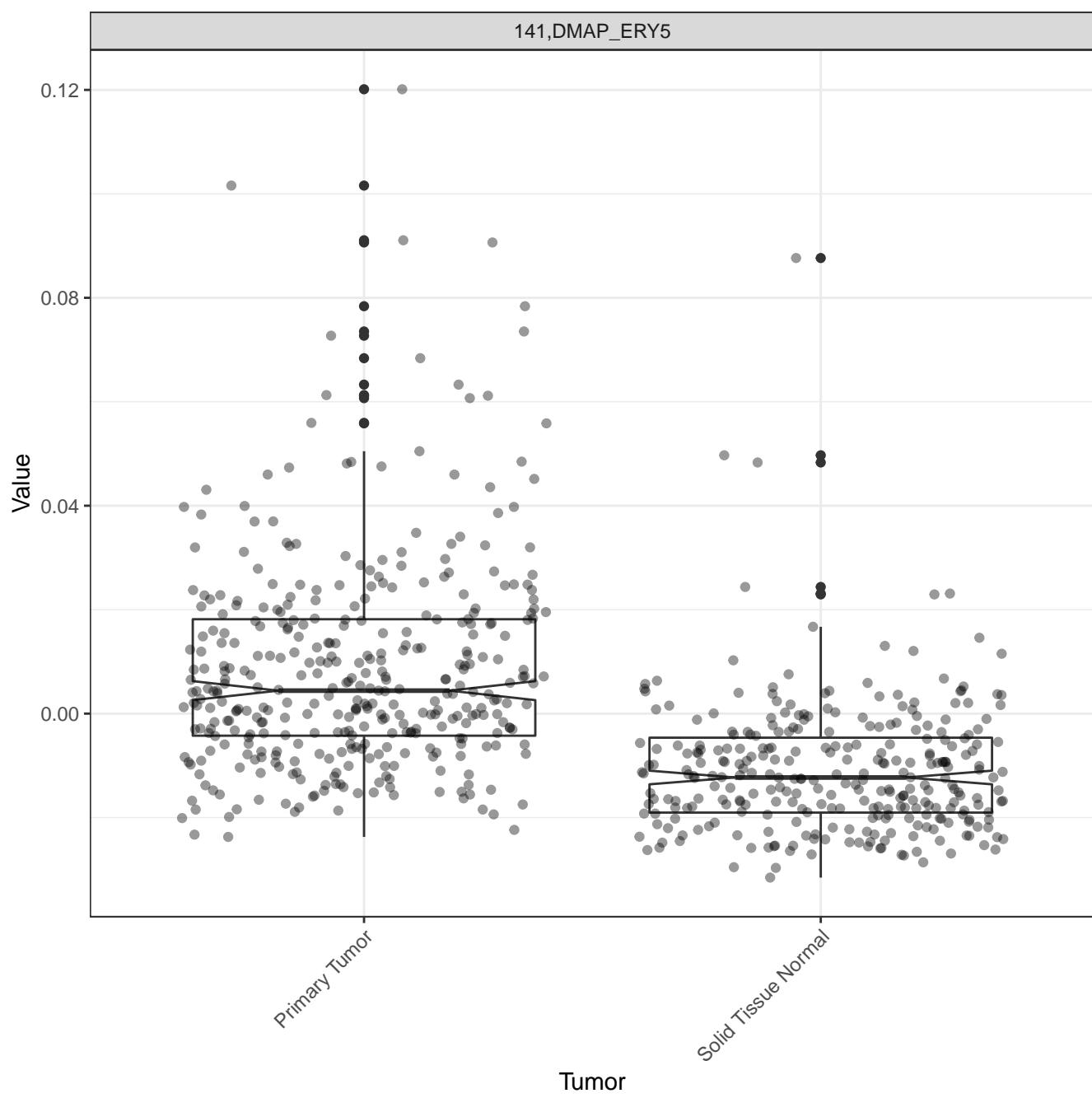
Tumor





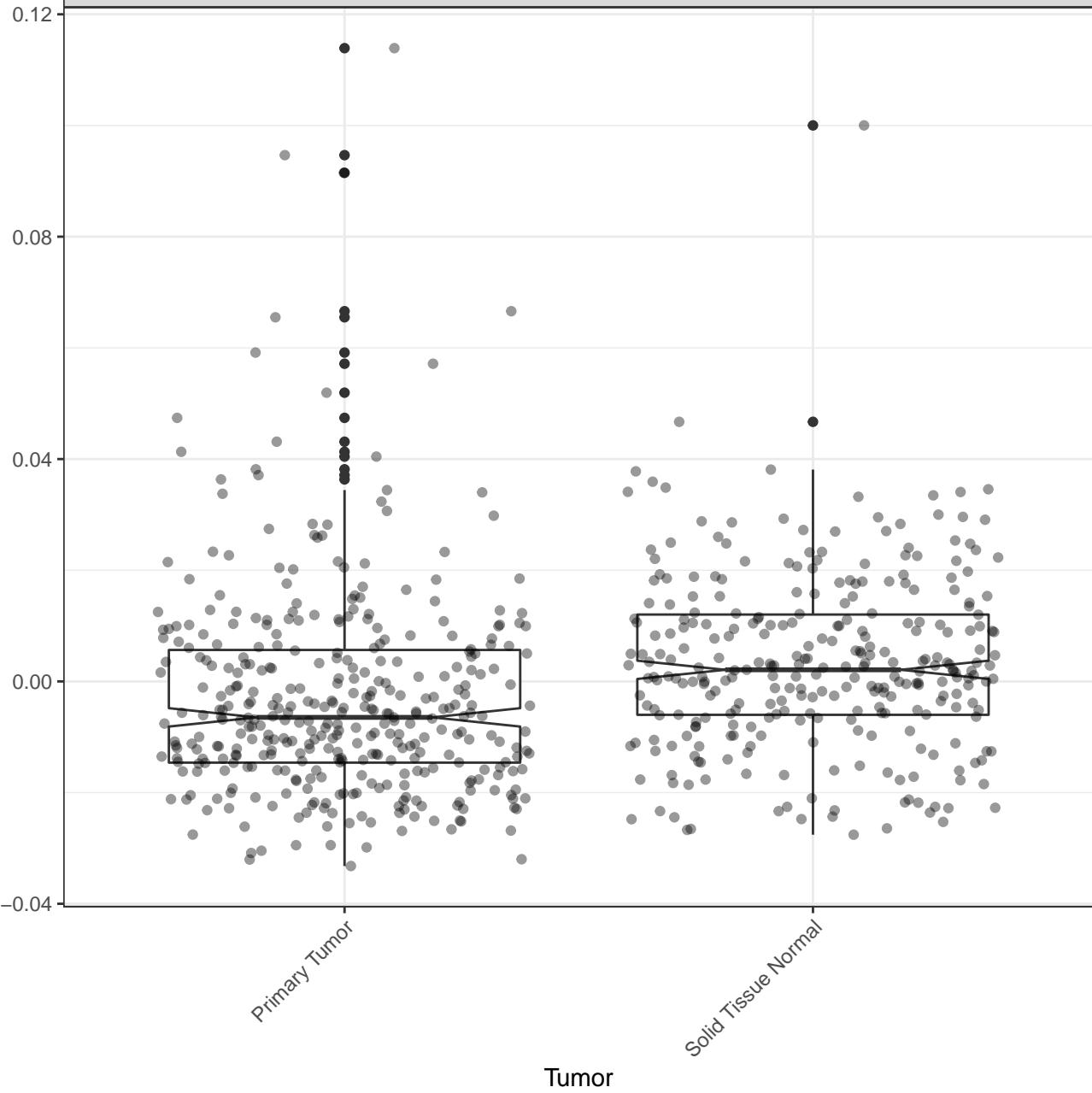
# 140,REACTOME\_INSULIN\_RECECTOR\_SIGNALLING CASCADE





LV 142

Value



### 143,KEGG\_UBIQUITIN\_MEDiated\_PROTEOLYSIS

Value

0.10

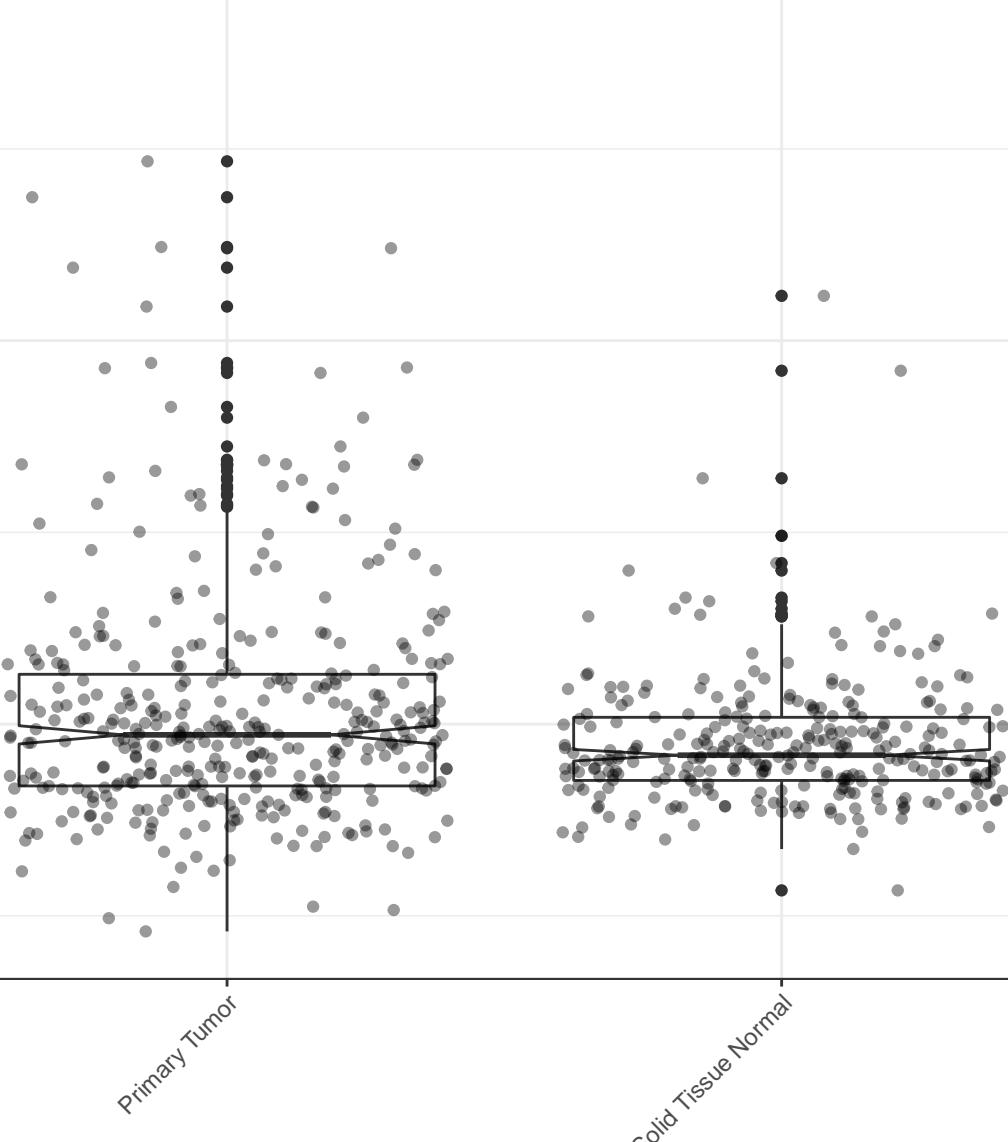
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



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

Value

0.10

0.05

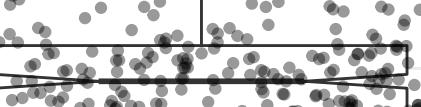
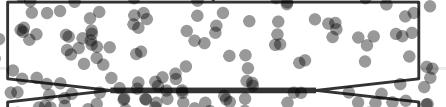
0.00

-0.05

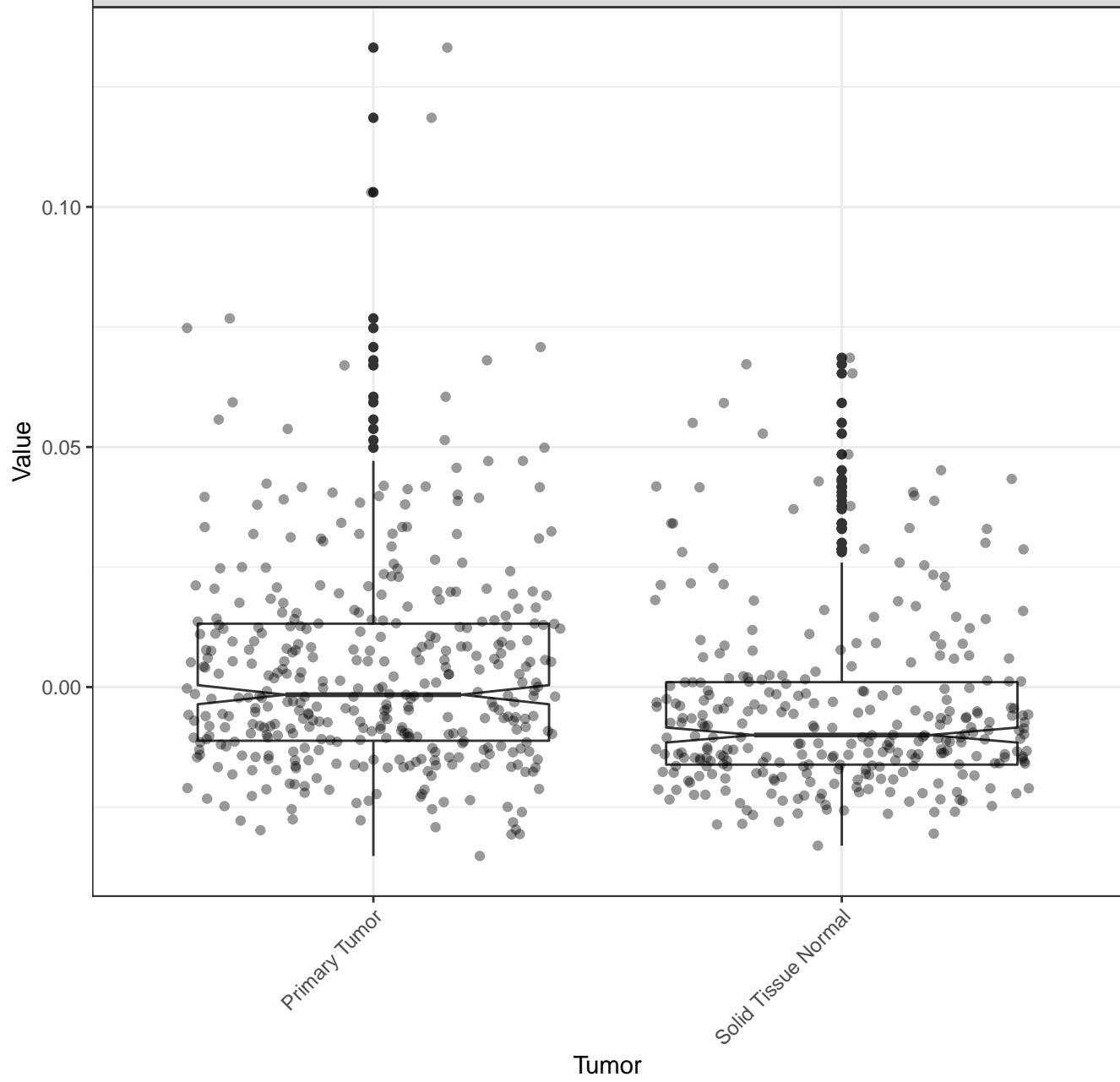
Primary Tumor

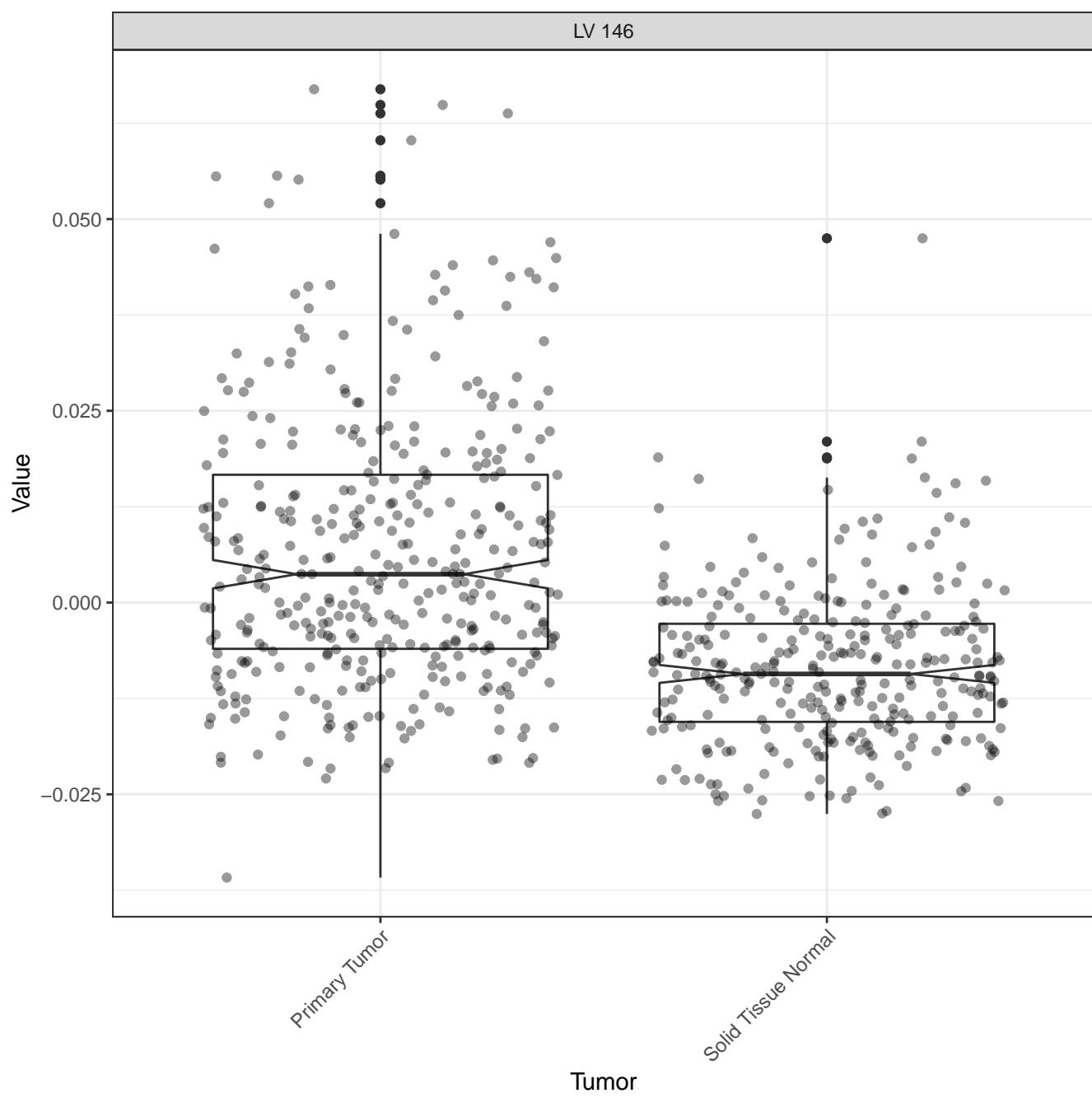
Solid Tissue Normal

Tumor

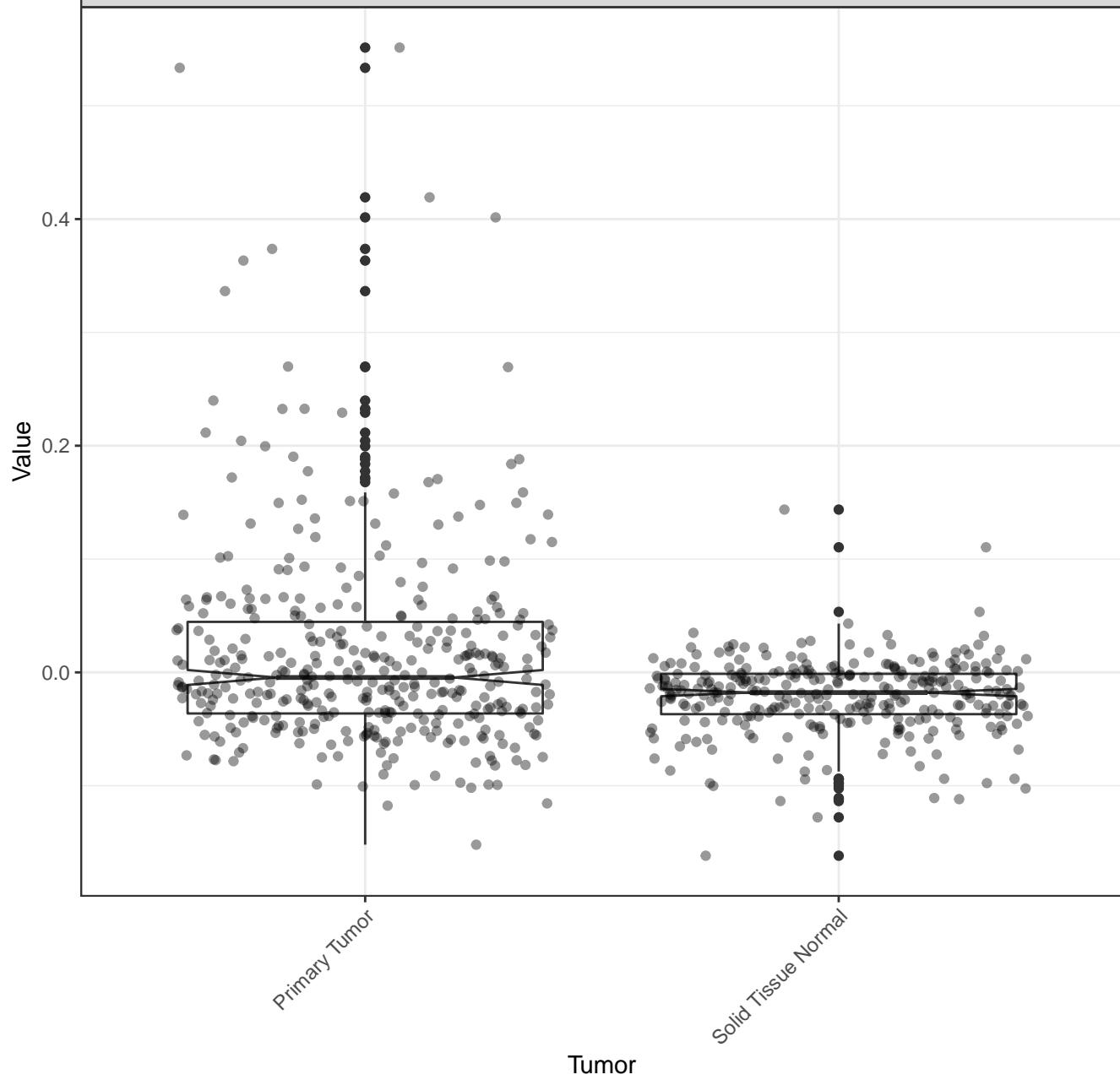


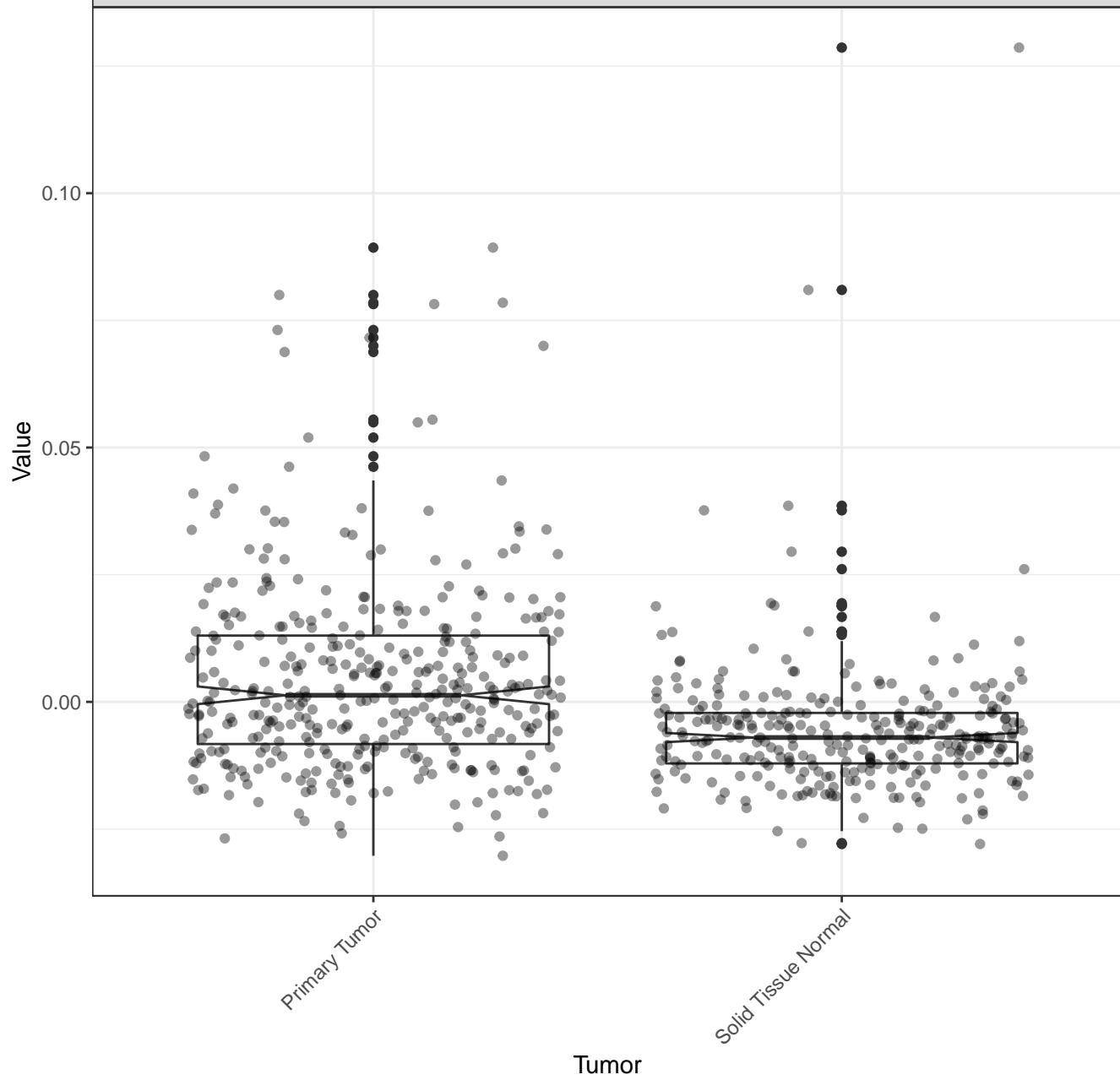
## 145,REACTOME\_SIGNALING\_BY\_ILS

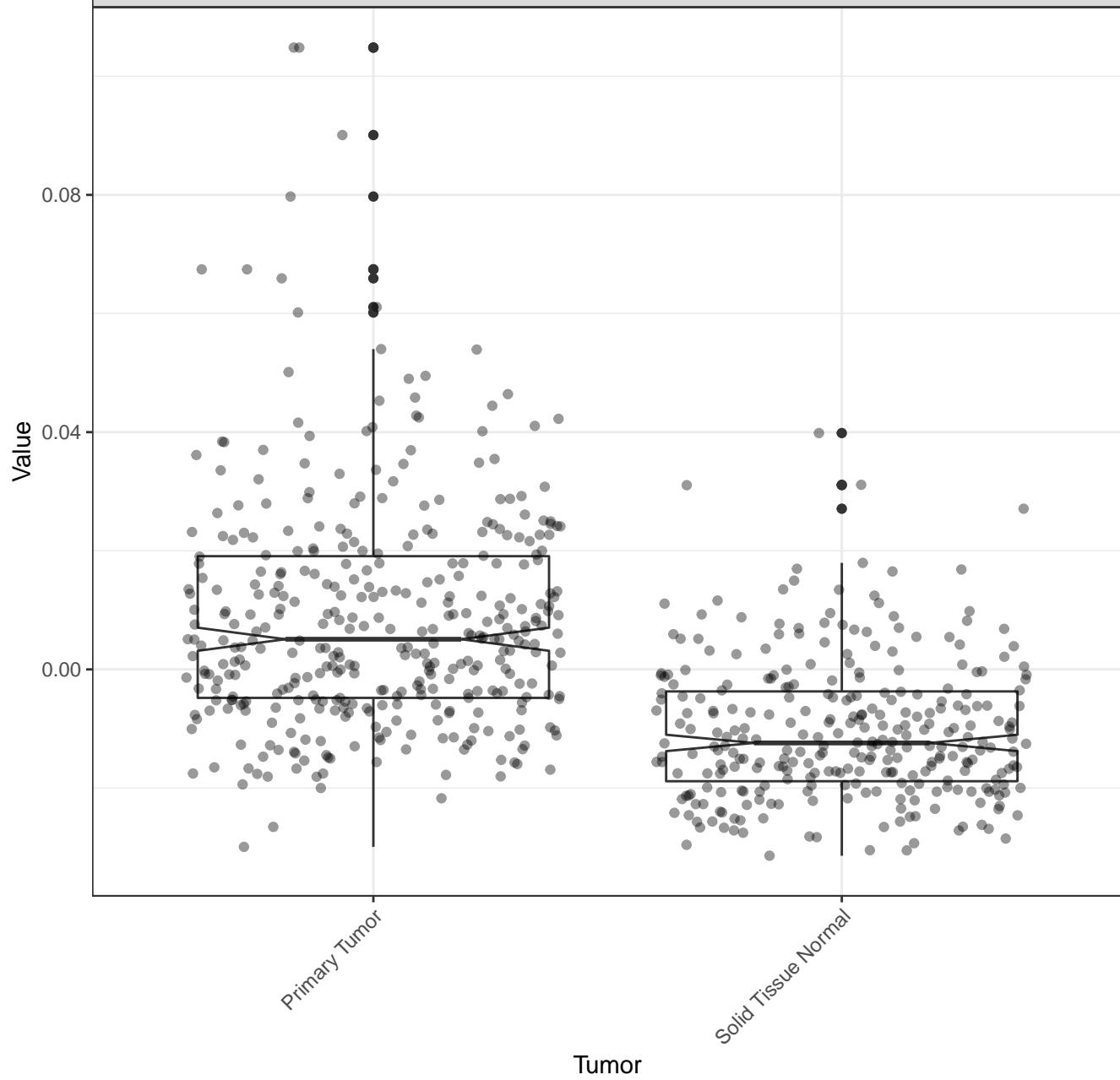




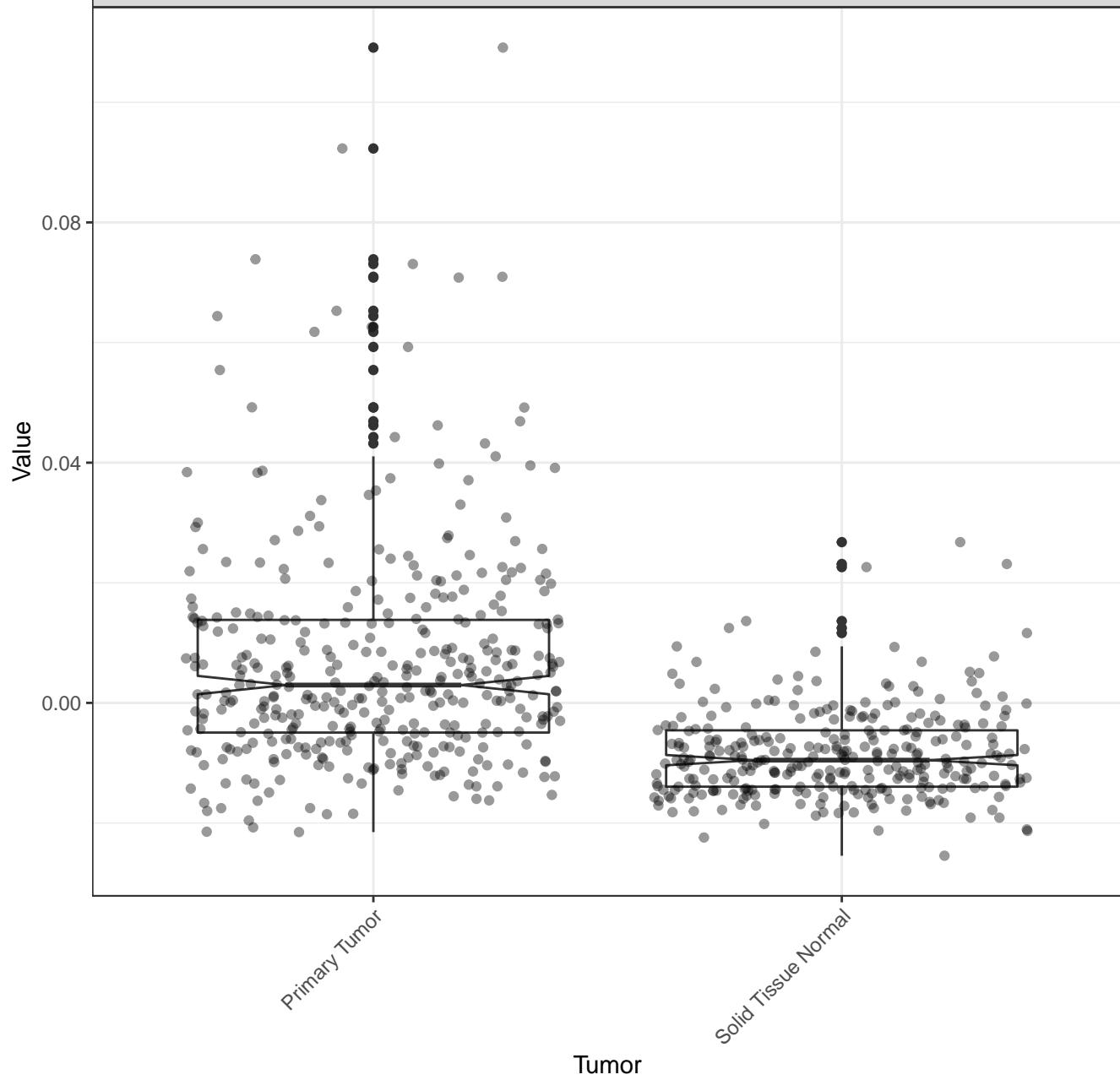
## 147,PID\_AURORA\_B\_PATHWAY







## 150,REACTOME\_IMMUNE\_SYSTEM



## 151,IRIS\_Monocyte–Day1

Value

0.10

0.05

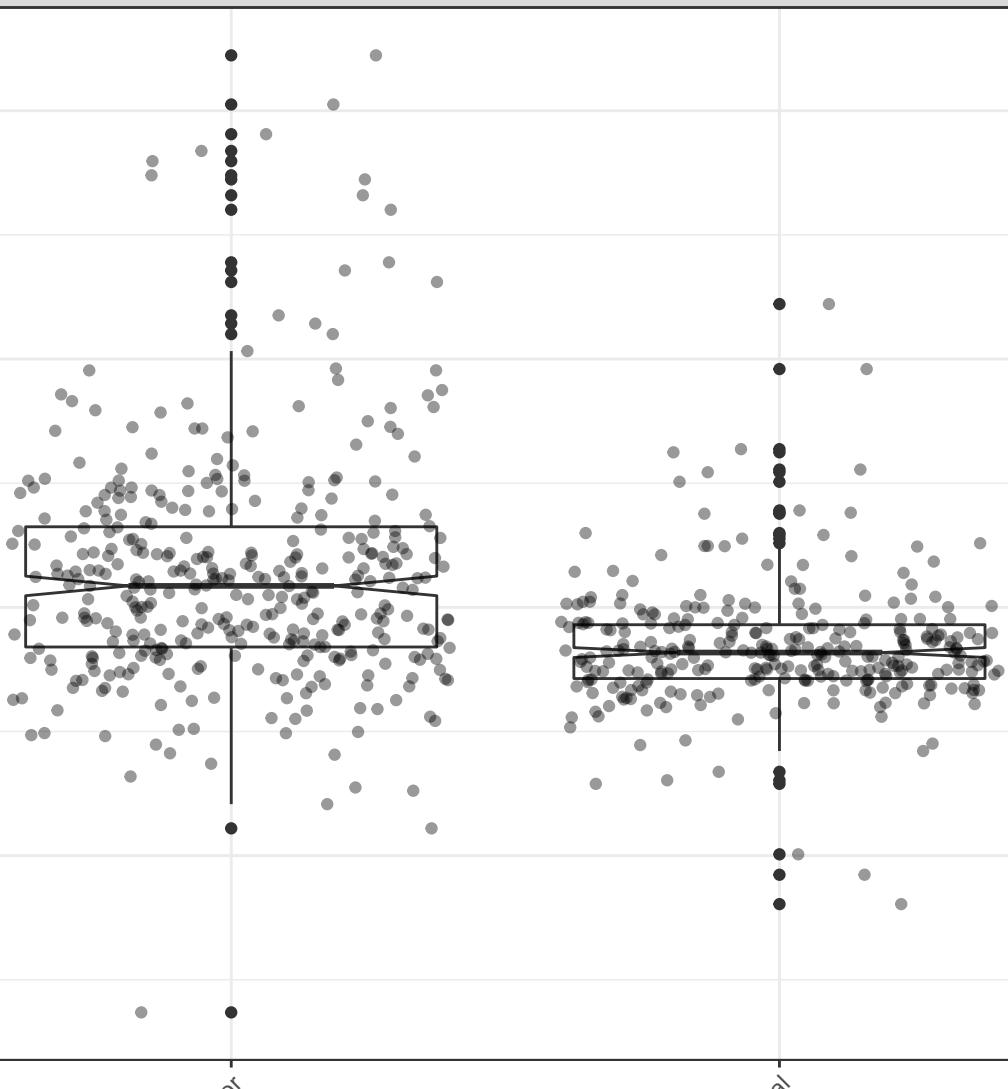
0.00

-0.05

Primary Tumor

Solid Tissue Normal

Tumor



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

Value

0.6

0.4

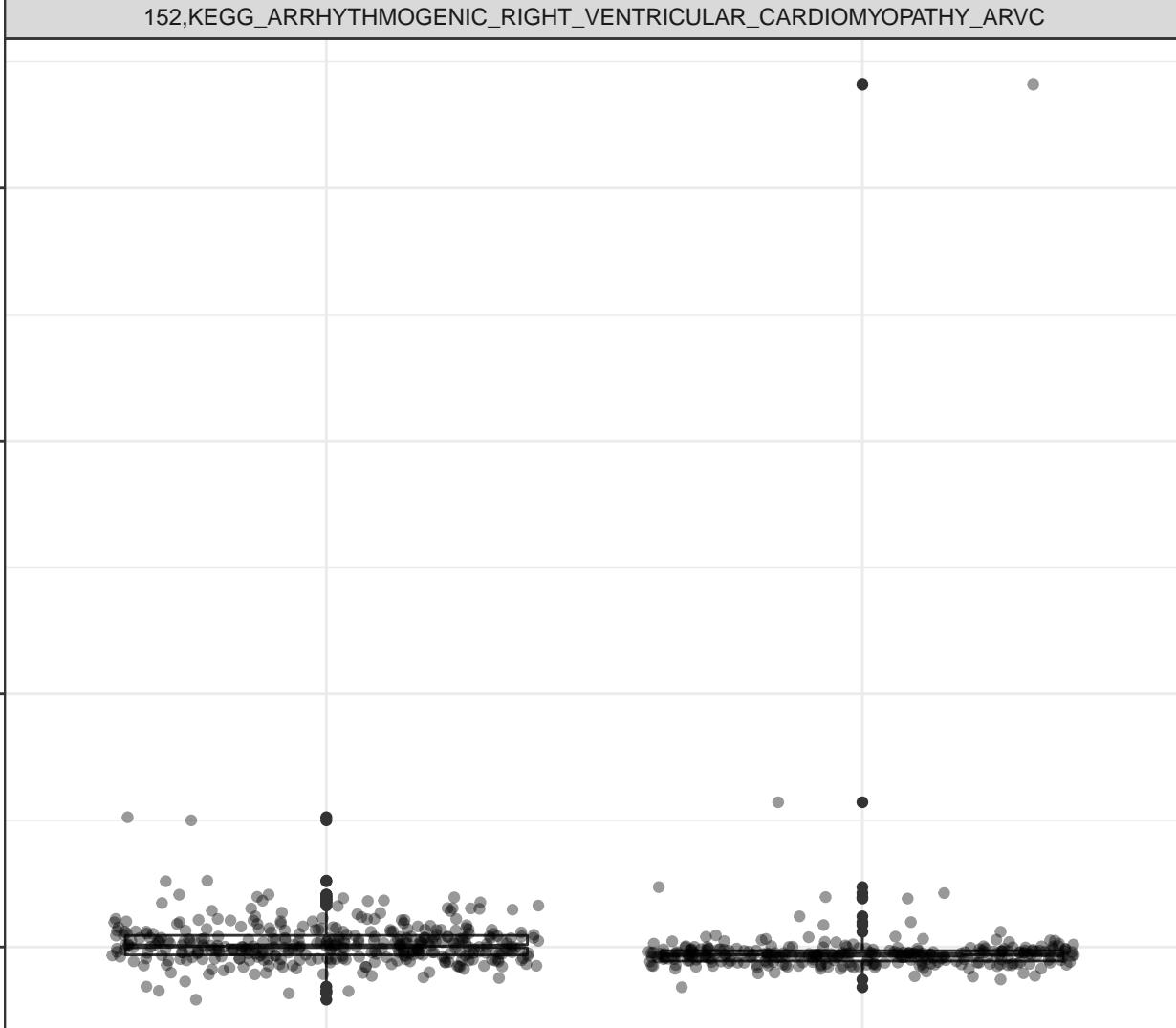
0.2

0.0

Primary Tumor

Solid Tissue Normal

Tumor



LV 153

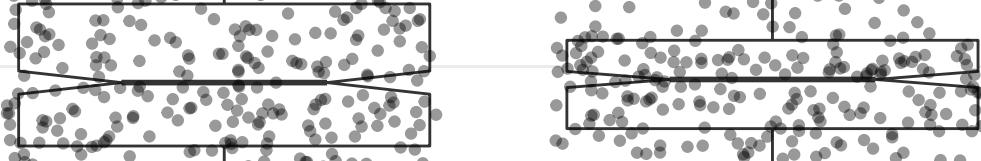
Value

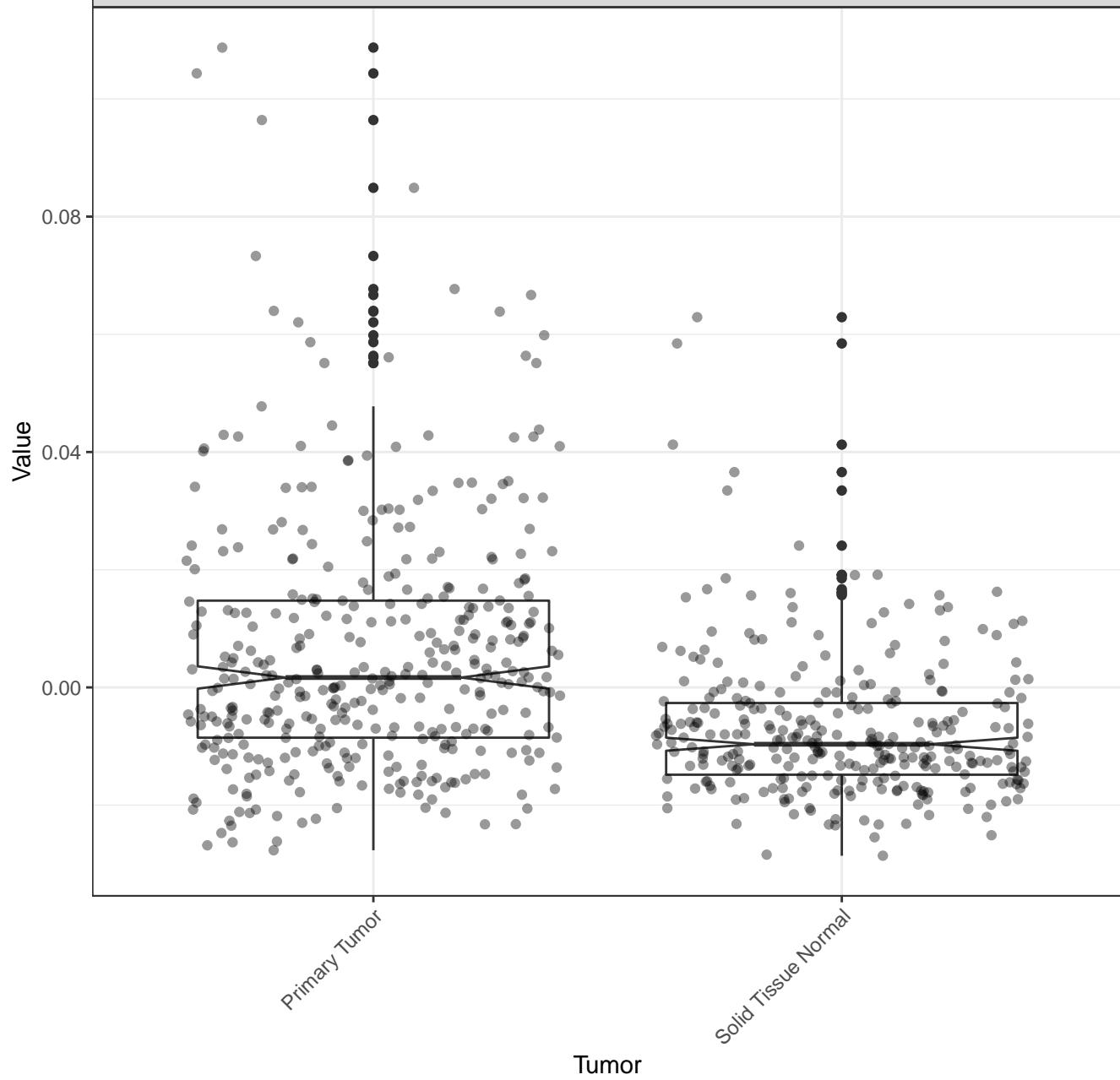
0.15  
0.10  
0.05  
0.00  
-0.05

Primary Tumor

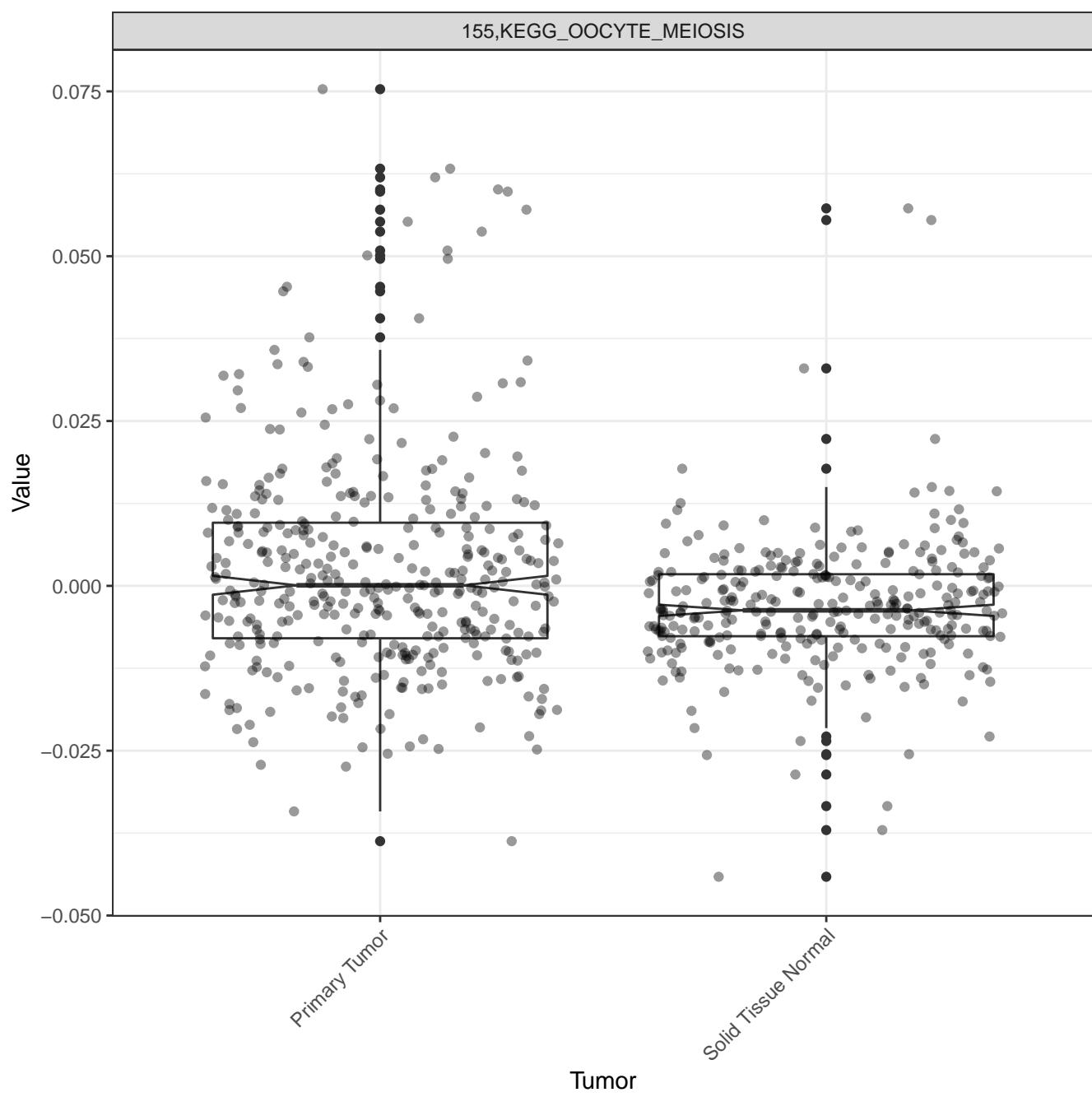
Solid Tissue Normal

Tumor





## 155,KEGG\_OOCYTE\_MEIOSIS



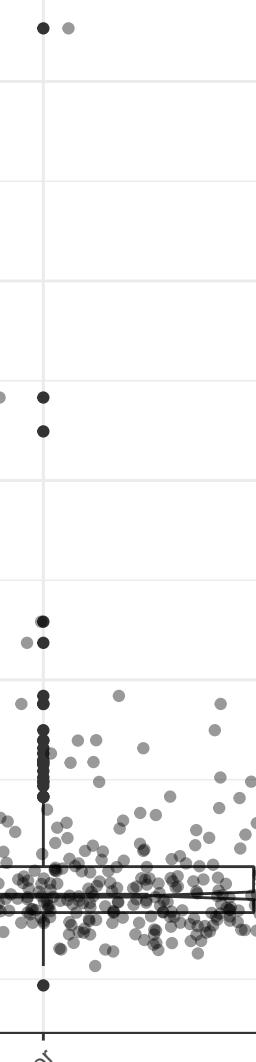
Value

0.4  
0.3  
0.2  
0.1  
0.0

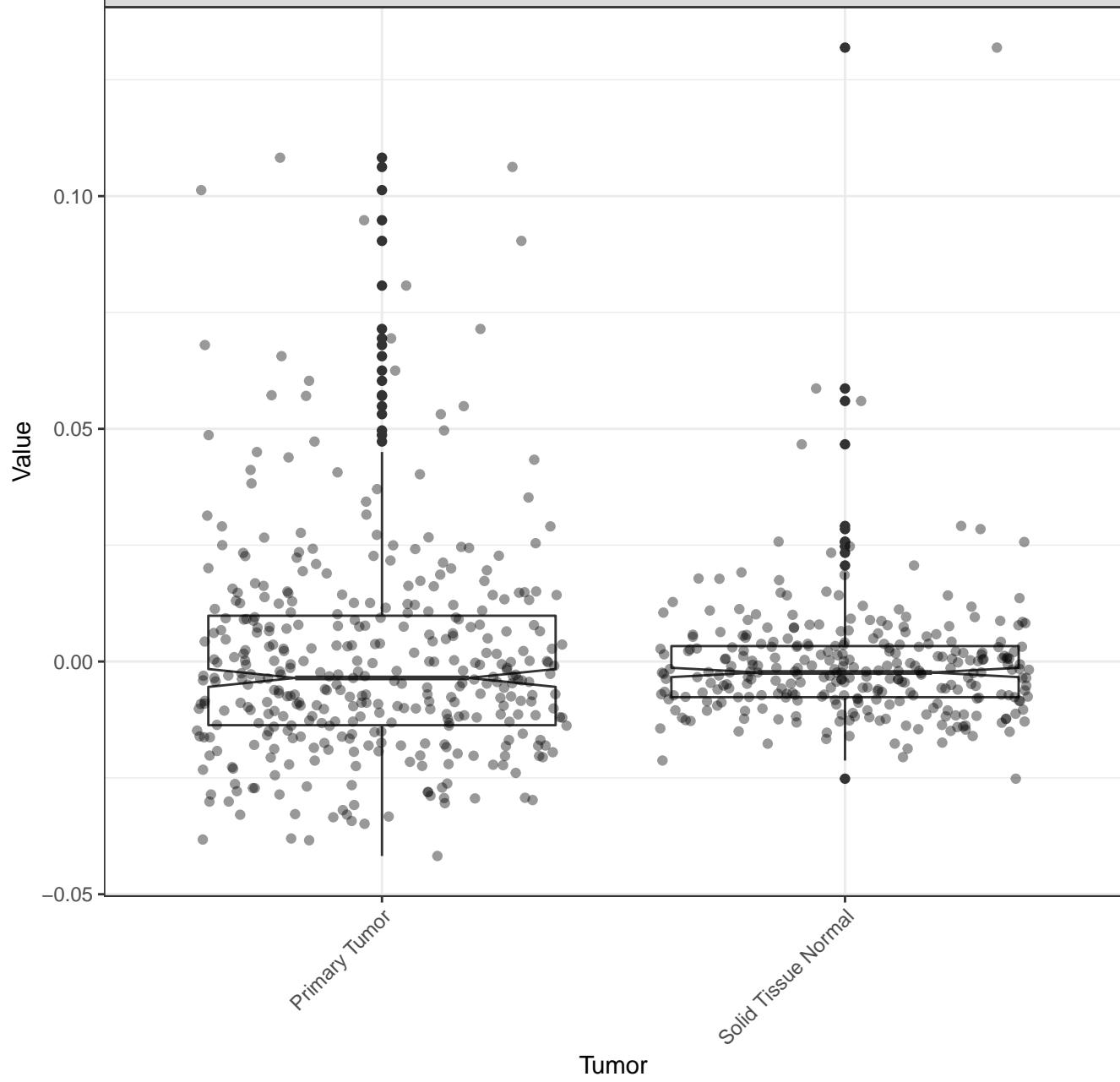
Primary Tumor

Solid Tissue Normal

Tumor



## 157,PID\_HES\_HEYPATHWAY



Value

0.050

0.025

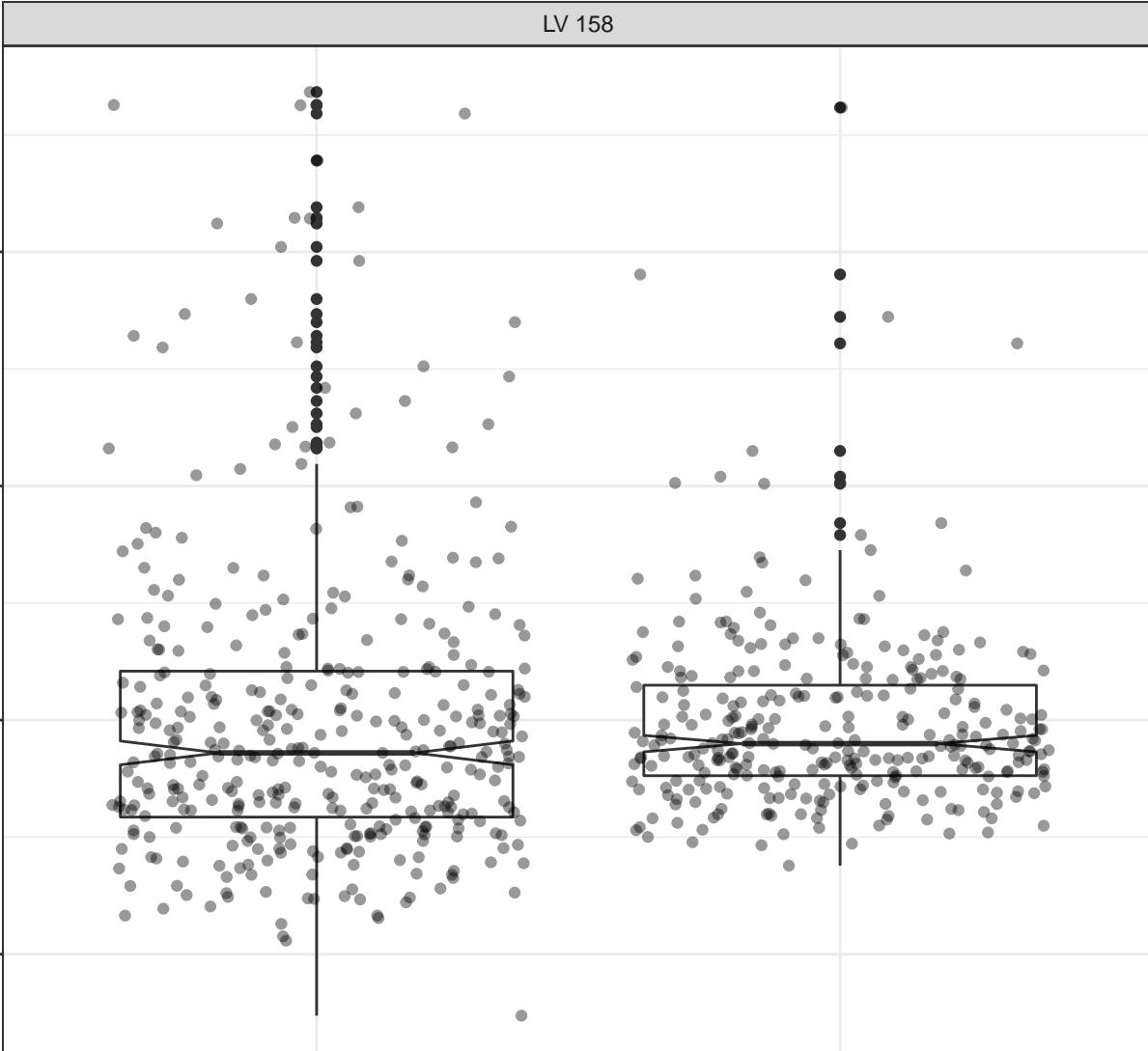
0.000

-0.025

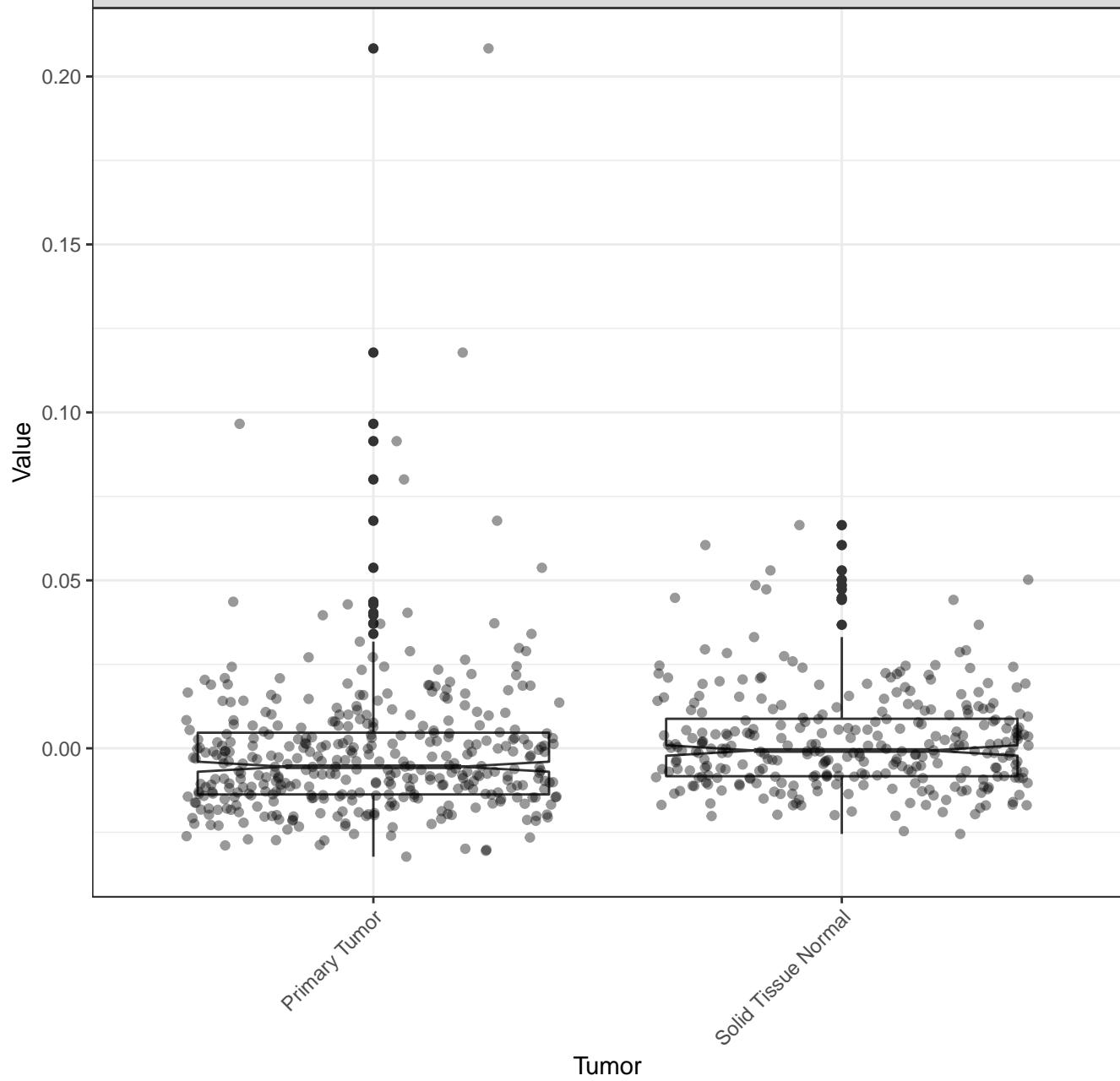
Primary Tumor

Solid Tissue Normal

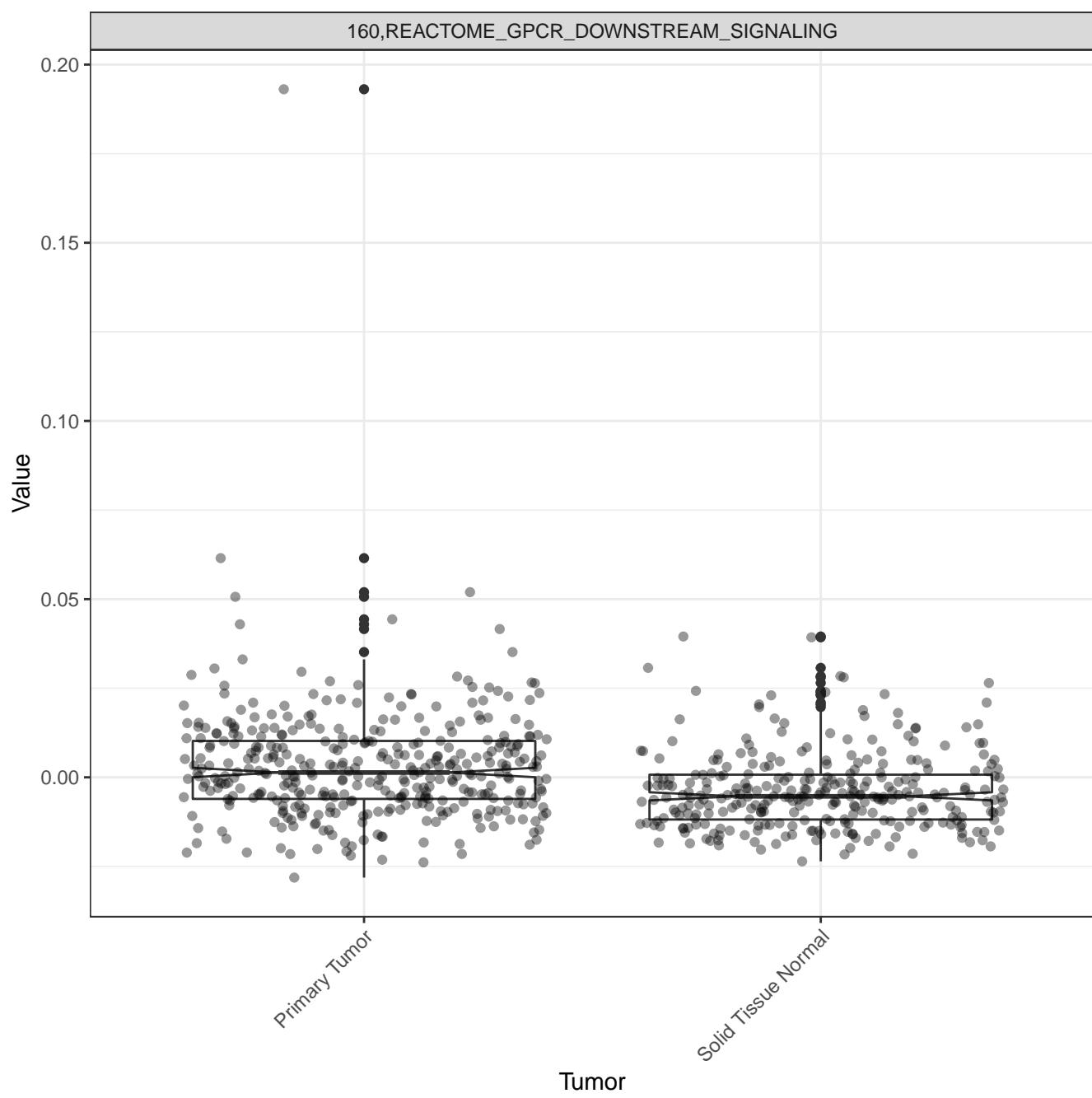
Tumor



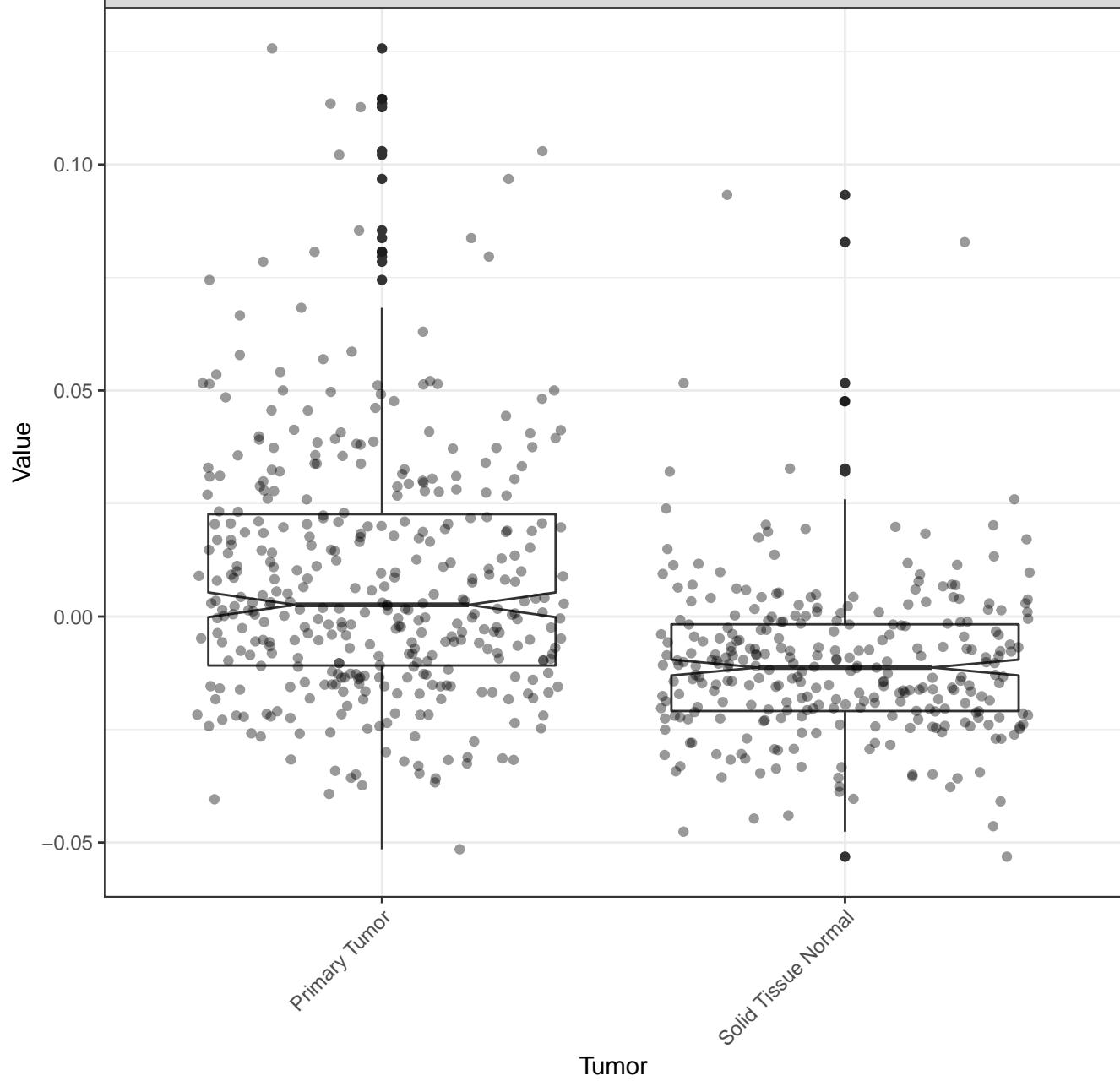
ME\_NEUROTRANSMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYN



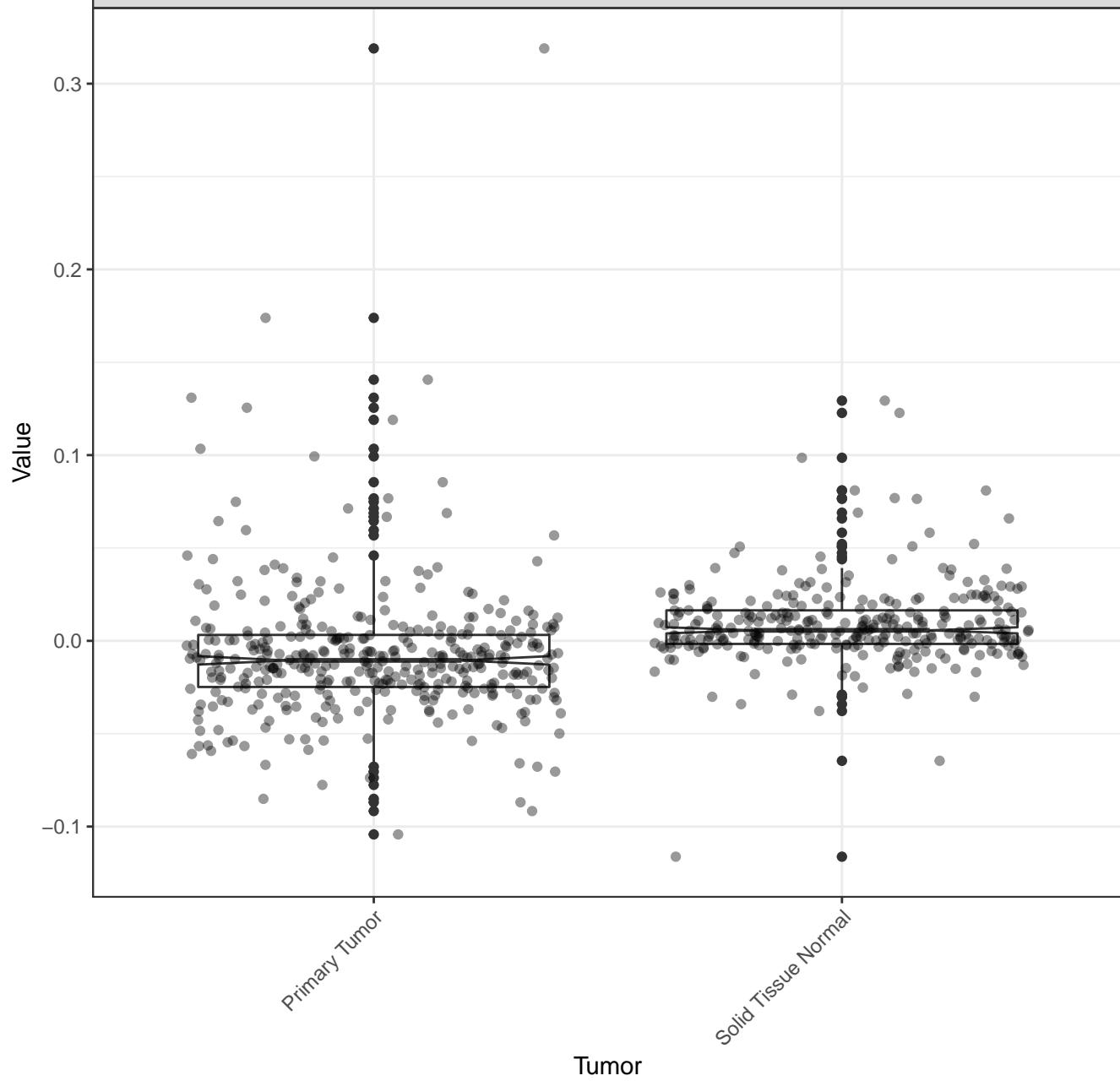
# 160,REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING



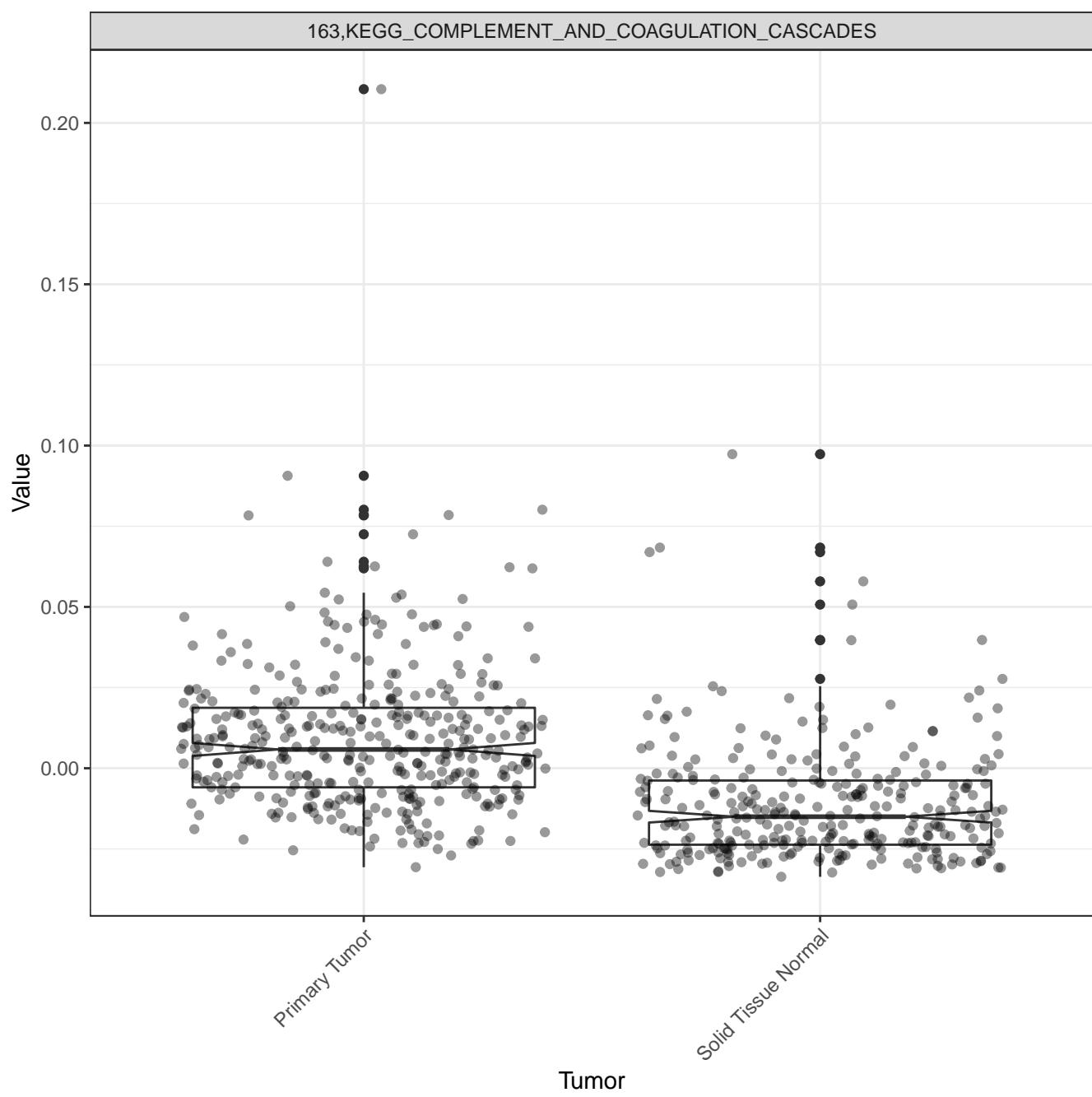
## 161,PID\_ARF6\_TRAFFICKINGPATHWAY



# 162,KEGG\_GLYCOLYSIS\_GLUCONEOGENESIS



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



Value

0.08

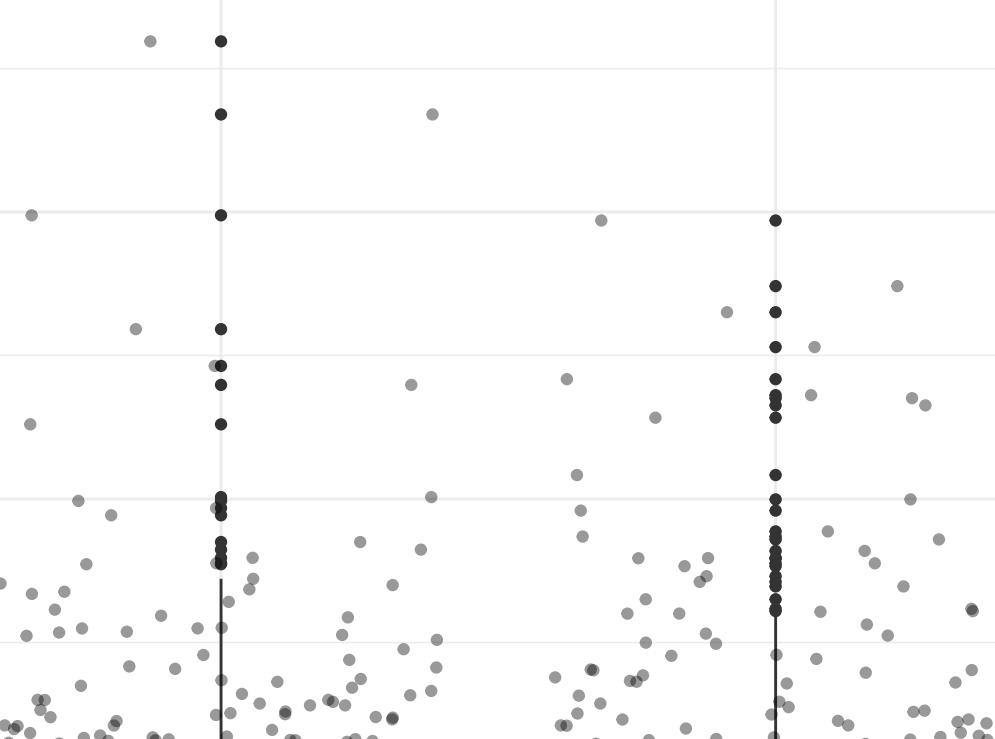
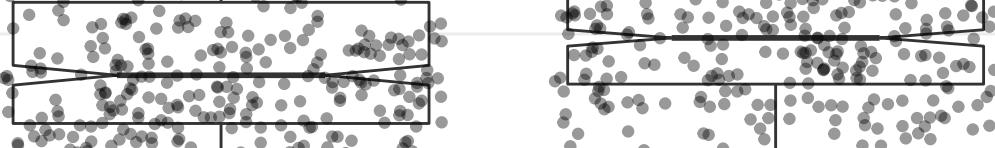
0.04

0.00

Primary Tumor

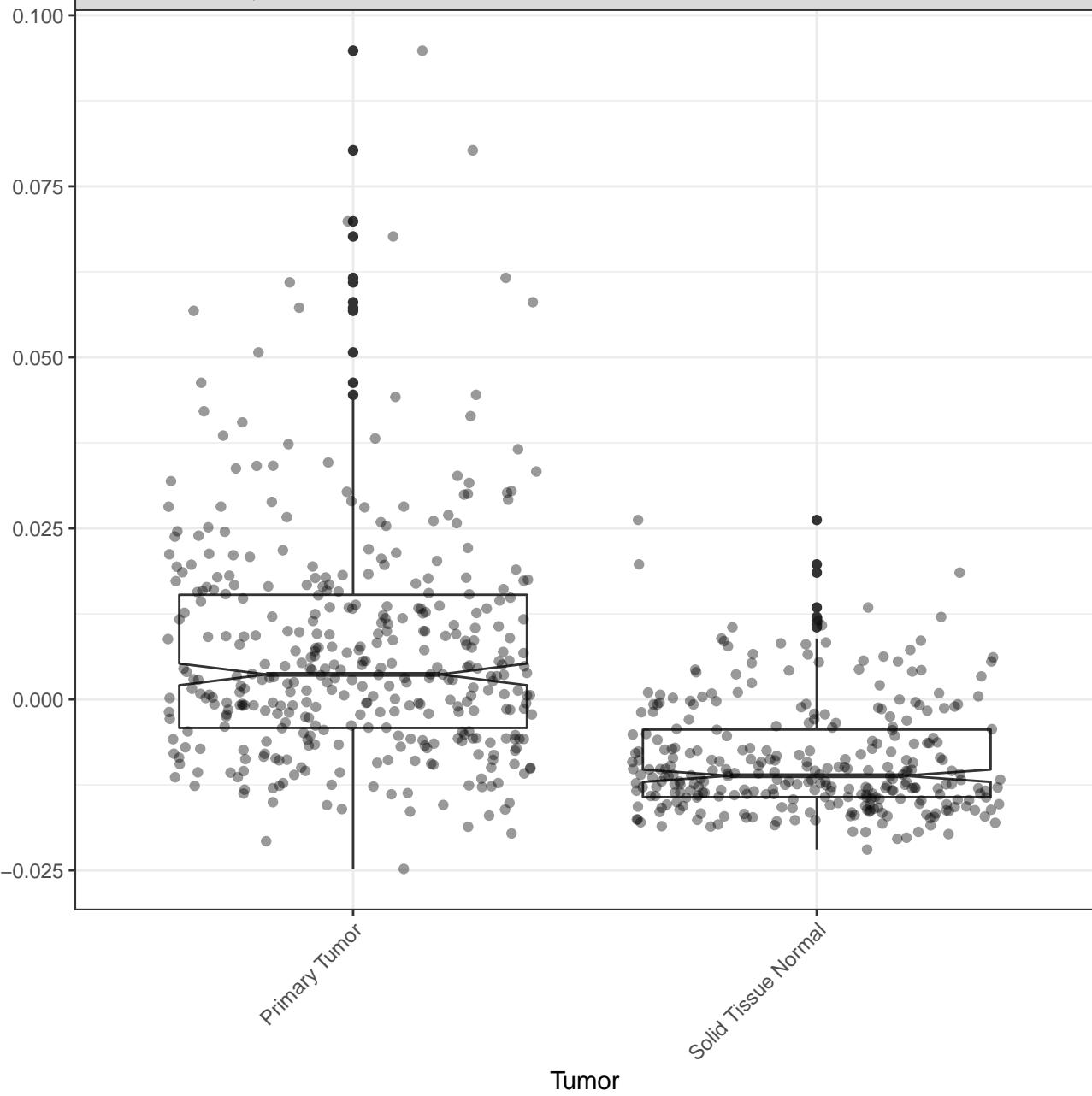
Solid Tissue Normal

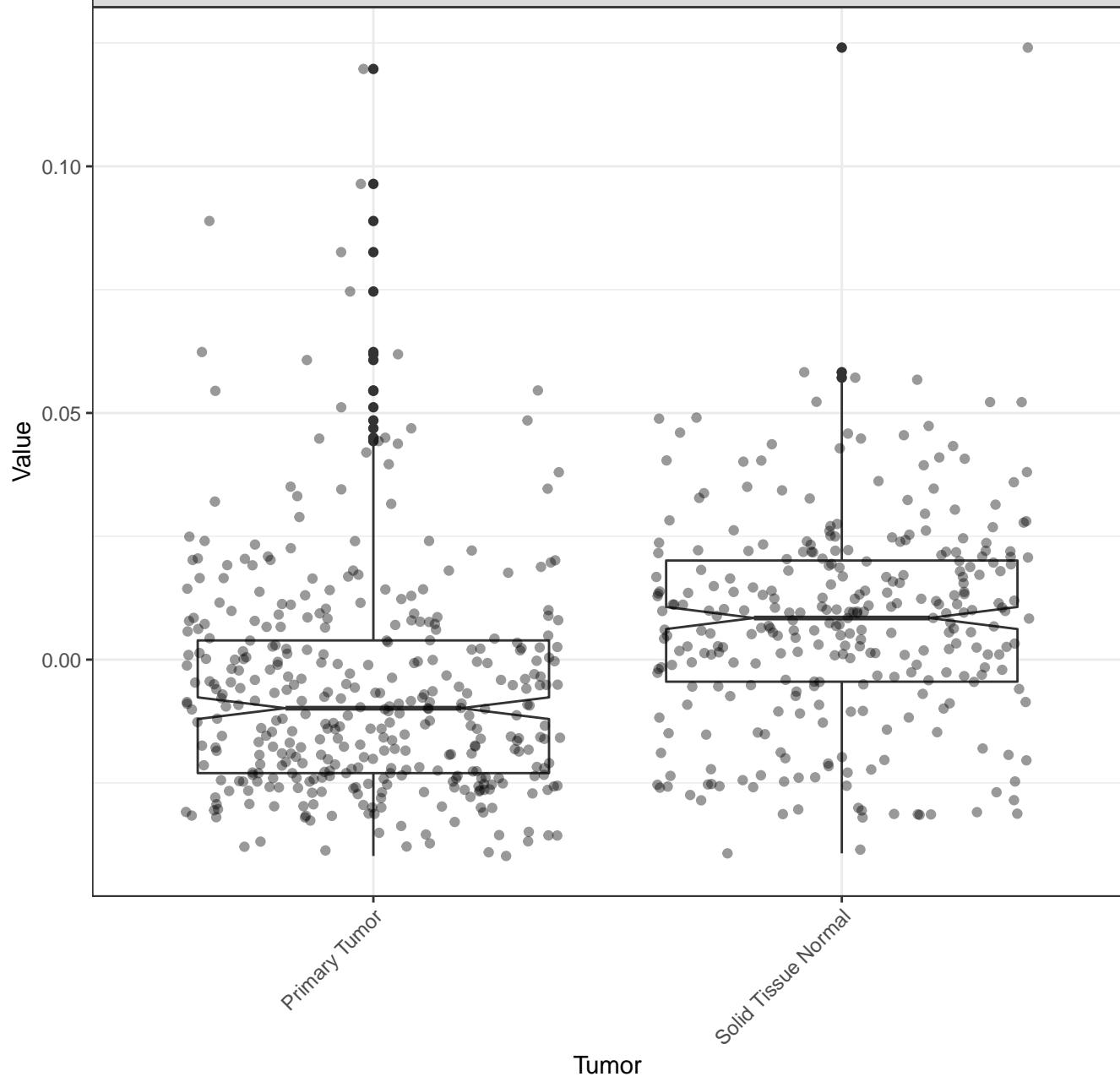
Tumor



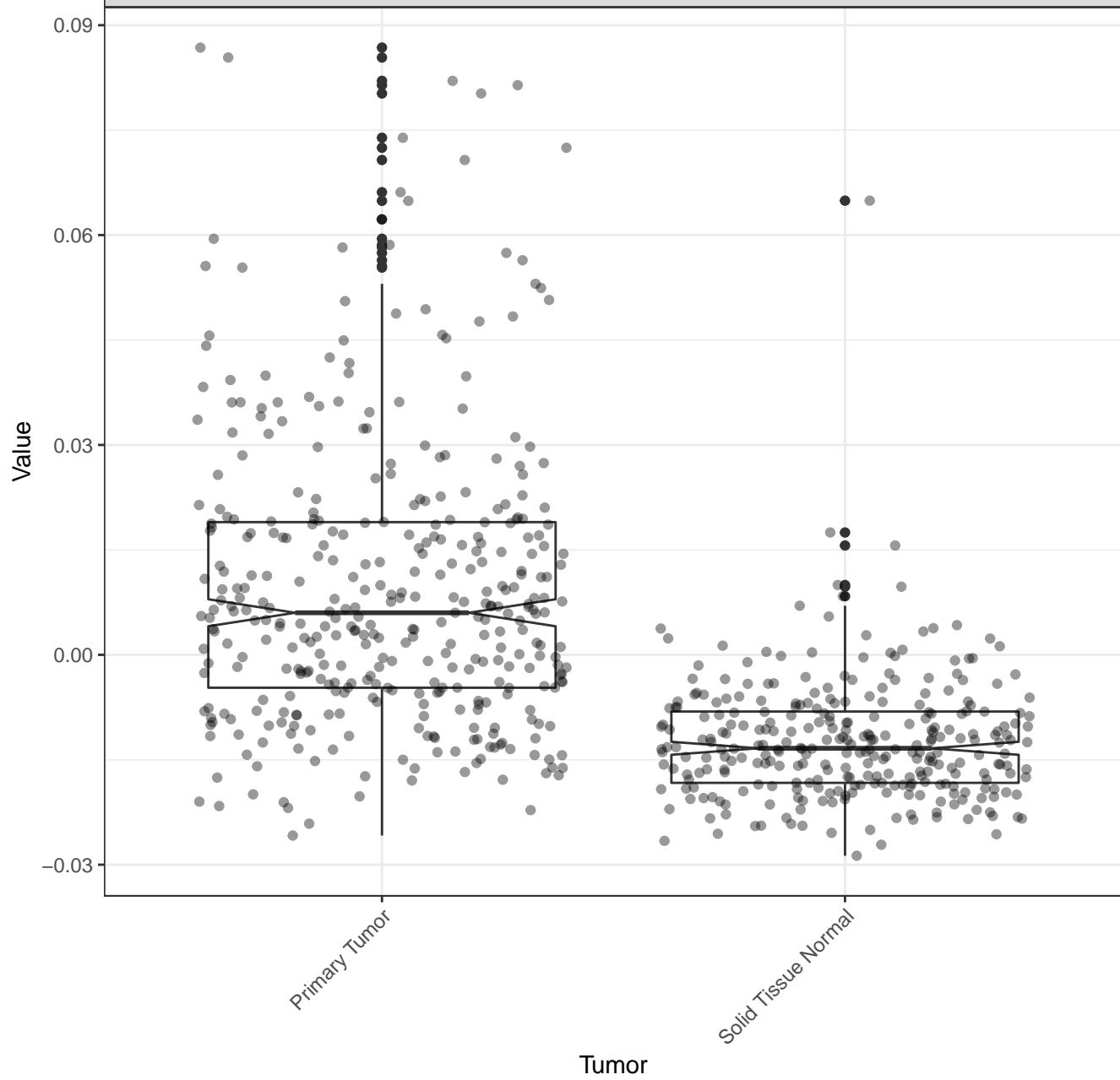
165,REACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION

Value

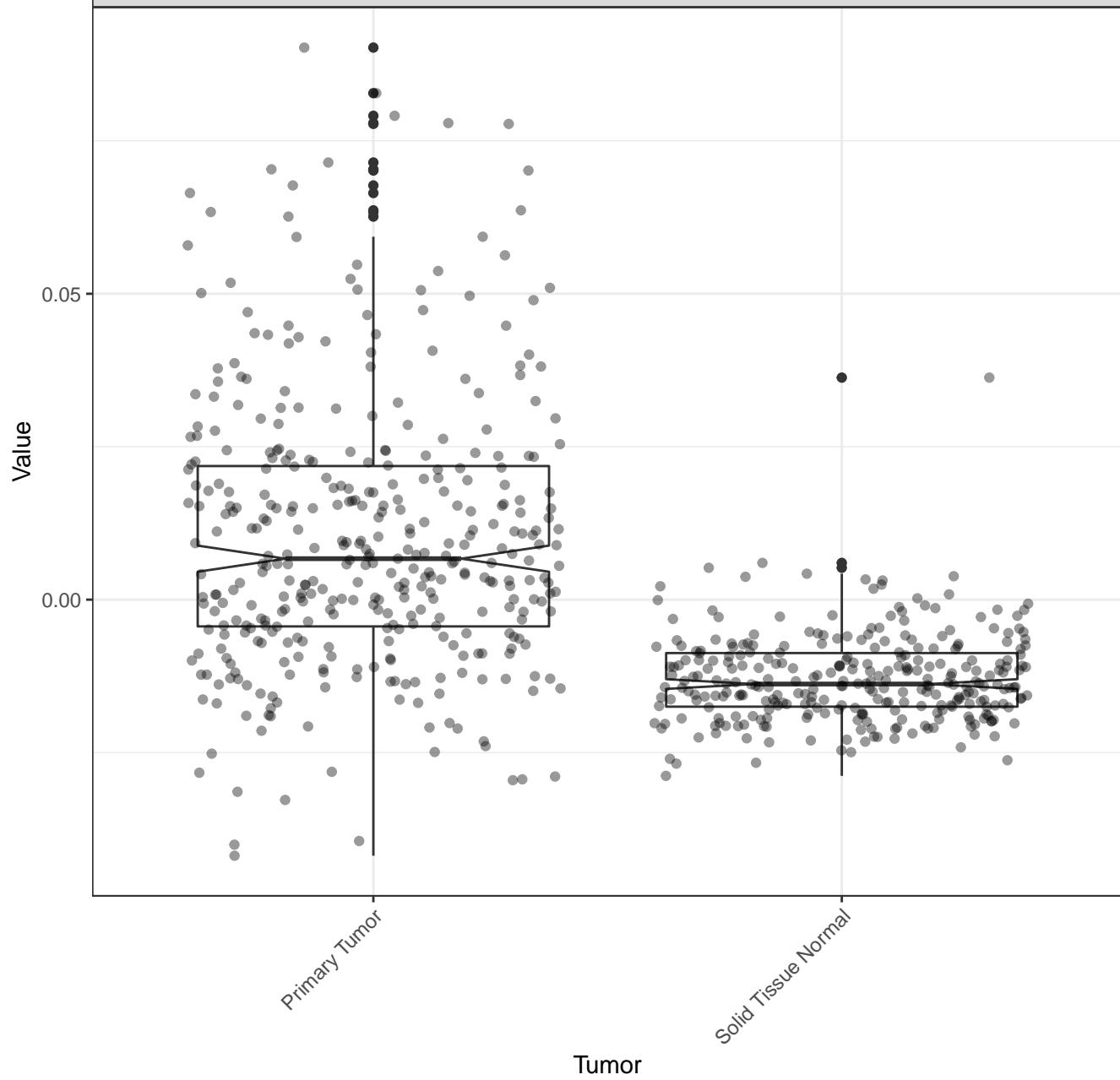




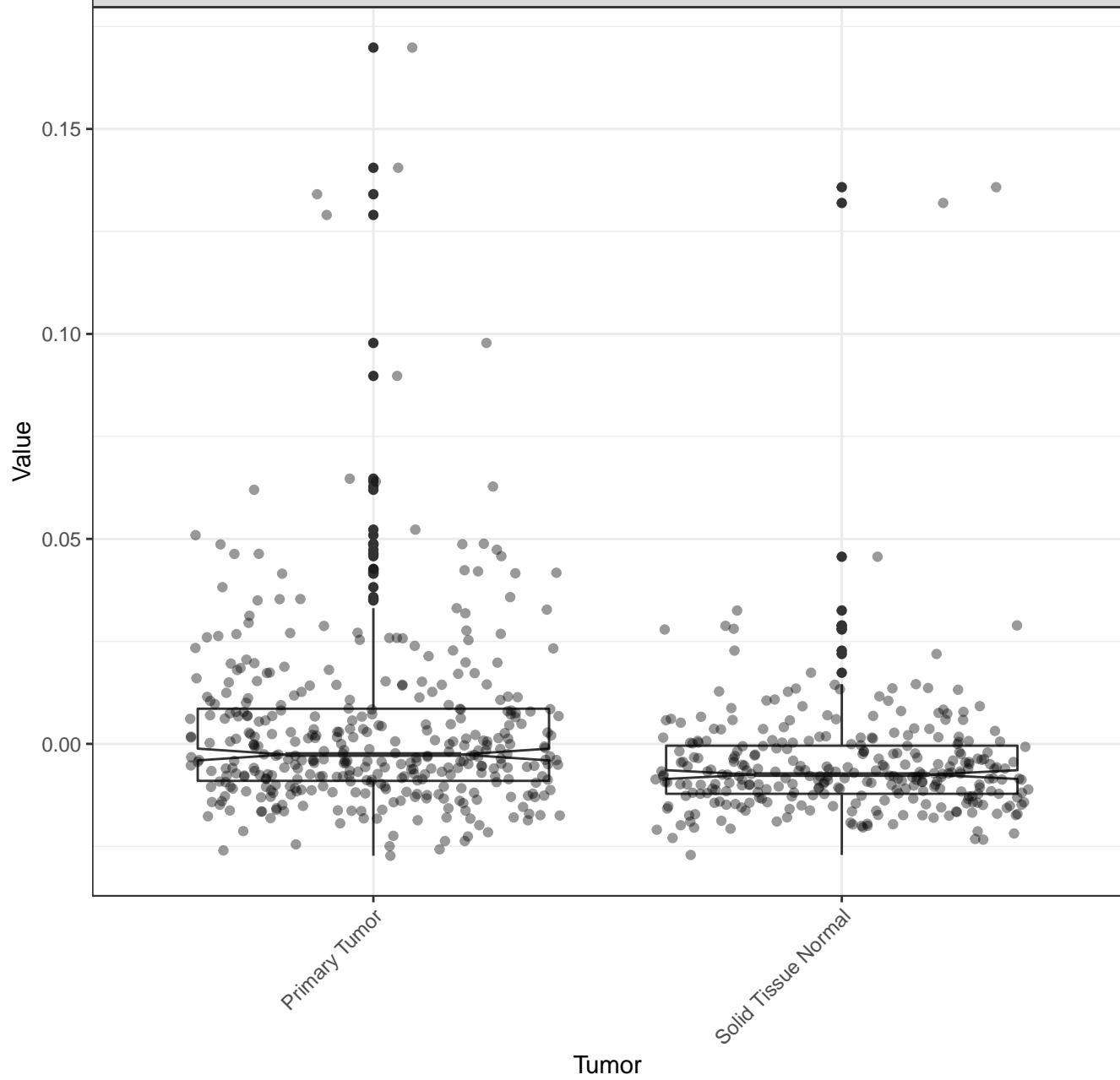
LV 167



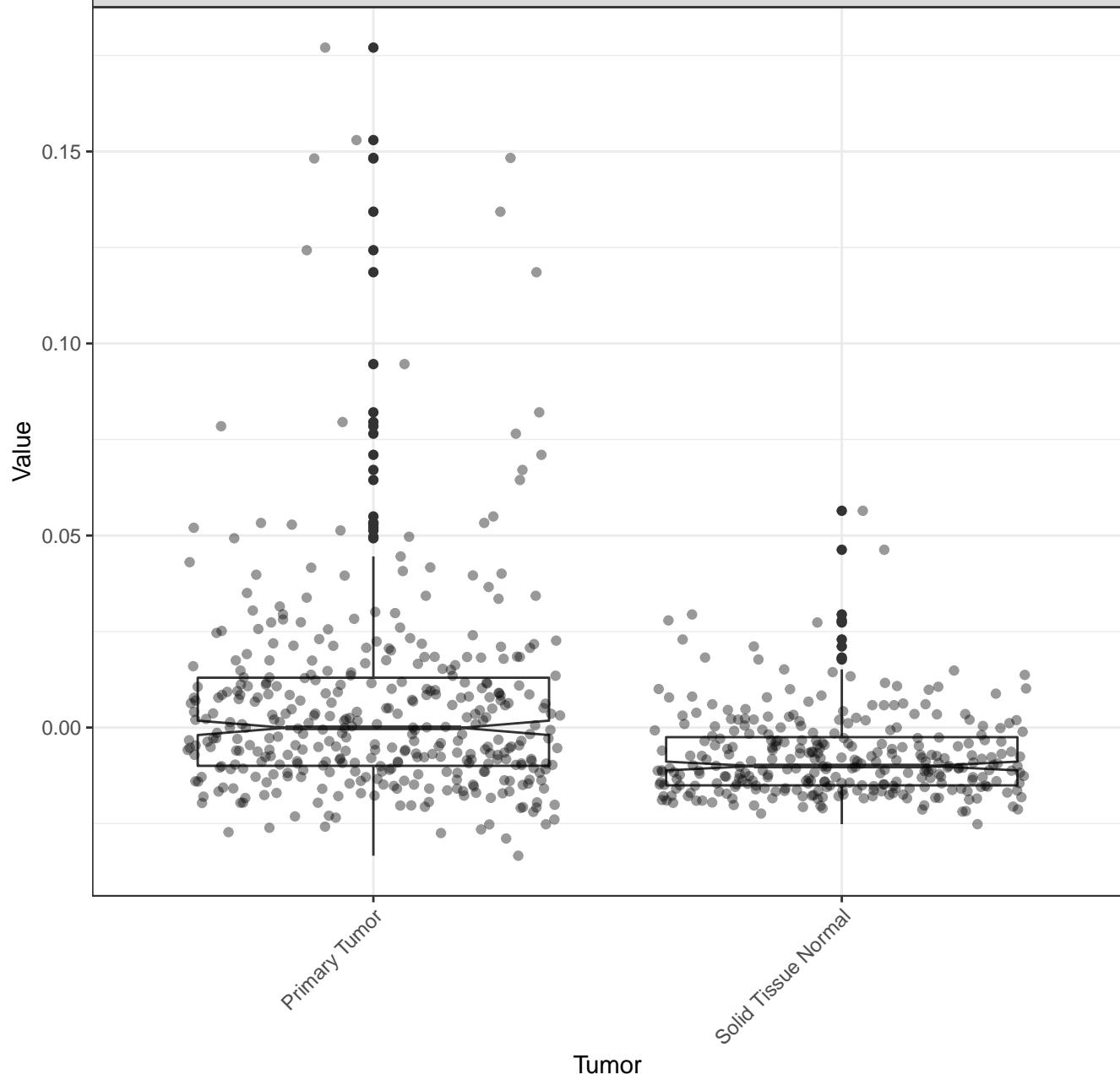
## 168,REACTOME\_MITOTIC\_G1\_G1\_S\_PHASES



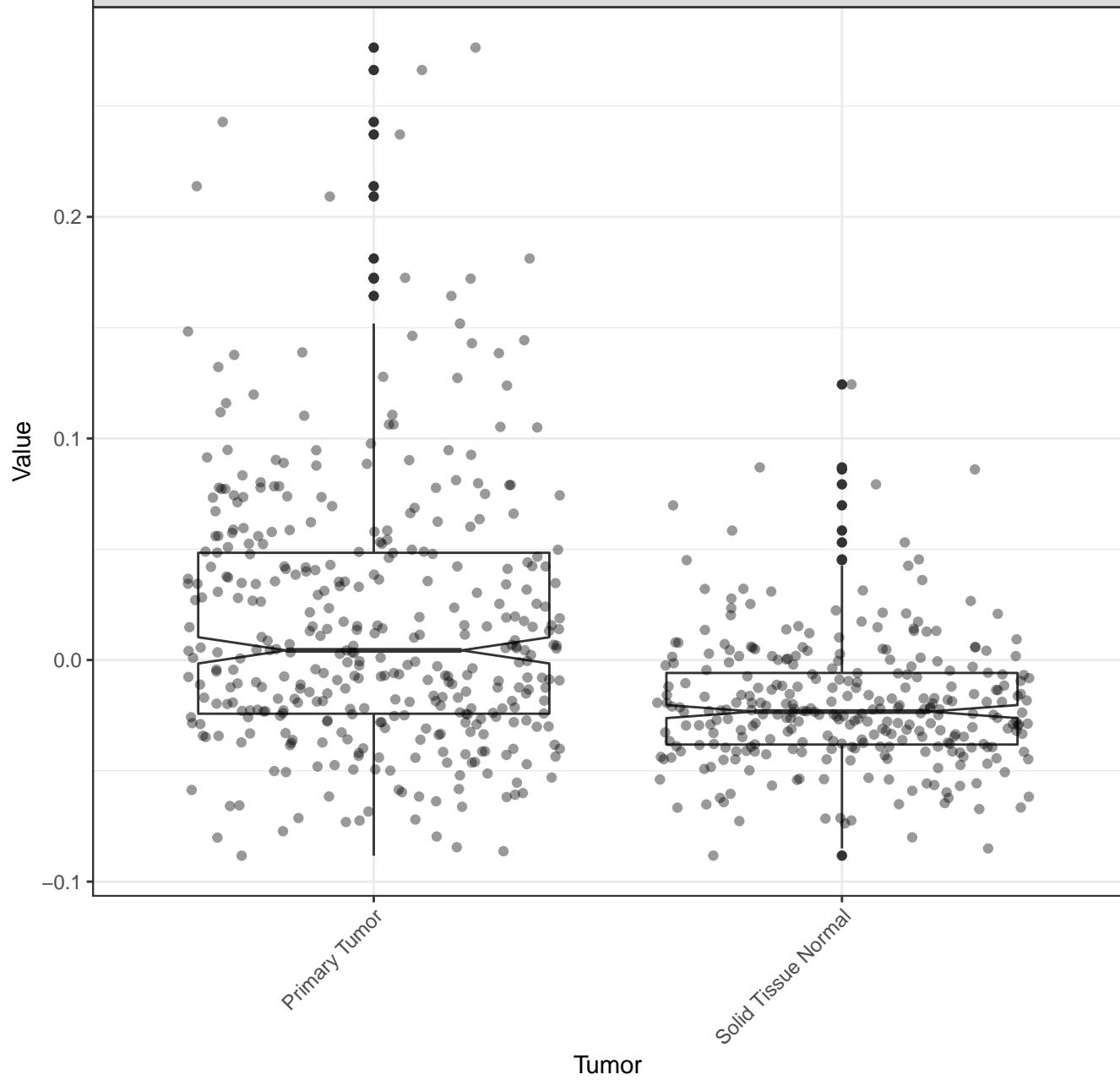
## 169,IRIS\_DendriticCell-Control

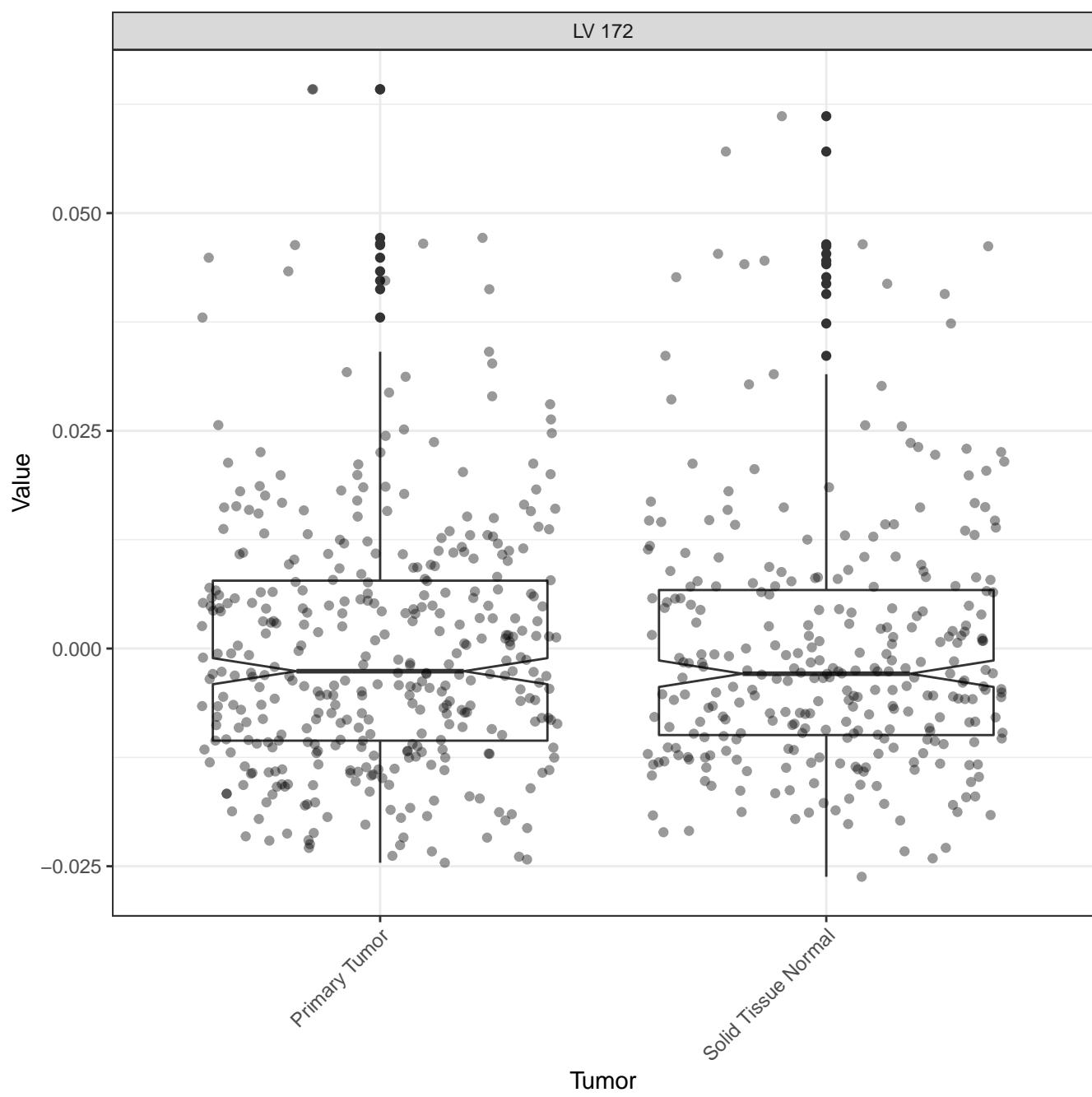


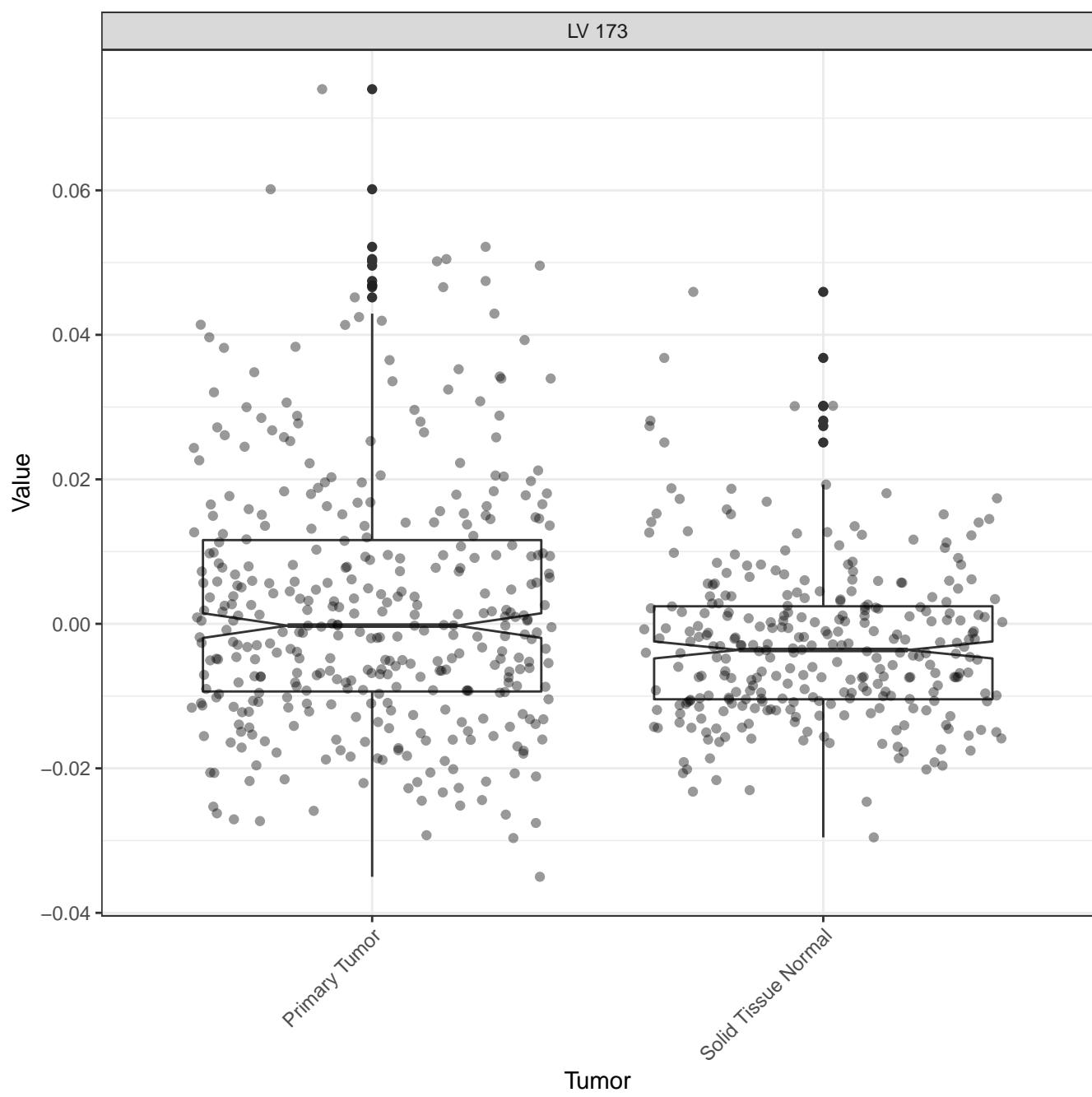
### 170,KEGG\_TOLL\_LIKE\_RECEPTOR\_SIGNALING\_PATHWAY



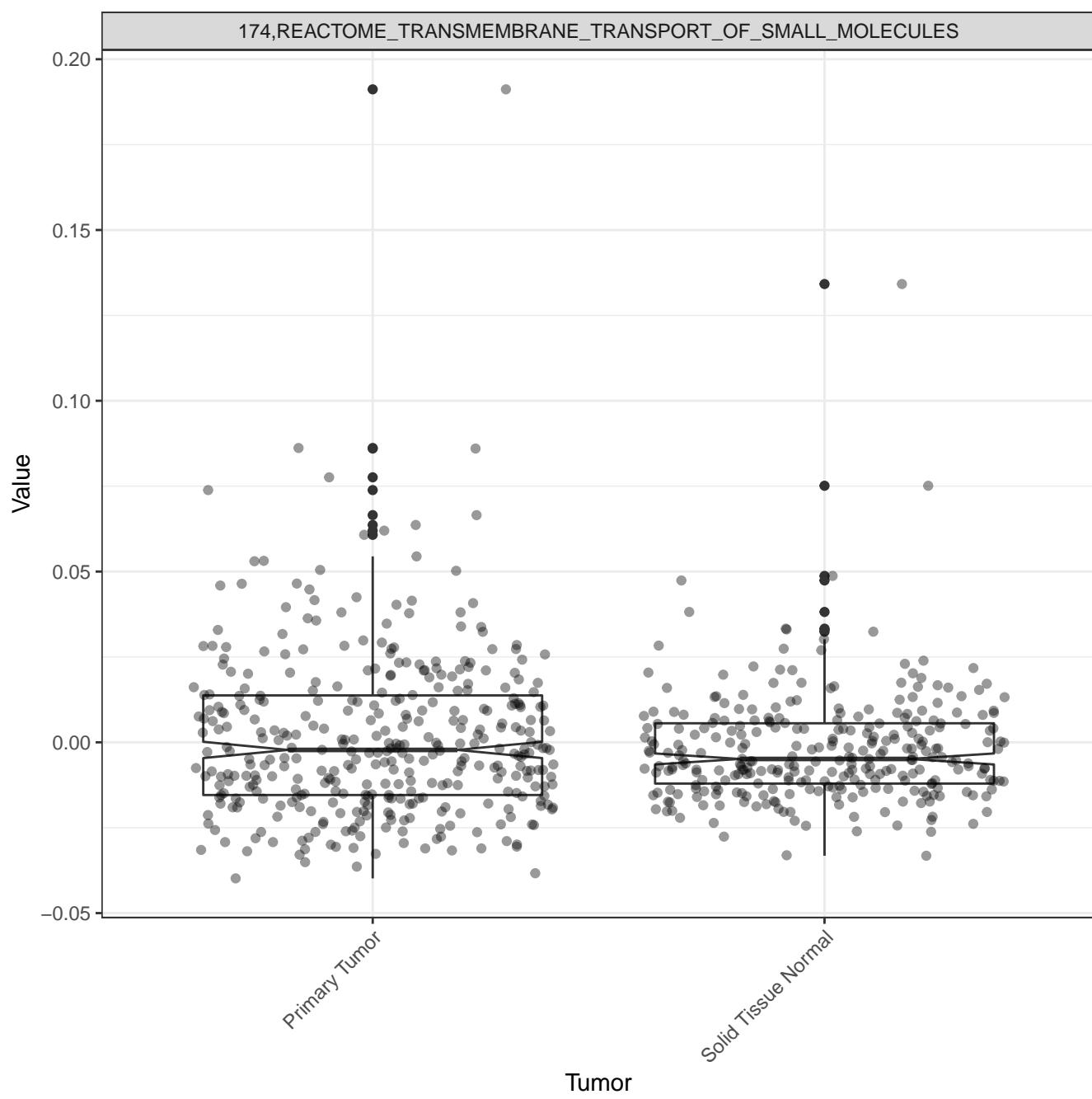
# 171,REACTOME\_LATE\_PHASE\_OF\_HIV\_LIFE\_CYCLE



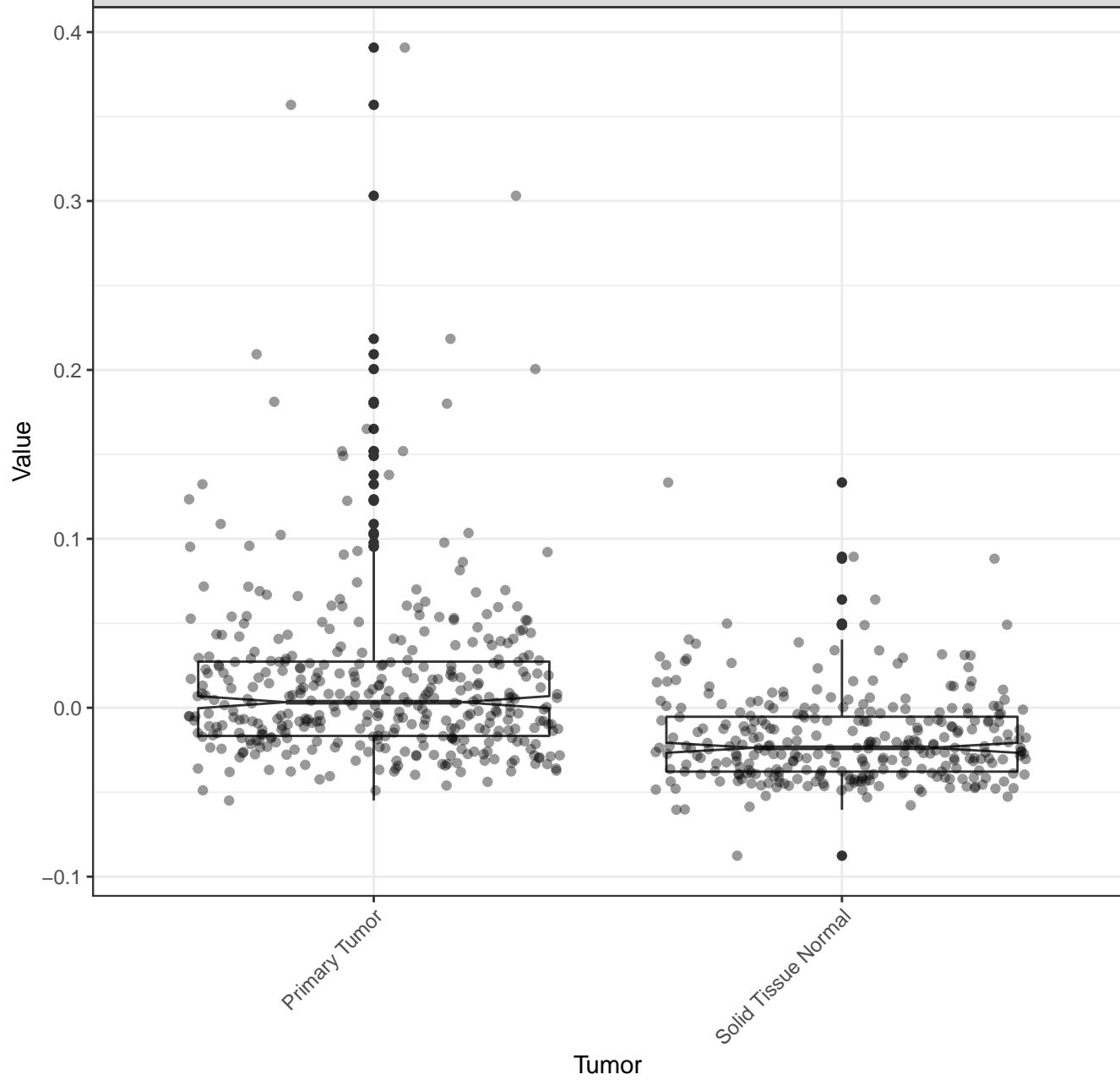




174,REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES



# 175,SVM T cells CD8



# 176,KEGG\_UBIQUITIN\_MEDiated\_PROTEOLYSIS

Value

0.2

0.1

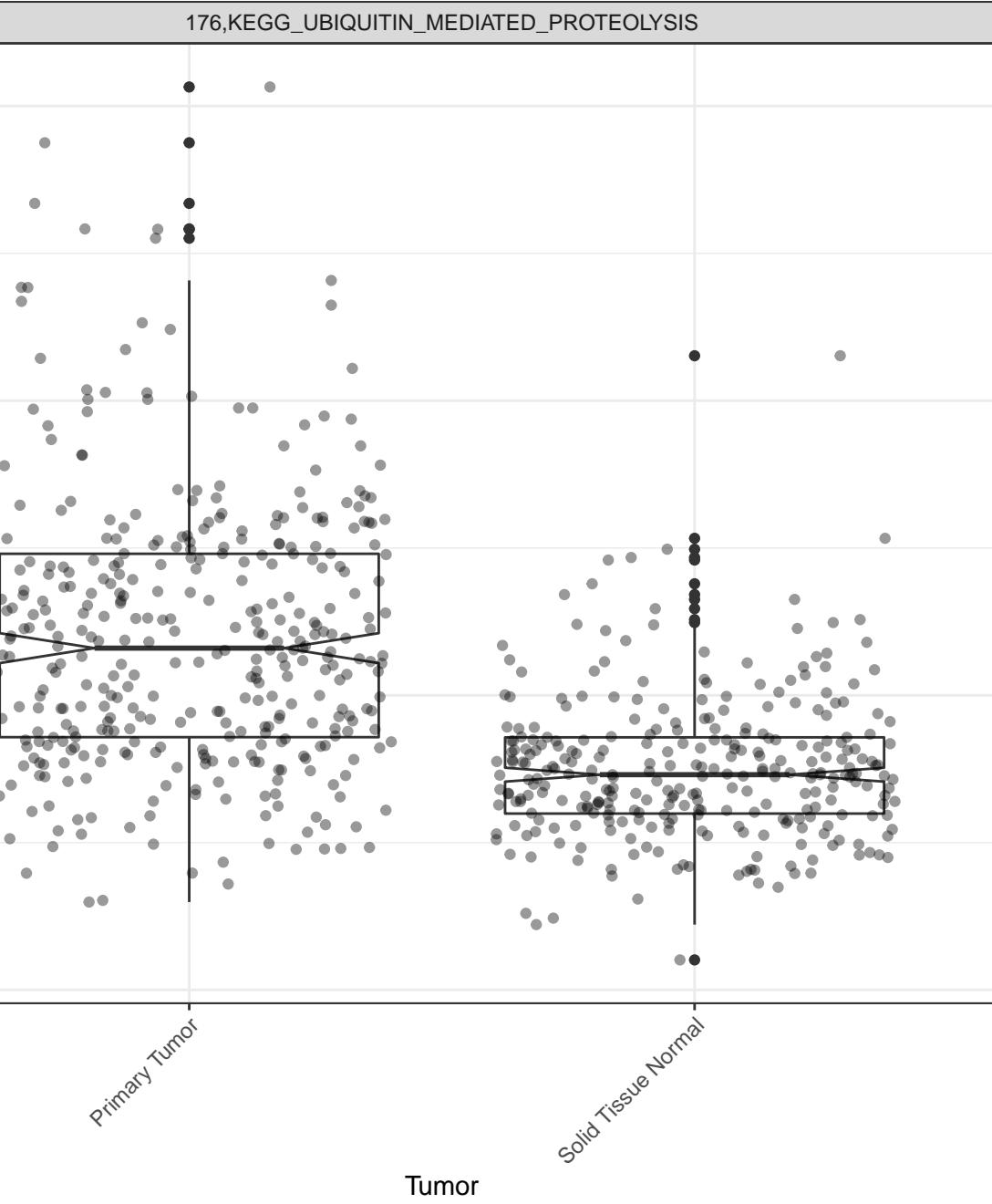
0.0

-0.1

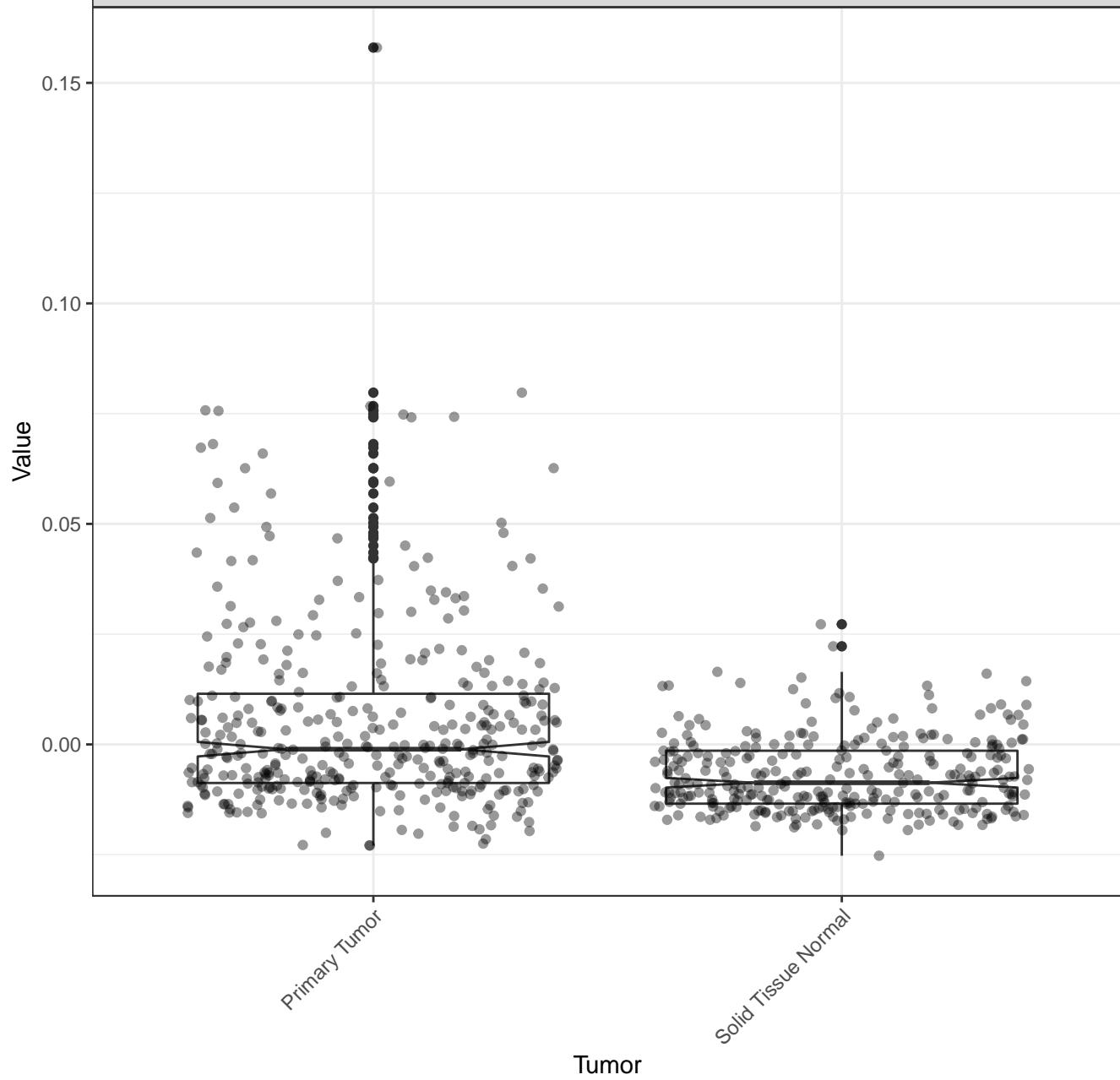
Primary Tumor

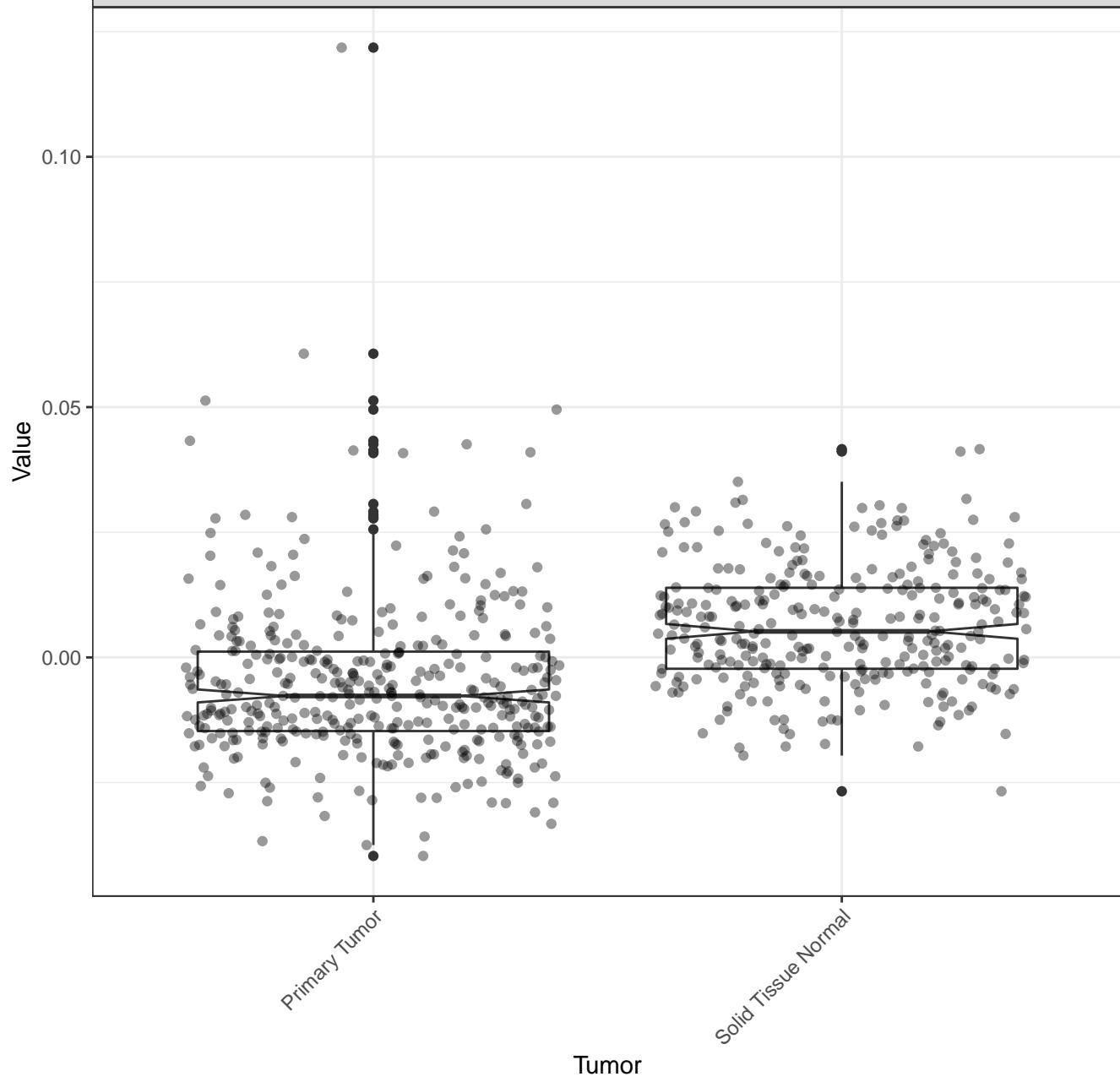
Tumor

Solid Tissue Normal



## 177,PID\_CDC42\_PATHWAY





Value

0.08

0.04

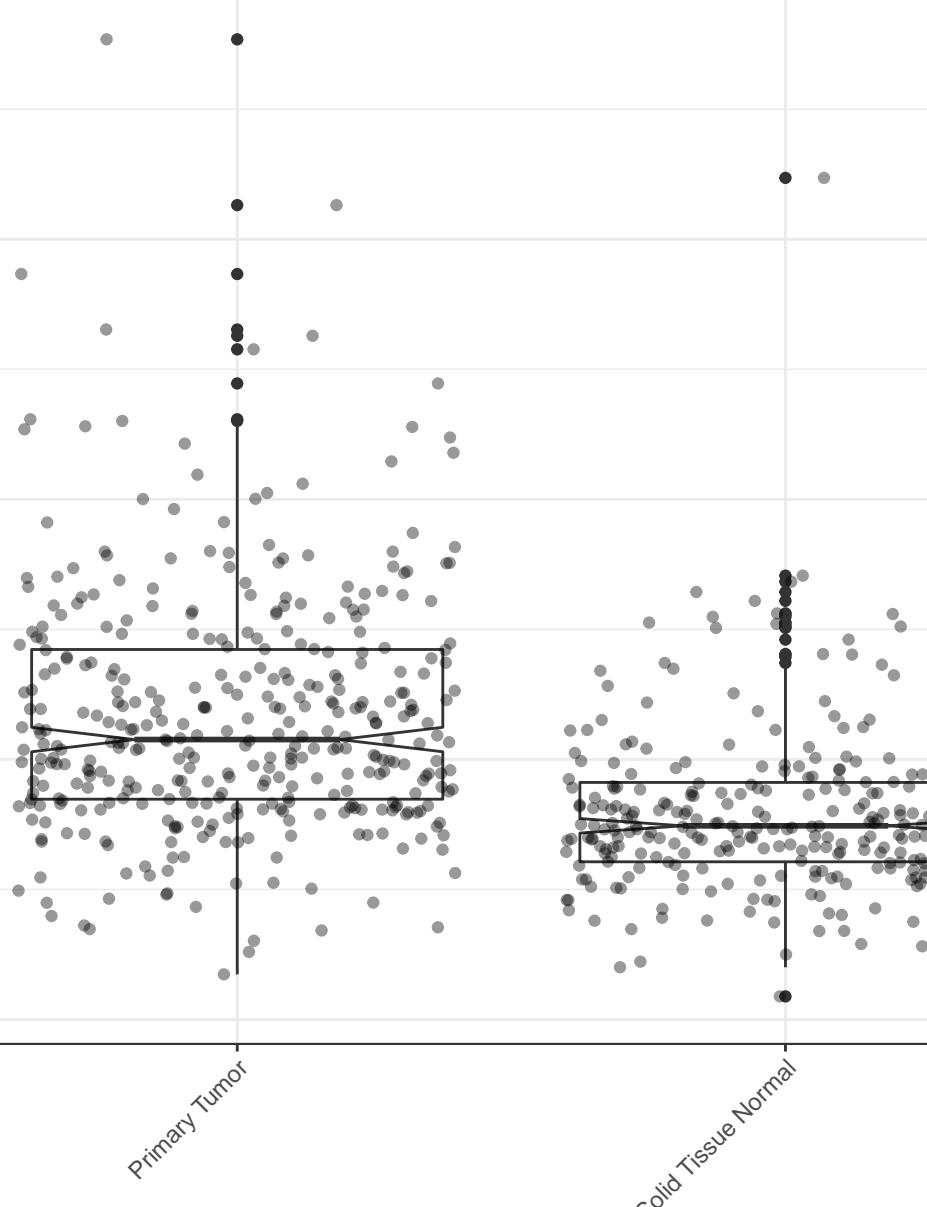
0.00

-0.04

Primary Tumor

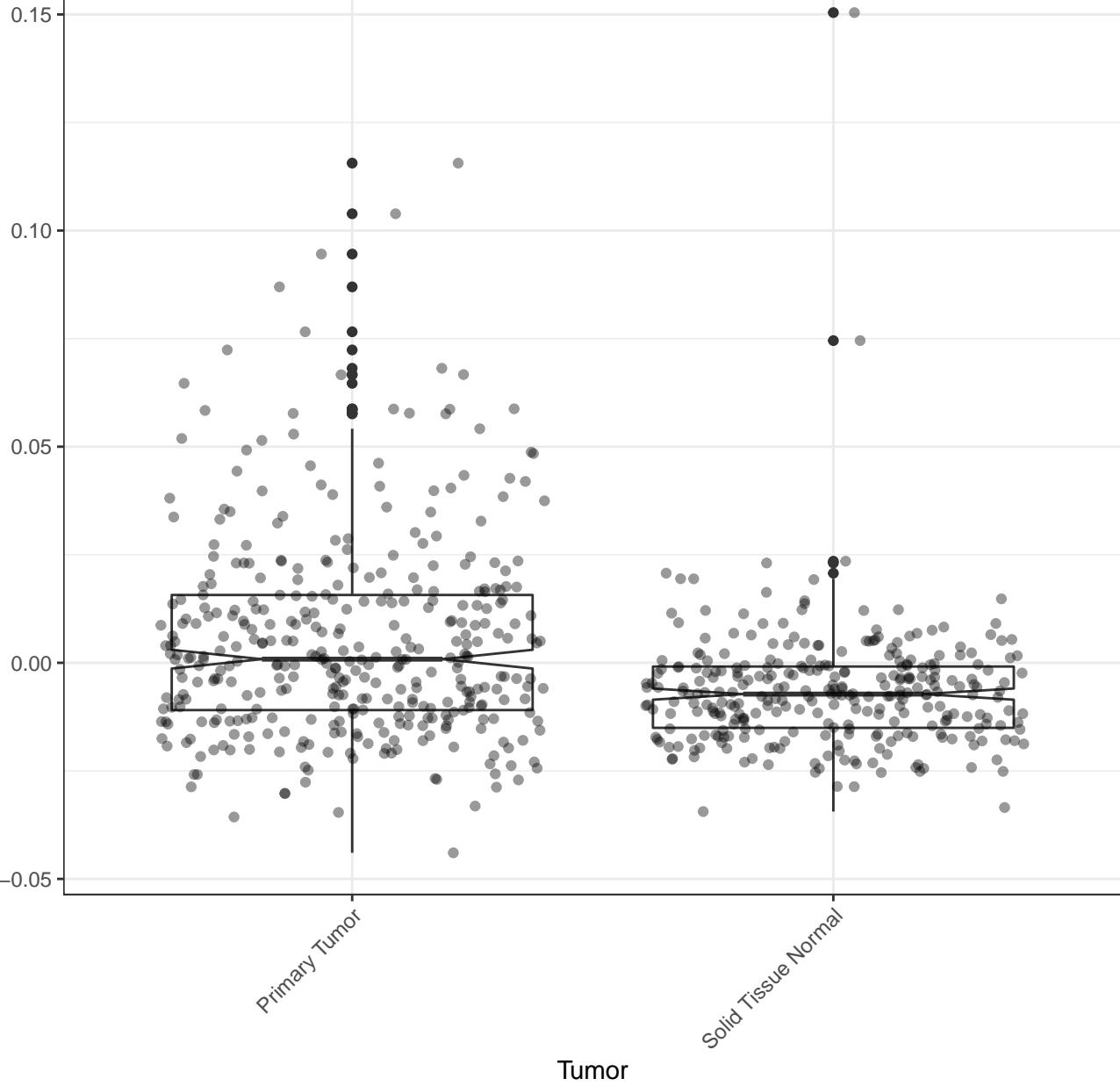
Solid Tissue Normal

Tumor

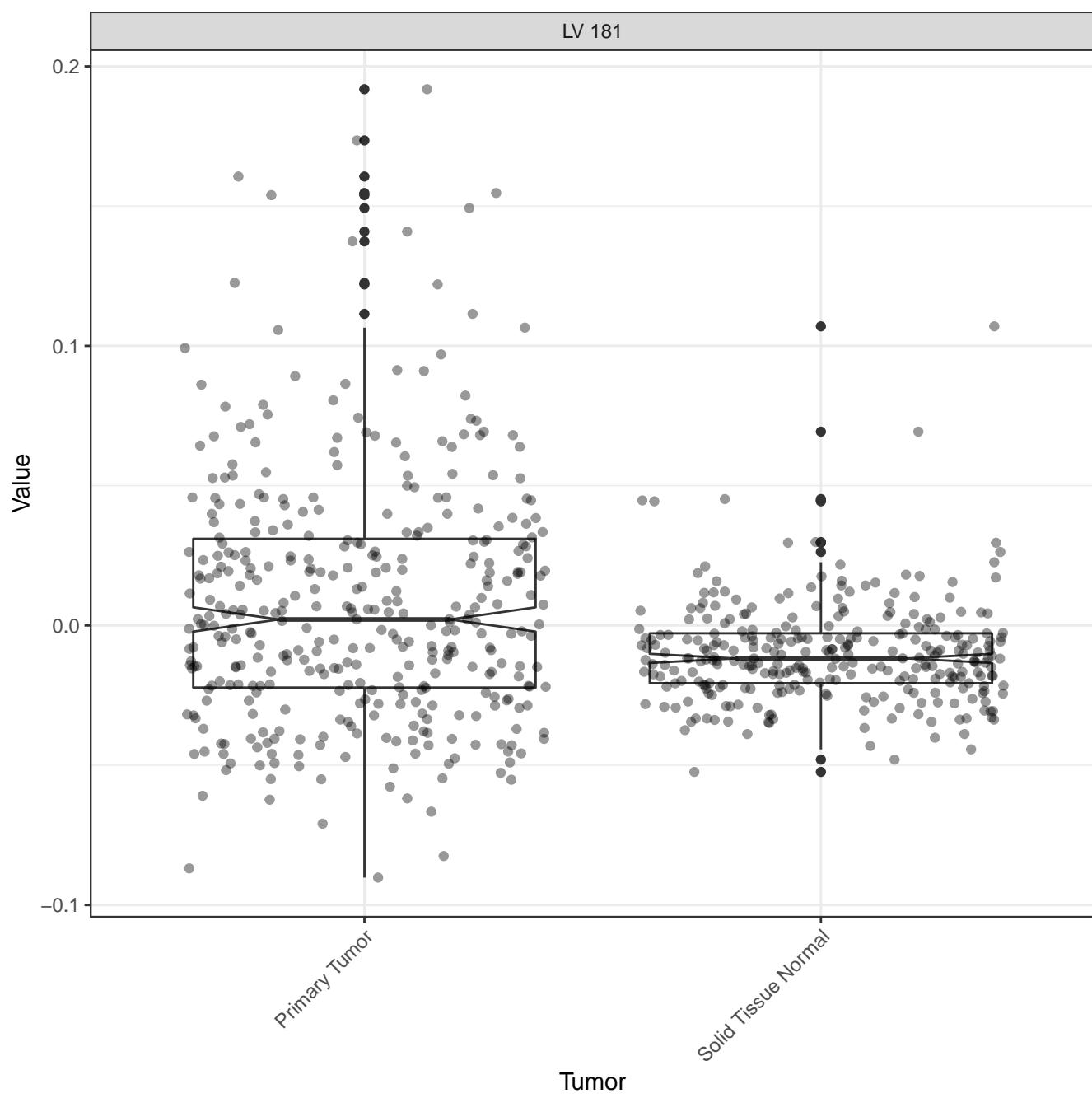


LV 180

Value



LV 181



LV 182

Value

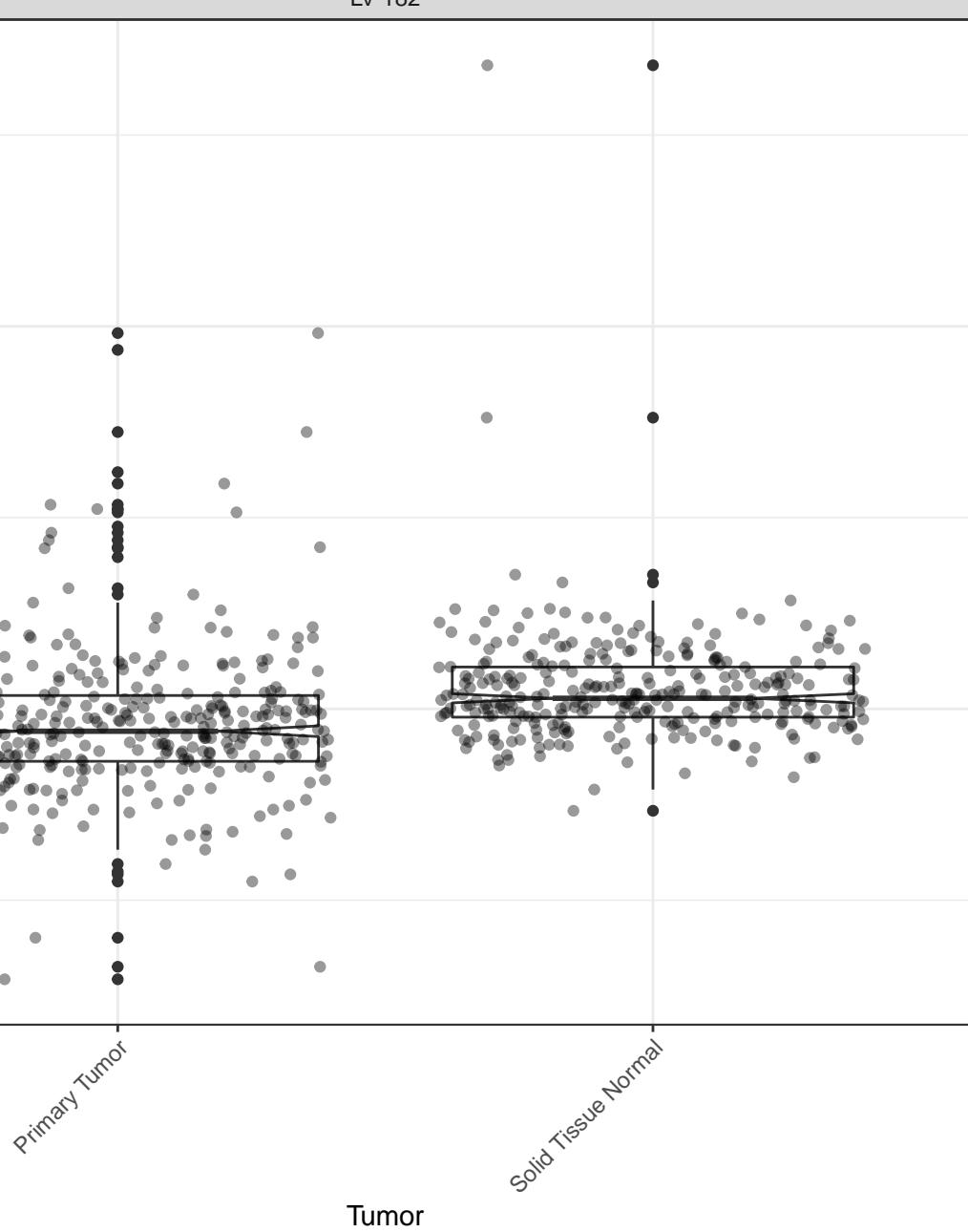
0.1

0.0

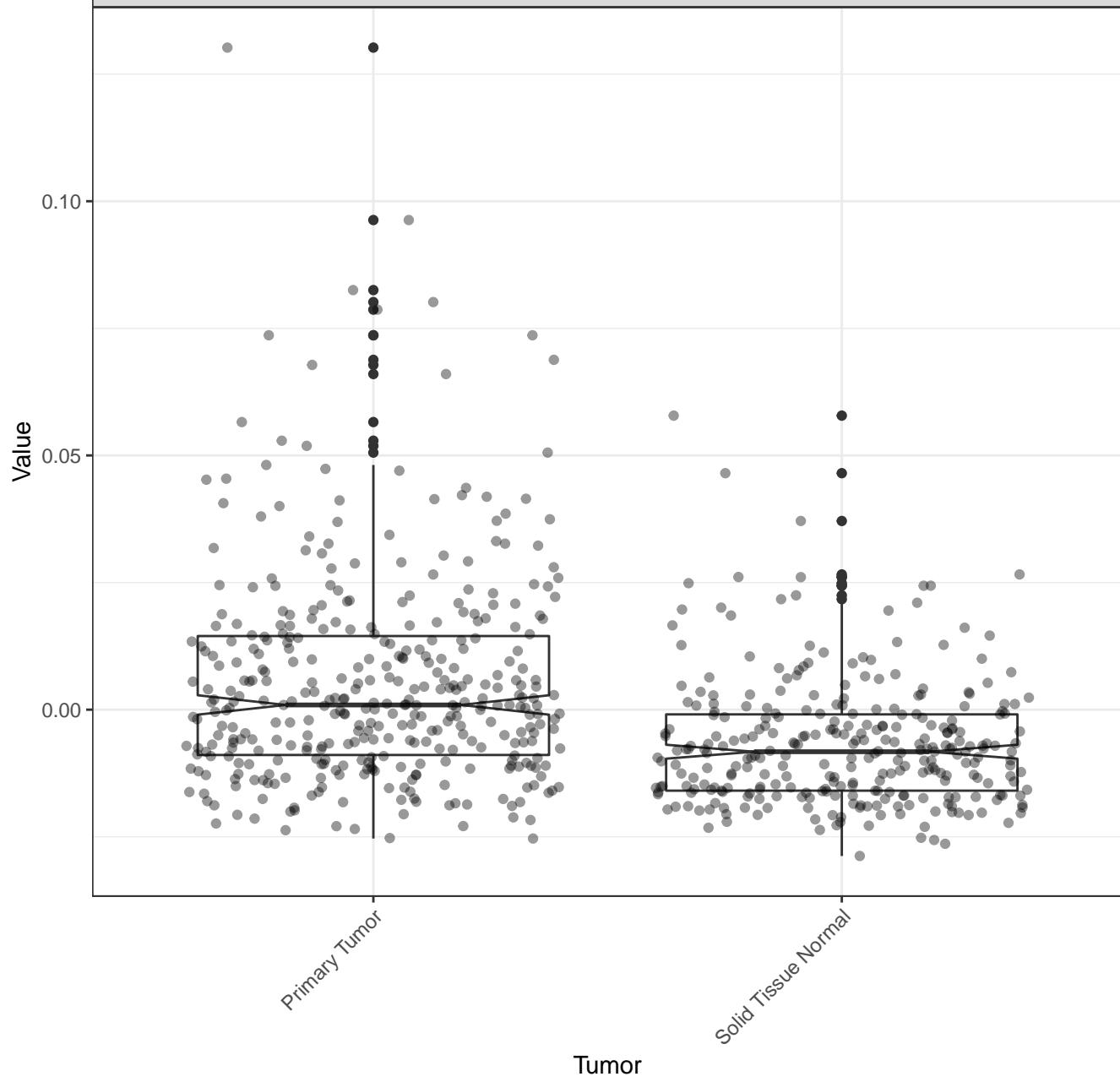
Primary Tumor

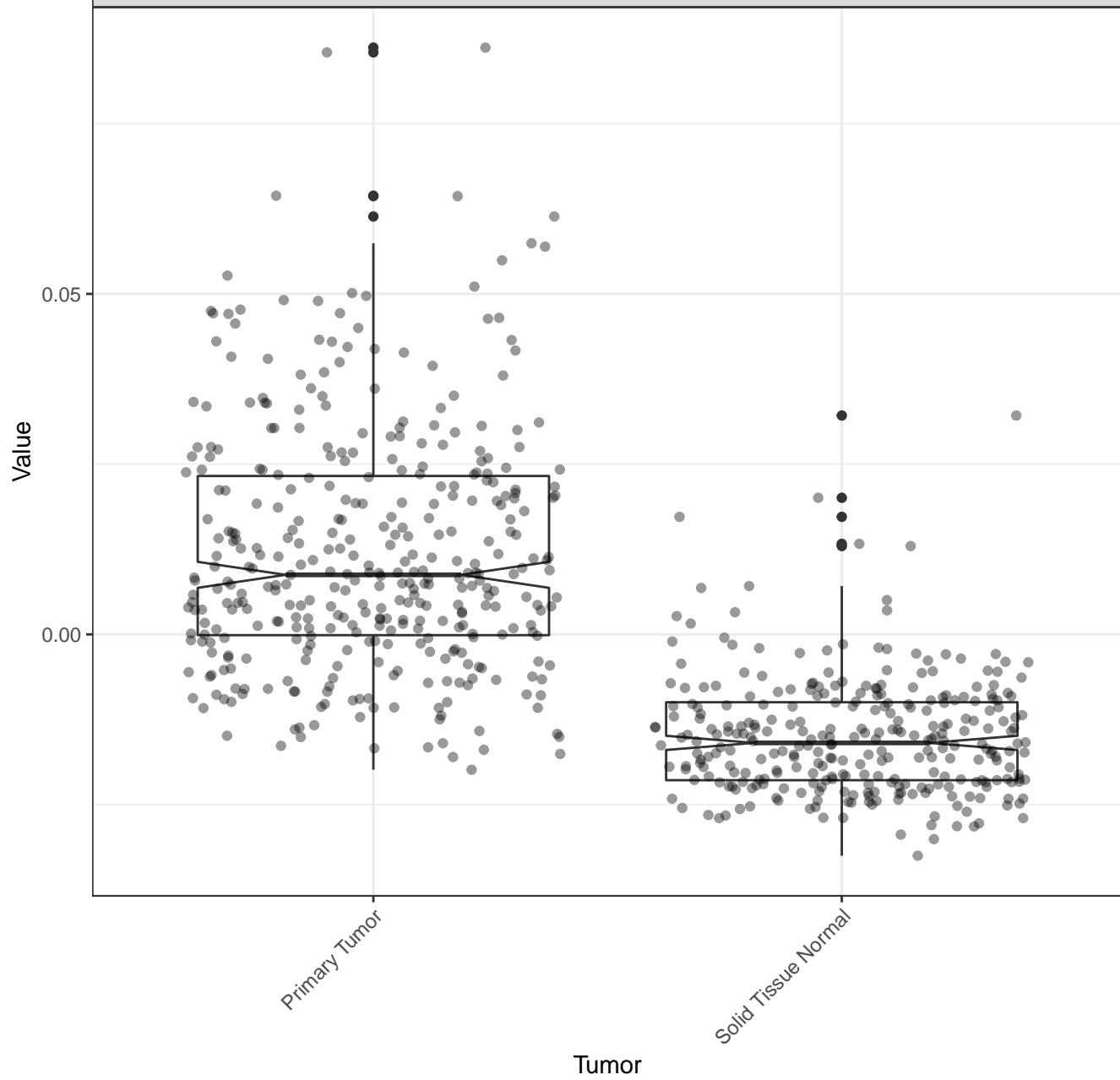
Solid Tissue Normal

Tumor

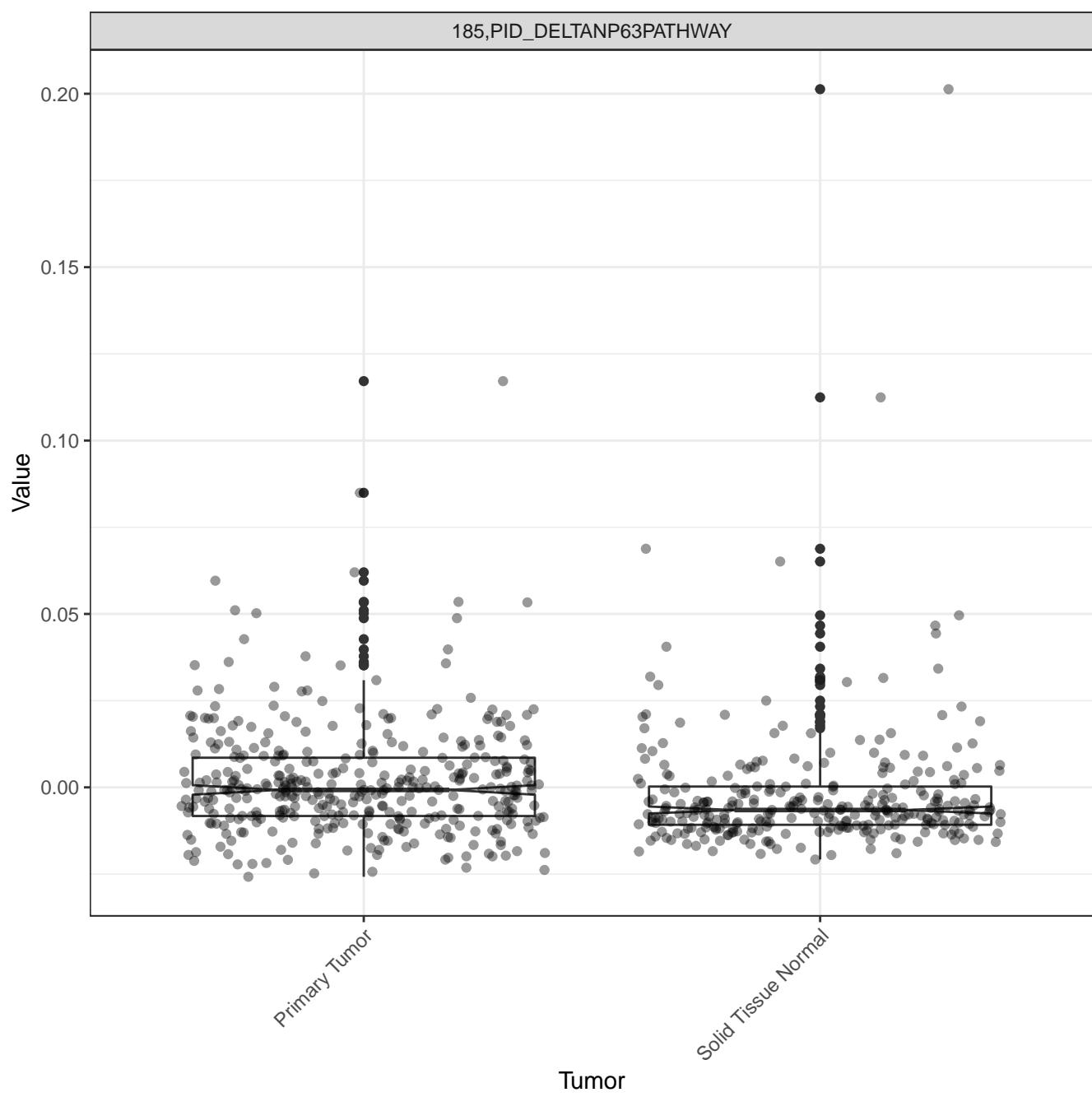


## 183,IRIS\_DendriticCell-LPSstimulated

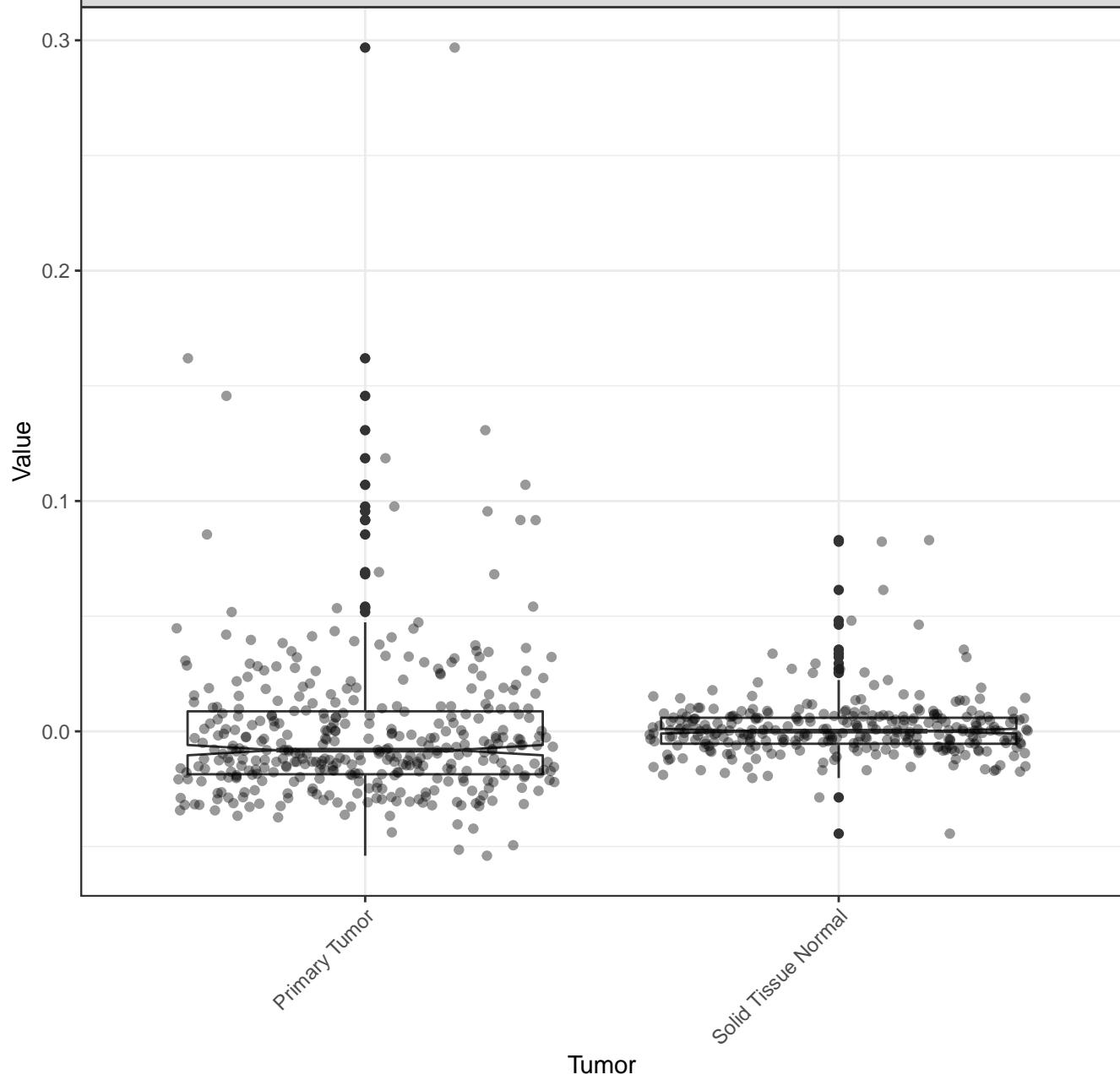




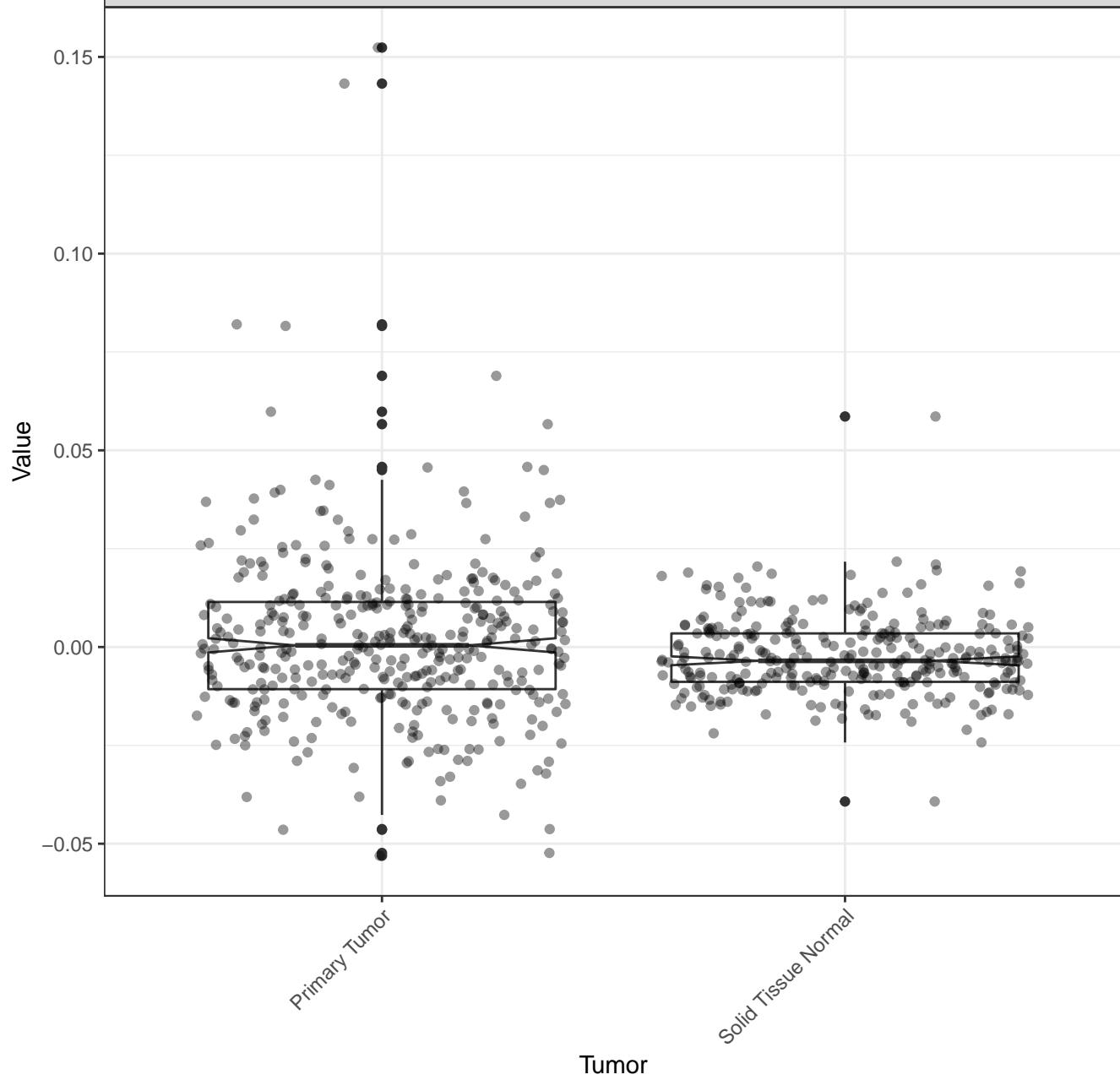
## 185,PID\_DELTANP63PATHWAY



186,SVM T cells CD4 memory activated



# 187,KEGG\_PHOSPHATIDYLINOSITOL\_SIGNALING\_SYSTEM



## 188,KEGG\_PATHWAYS\_IN\_CANCER

Value

0.15

0.10

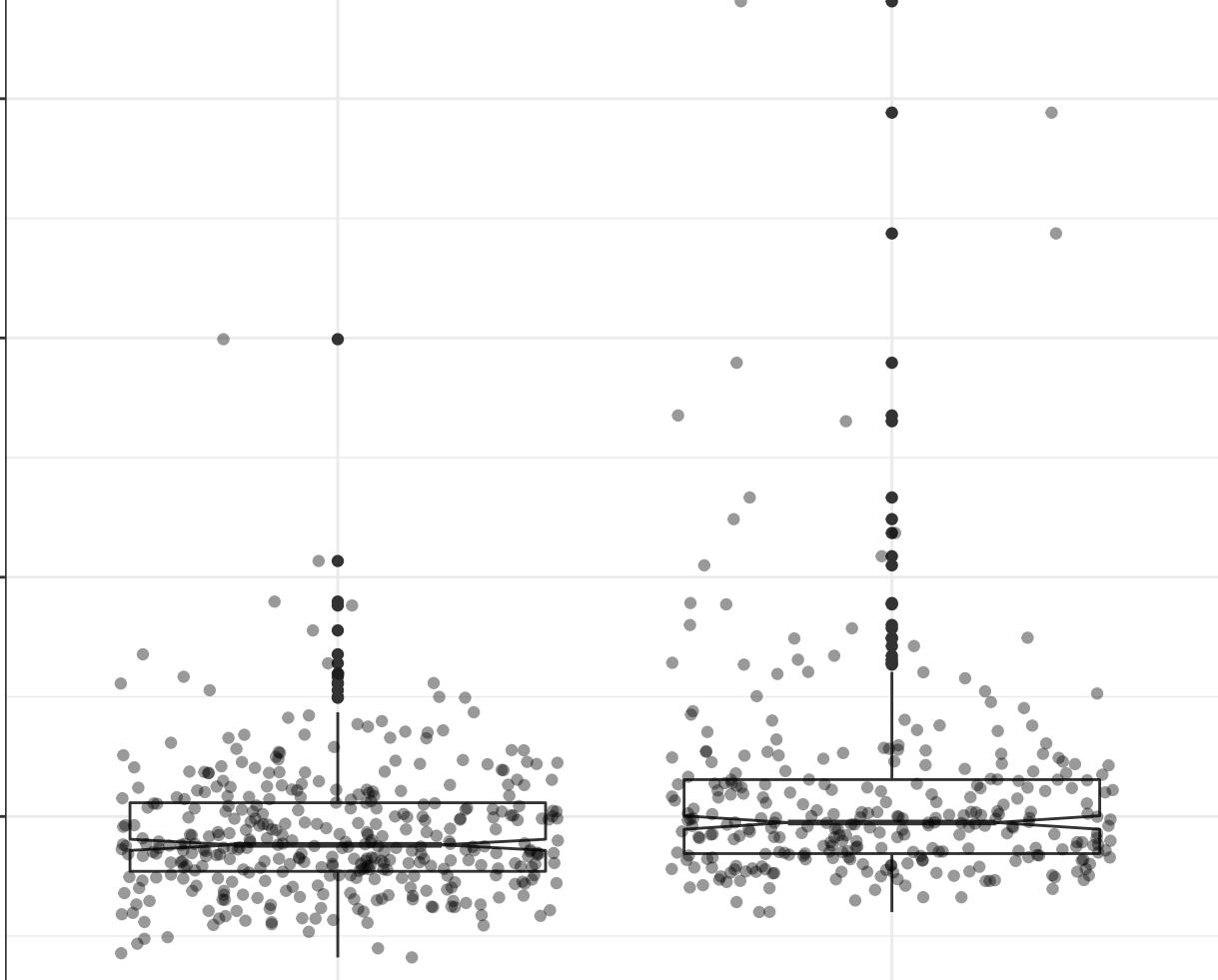
0.05

0.00

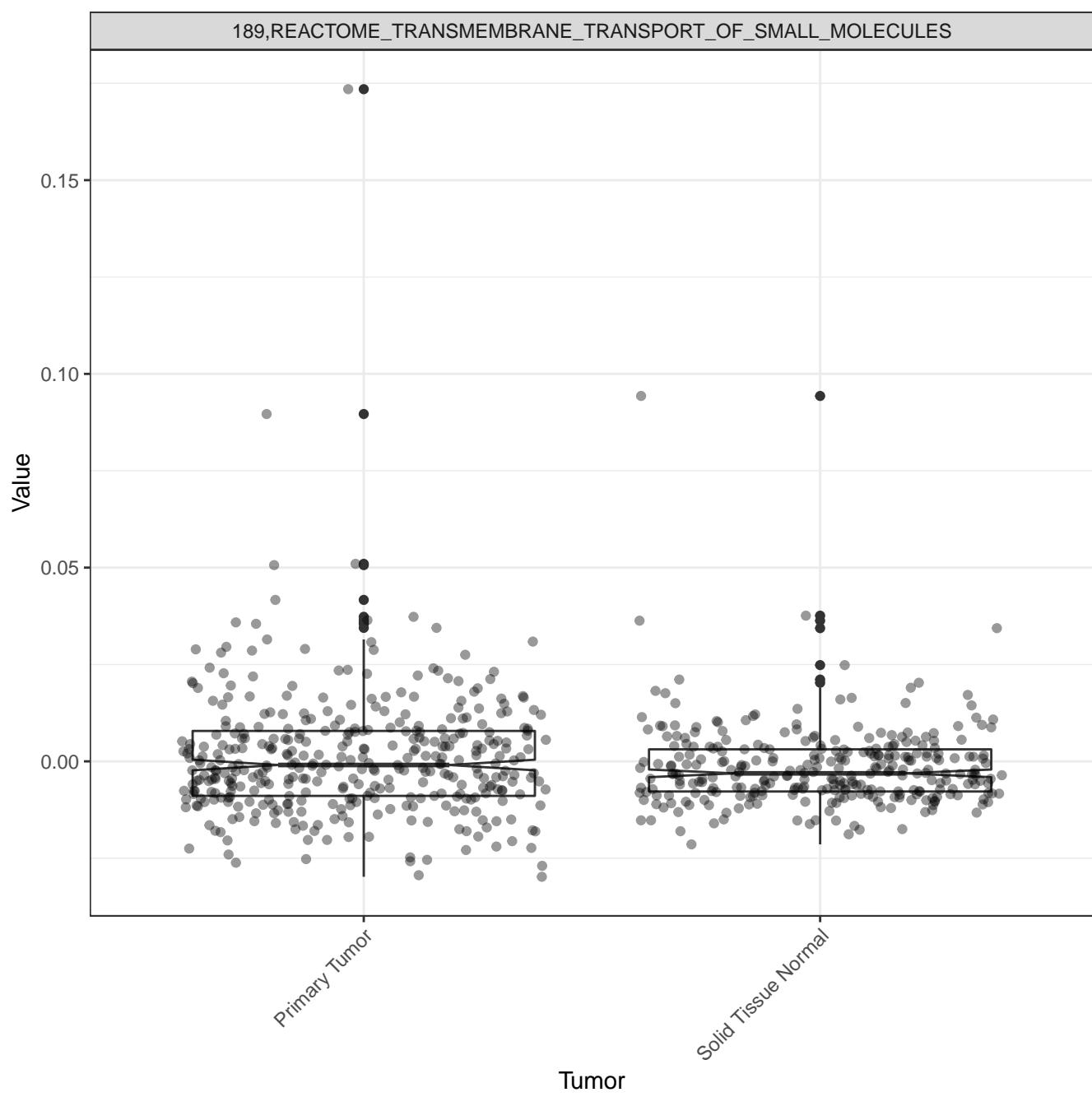
Primary Tumor

Solid Tissue Normal

Tumor



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



## 190,MIPS\_SPLICEOSOME

Value

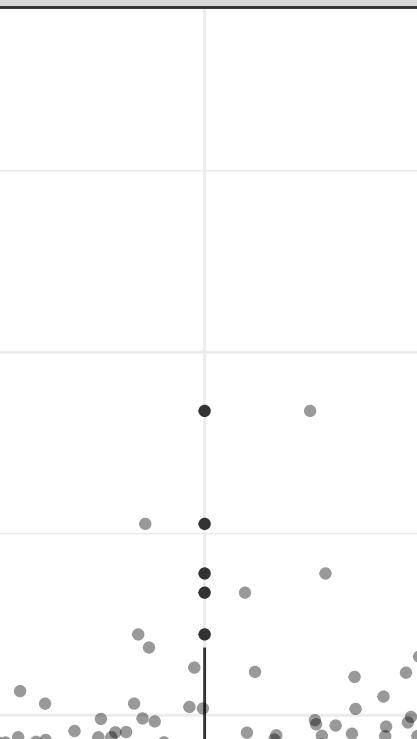
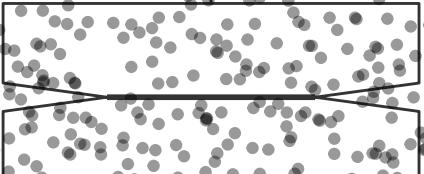
0.05

0.00

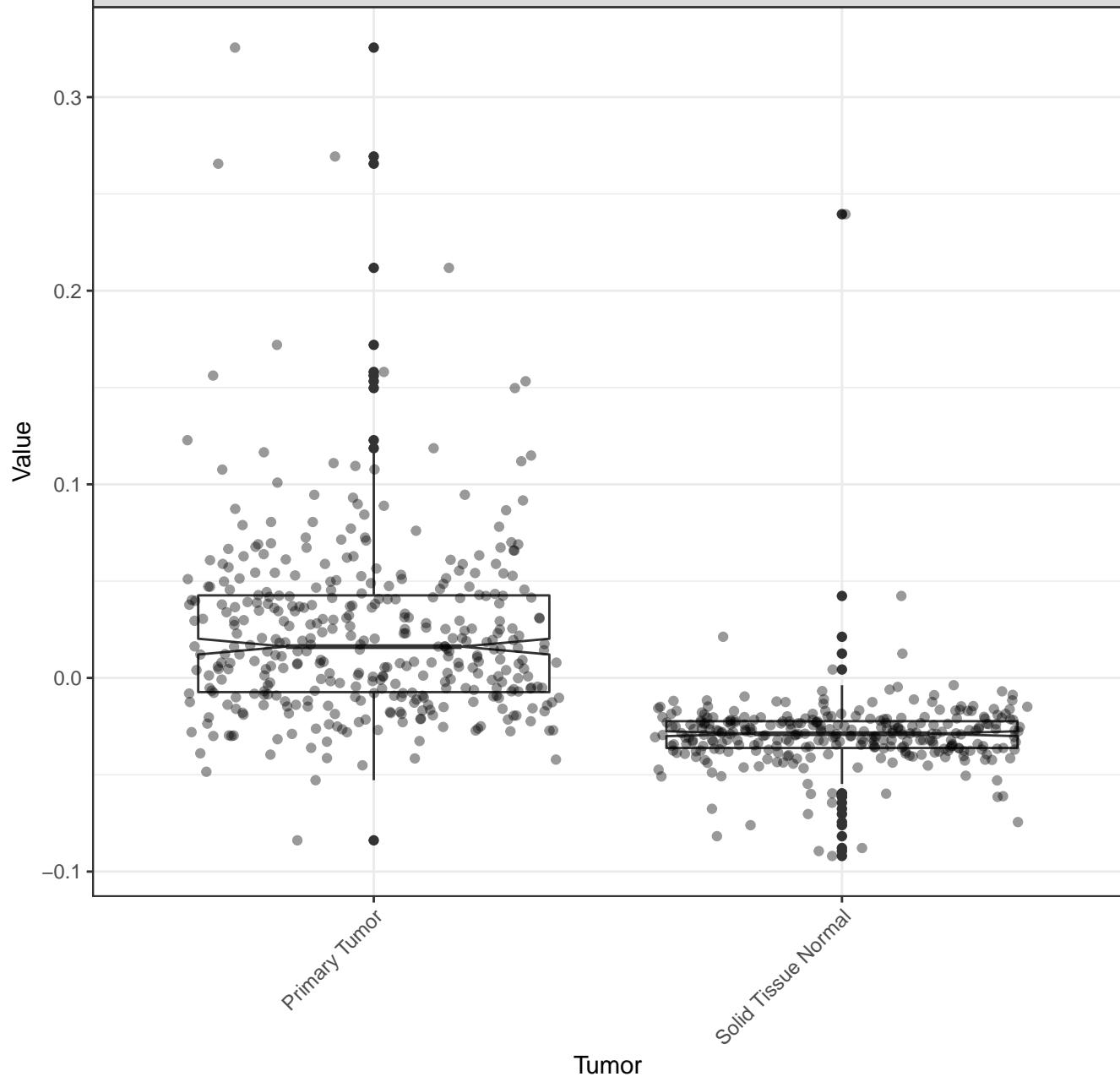
Primary Tumor

Solid Tissue Normal

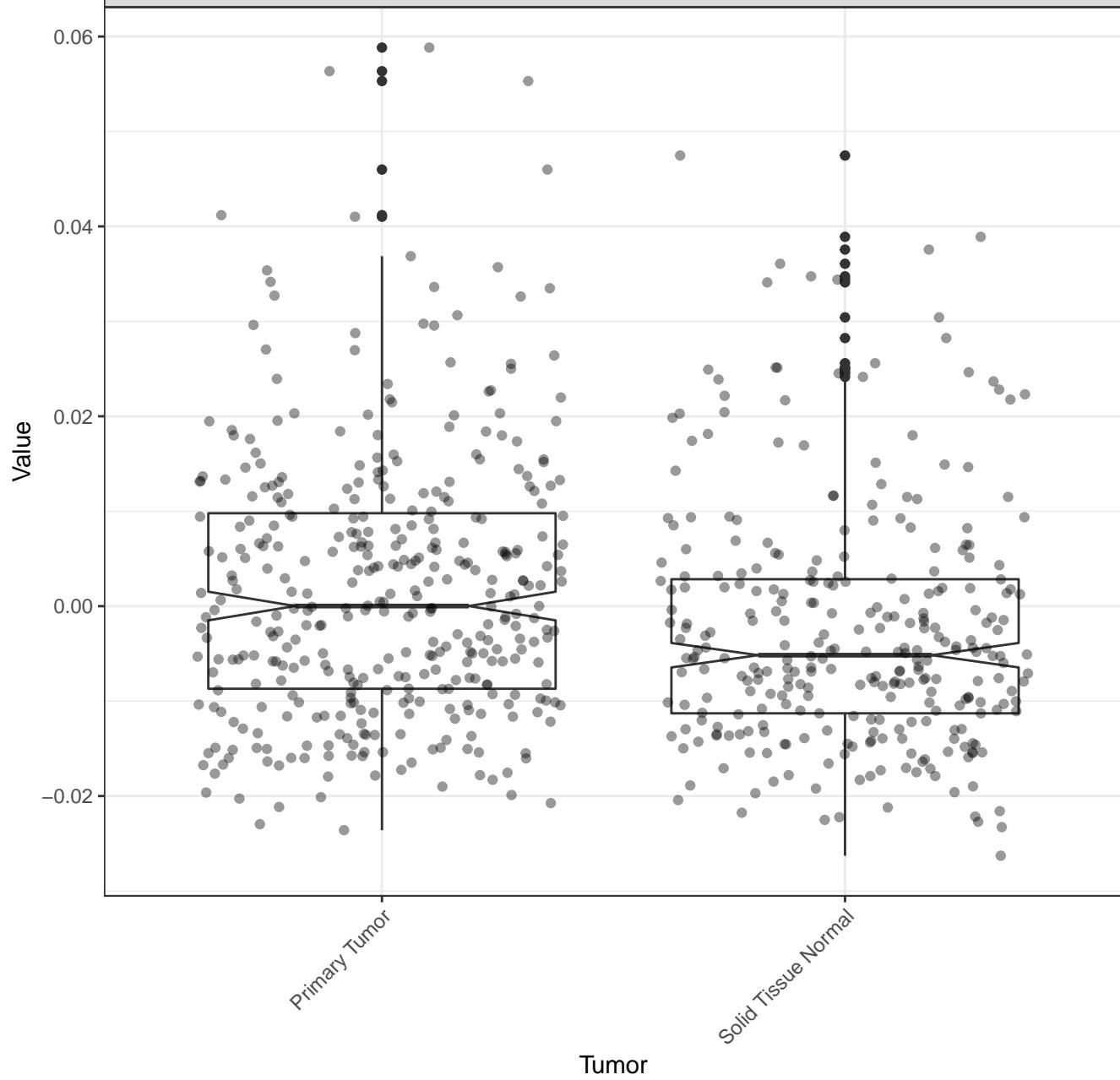
Tumor



## 191,KEGG\_LYSOSOME



LV 192



## 193,DMAP\_ERY3

Value

0.06

0.03

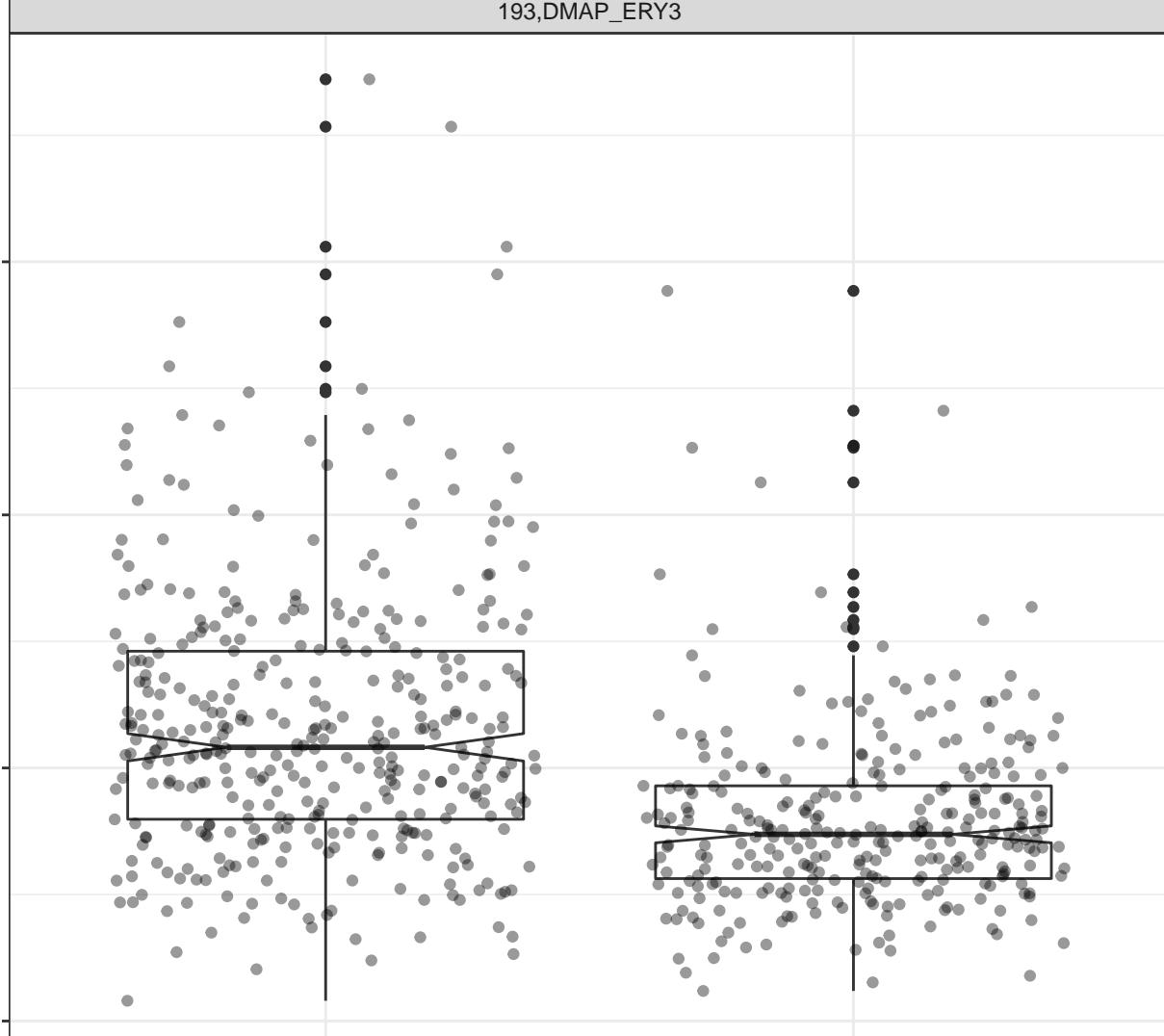
0.00

-0.03

Primary Tumor

Solid Tissue Normal

Tumor



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

Value

0.10

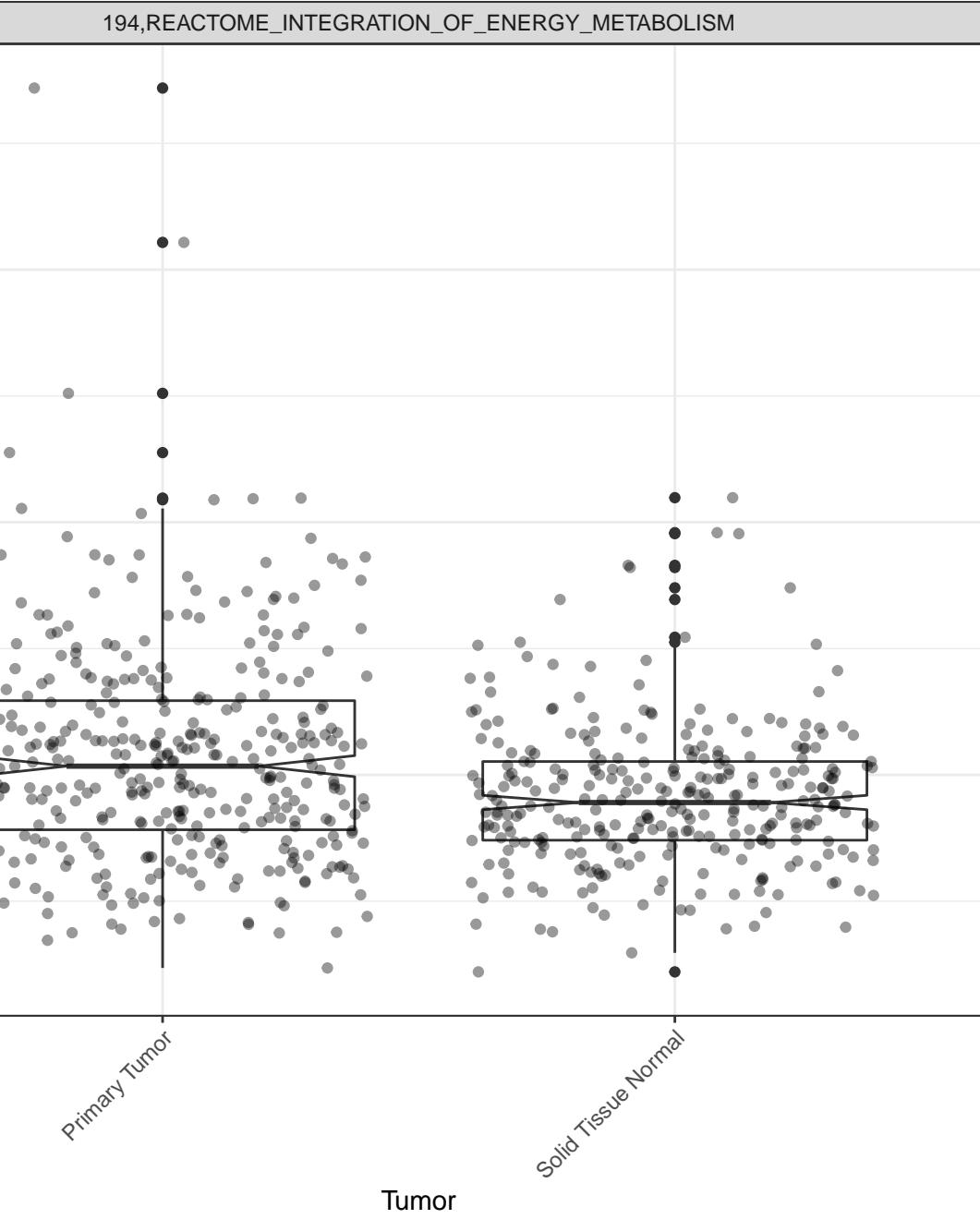
0.05

0.00

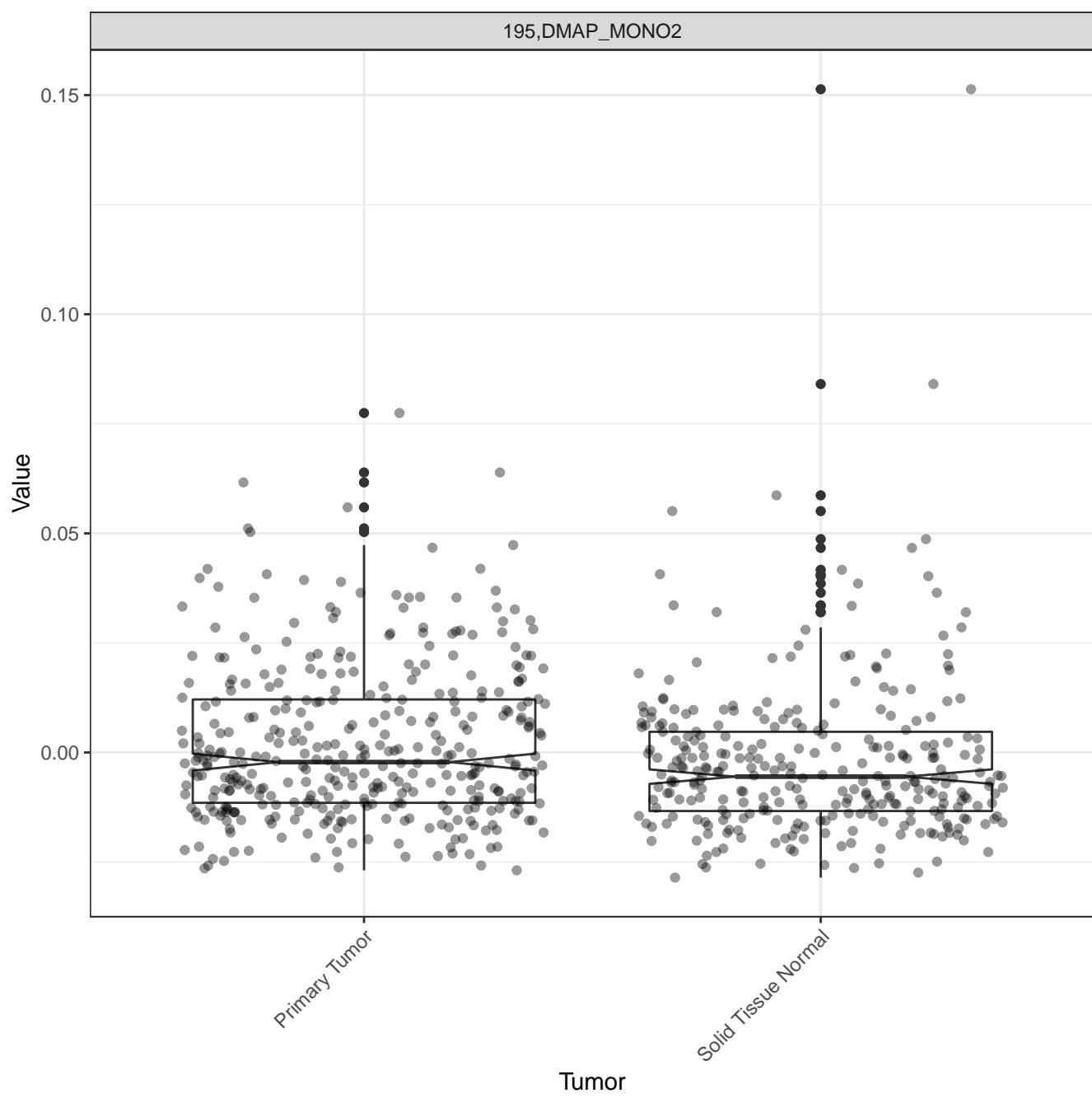
Primary Tumor

Tumor

Solid Tissue Normal



## 195,DMAP\_MONO2



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

Value

0.15

0.10

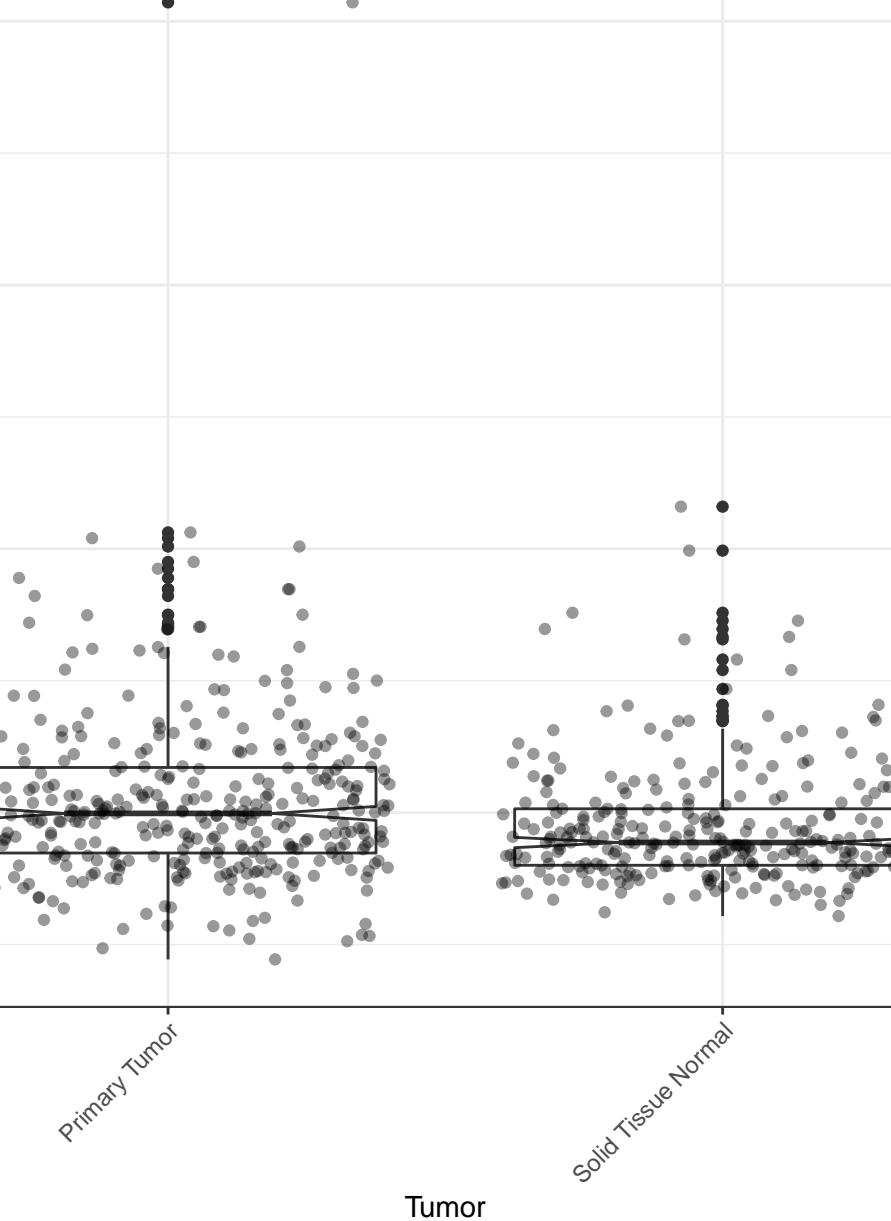
0.05

0.00

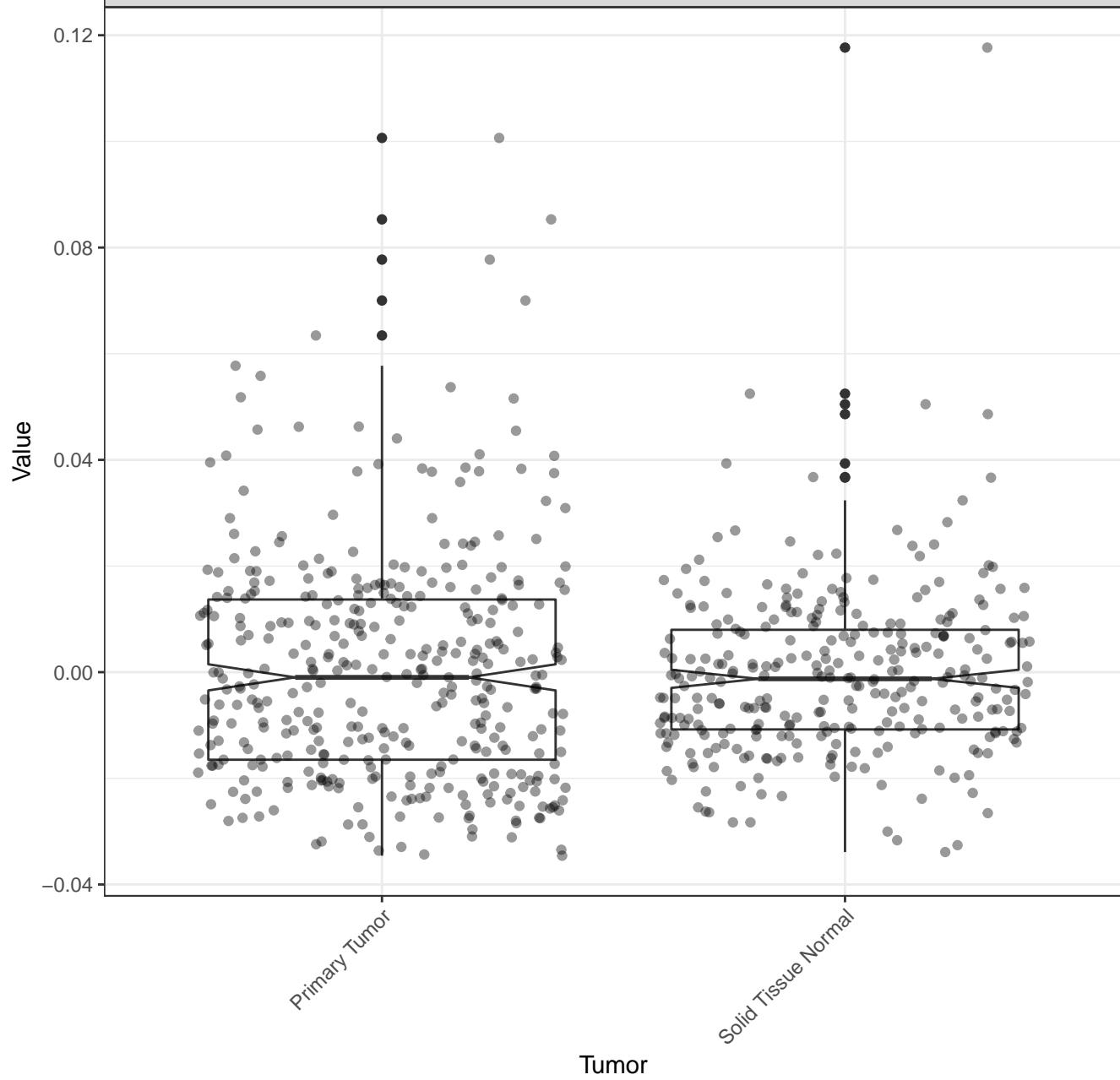
Primary Tumor

Solid Tissue Normal

Tumor



## 197,REACTOME\_METABOLISM\_OF\_MRNA



LV 198

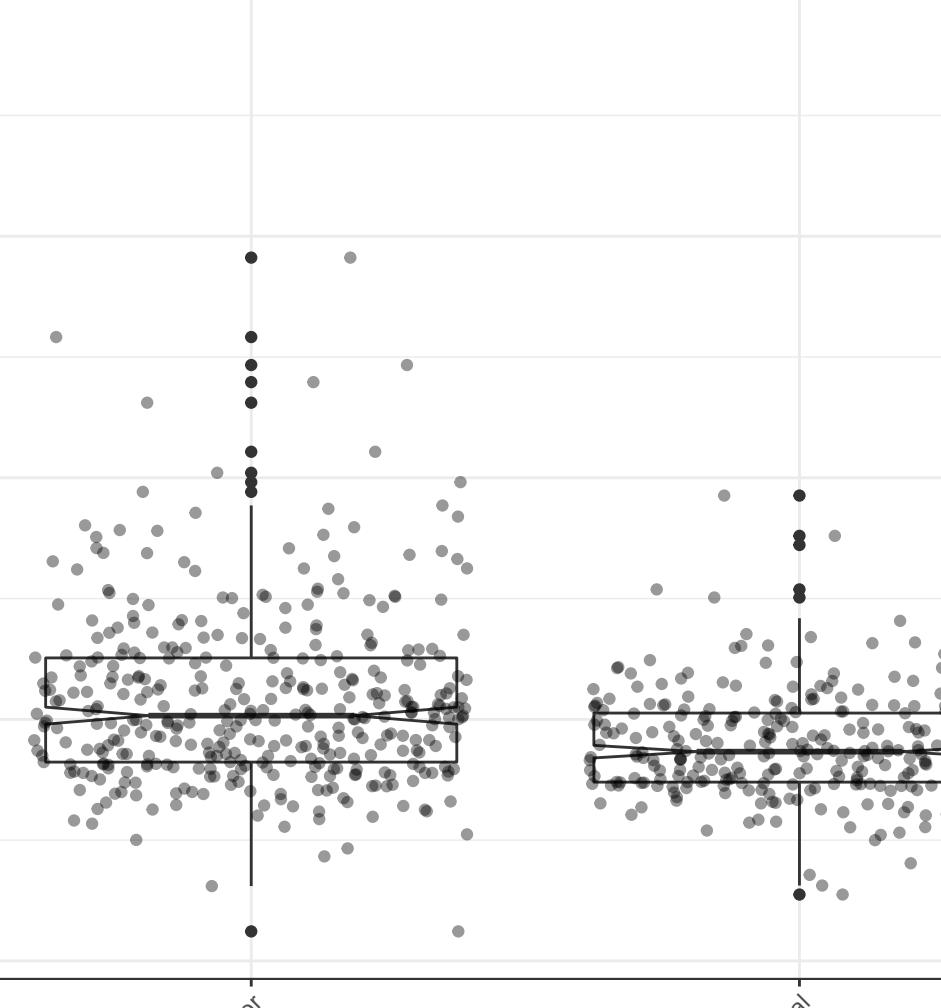
Value

0.15  
0.10  
0.05  
0.00  
-0.05

Primary Tumor

Solid Tissue Normal

Tumor



# 199,KEGG\_AUTOIMMUNE\_THYROID\_DISEASE

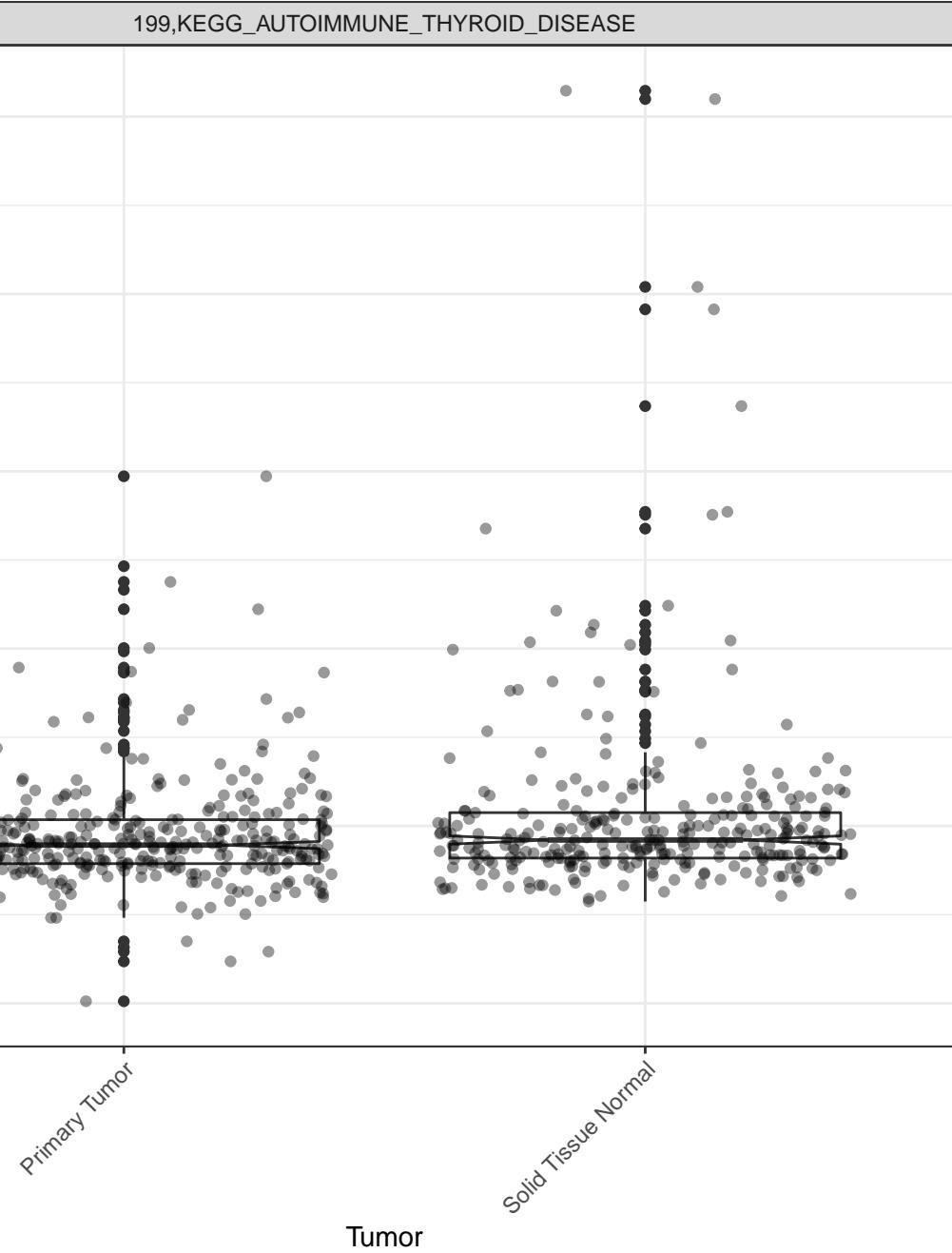
Value

0.20  
0.15  
0.10  
0.05  
0.00  
-0.05

Primary Tumor

Solid Tissue Normal

Tumor



LV 200

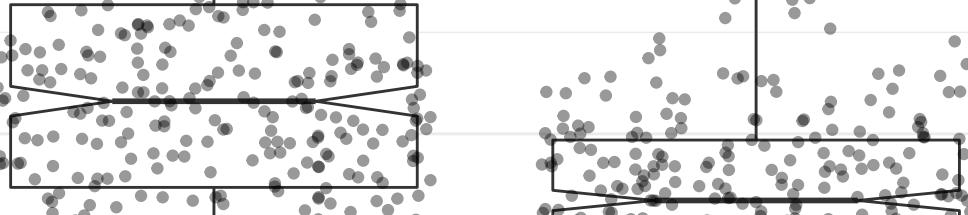
Value

0.075  
0.050  
0.025  
0.000  
-0.025

Primary Tumor

Solid Tissue Normal

Tumor



LV 201

Value

0.12

0.08

0.04

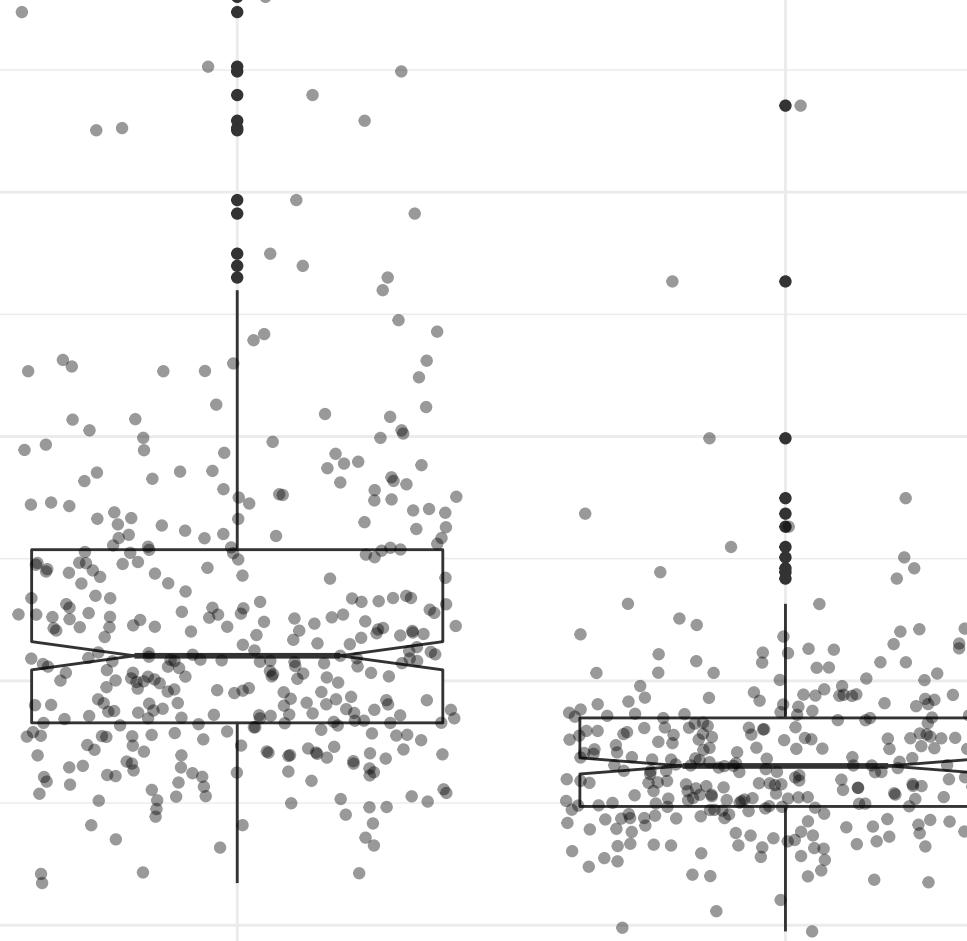
0.00

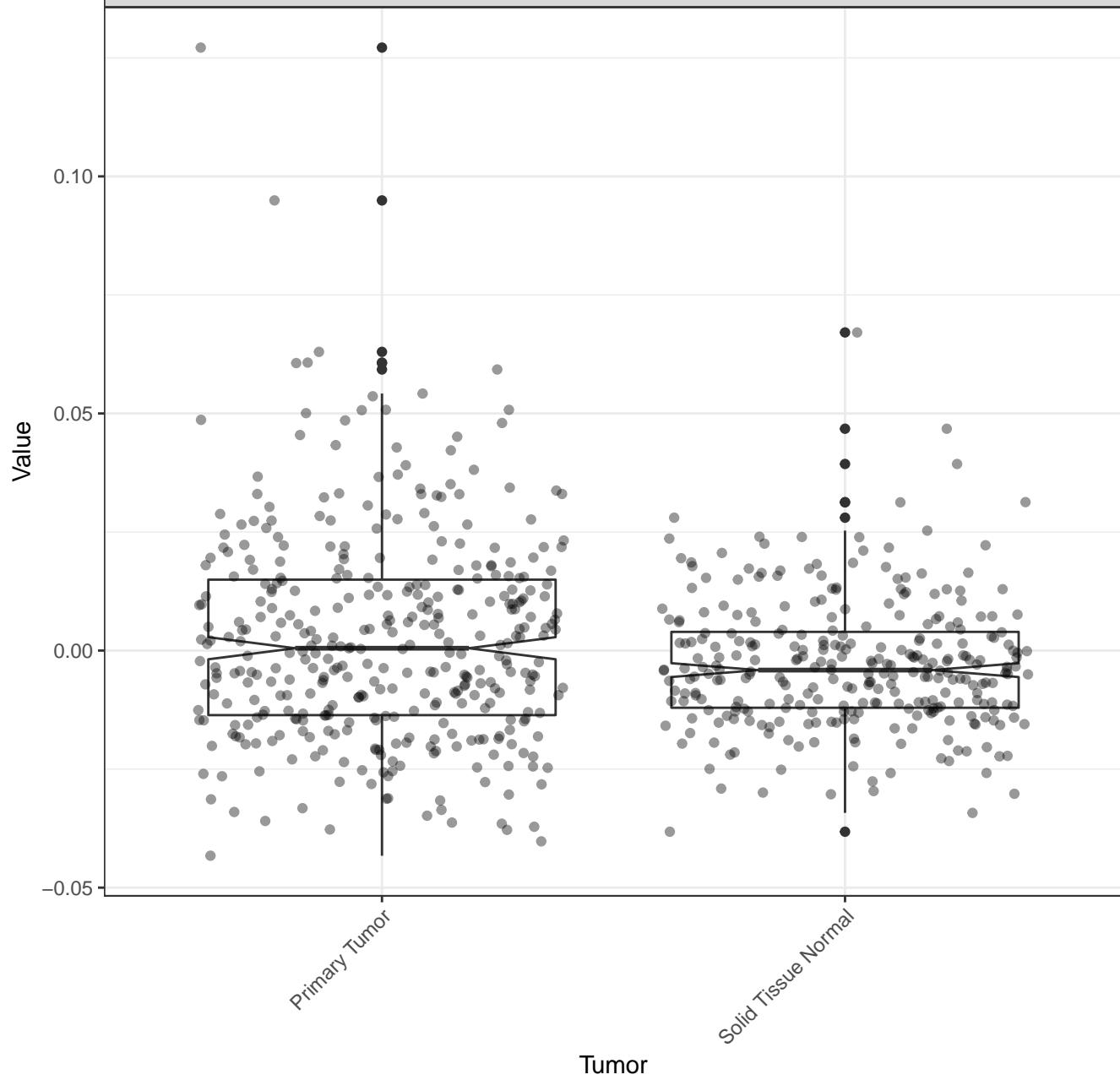
-0.04

Primary Tumor

Solid Tissue Normal

Tumor





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

Value

0.15

0.10

0.05

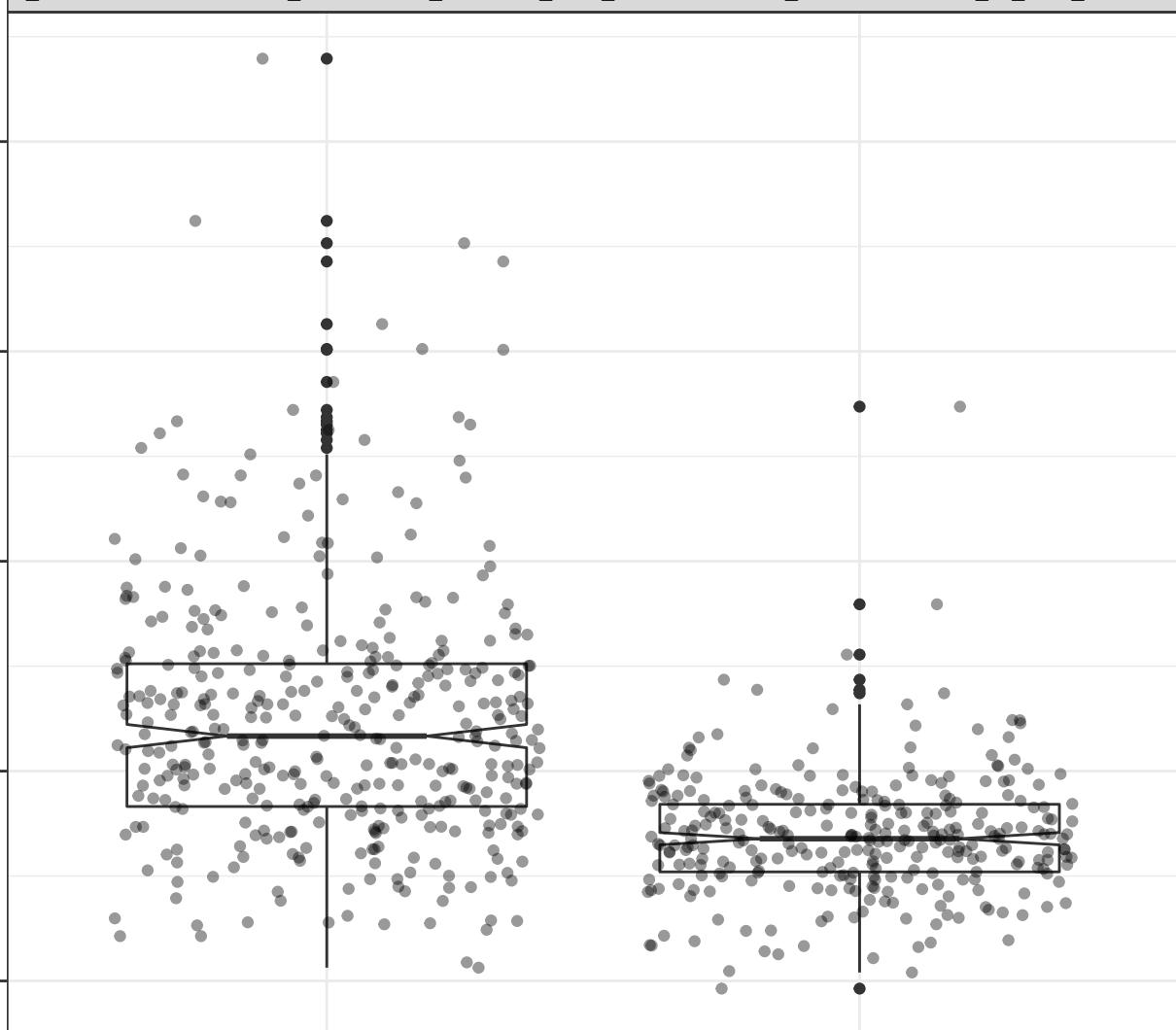
0.00

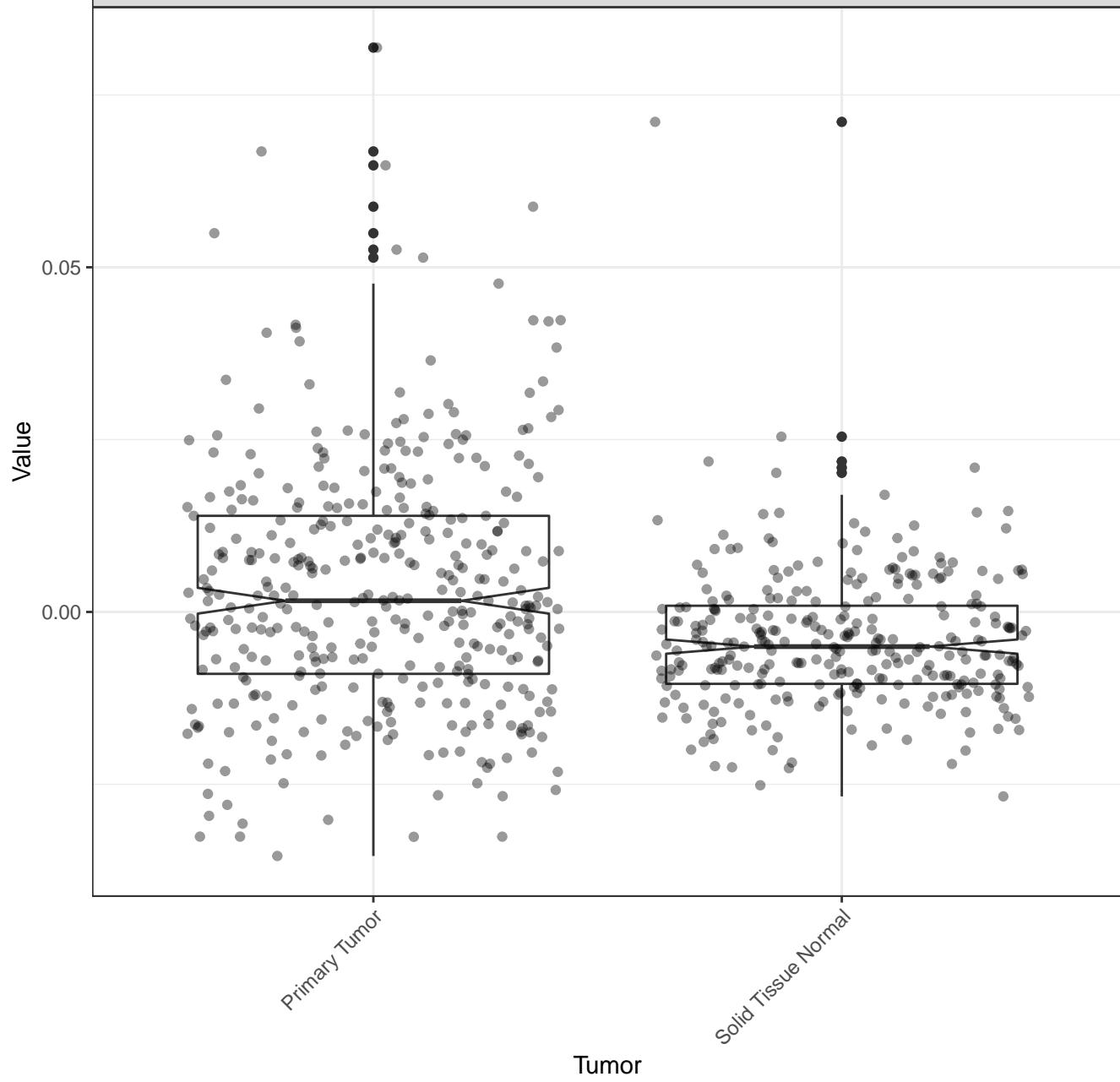
-0.05

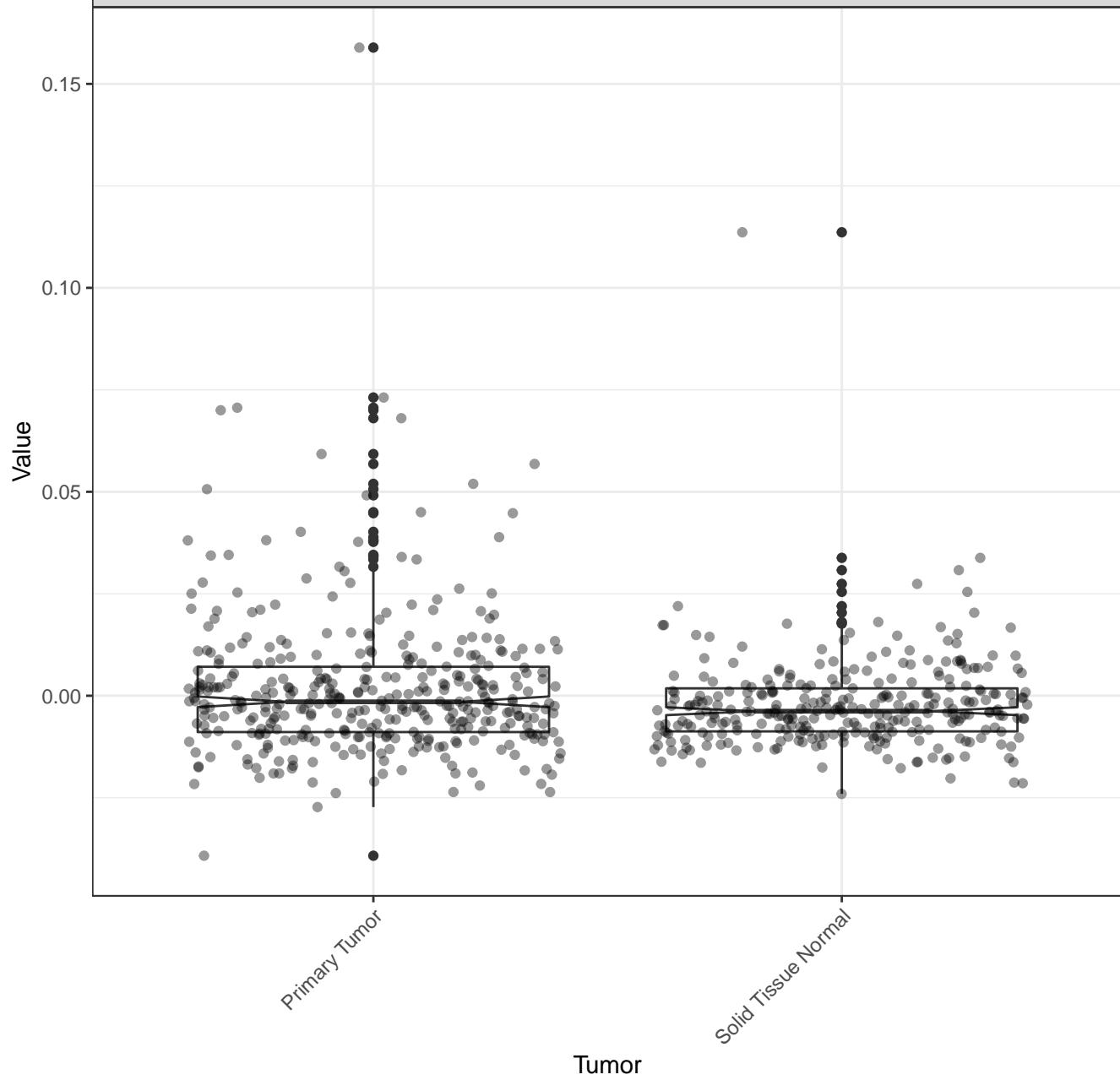
Primary Tumor

Tumor

Solid Tissue Normal







Value

0.08

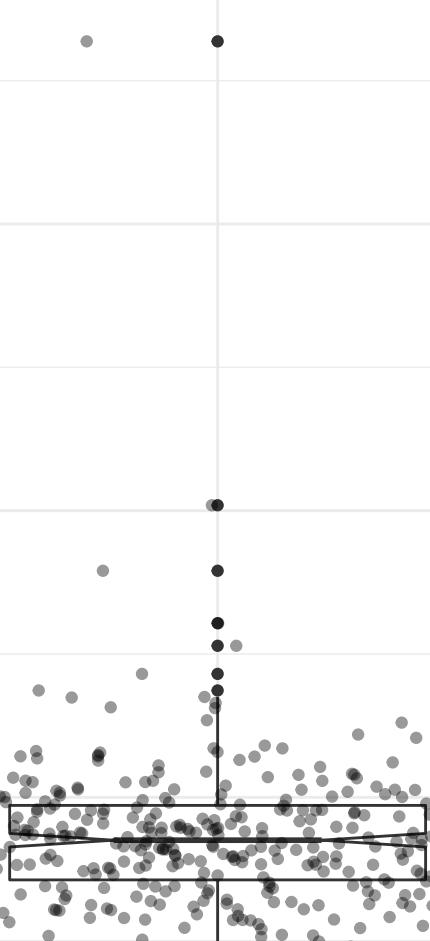
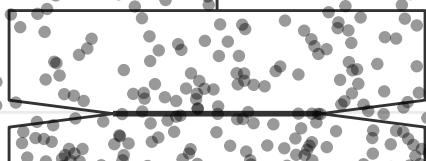
0.04

0.00

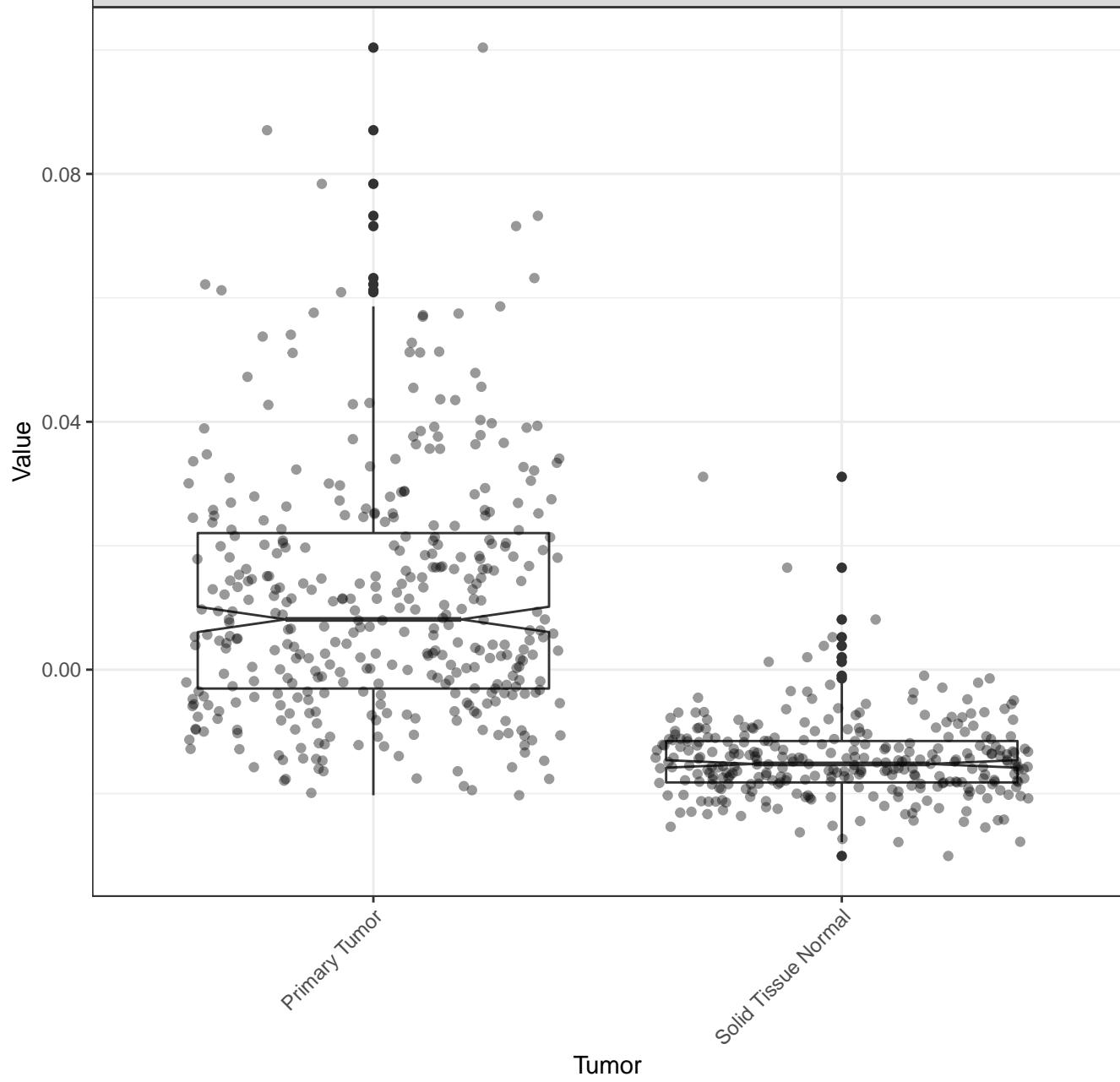
Primary Tumor

Solid Tissue Normal

Tumor



## 207,REACTOME\_METABOLISM\_OF\_RNA



Value

0.10

0.05

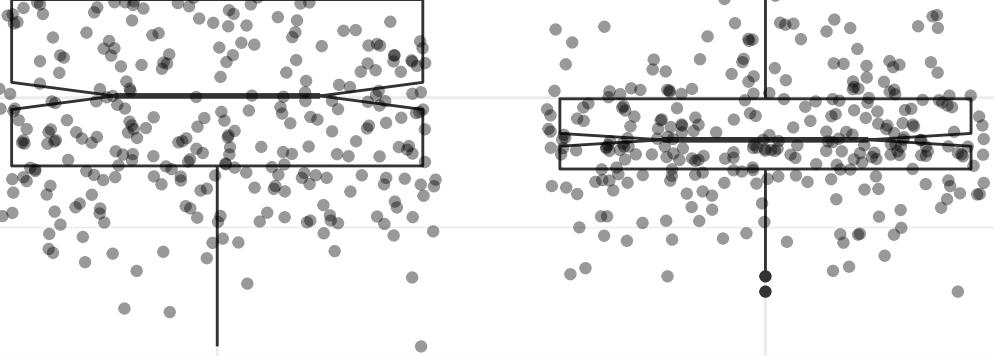
0.00

-0.05

Primary Tumor

Solid Tissue Normal

Tumor



Value

0.10

0.05

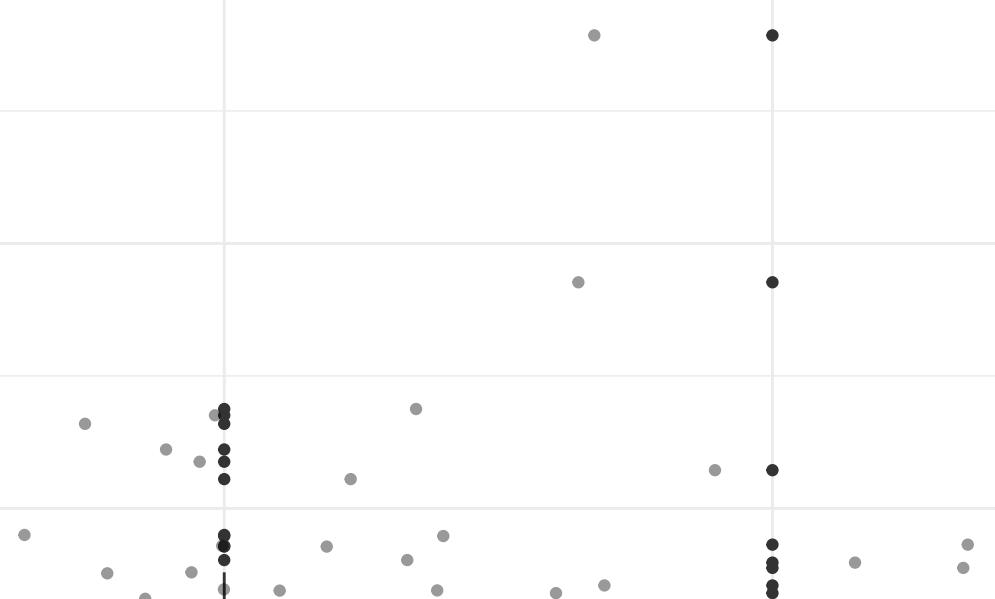
0.00

-0.05

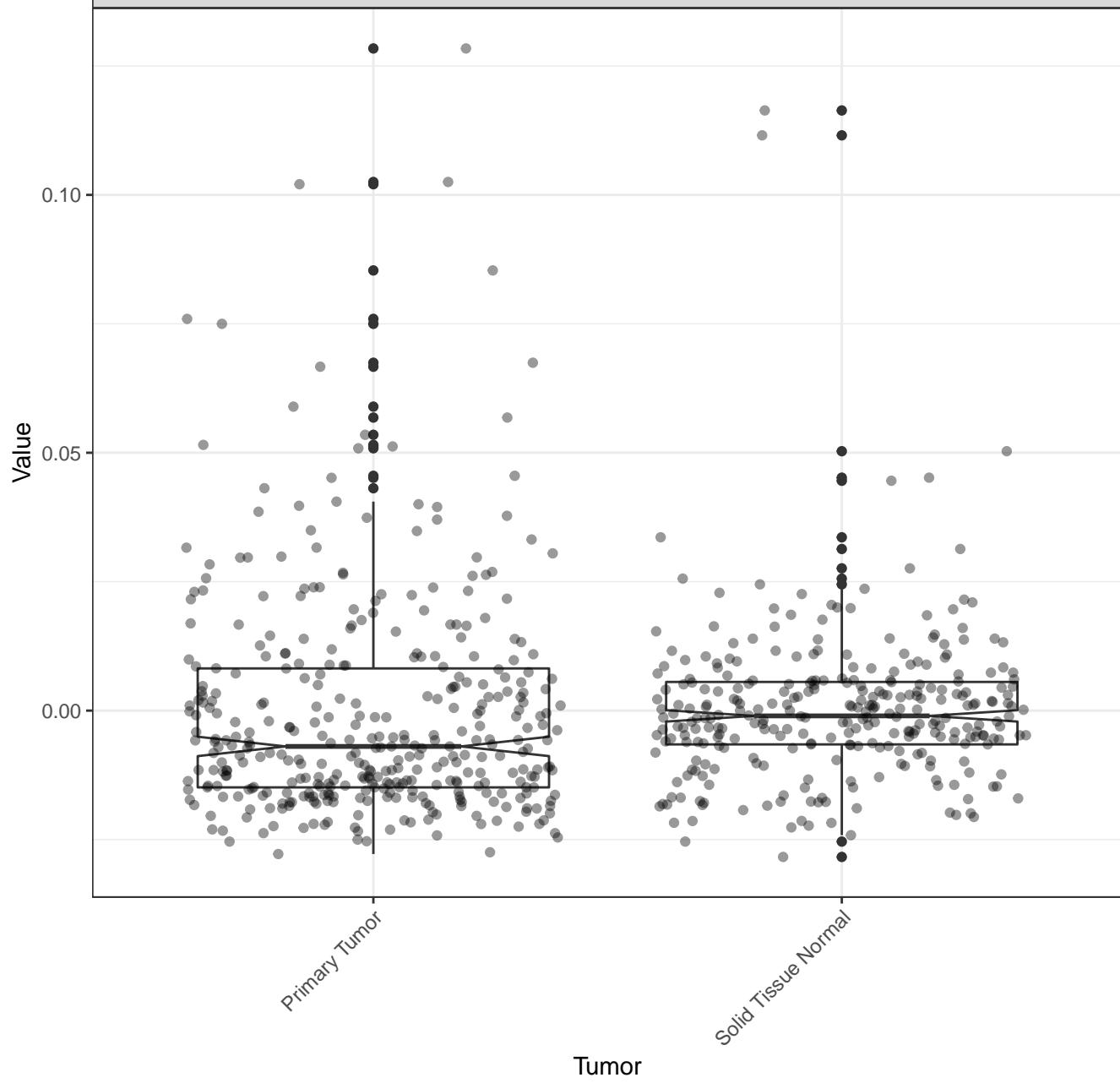
Primary Tumor

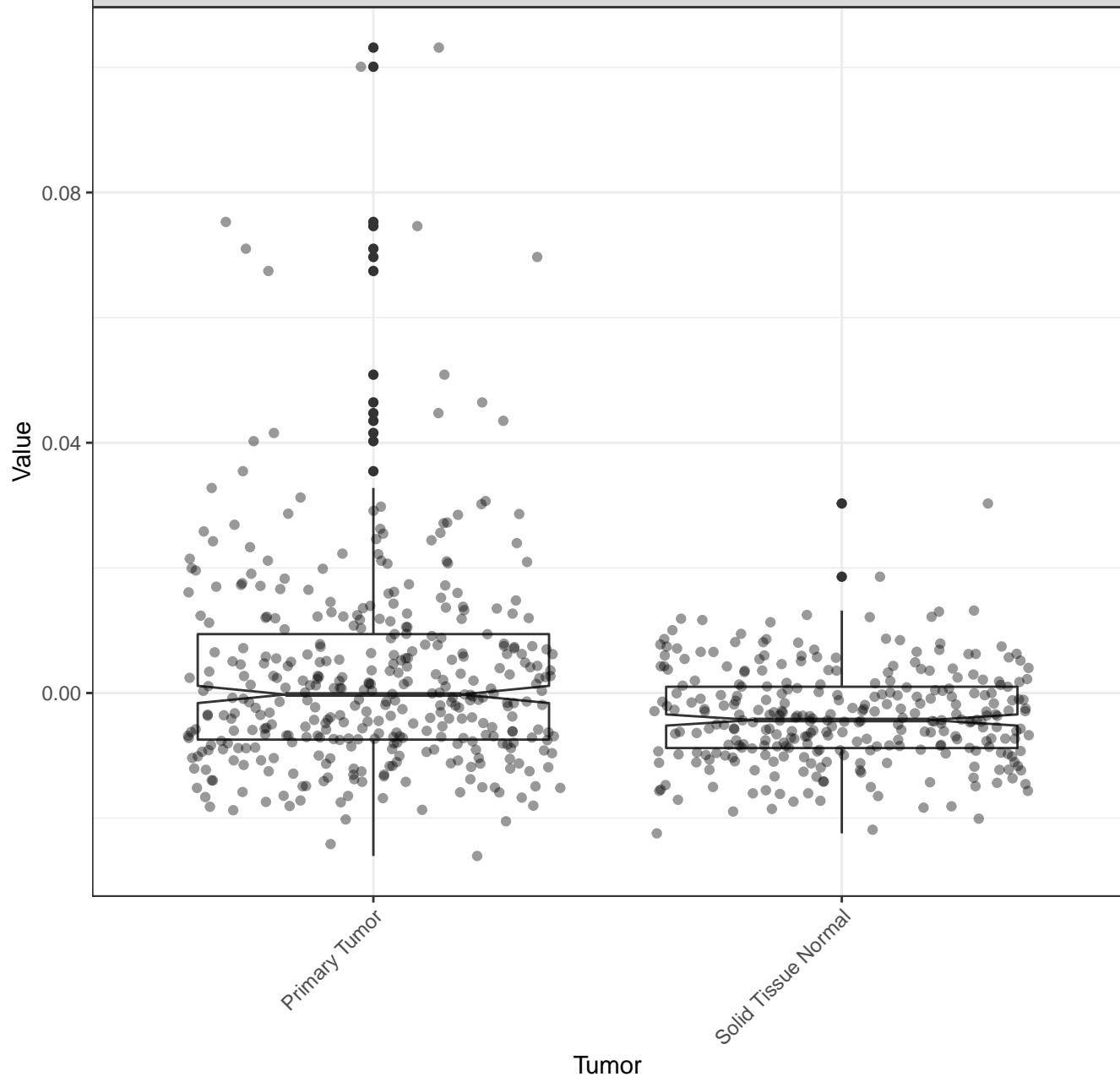
Solid Tissue Normal

Tumor

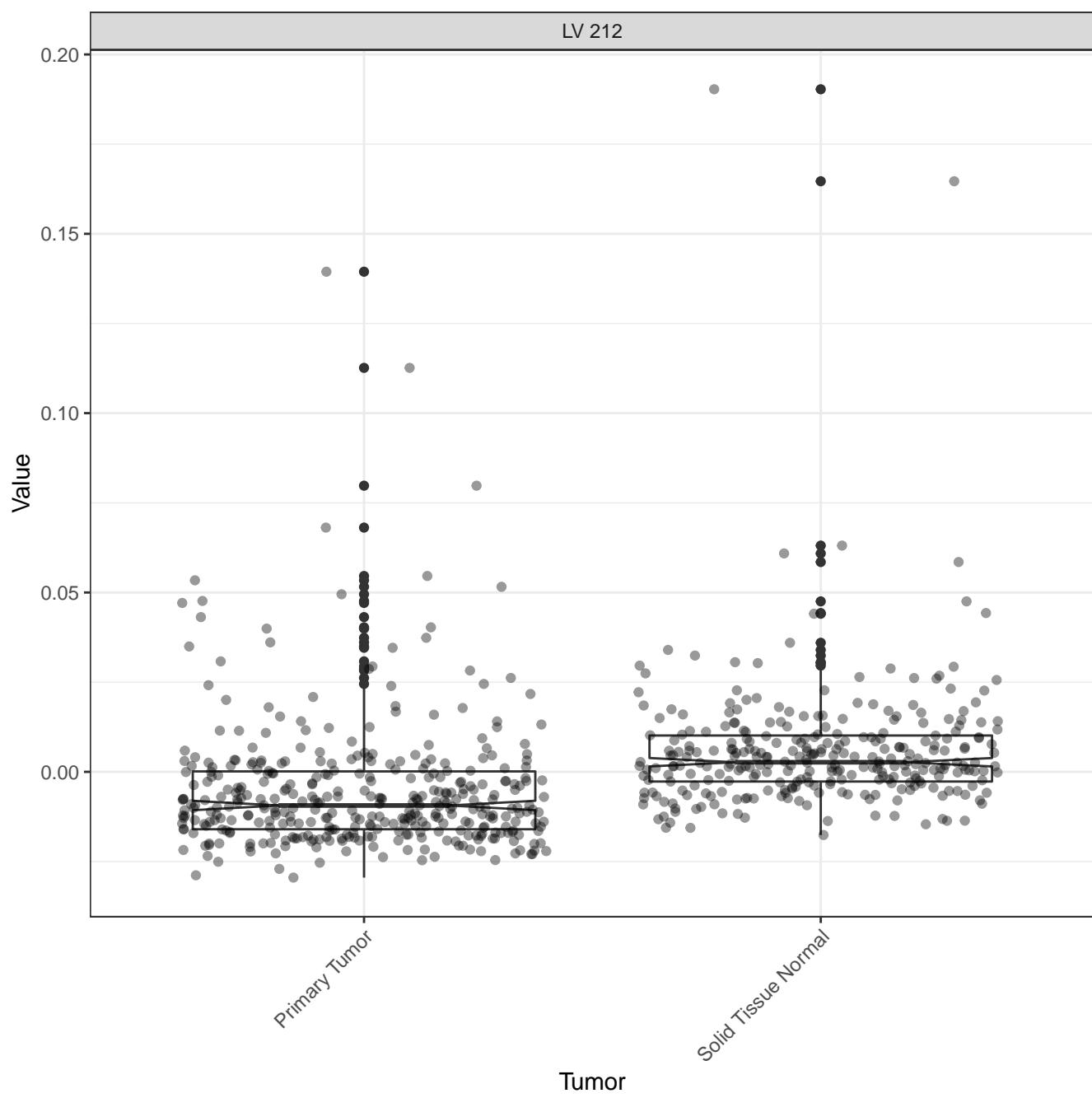


## 210,PID\_HES\_HEYPATHWAY





LV 212



LV 213

Value

0.12

0.08

0.04

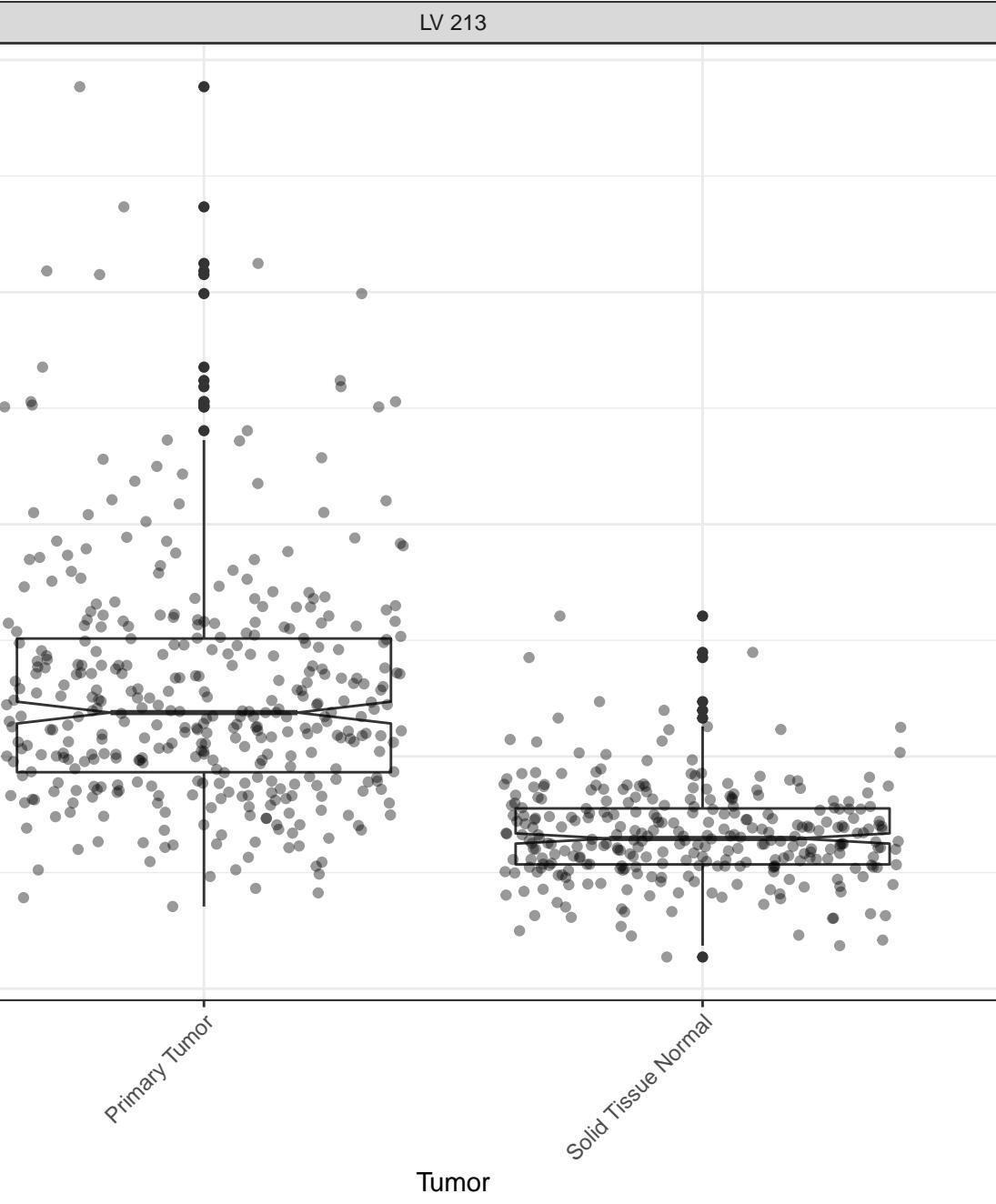
0.00

-0.04

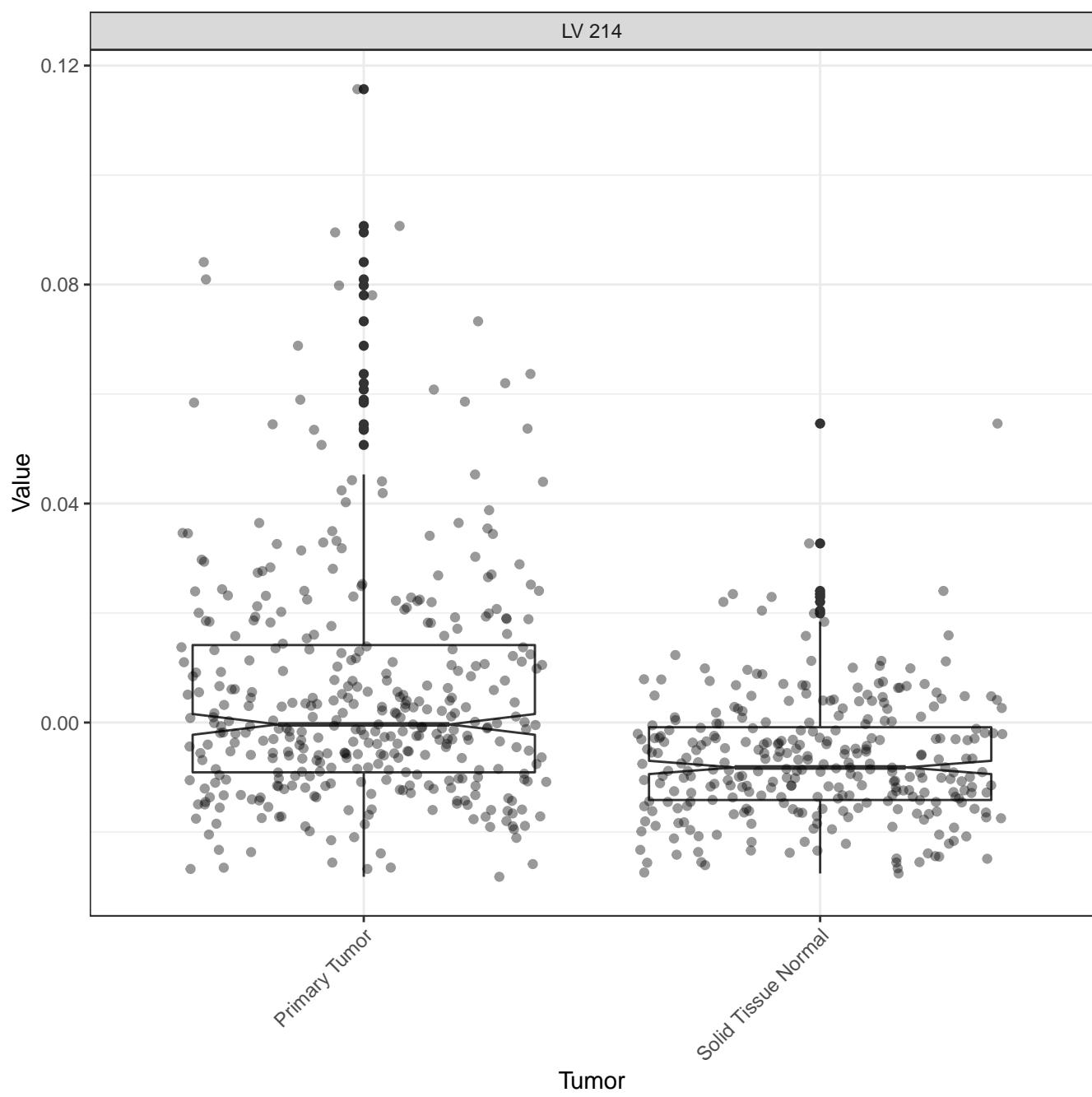
Primary Tumor

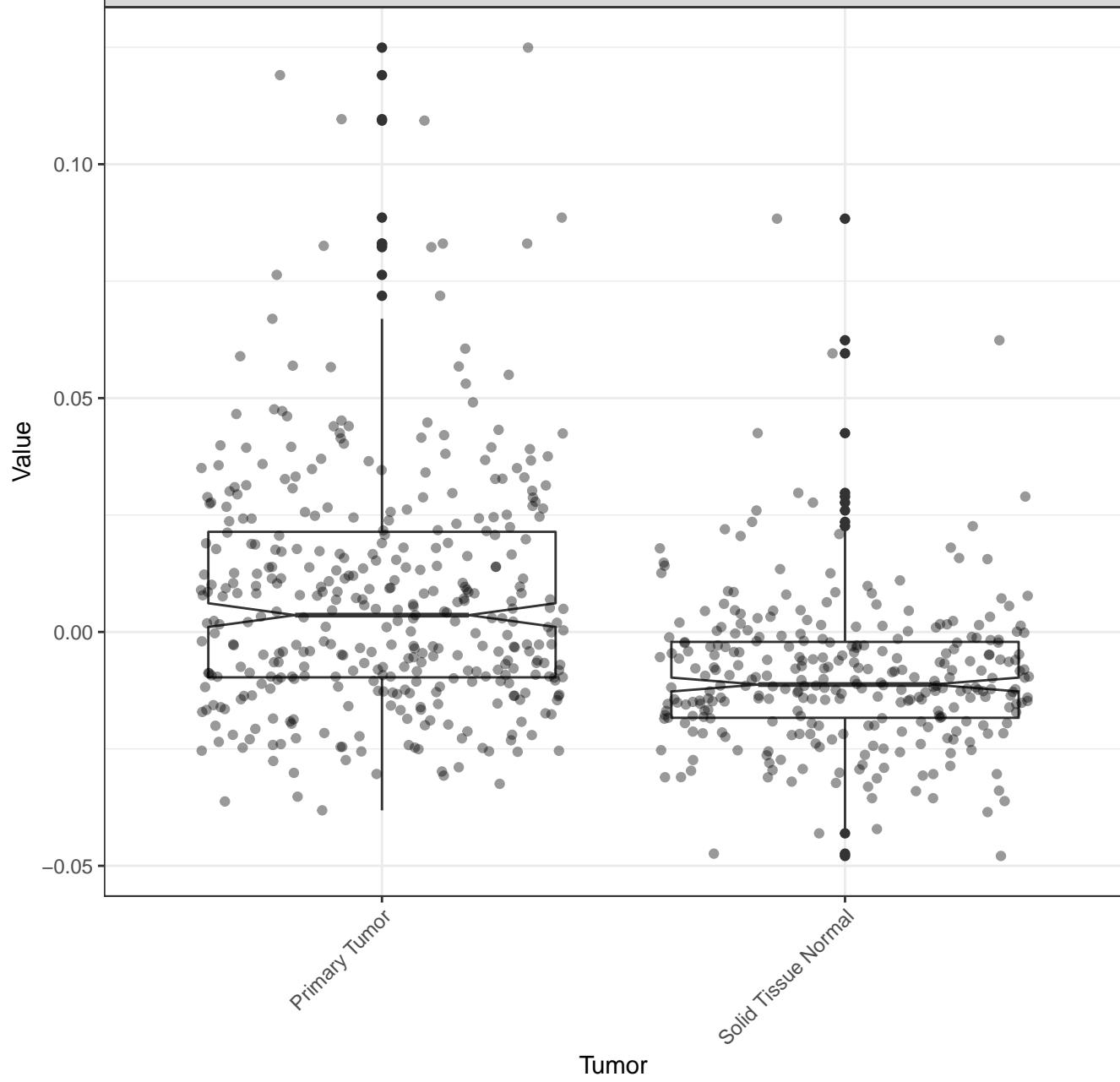
Tumor

Solid Tissue Normal

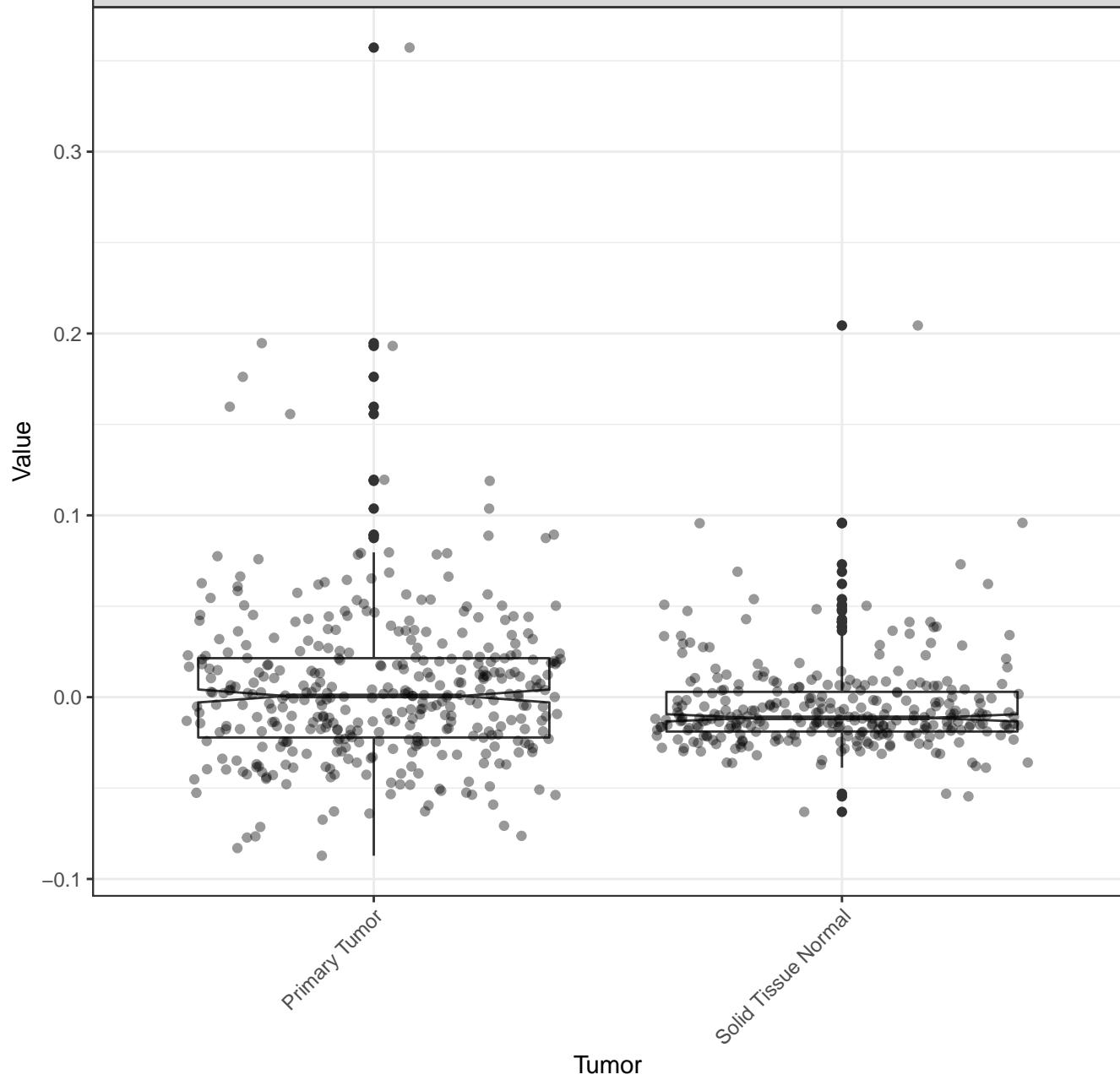


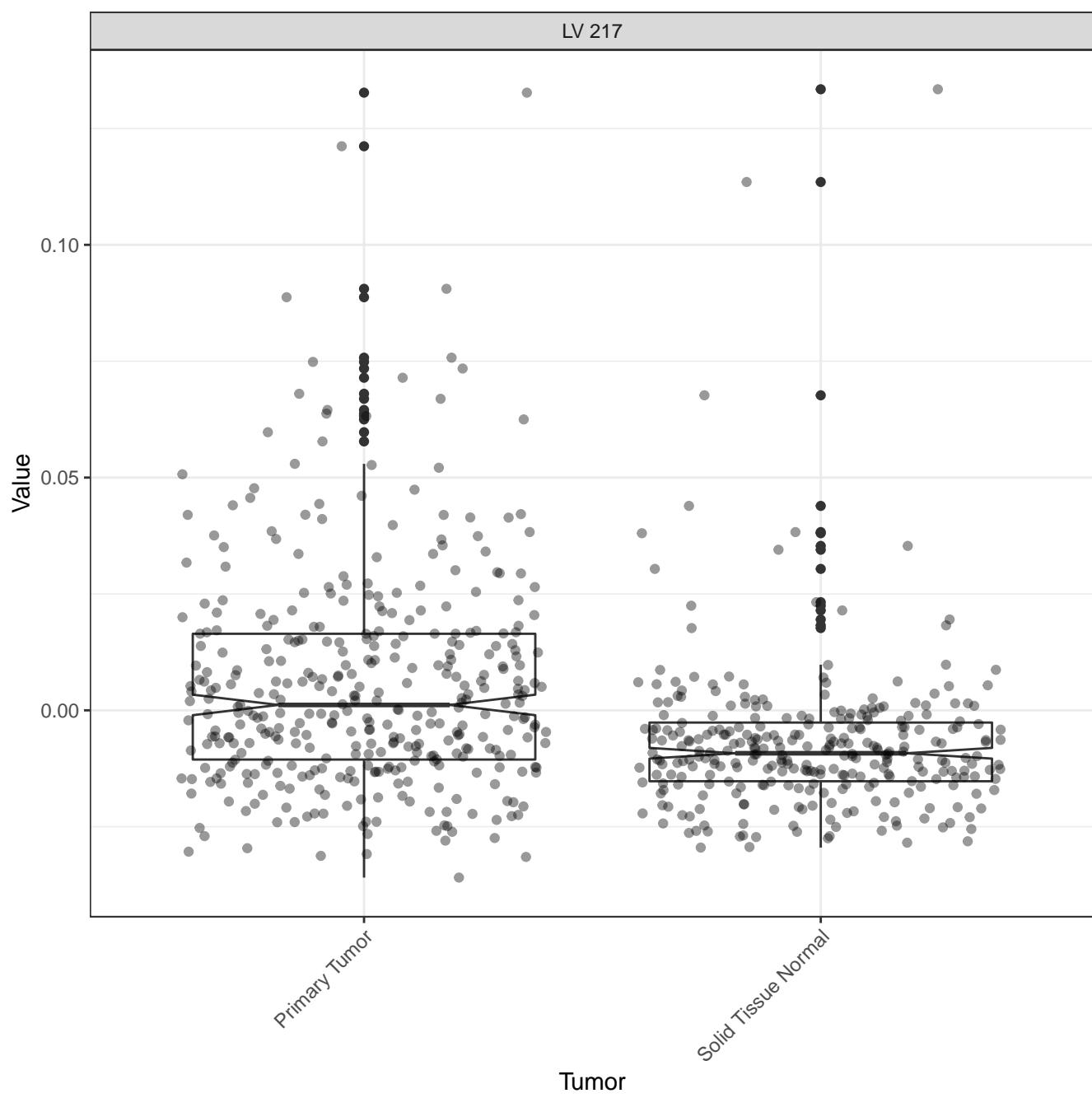
LV 214



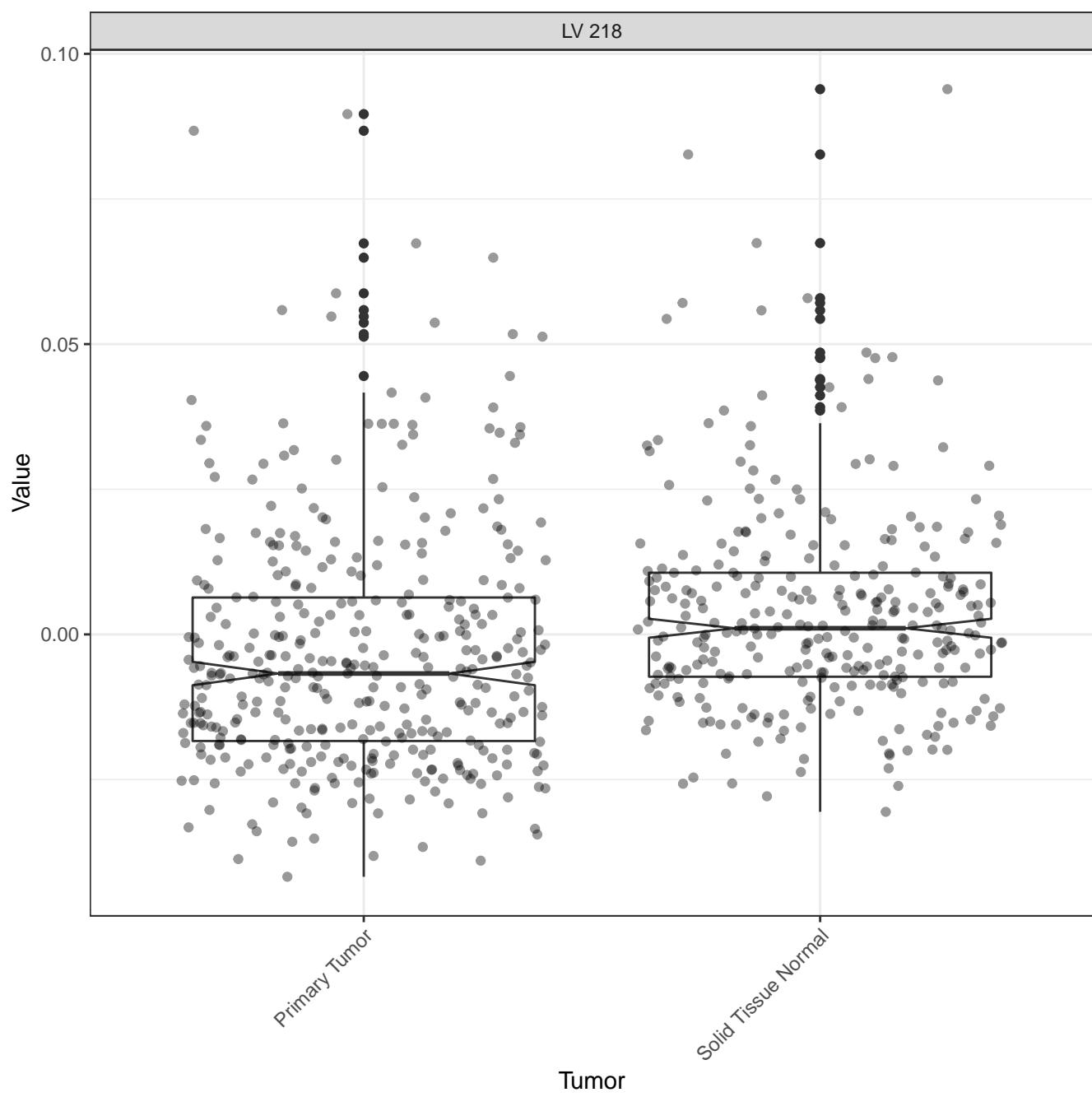


# 216,KEGG\_PATHOGENIC\_ESCHERICHIA\_COLI\_INFECTON





LV 218



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

Value

0.15

0.10

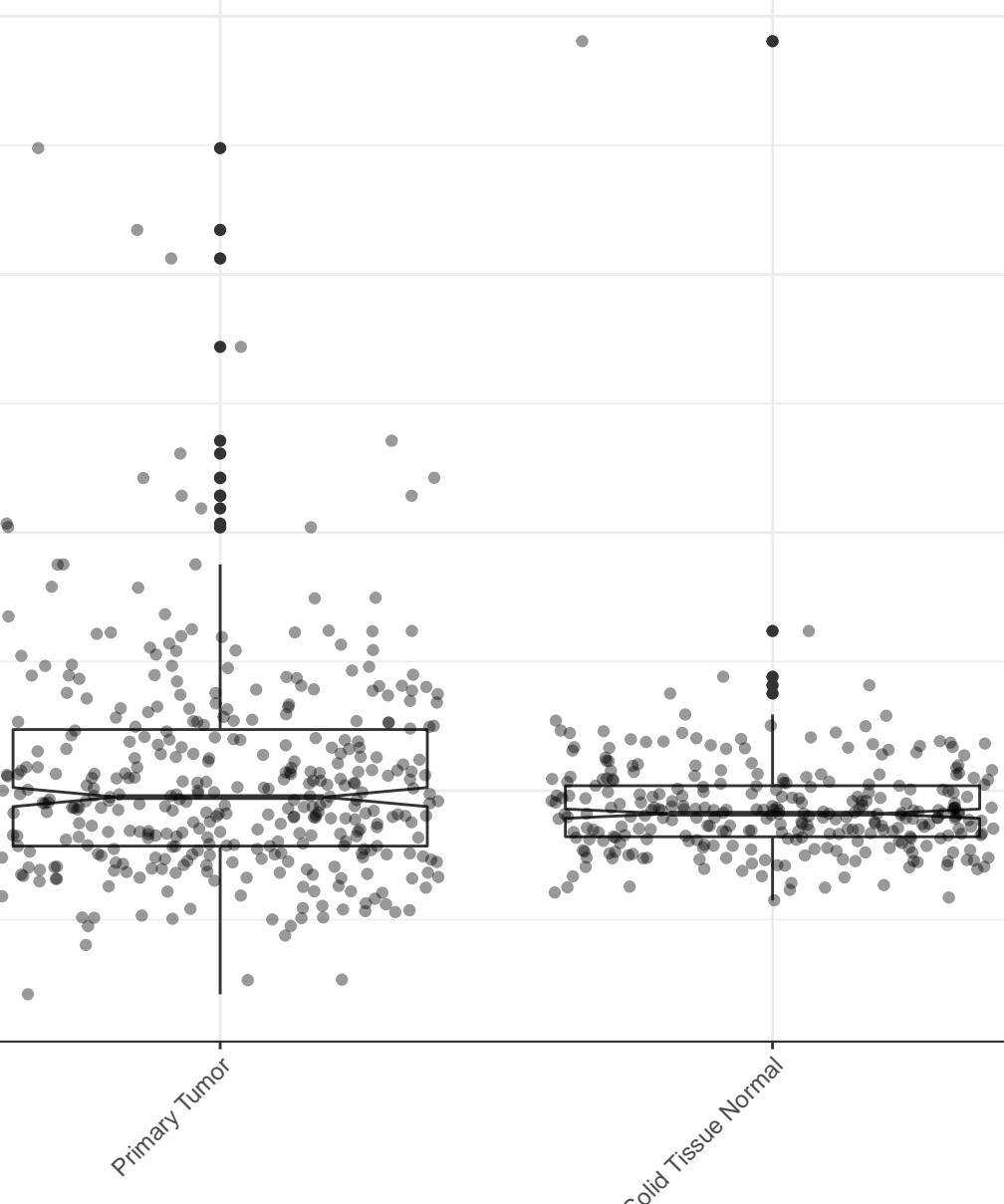
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



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

Value

0.15

0.10

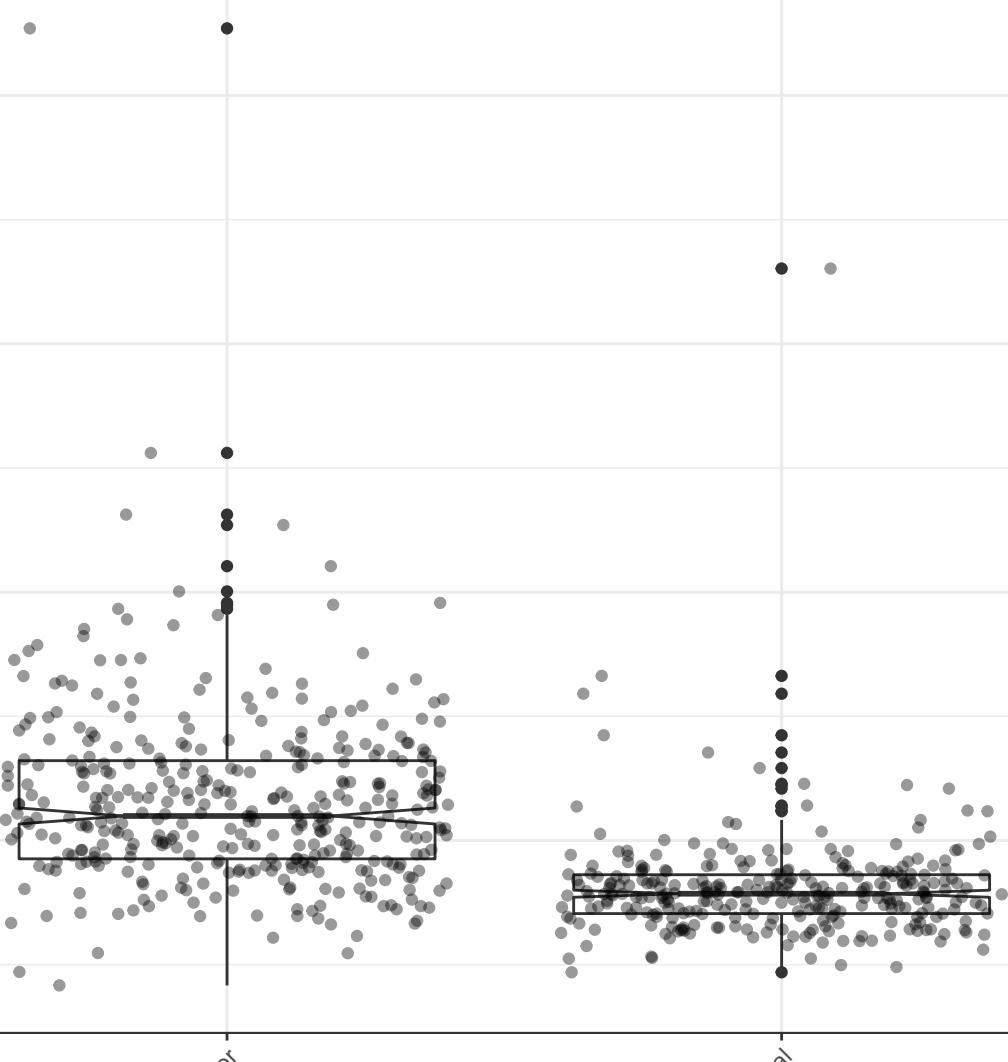
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



## 221,DMAP\_ERY4

Value

0.10

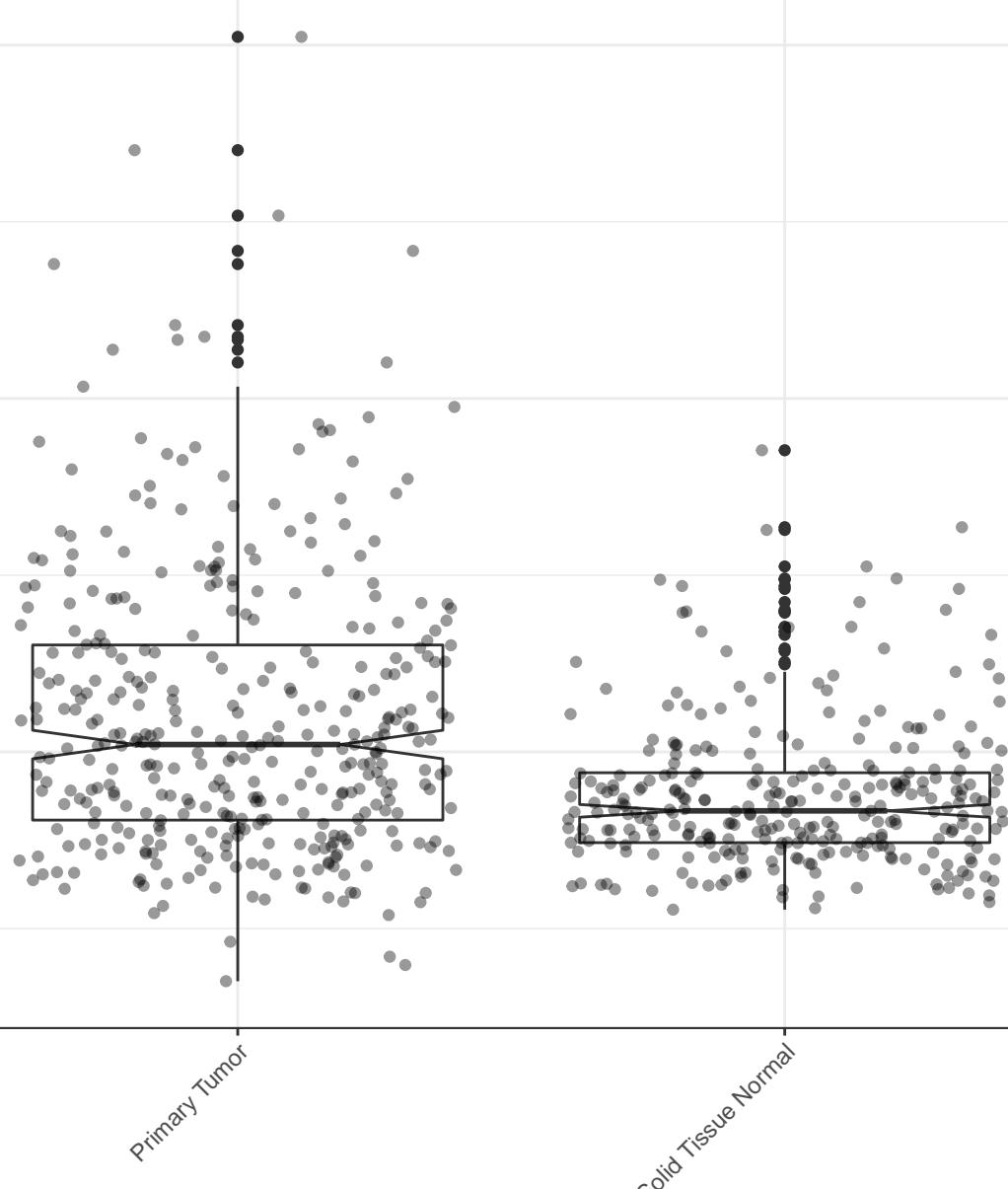
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



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

Value

0.20

0.15

0.10

0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



LV 223

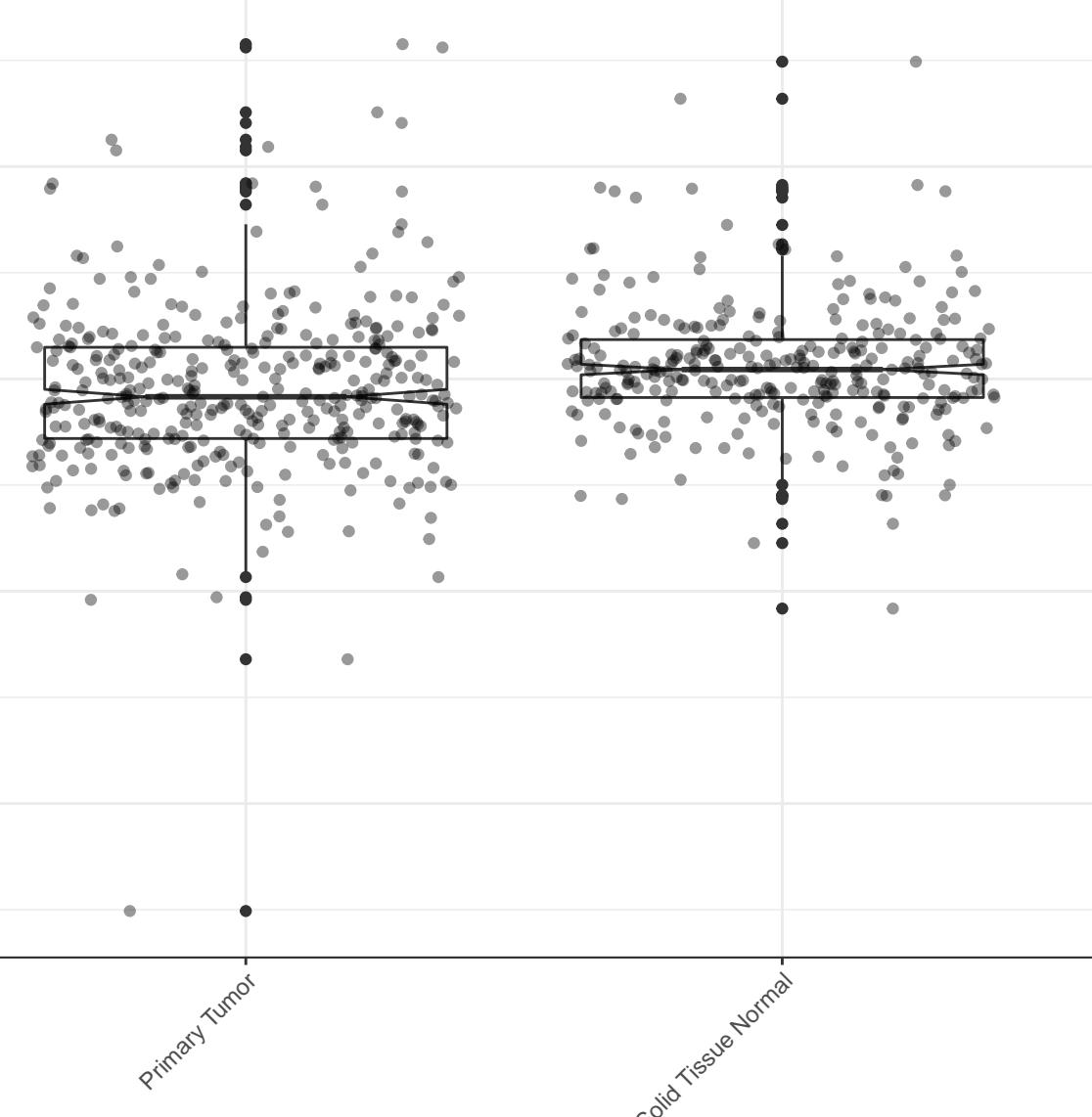
Value

0.10  
0.05  
0.00  
-0.05  
-0.10

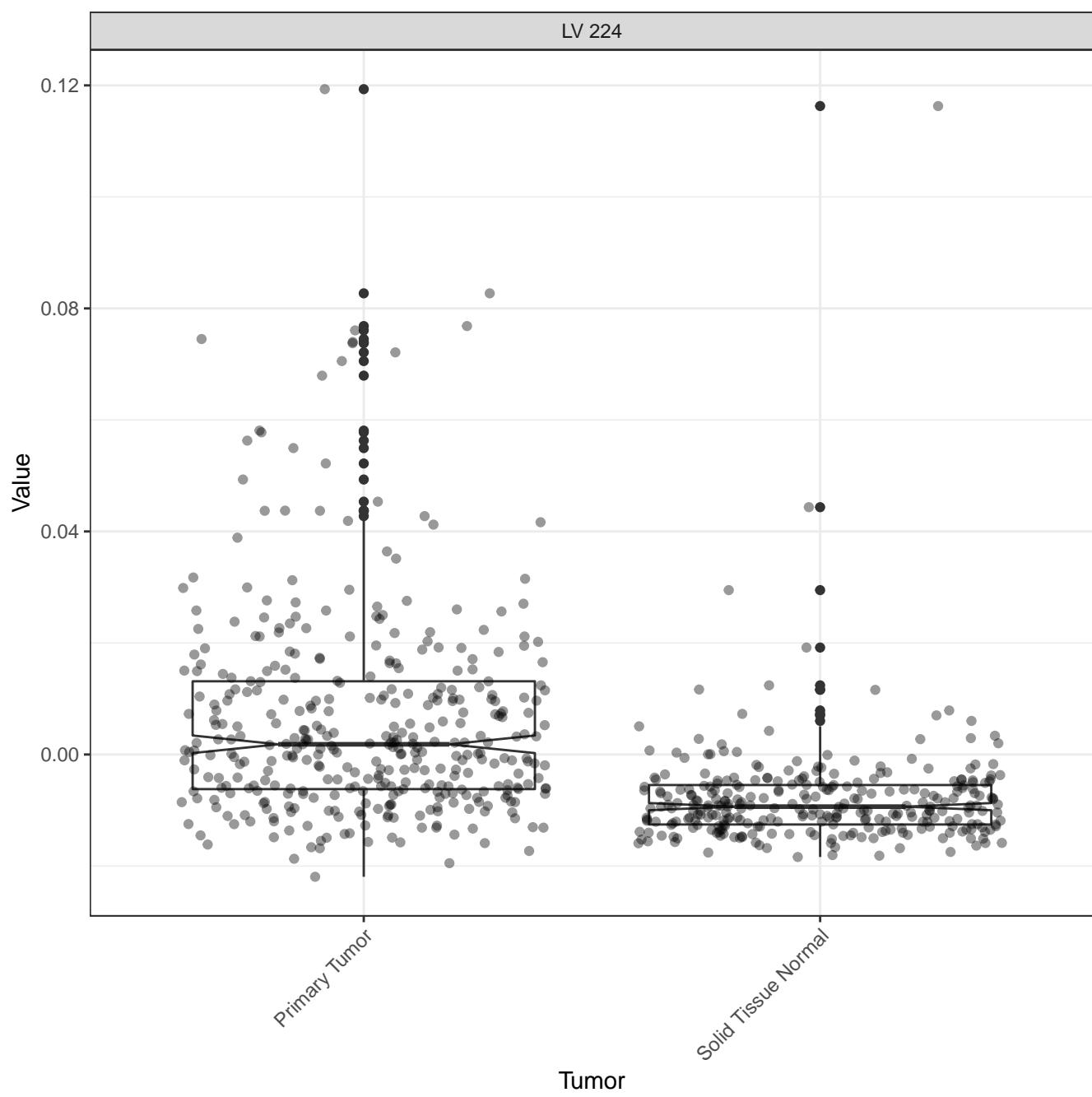
Primary Tumor

Solid Tissue Normal

Tumor



LV 224



Value

0.15

0.10

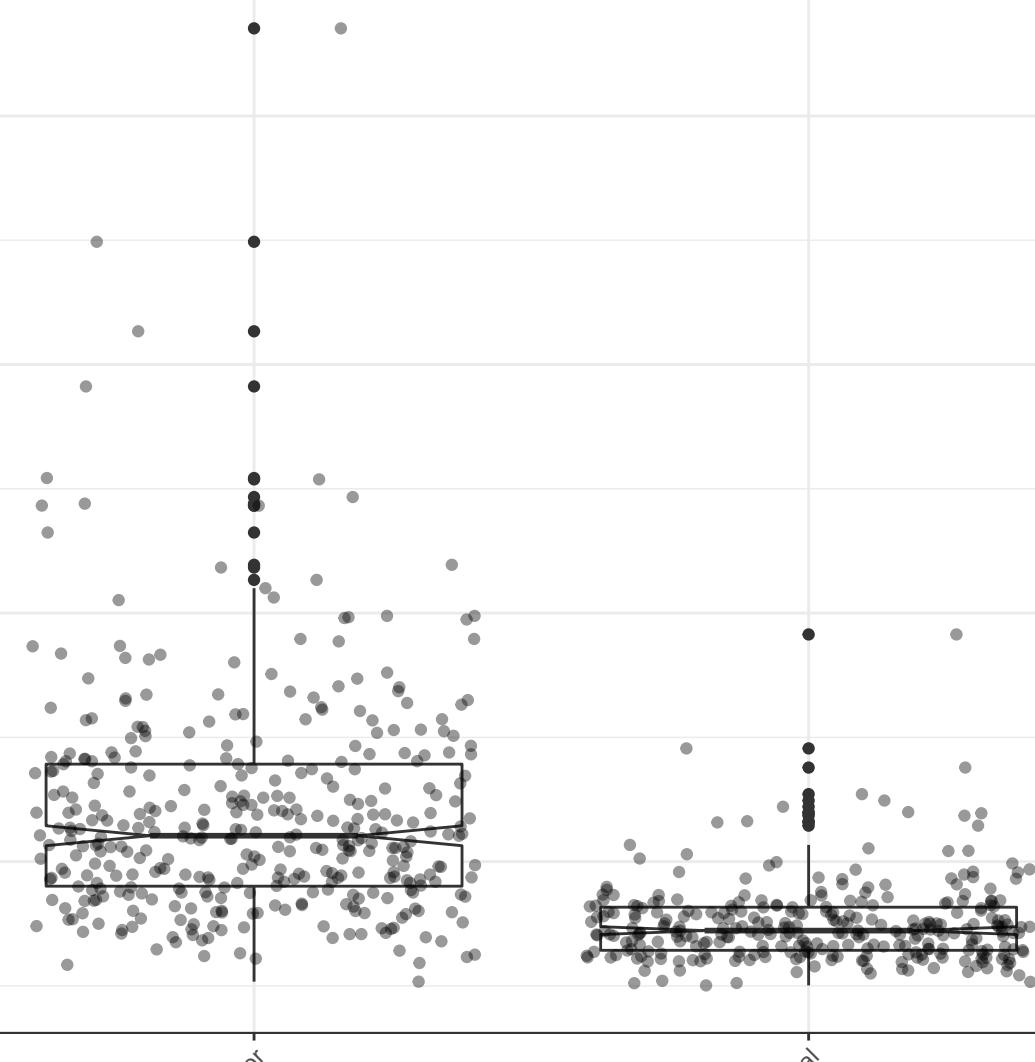
0.05

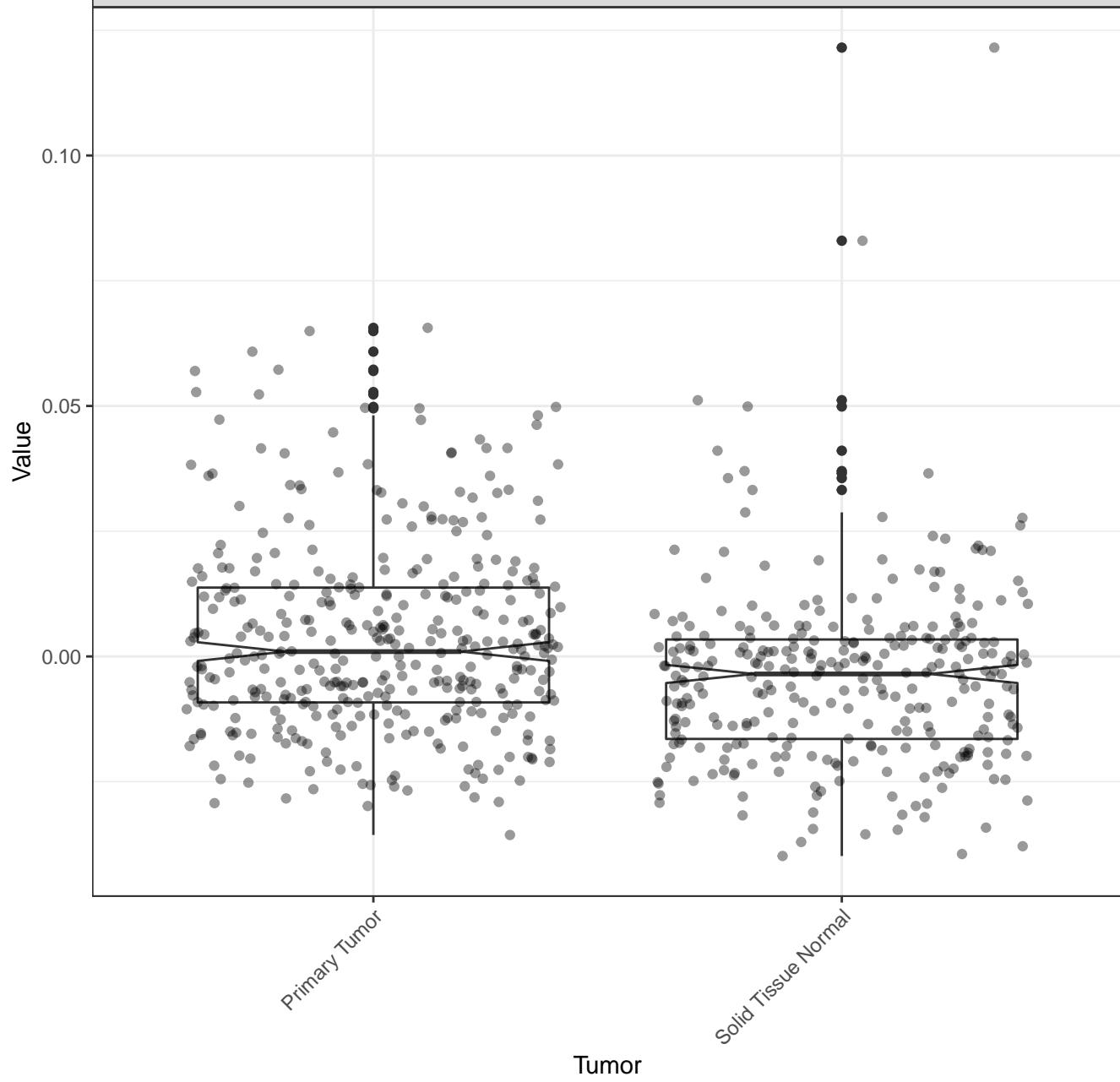
0.00

Primary Tumor

Solid Tissue Normal

Tumor





Value

0.10

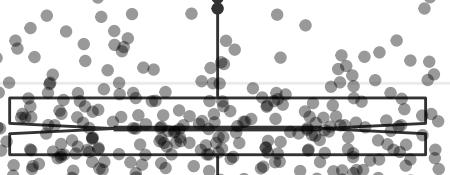
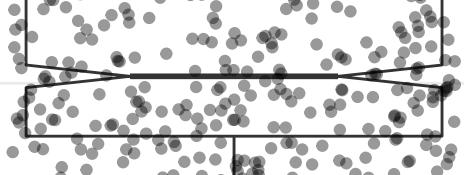
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



## 228,DMAP\_NKA3

Value

0.3

0.2

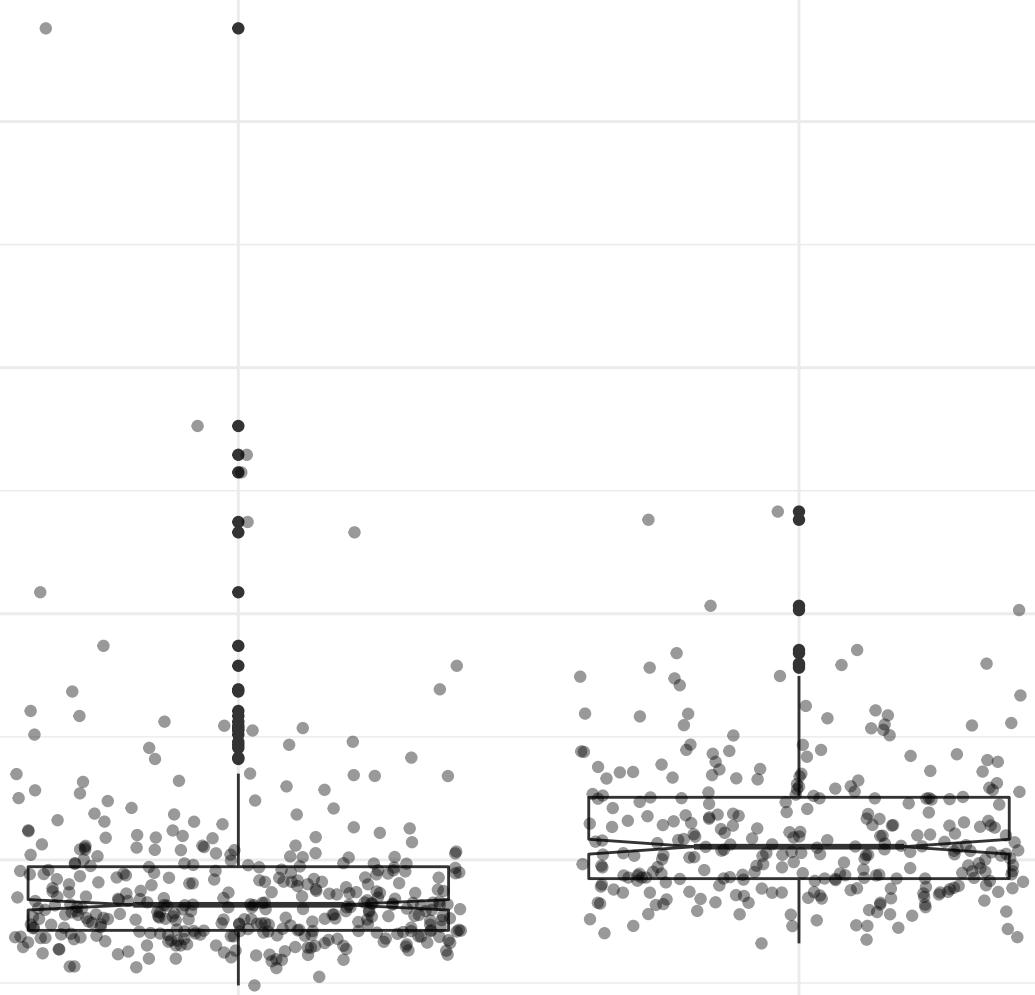
0.1

0.0

Primary Tumor

Solid Tissue Normal

Tumor



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

Value

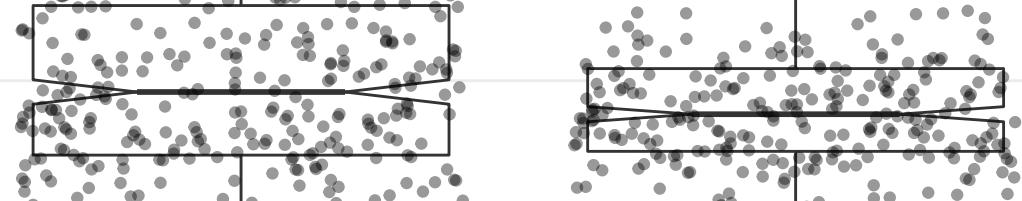
0.05

0.00

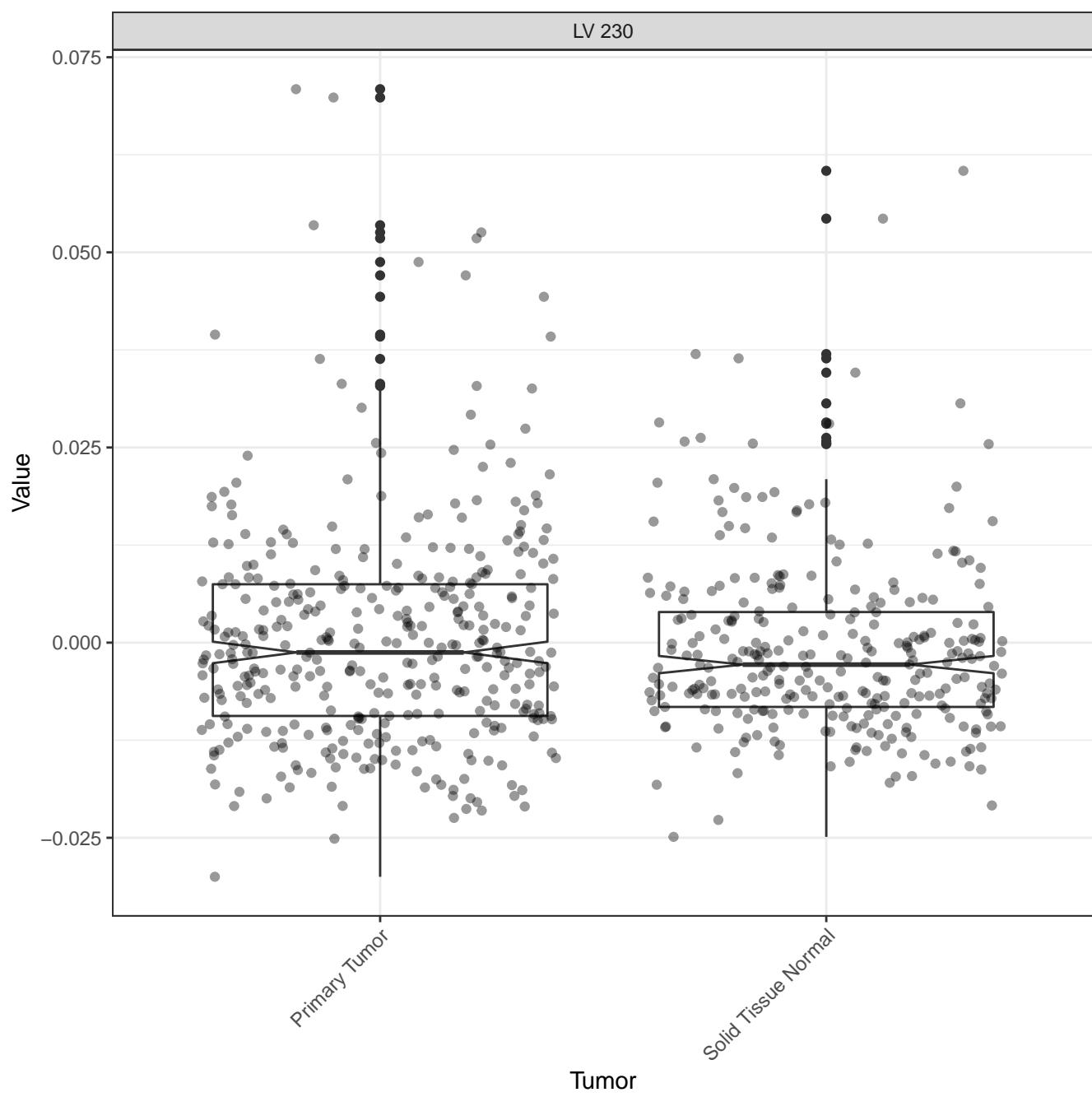
Primary Tumor

Solid Tissue Normal

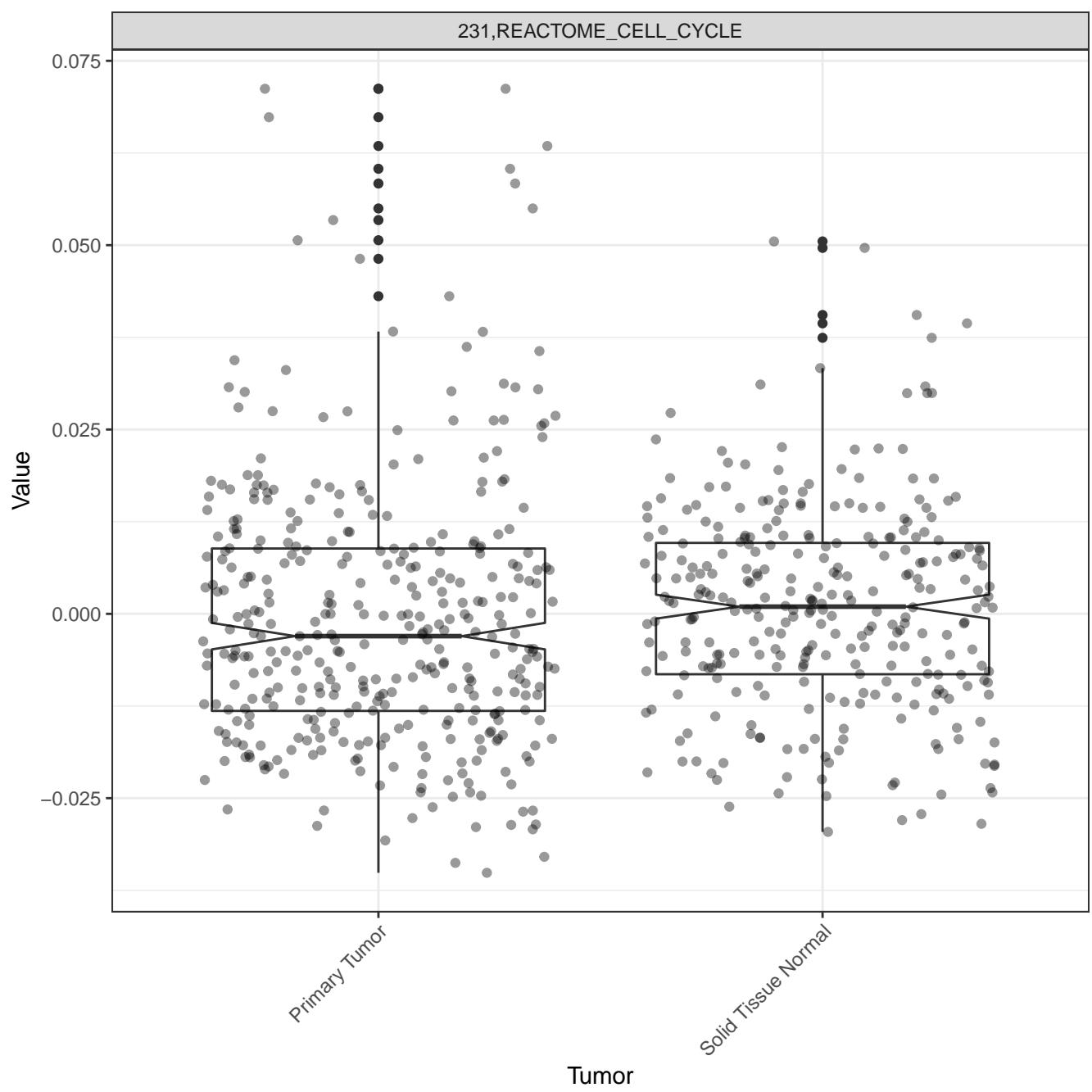
Tumor



LV 230



## 231,REACTOME\_CELL\_CYCLE



Value

0.15

0.10

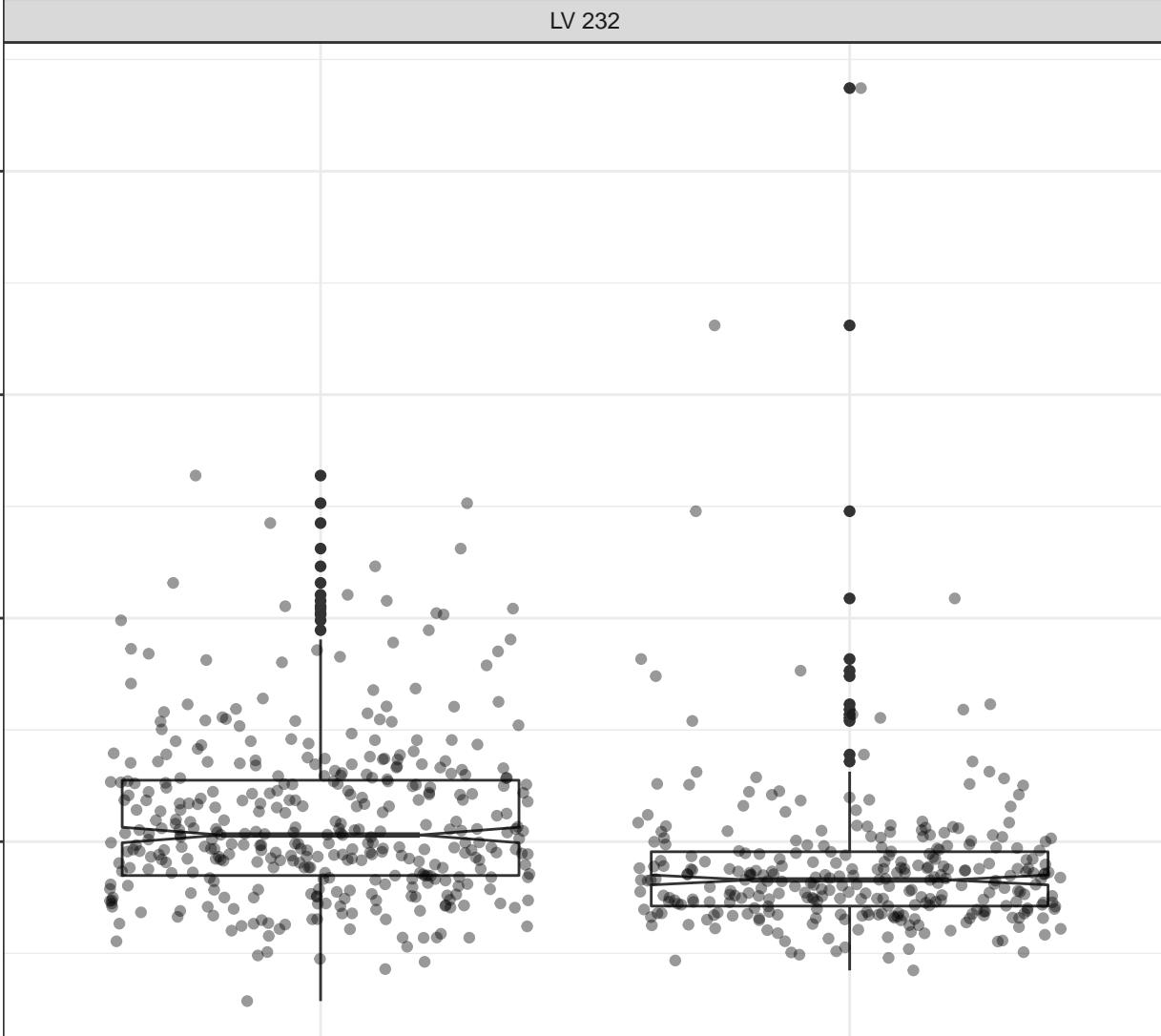
0.05

0.00

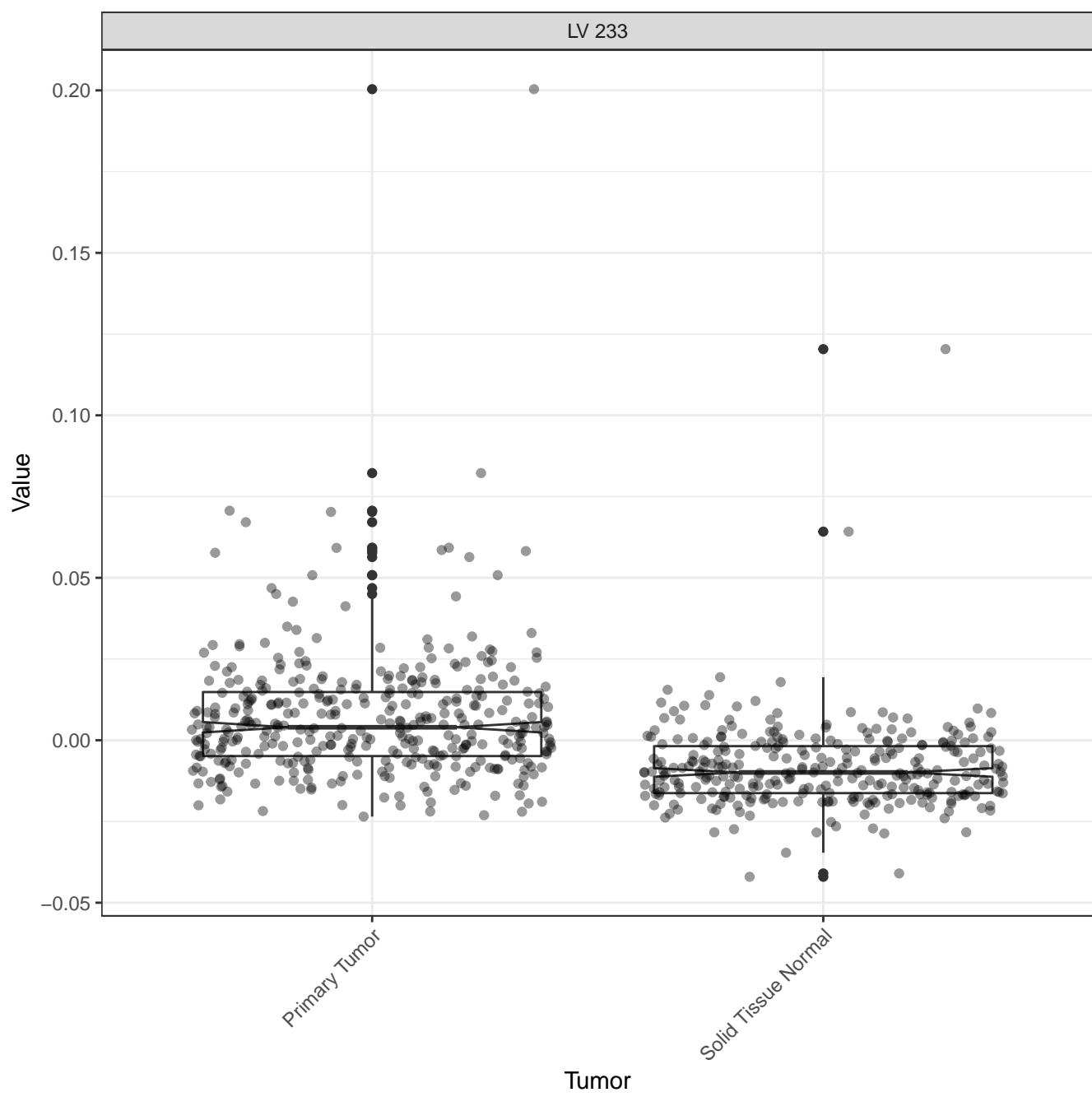
Primary Tumor

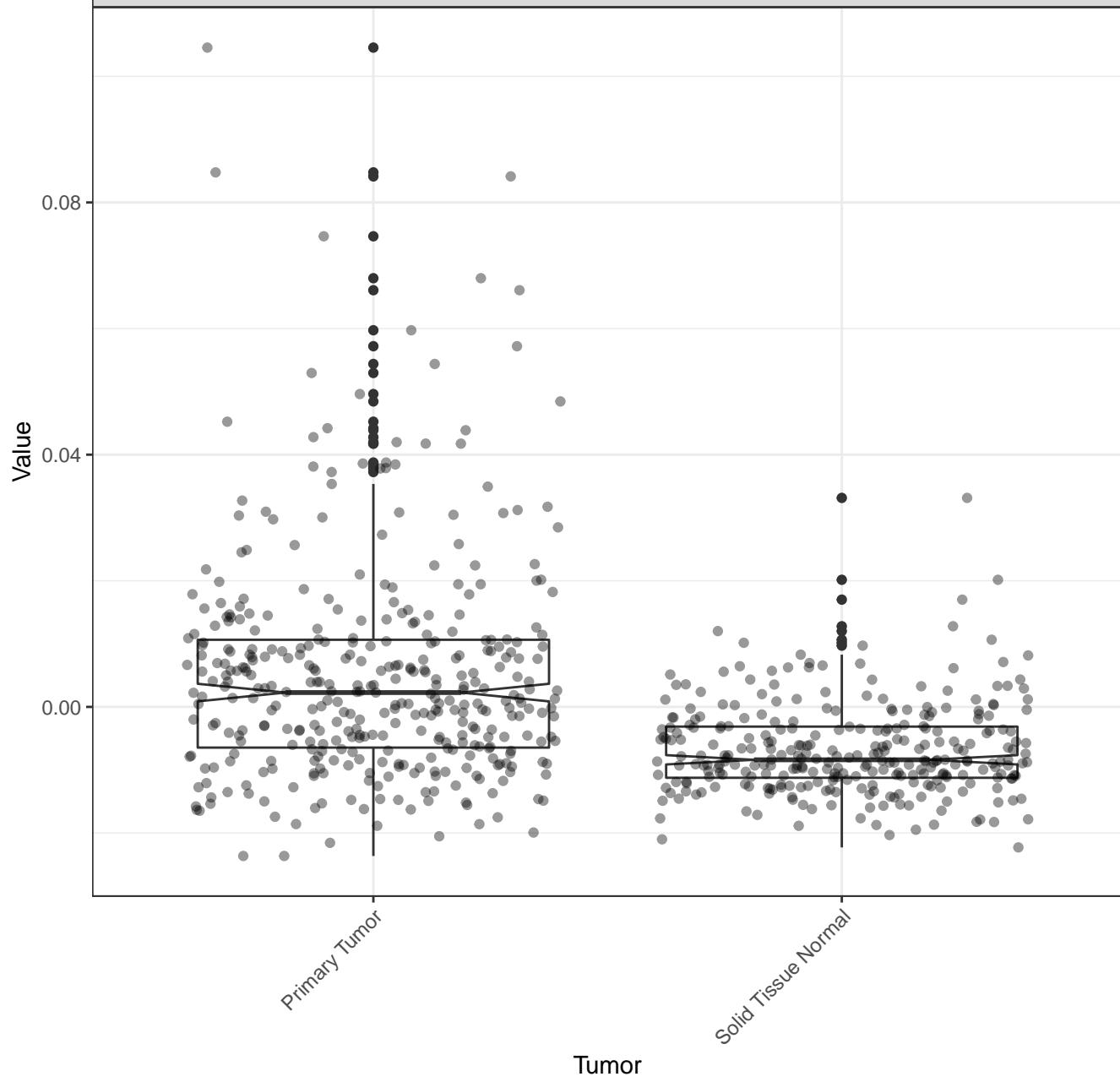
Solid Tissue Normal

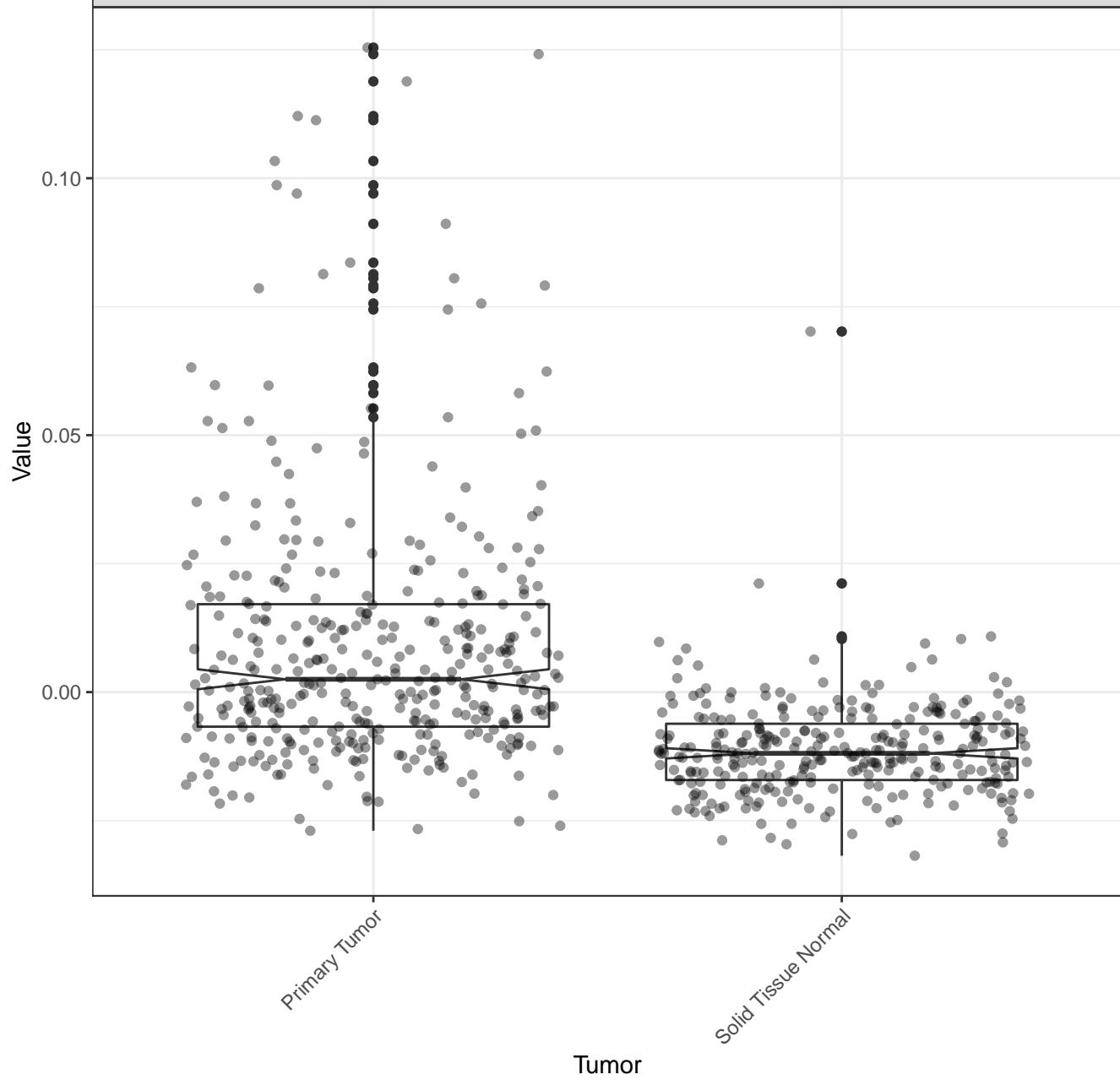
Tumor



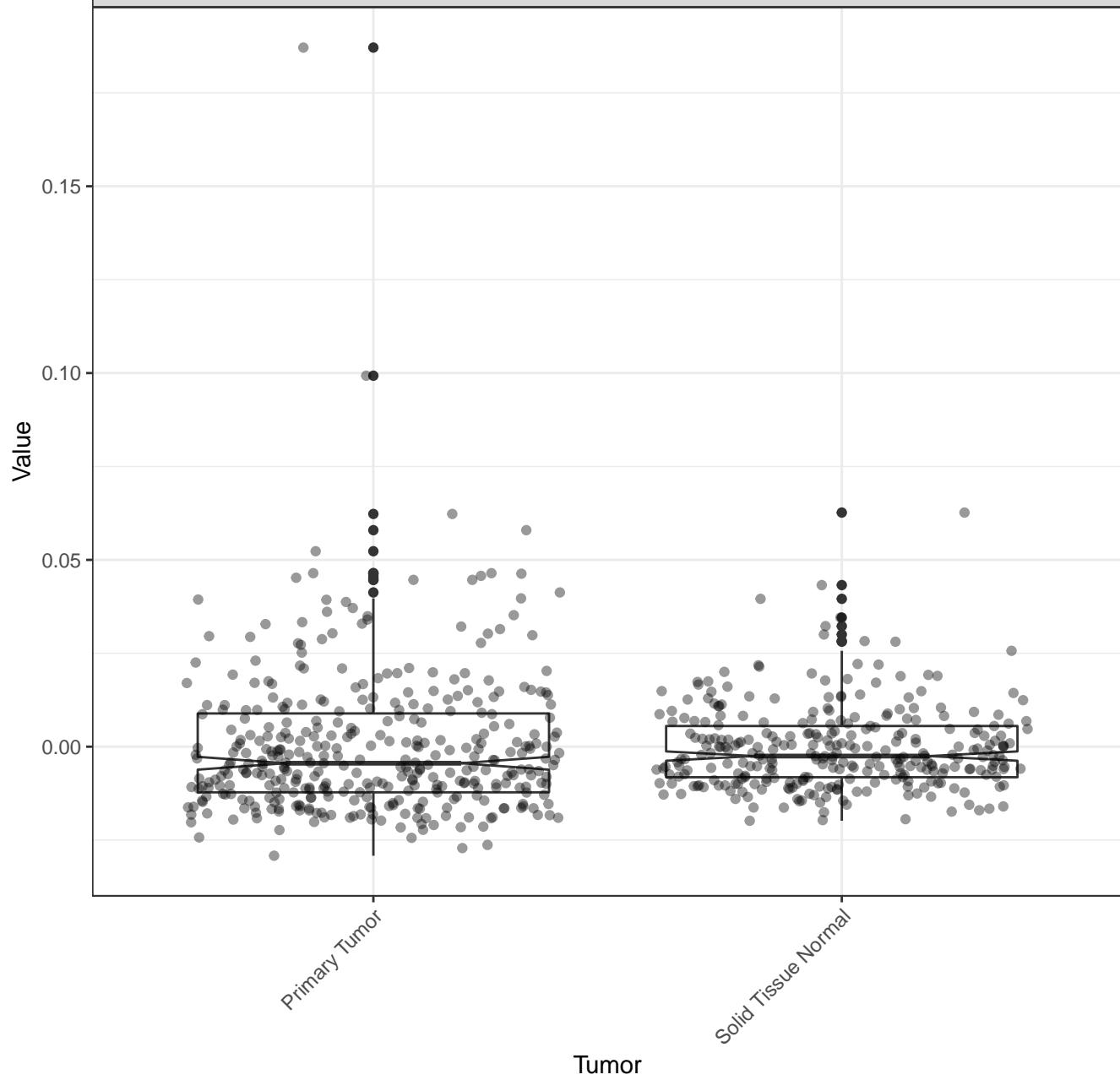
LV 233



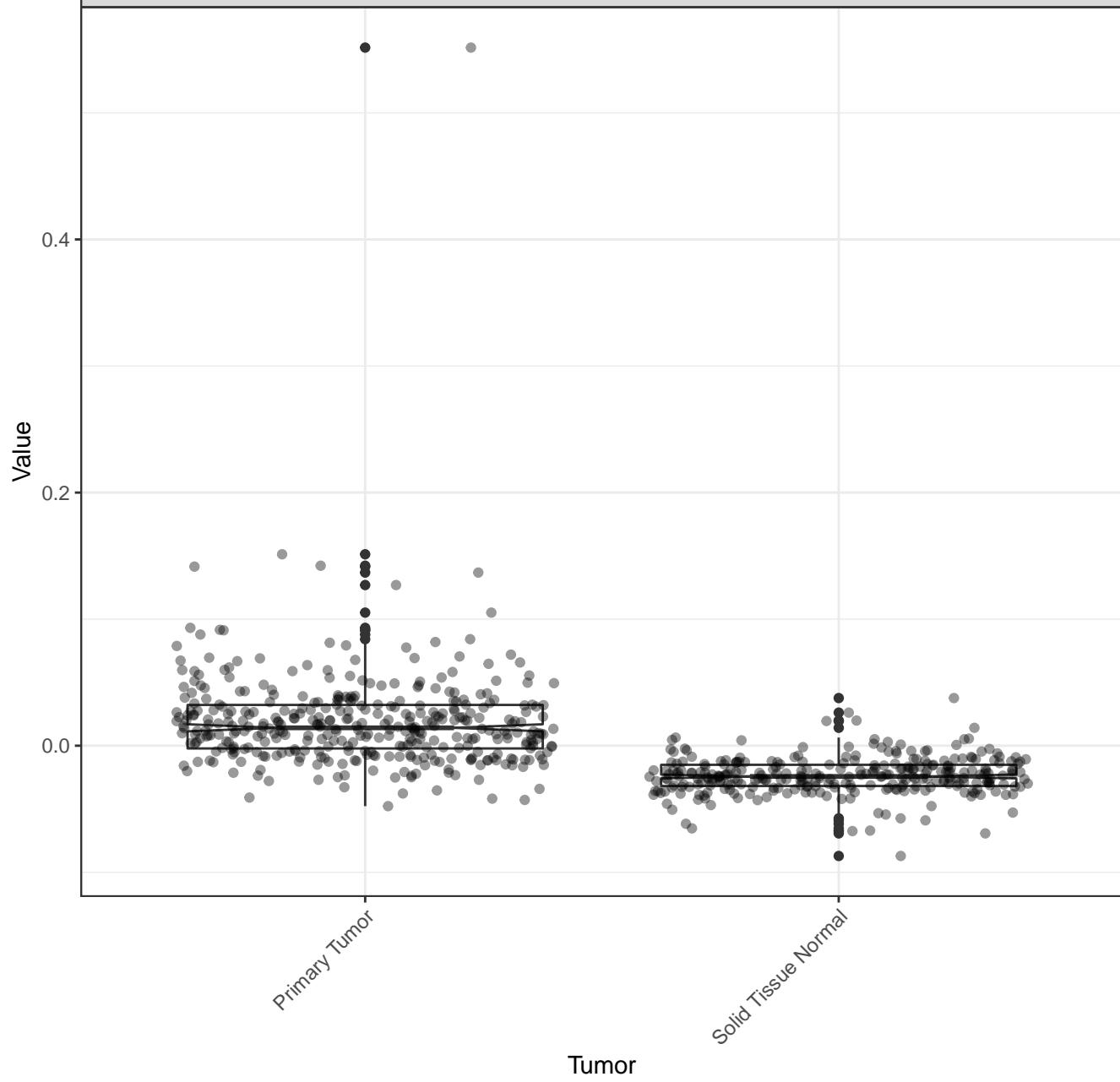




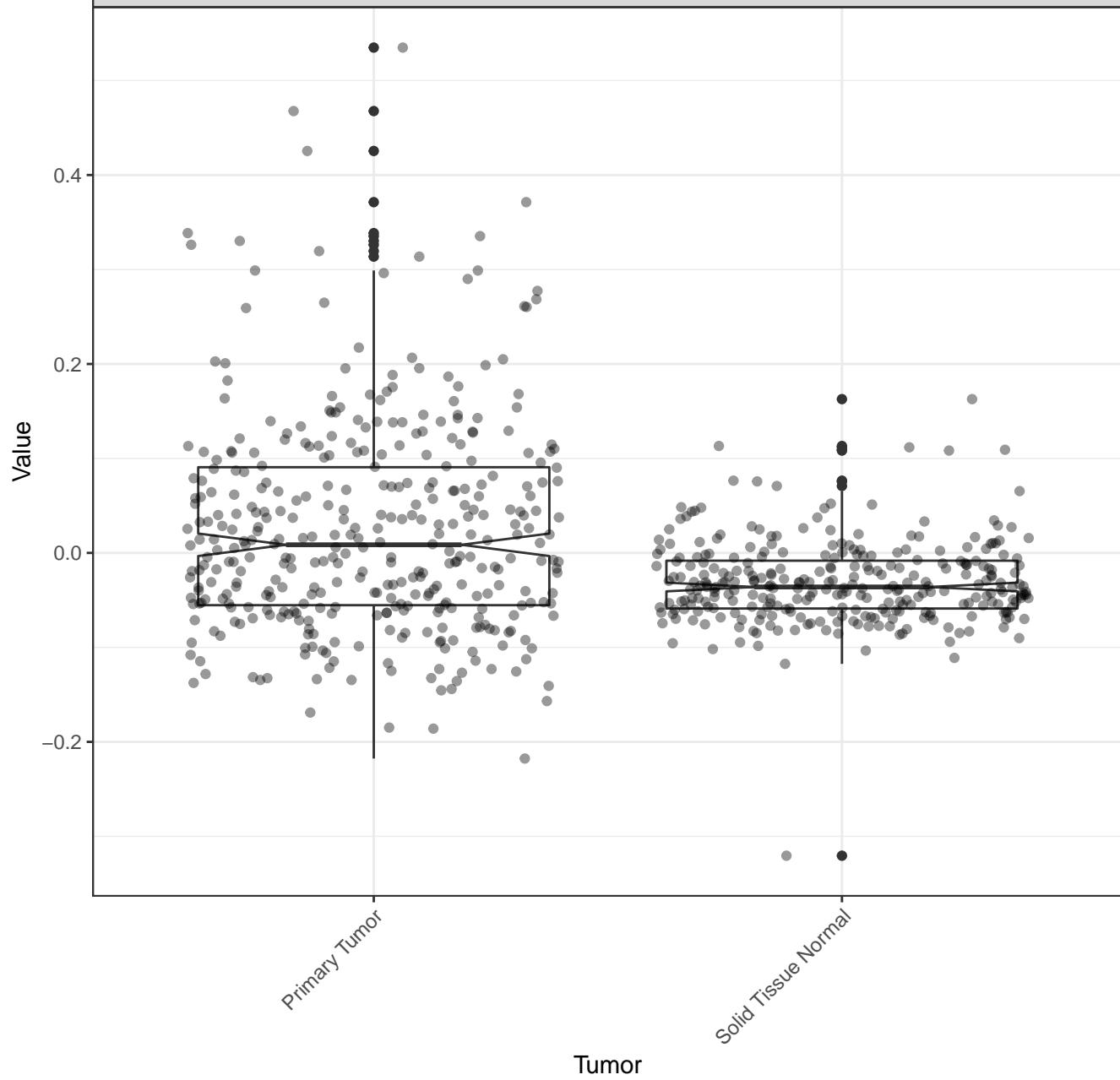
## 236,REACTOME\_MEIOSIS



# 237,SVM Macrophages M0



## 238,REACTOME\_MRNA\_PROCESSING



LV 239

Value

0.12

0.08

0.04

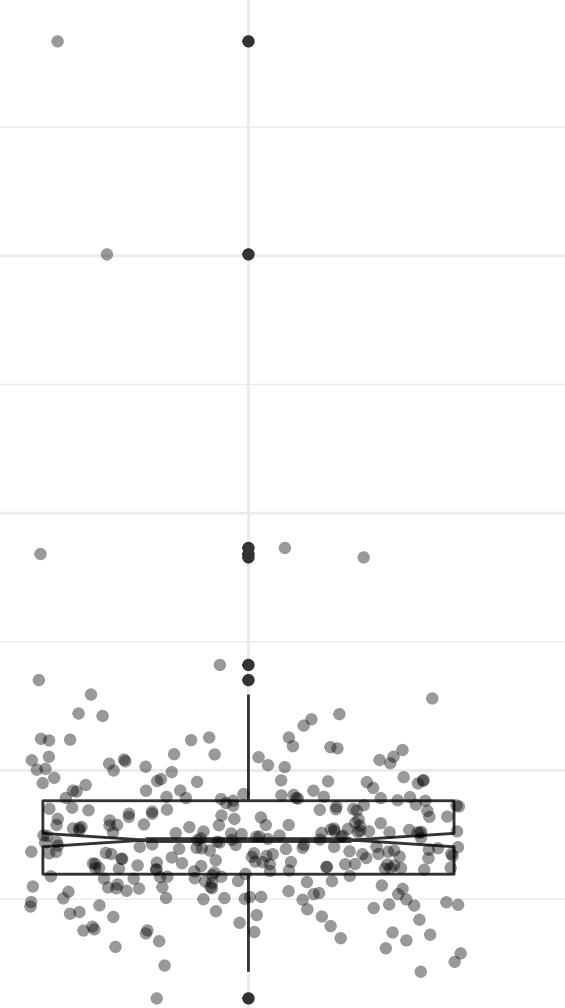
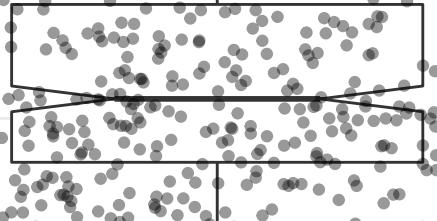
0.00

-0.04

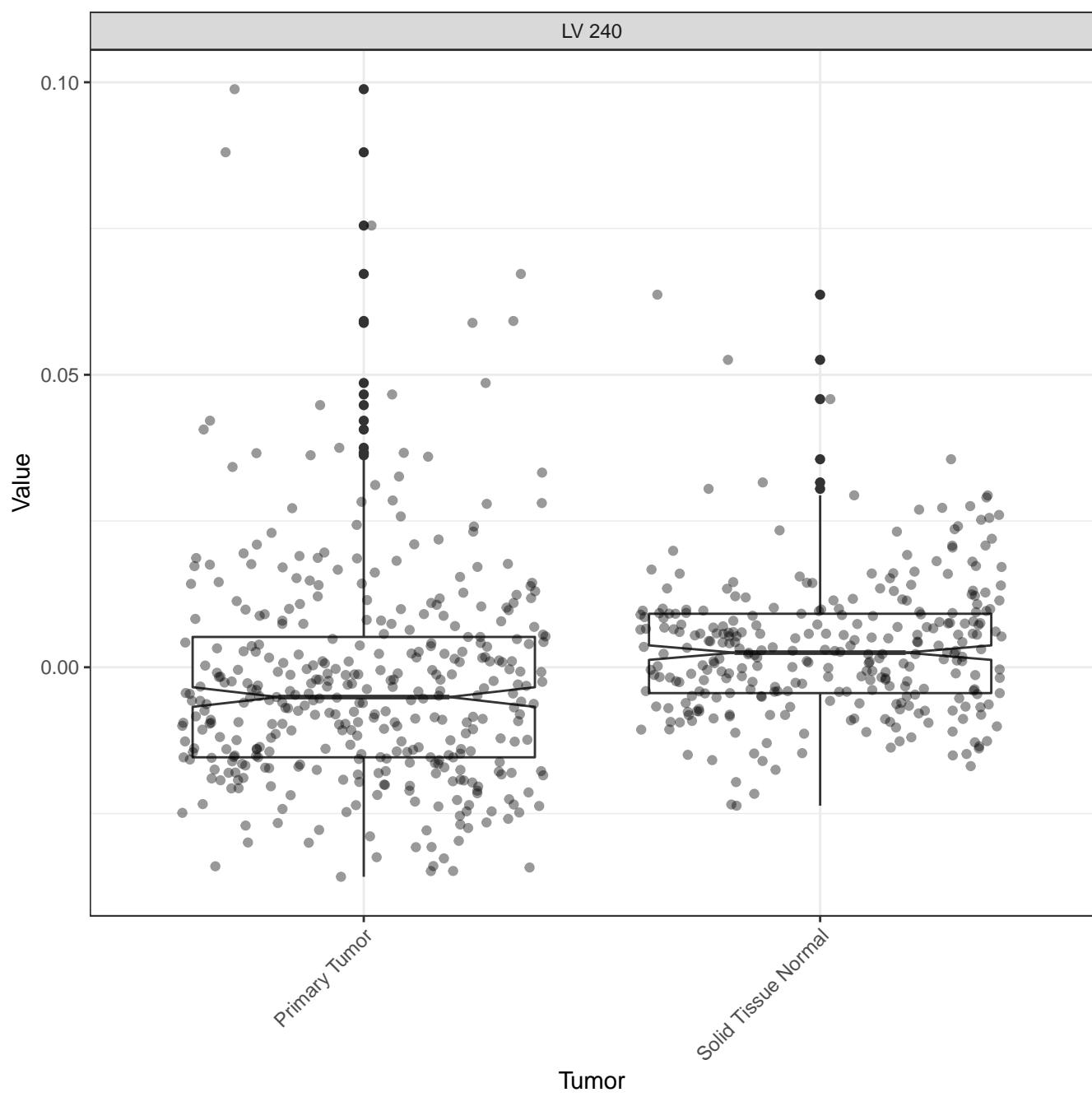
Primary Tumor

Solid Tissue Normal

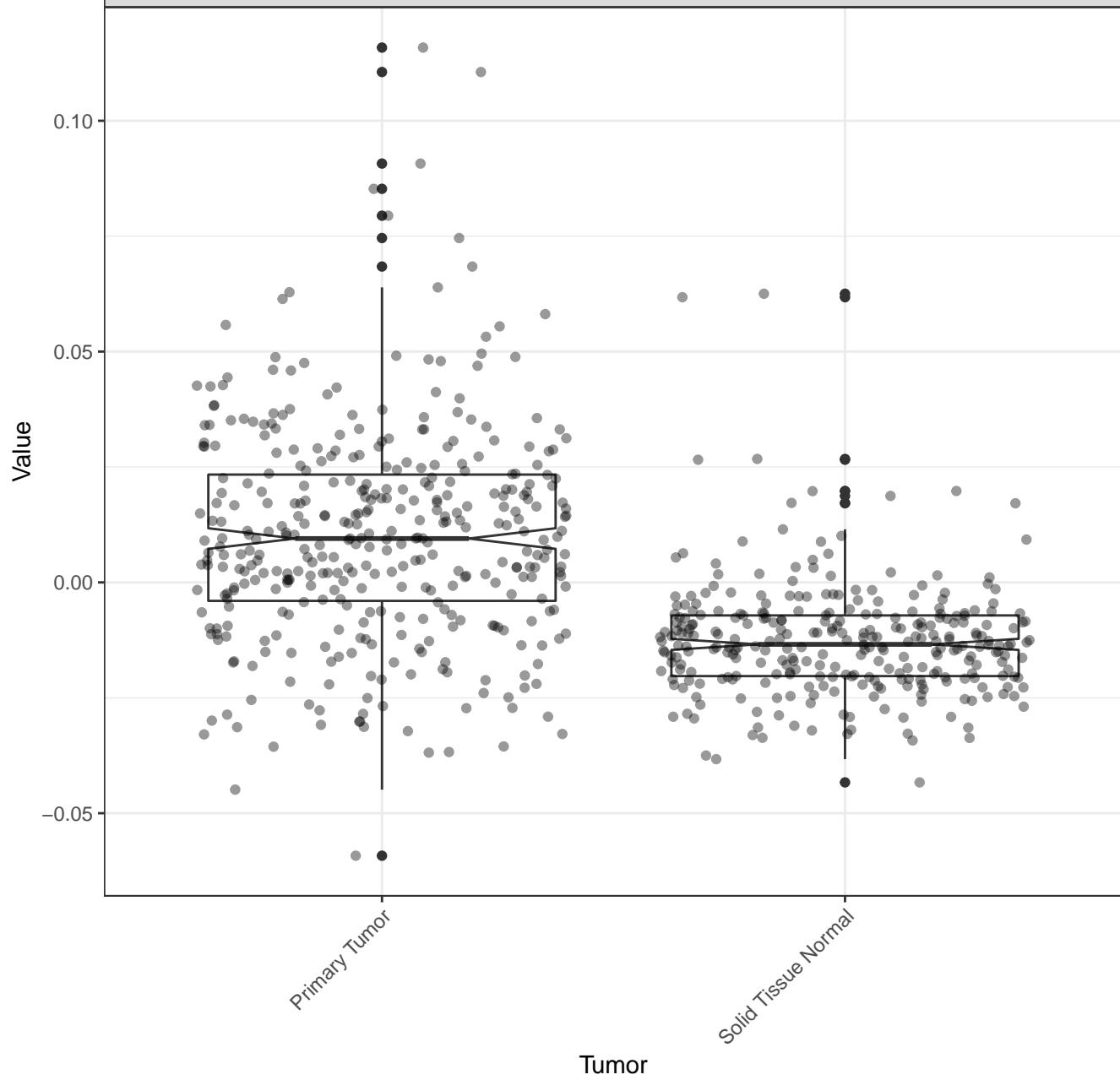
Tumor

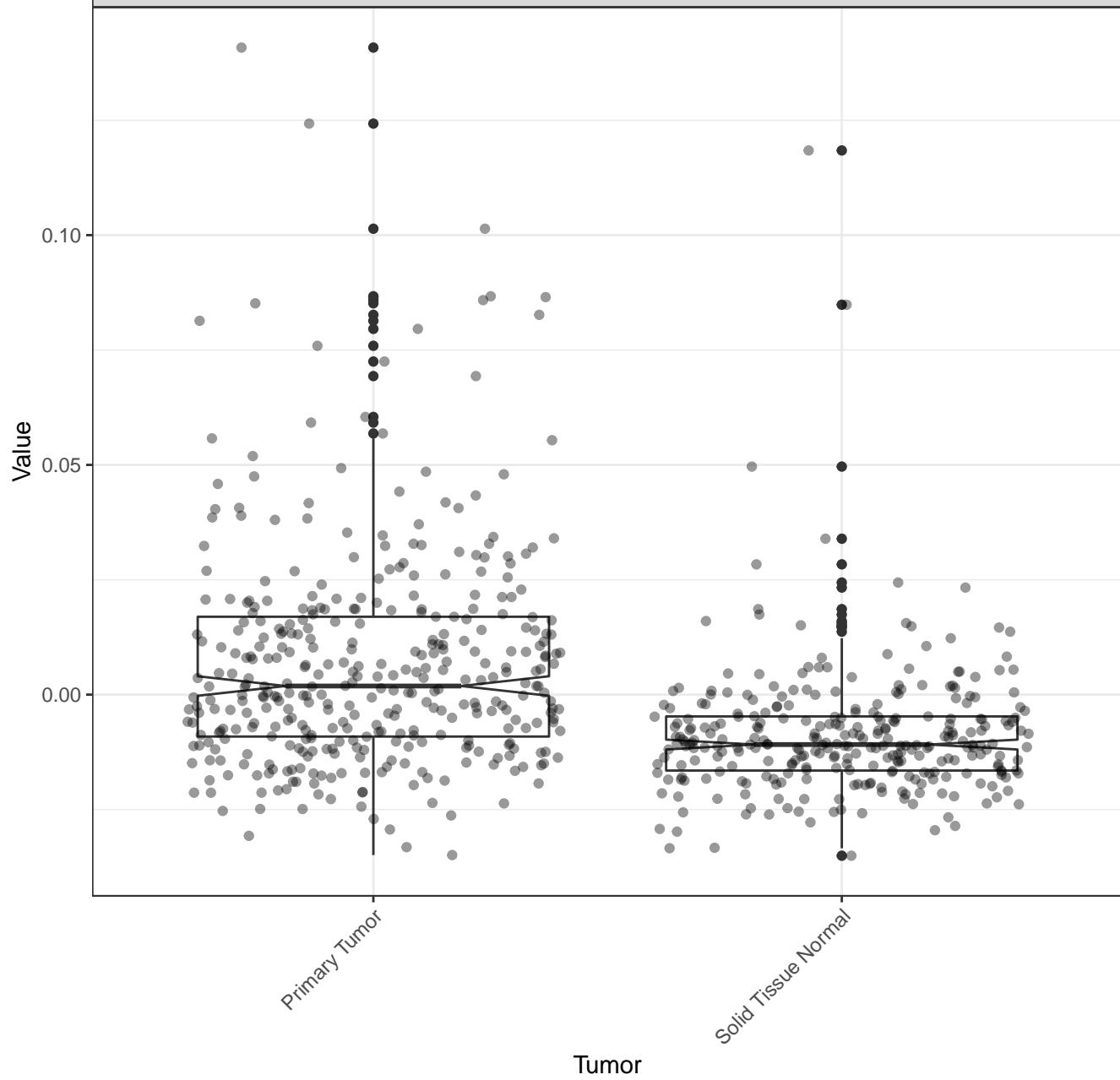


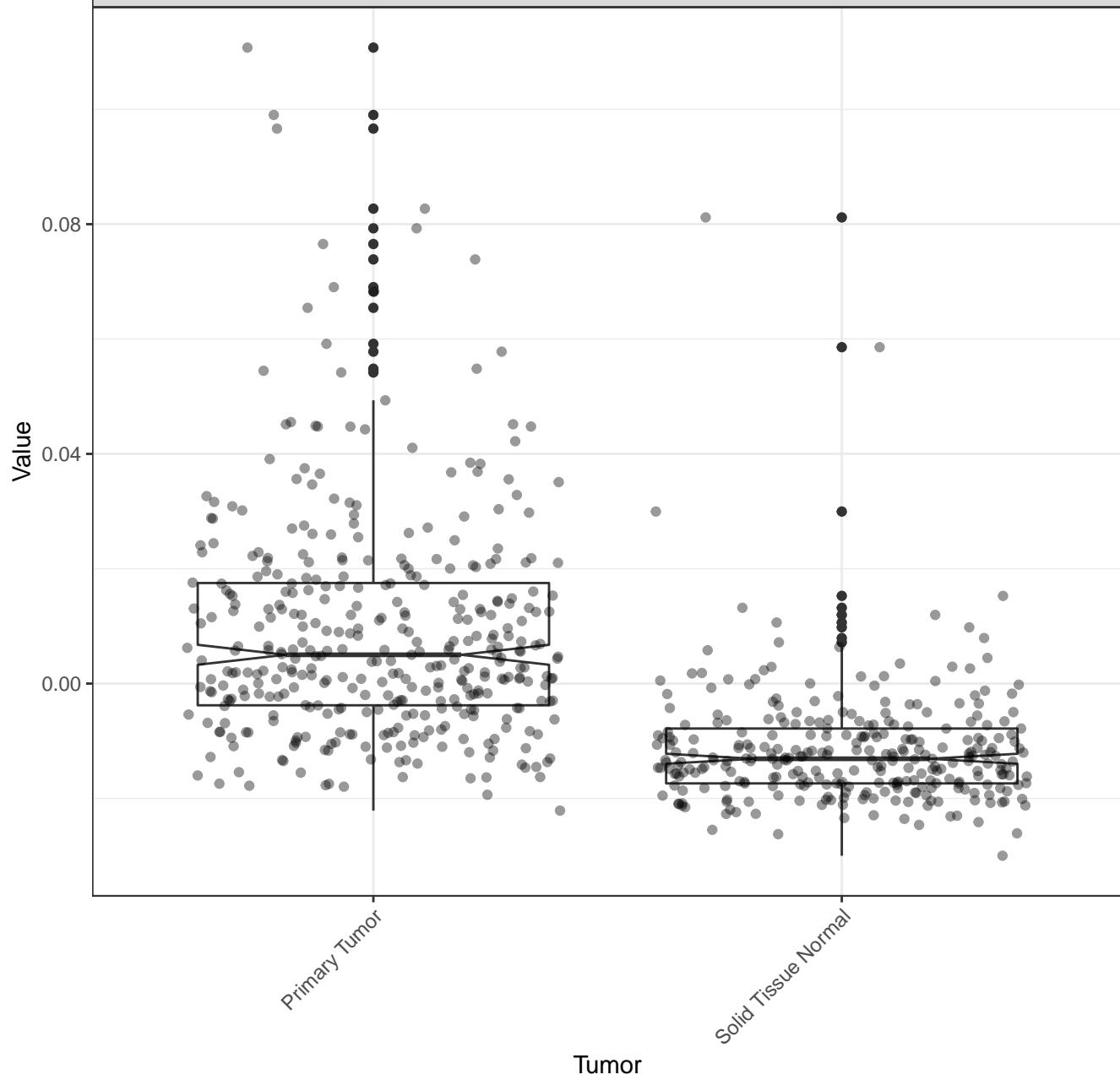
LV 240

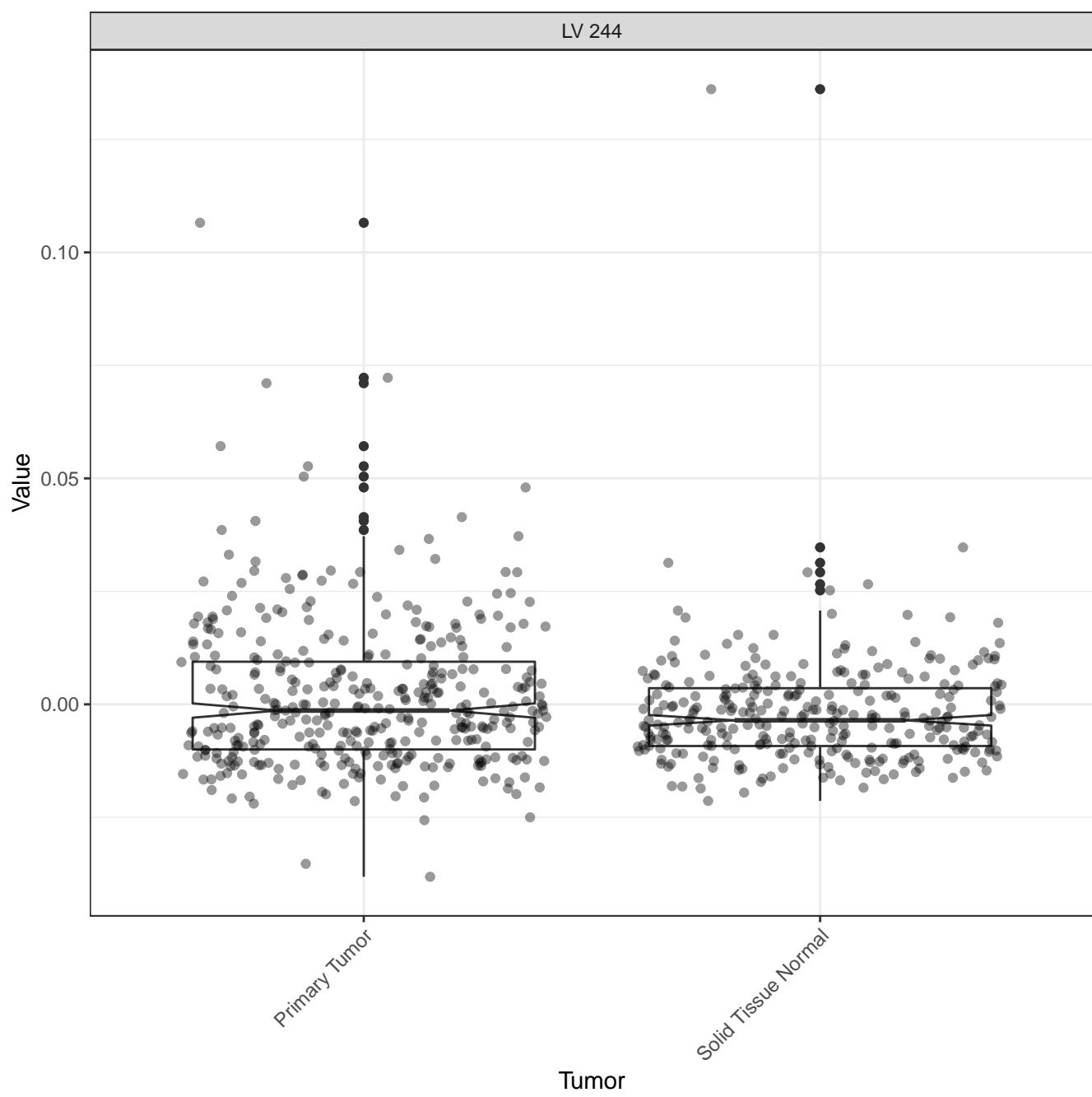


## 241,KEGG\_GLIOMA









Value

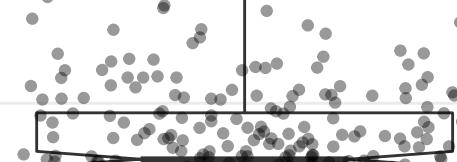
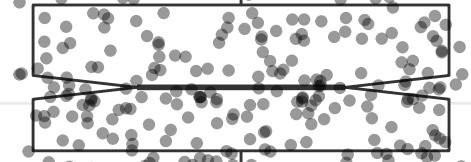
0.05

0.00

Primary Tumor

Tumor

Solid Tissue Normal



LV 246

Value

0.09

0.06

0.03

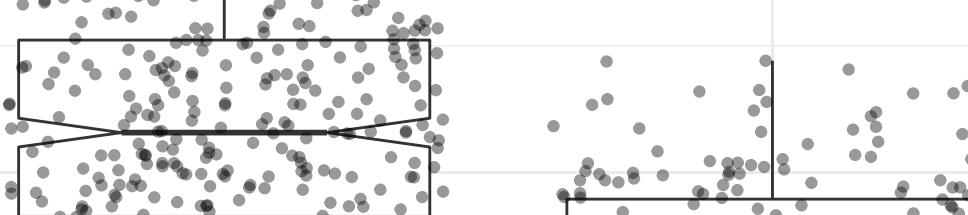
0.00

-0.03

Primary Tumor

Solid Tissue Normal

Tumor



LV 247

Value

0.15

0.10

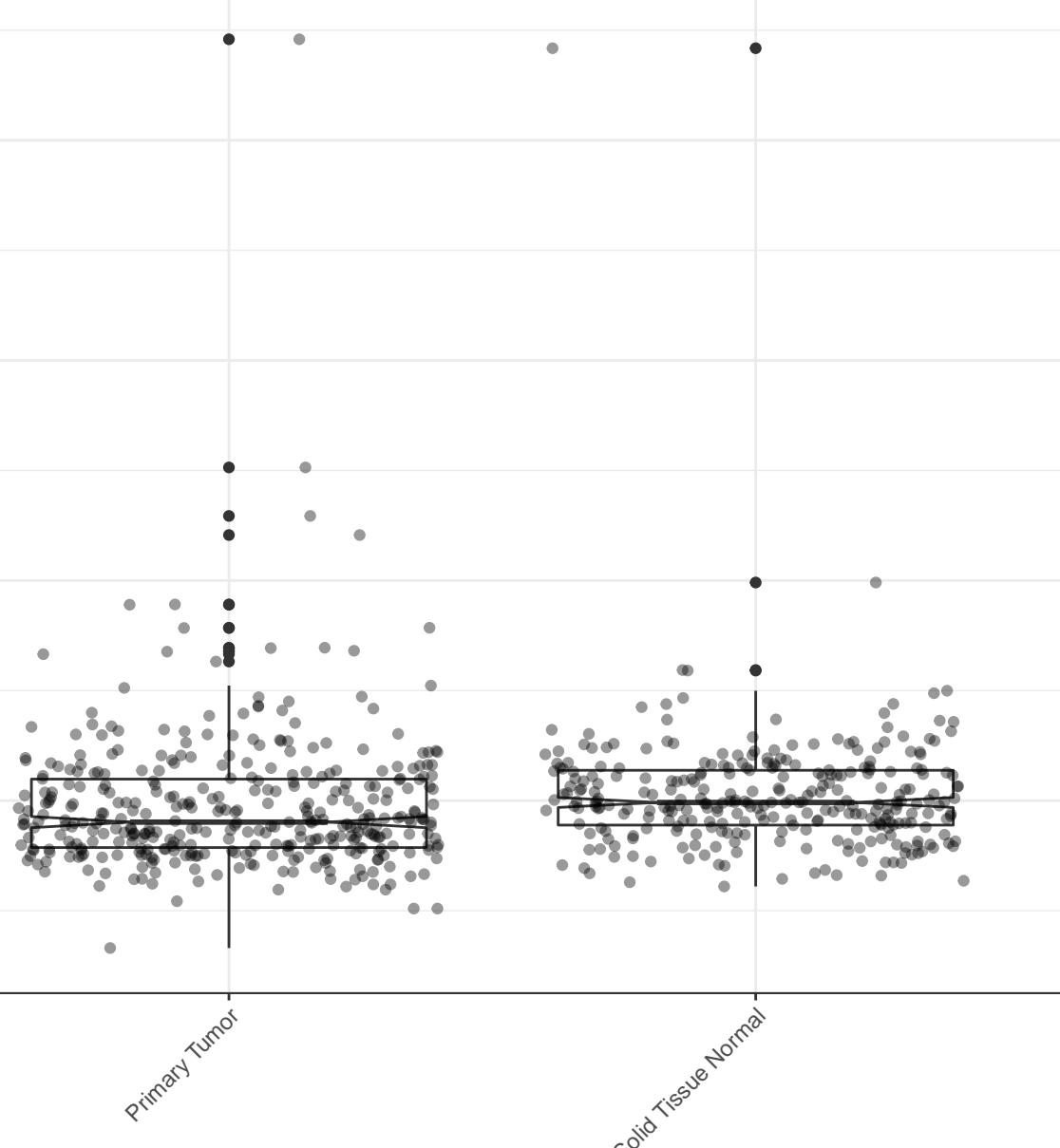
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



## 248,REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION

Value

0.08

0.04

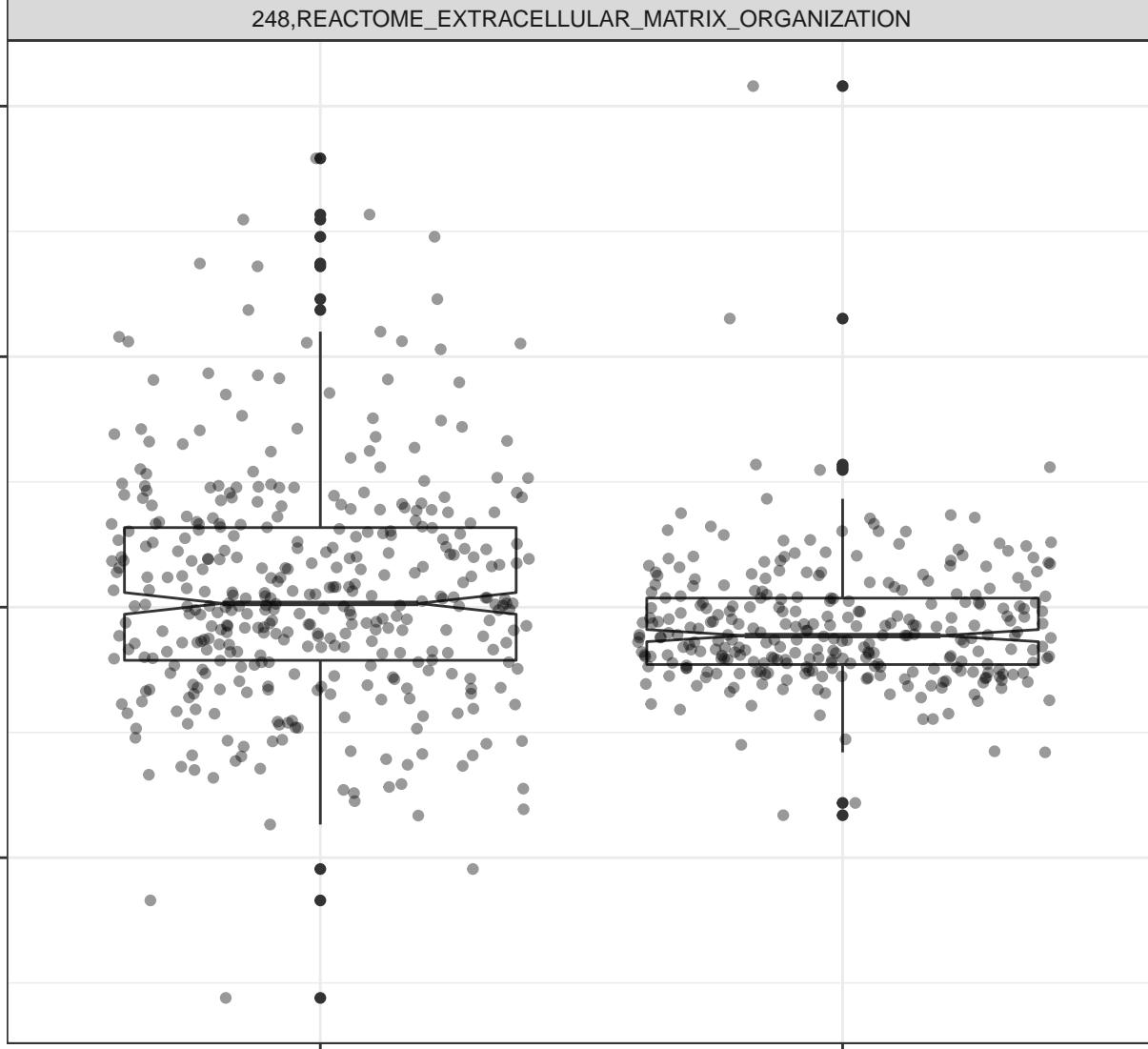
0.00

-0.04

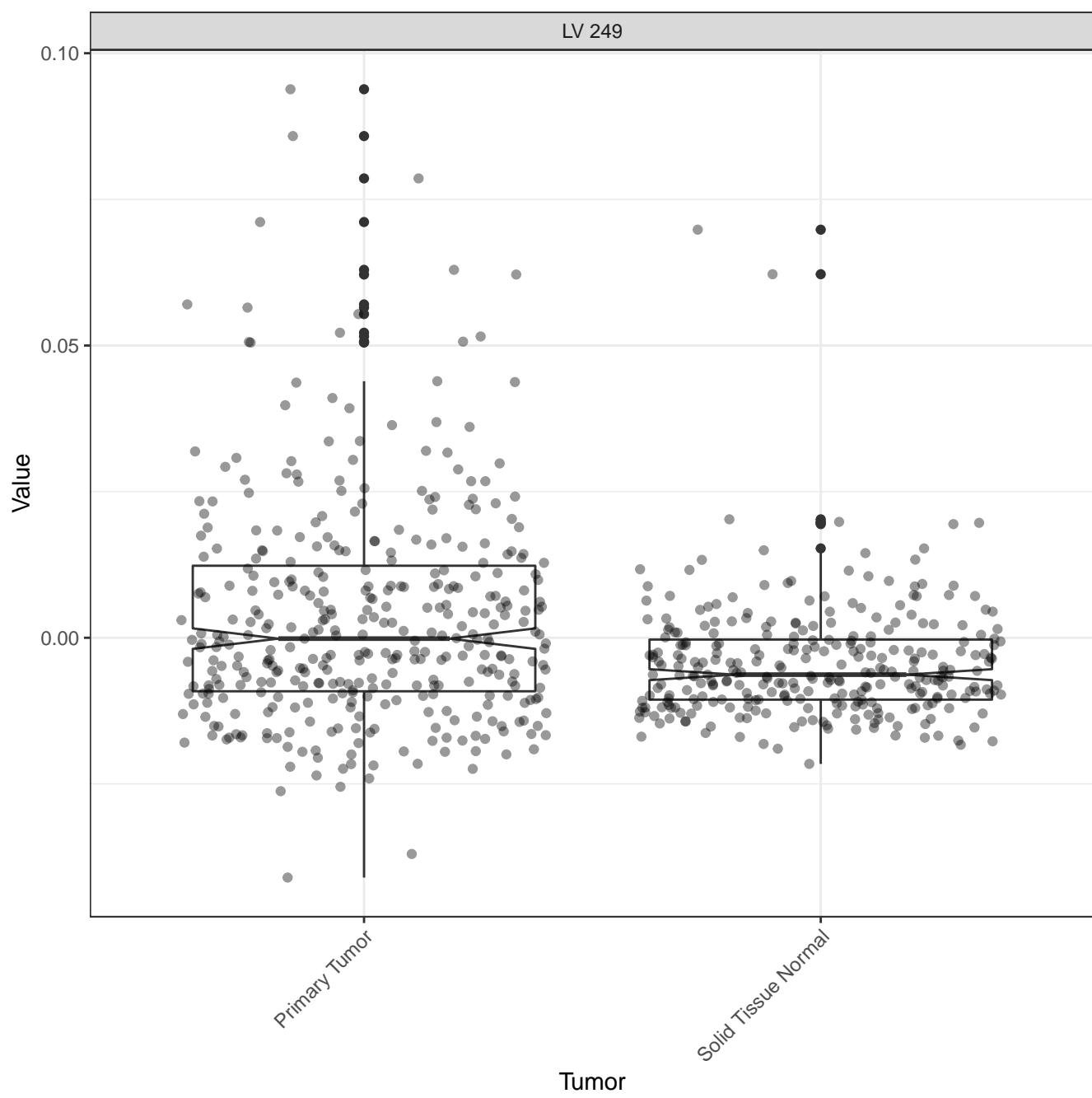
Primary Tumor

Solid Tissue Normal

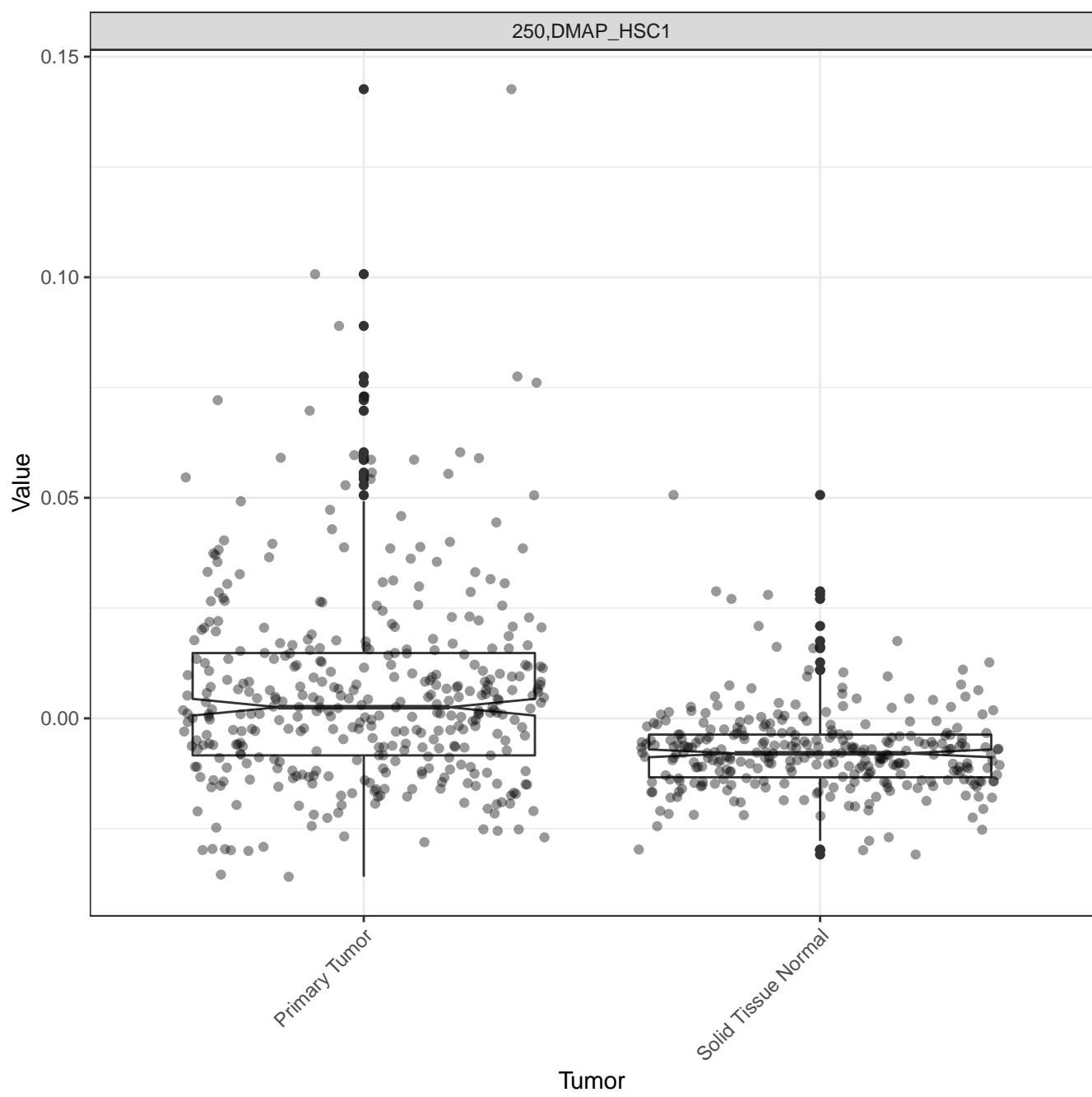
Tumor



LV 249



## 250,DMAP\_HSC1



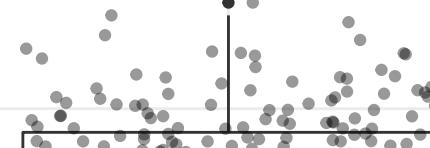
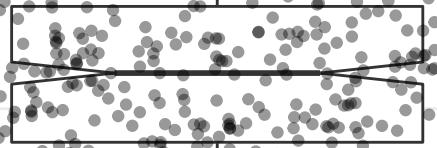
Value

0.15  
0.10  
0.05  
0.00  
-0.05

Primary Tumor

Solid Tissue Normal

Tumor



LV 252

Value

0.15

0.10

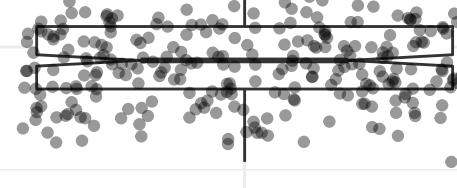
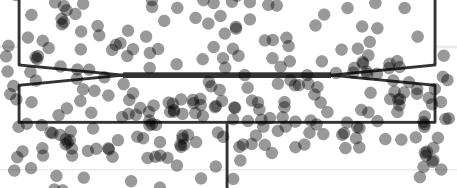
0.05

0.00

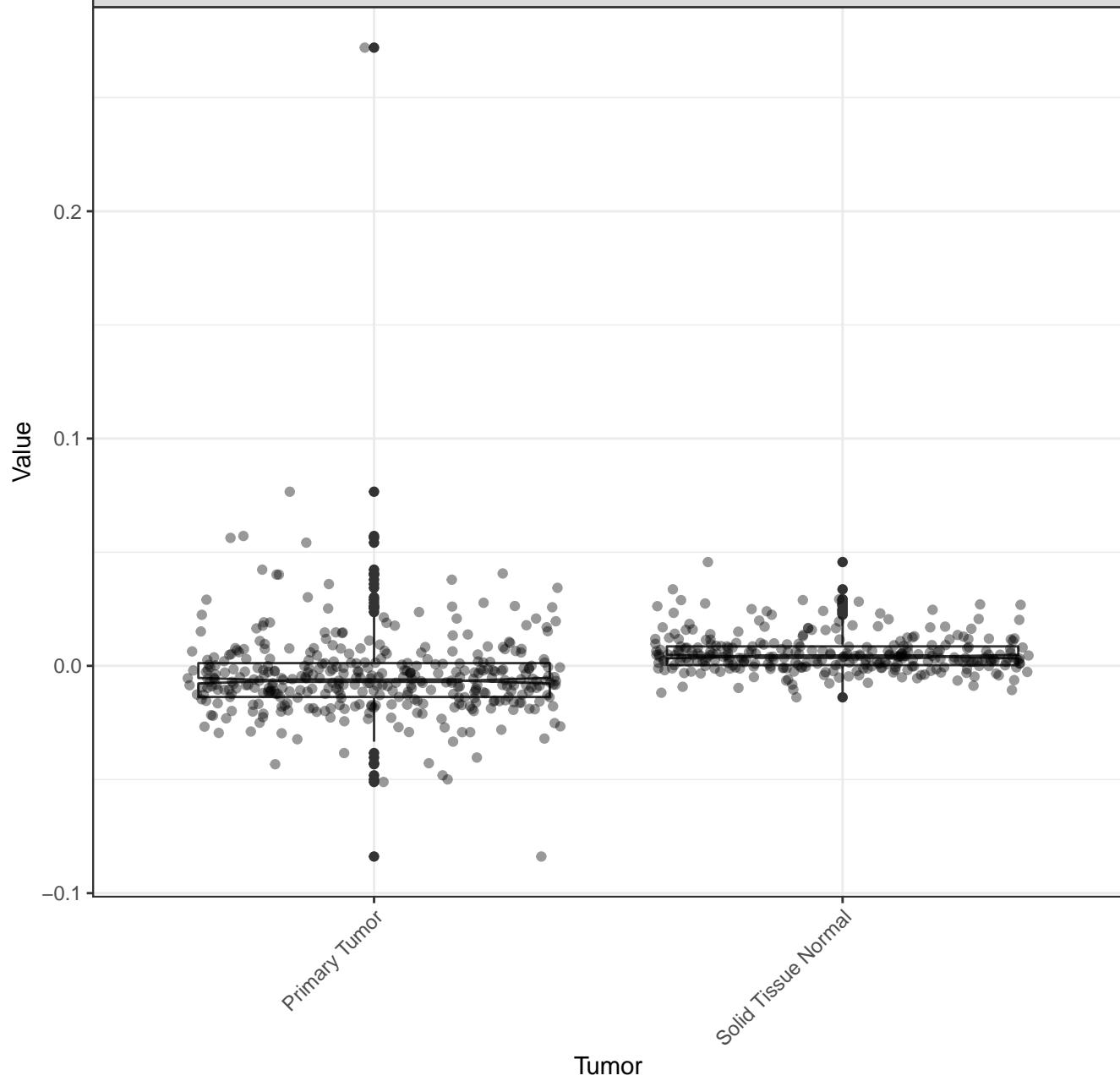
Primary Tumor

Solid Tissue Normal

Tumor



### 253,KEGG\_HEMATOPOIETIC\_CELL\_LINEAGE



Value

0.06

0.03

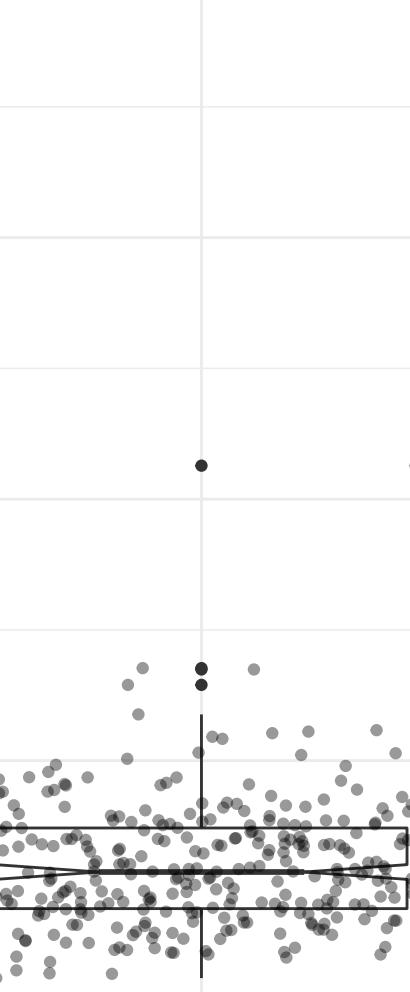
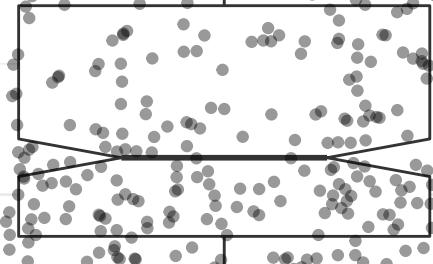
0.00

-0.03

Primary Tumor

Solid Tissue Normal

Tumor



255,KEGG\_BASAL\_CELL\_CARCINOMA

Value

0.15

0.10

0.05

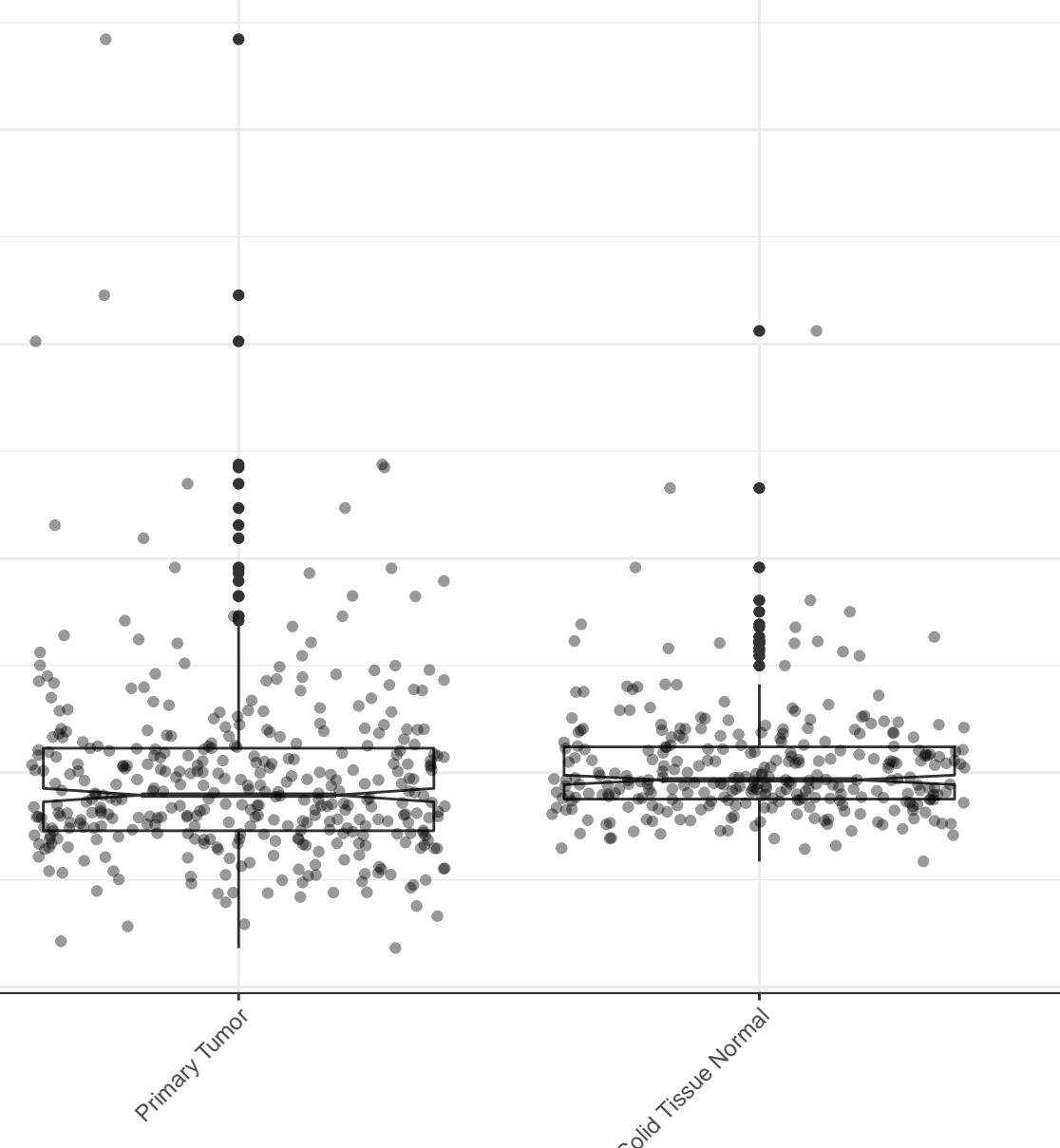
0.00

-0.05

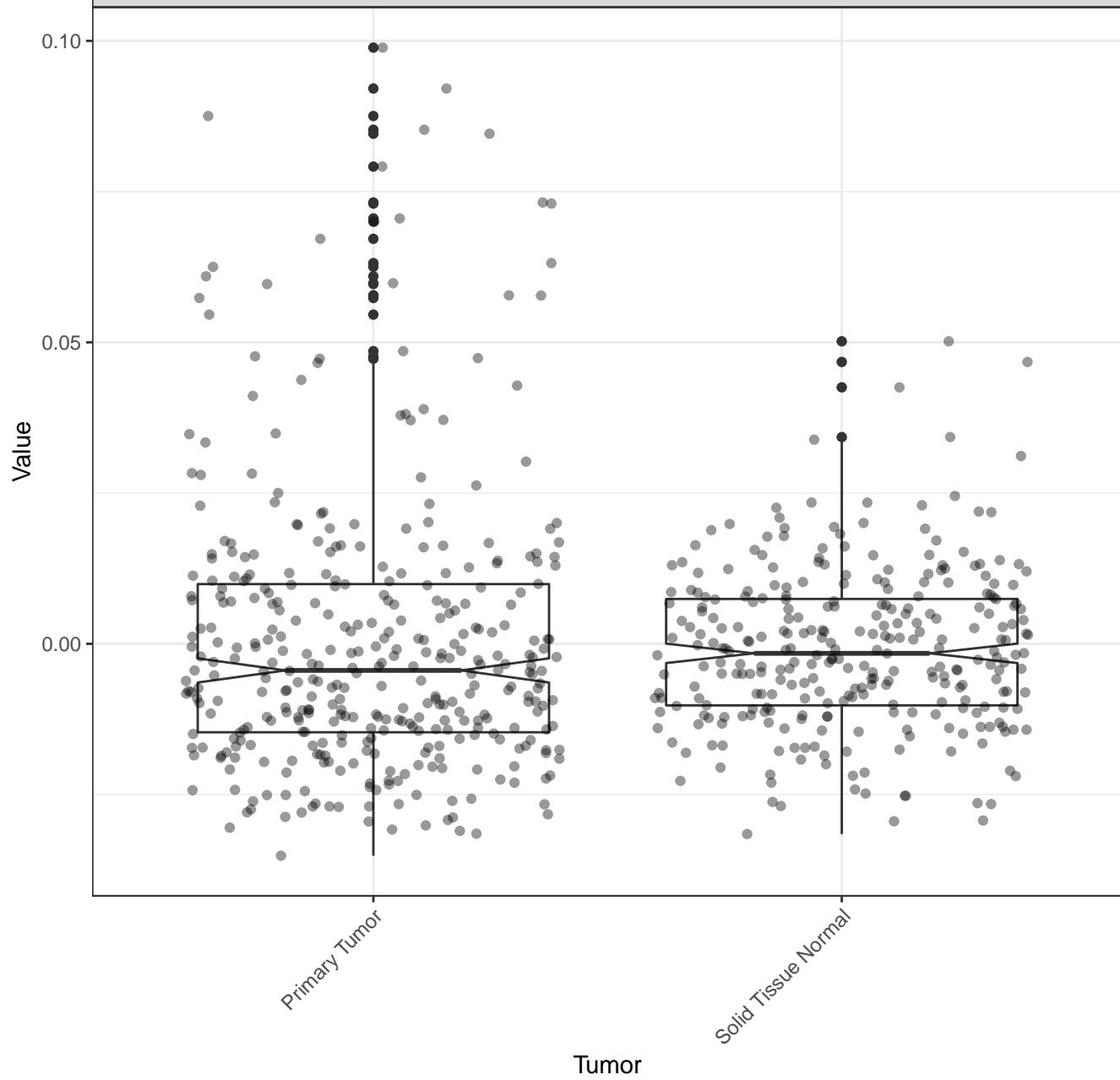
Primary Tumor

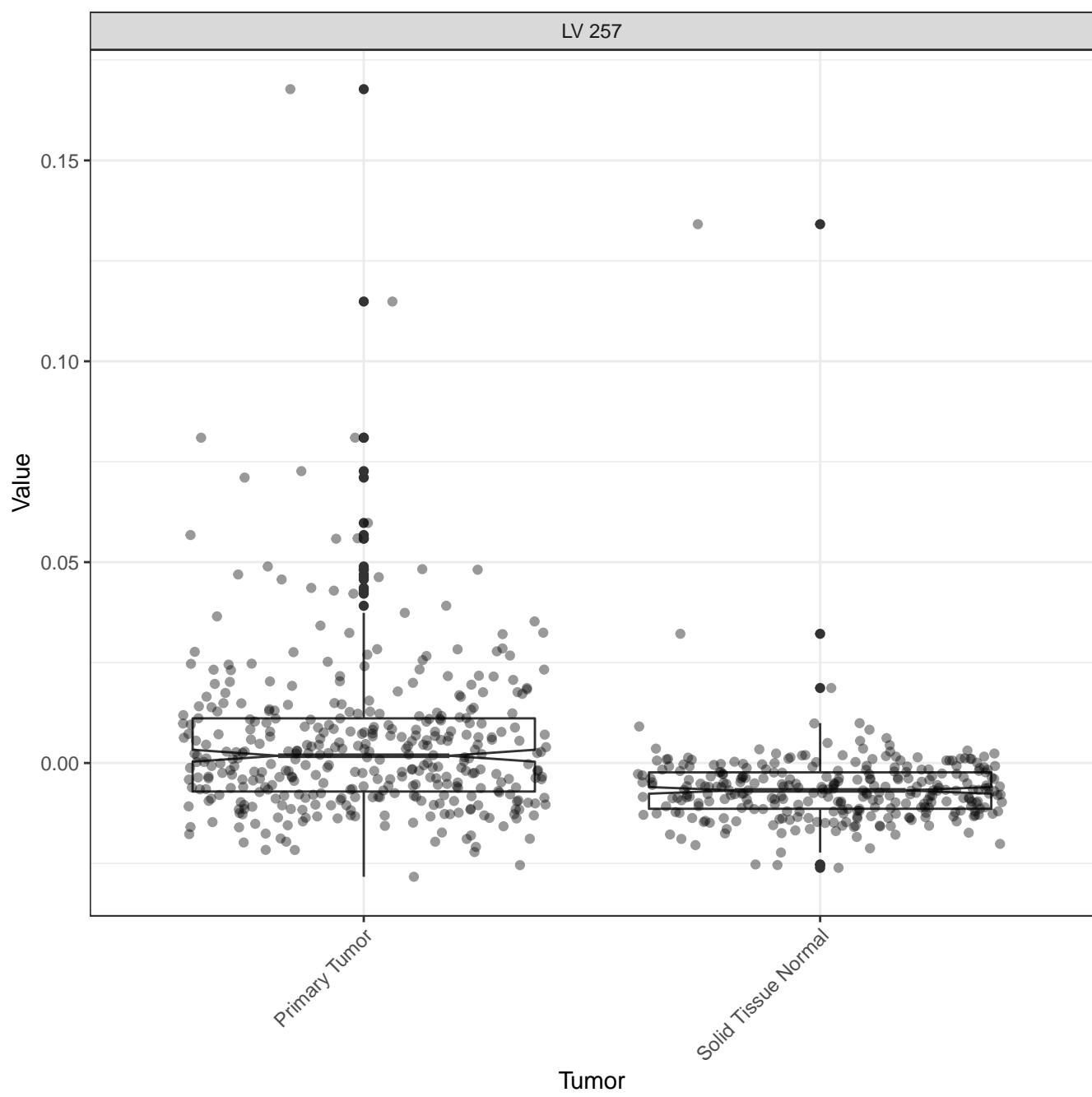
Solid Tissue Normal

Tumor



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





LV 258

Value

0.10

0.05

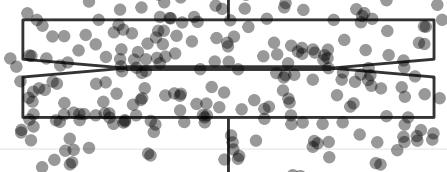
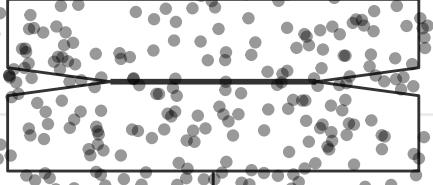
0.00

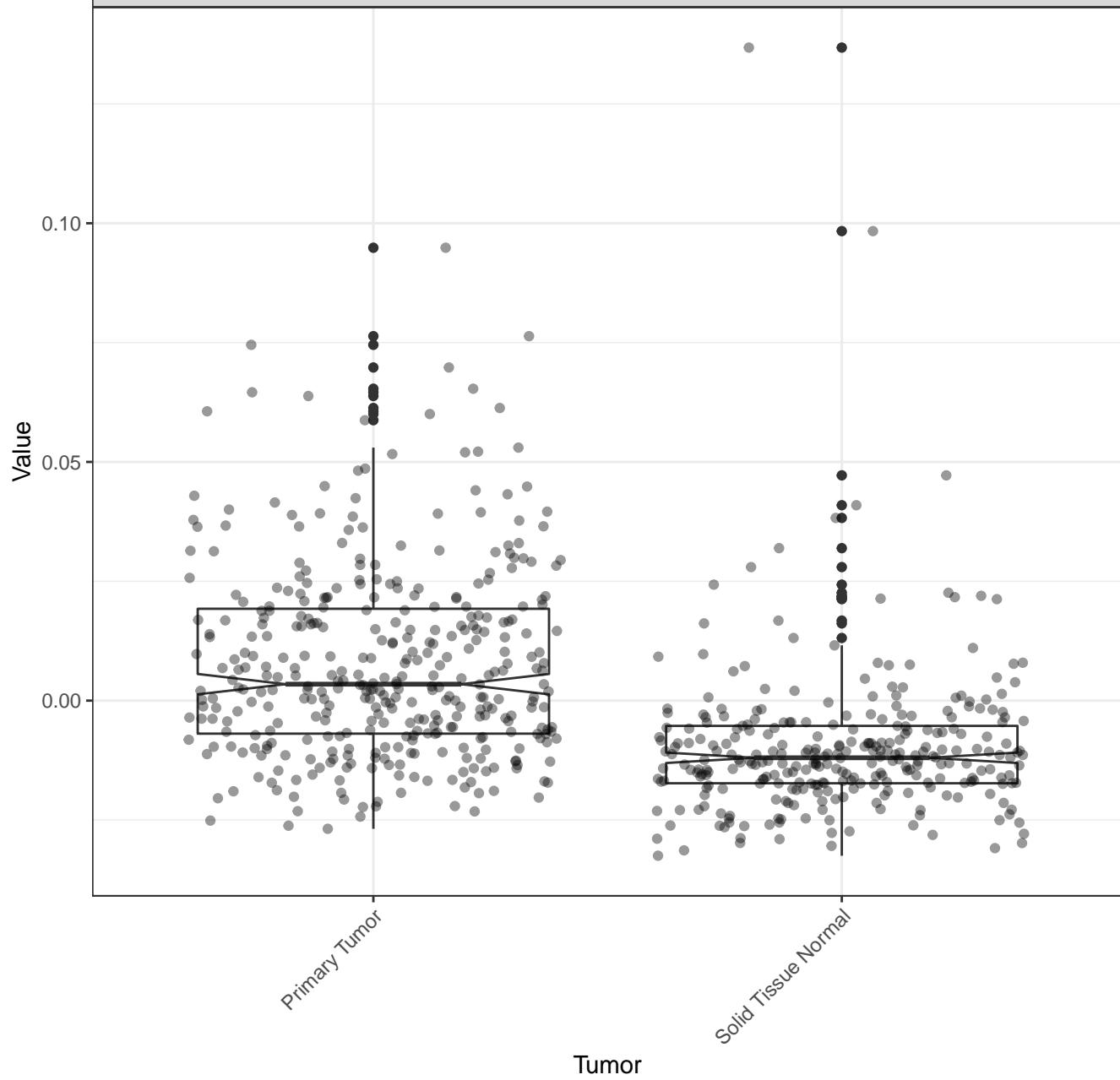
-0.05

Primary Tumor

Solid Tissue Normal

Tumor





LV 260

Value

0.4

0.3

0.2

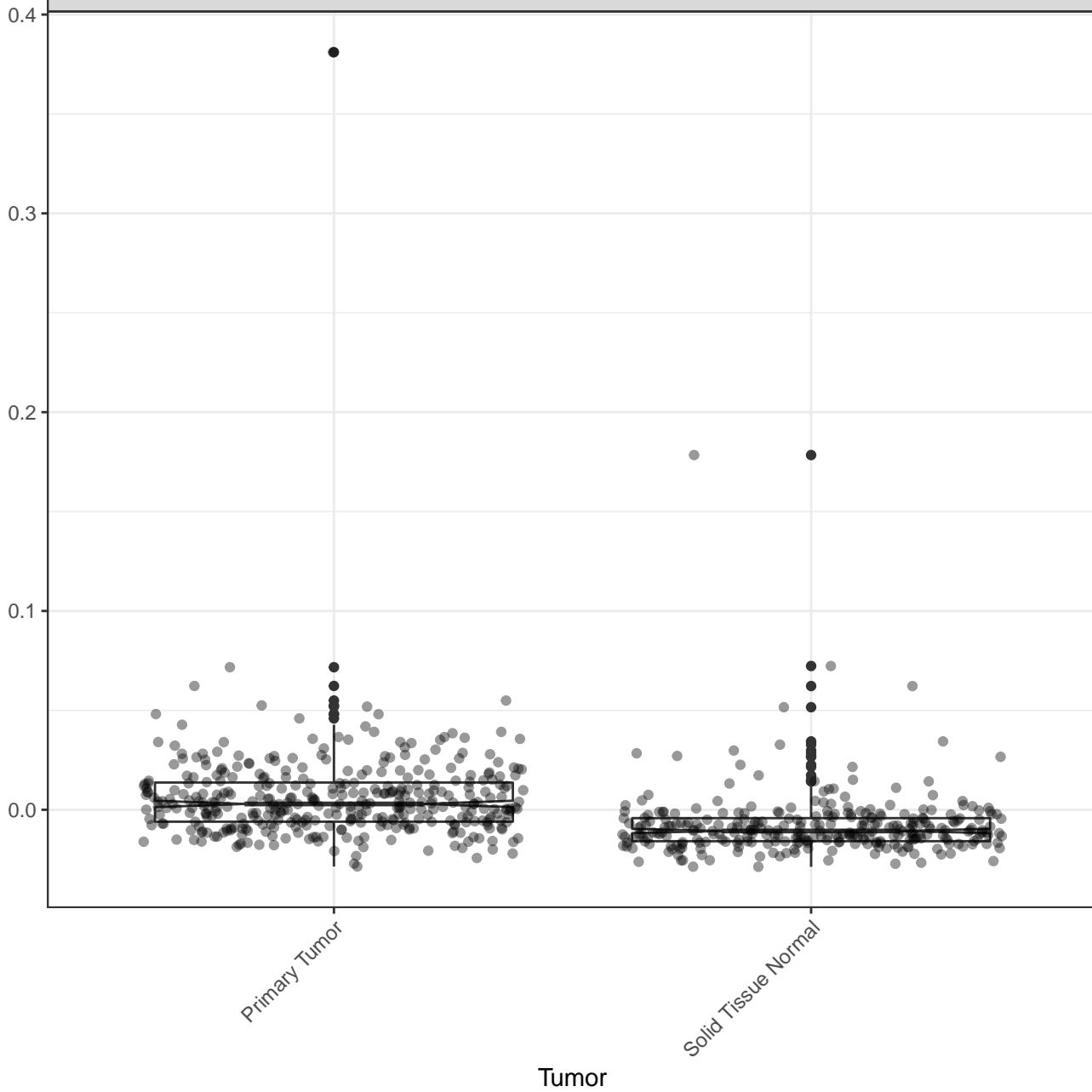
0.1

0.0

Primary Tumor

Solid Tissue Normal

Tumor



LV 261

Value

0.15

0.10

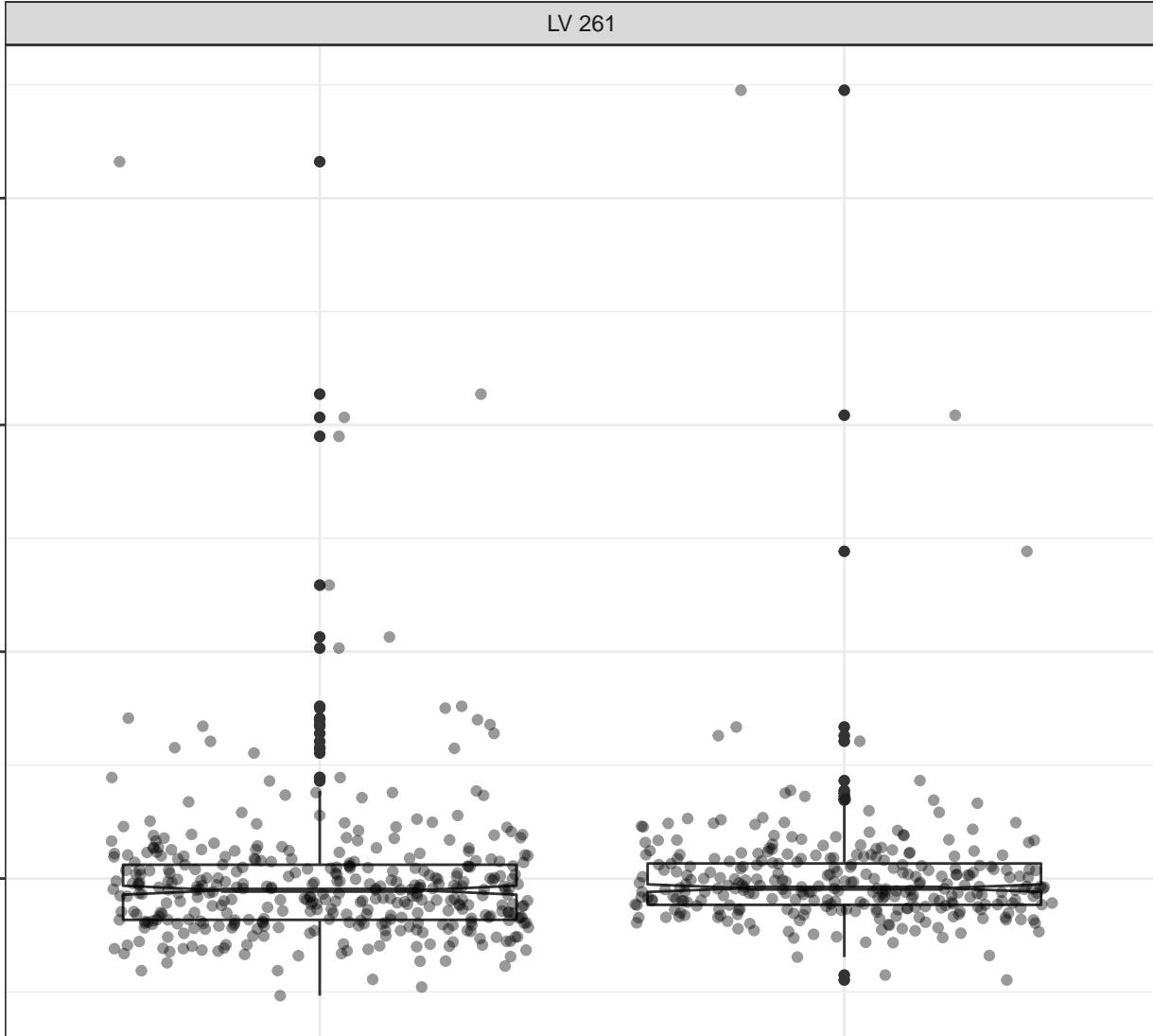
0.05

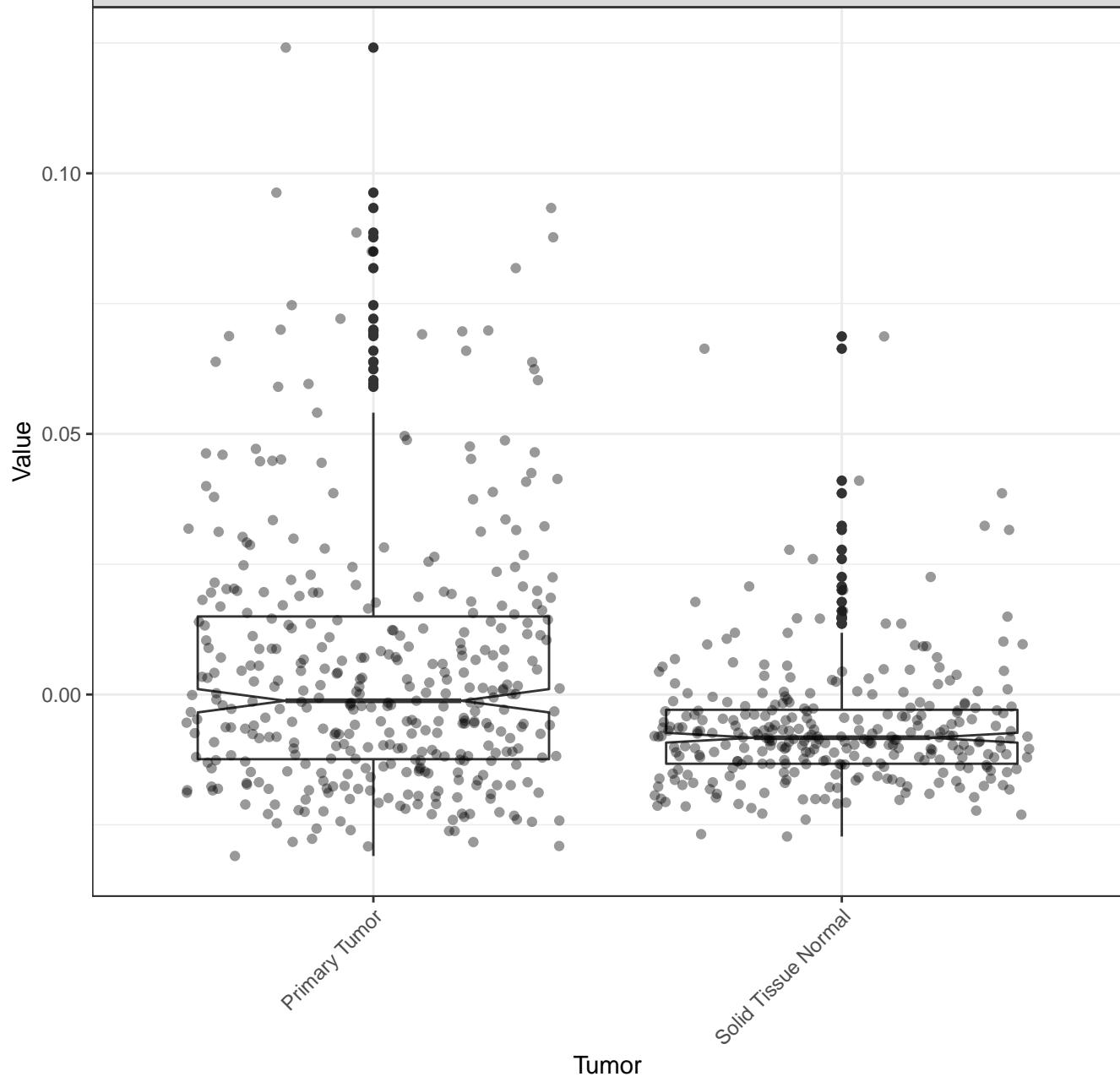
0.00

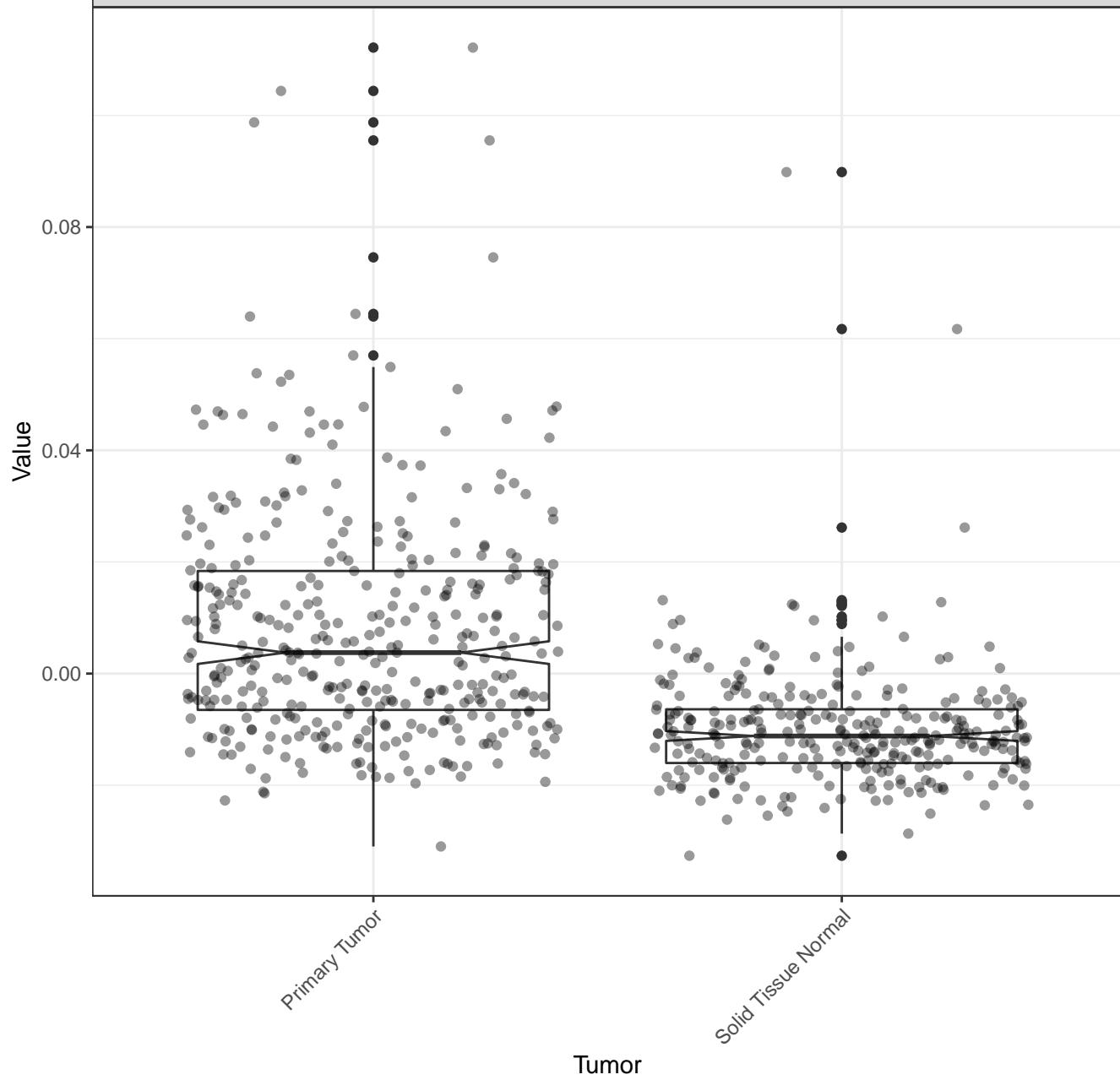
Primary Tumor

Solid Tissue Normal

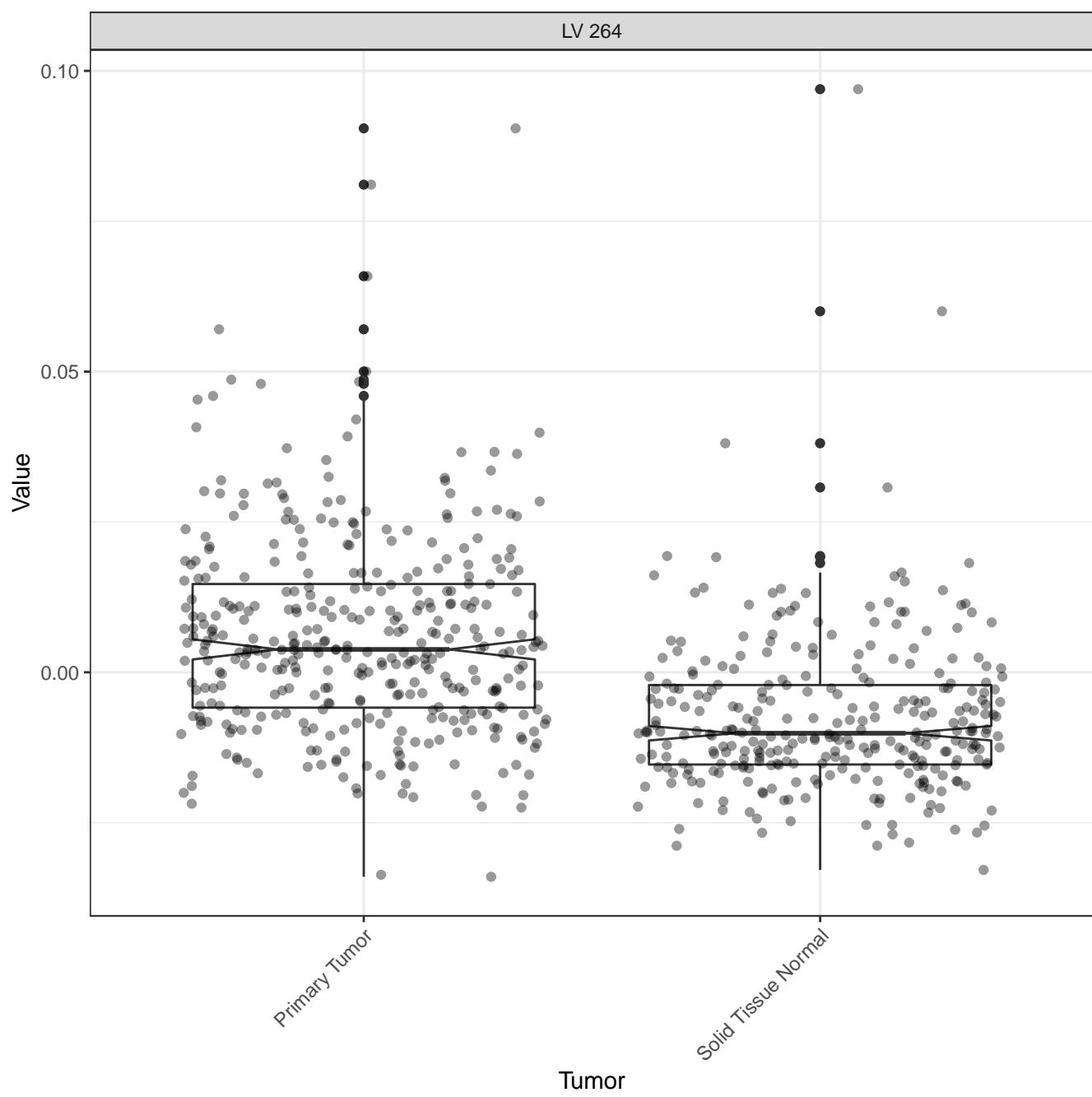
Tumor







LV 264



LV 265

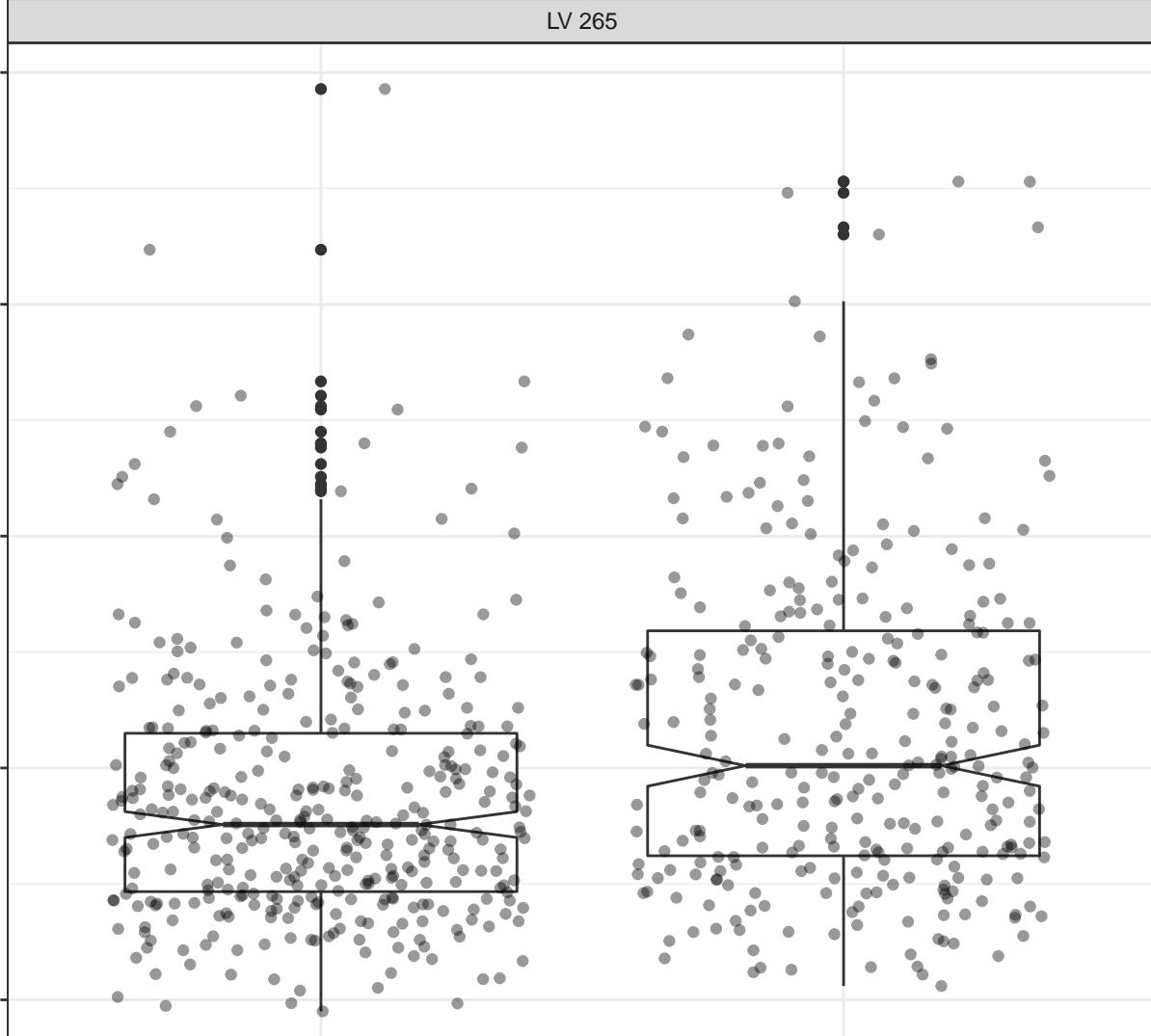
Value

0.075  
0.050  
0.025  
0.000  
-0.025

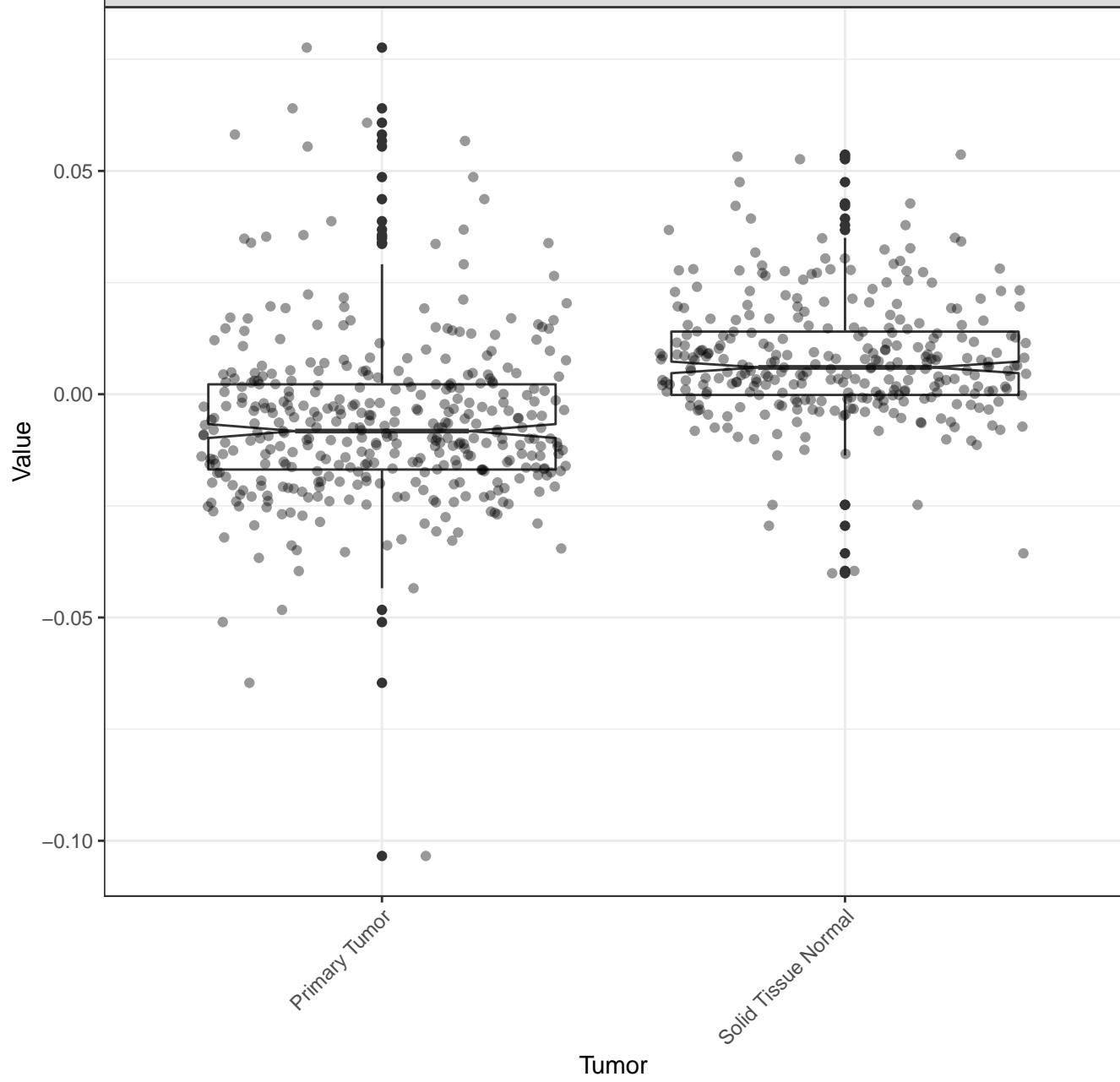
Primary Tumor

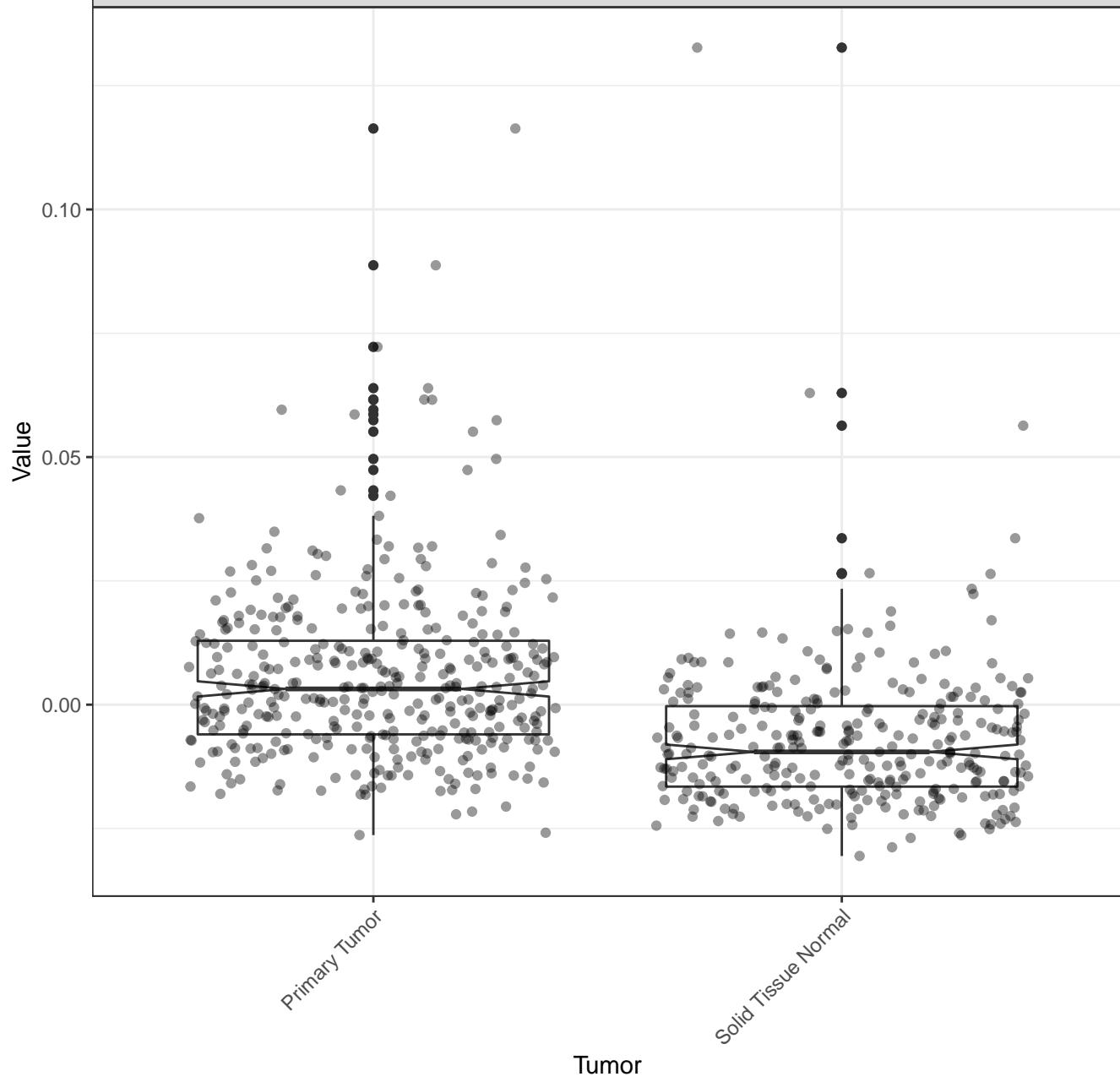
Solid Tissue Normal

Tumor

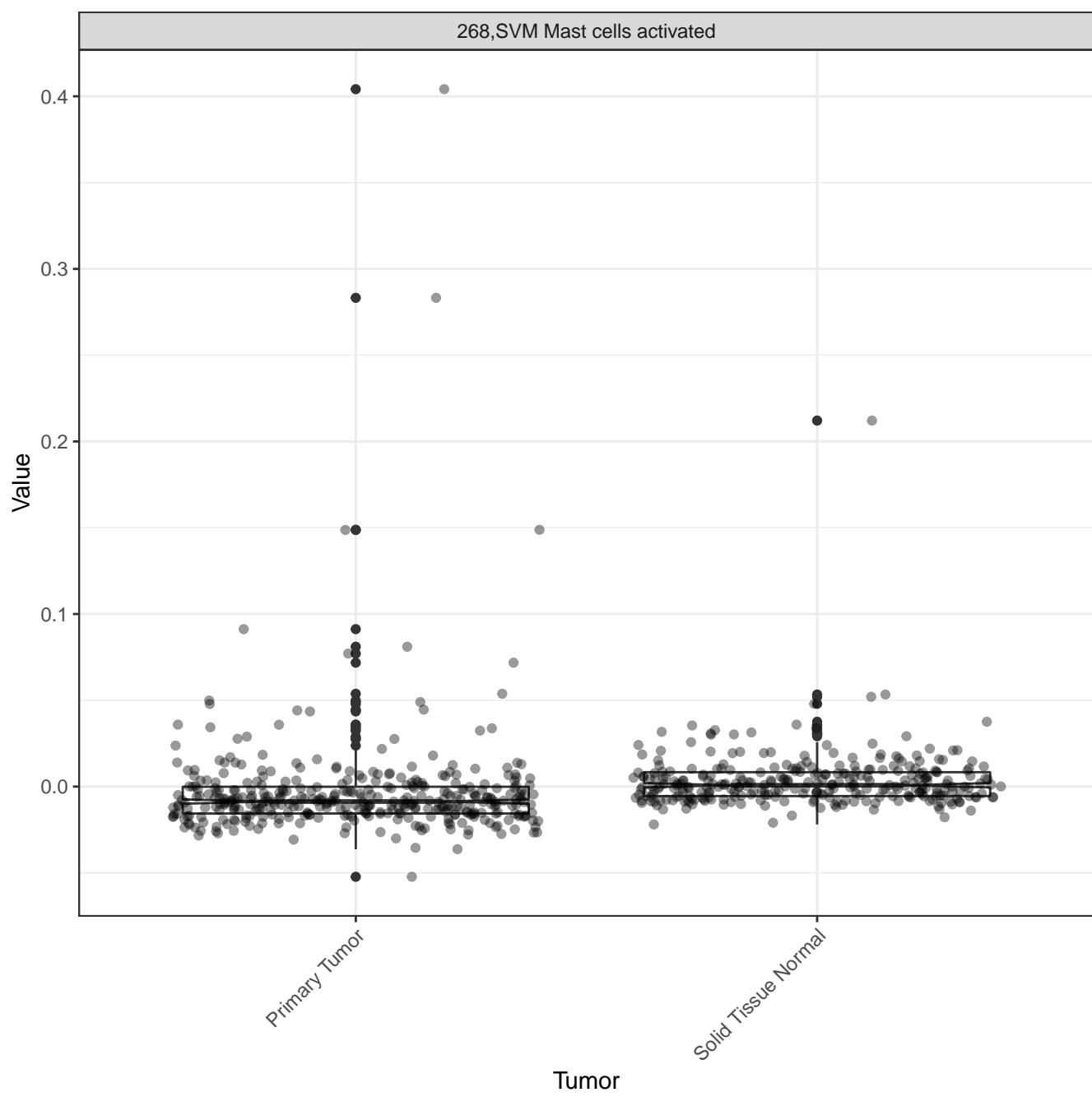


## 266,IRIS\_Monocyte–Day1





268,SVM Mast cells activated



LV 269

Value

0.10

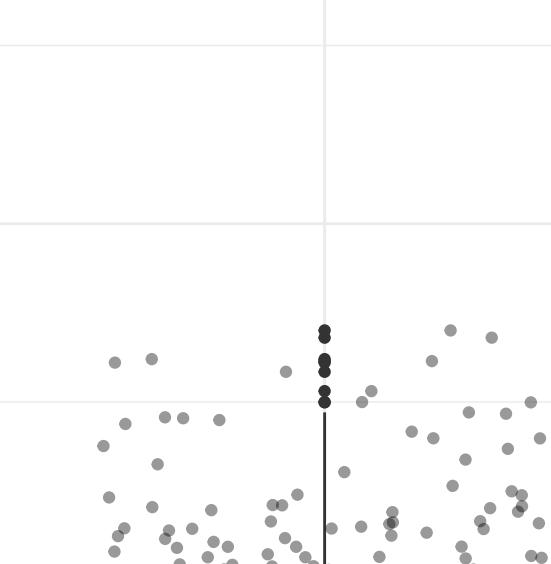
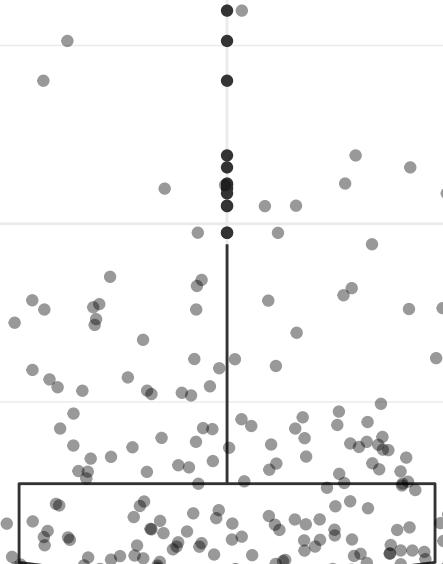
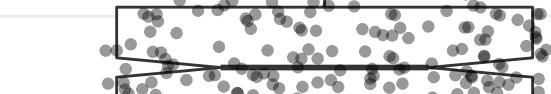
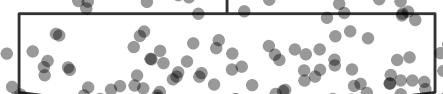
0.05

0.00

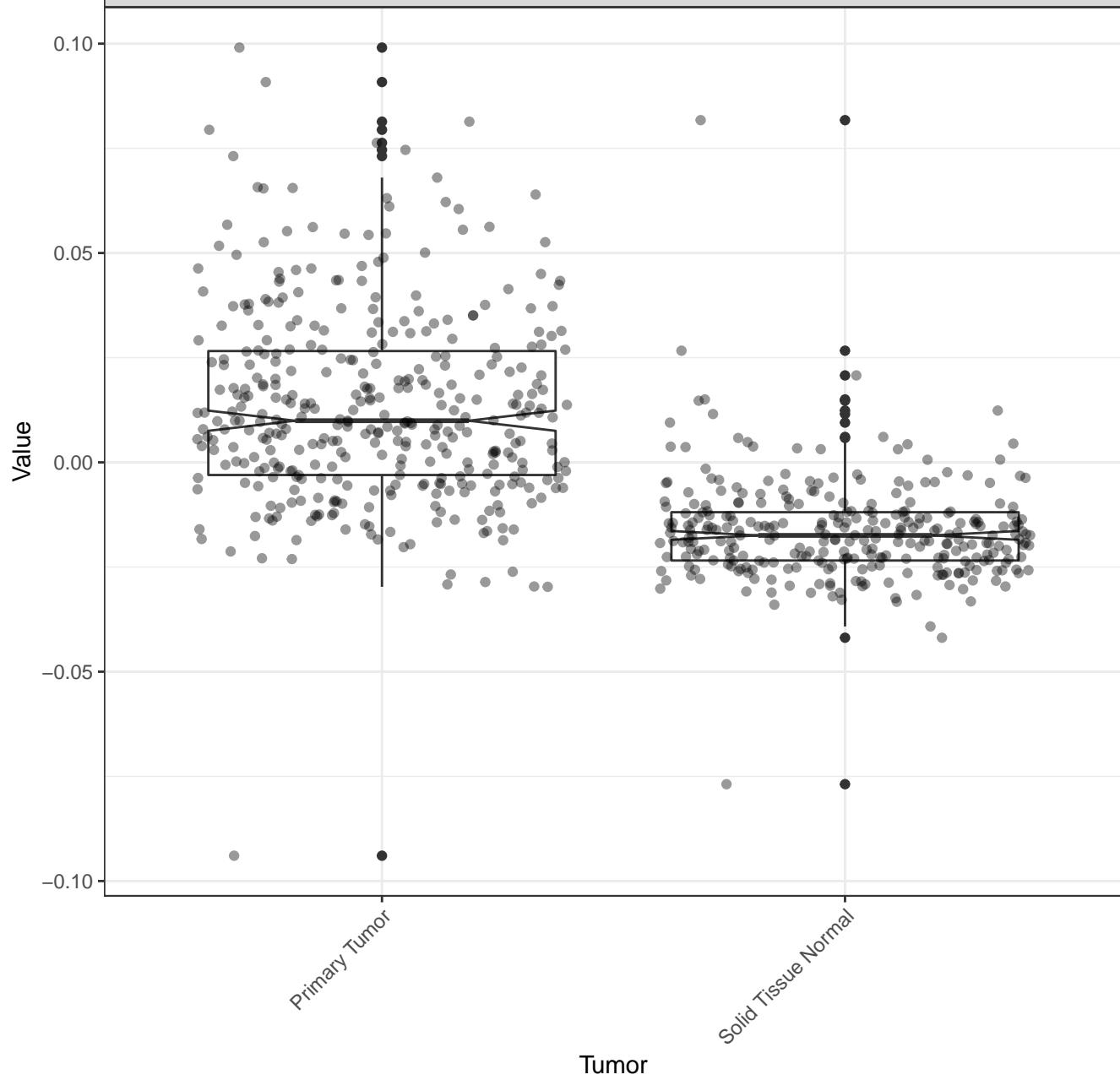
Primary Tumor

Solid Tissue Normal

Tumor



## 270,KEGG\_CELL\_CYCLE



271,SVM B cells memory

Value

0.6

0.4

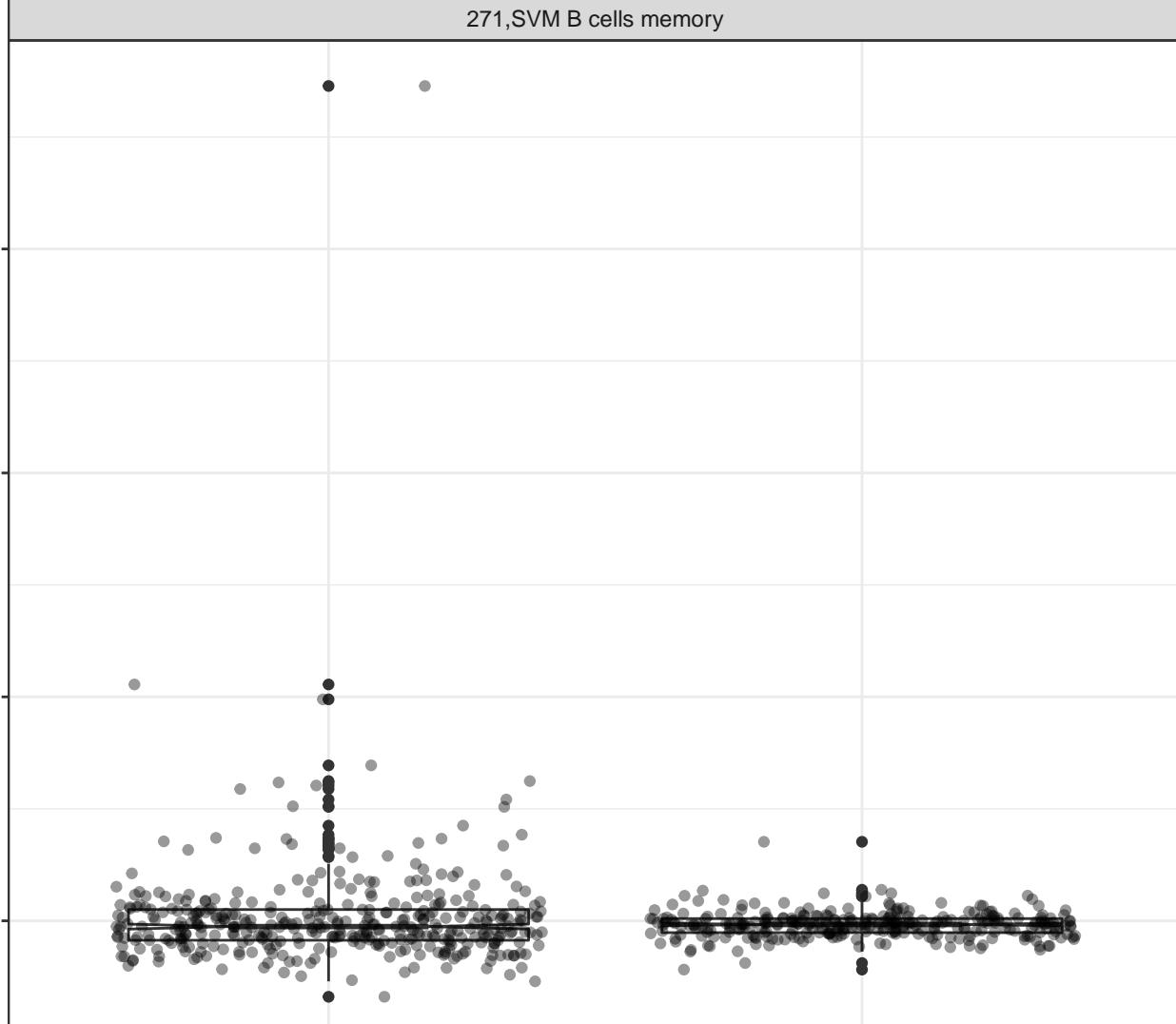
0.2

0.0

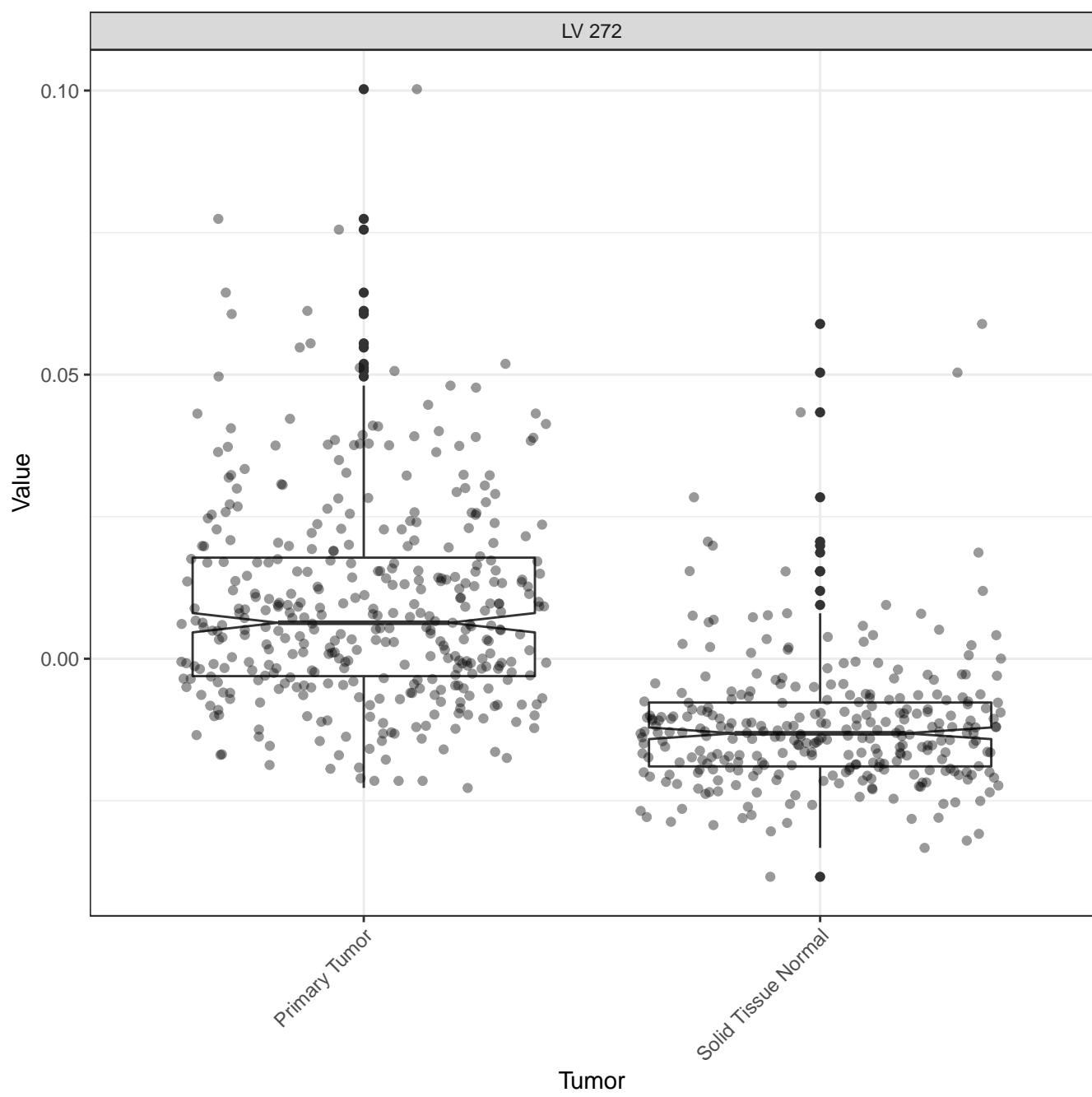
Primary Tumor

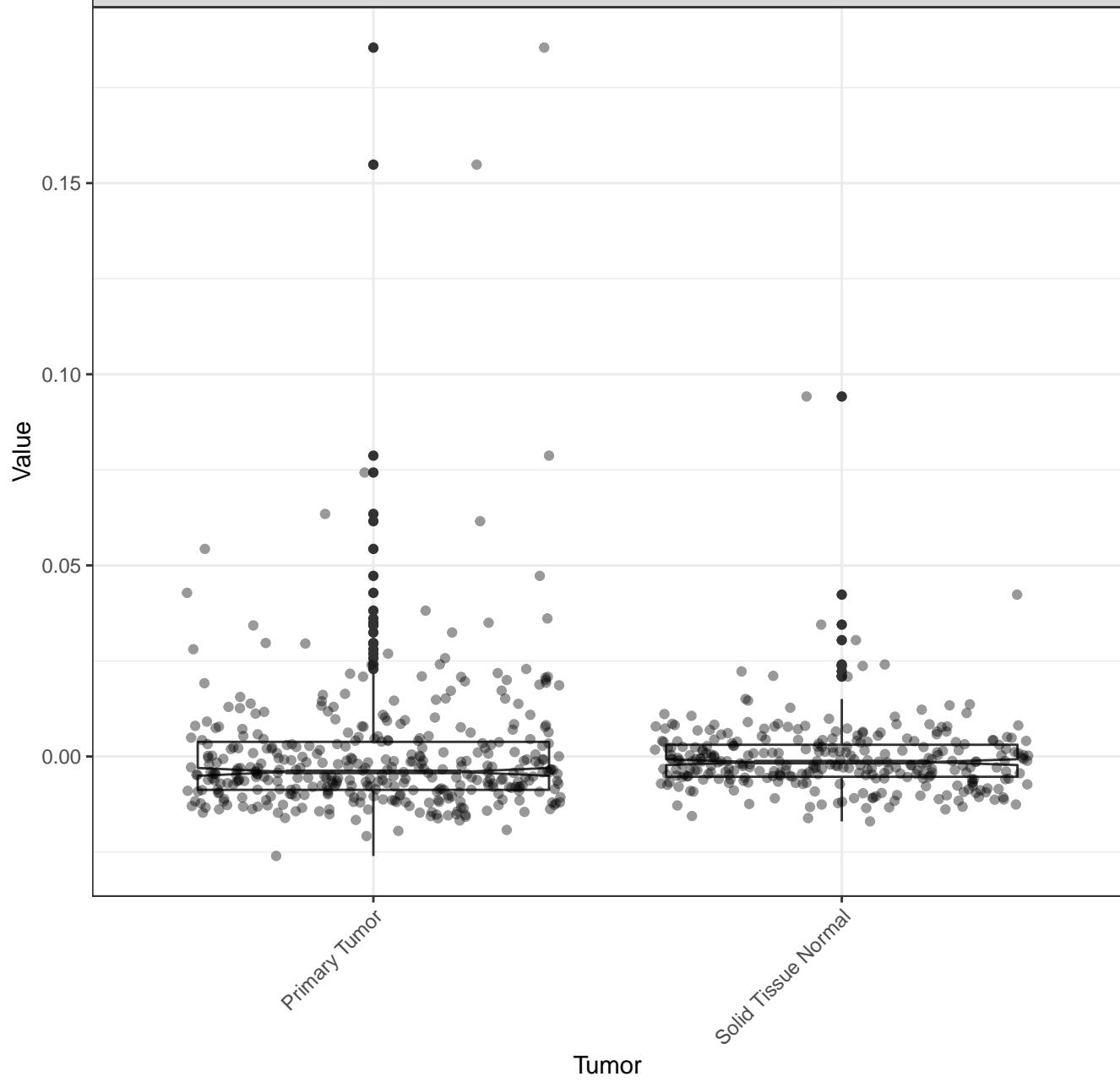
Solid Tissue Normal

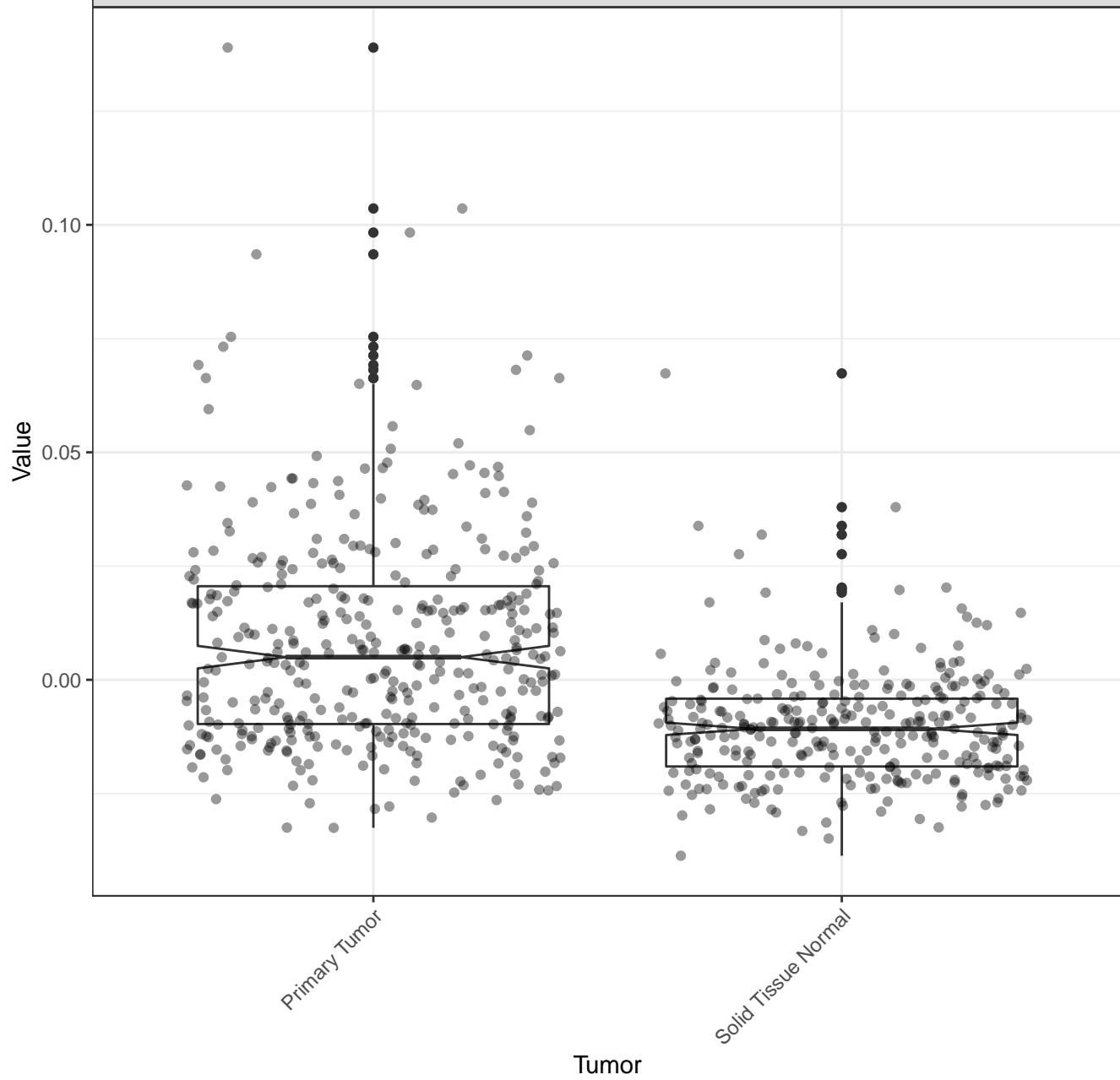
Tumor



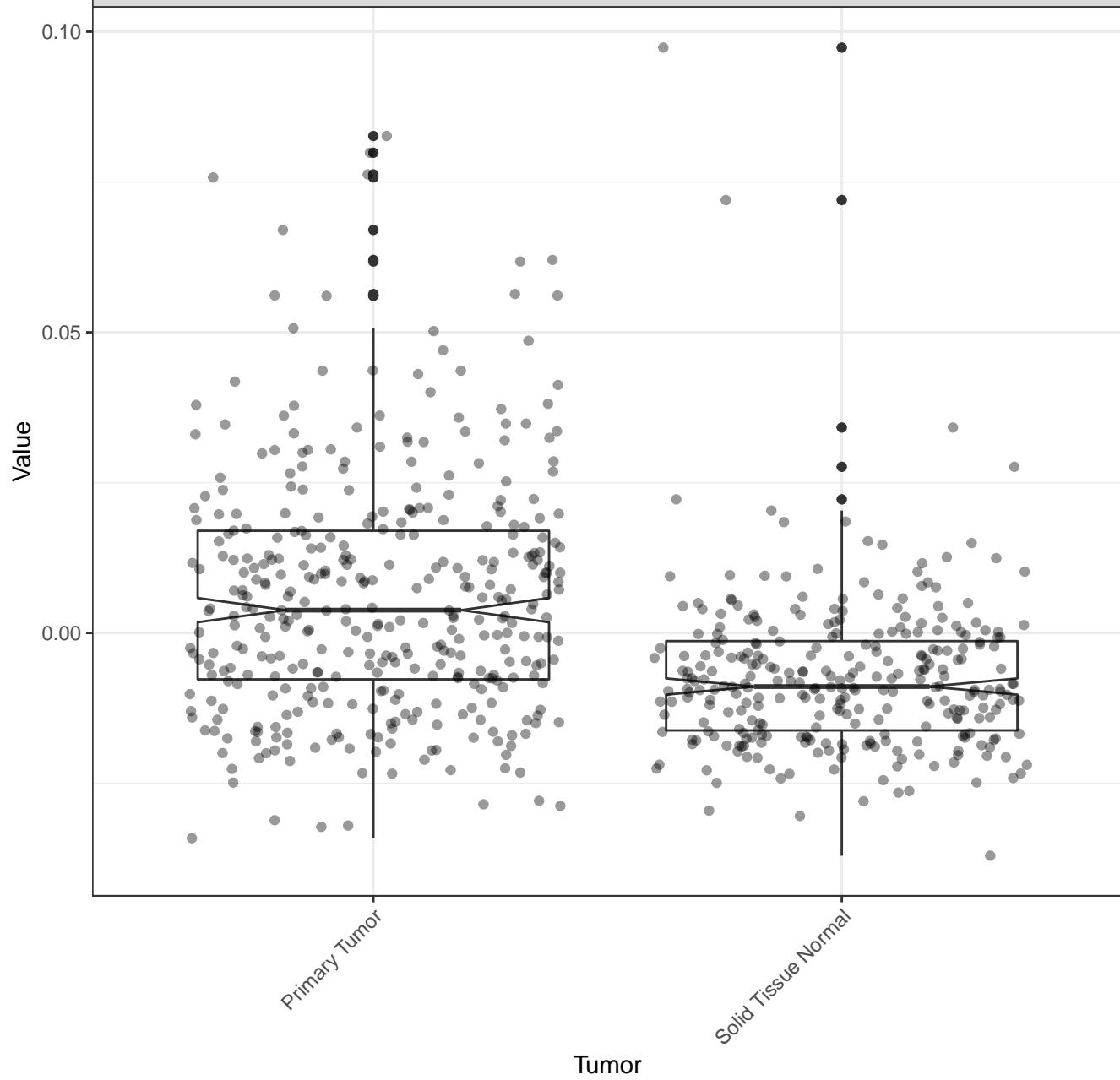
LV 272

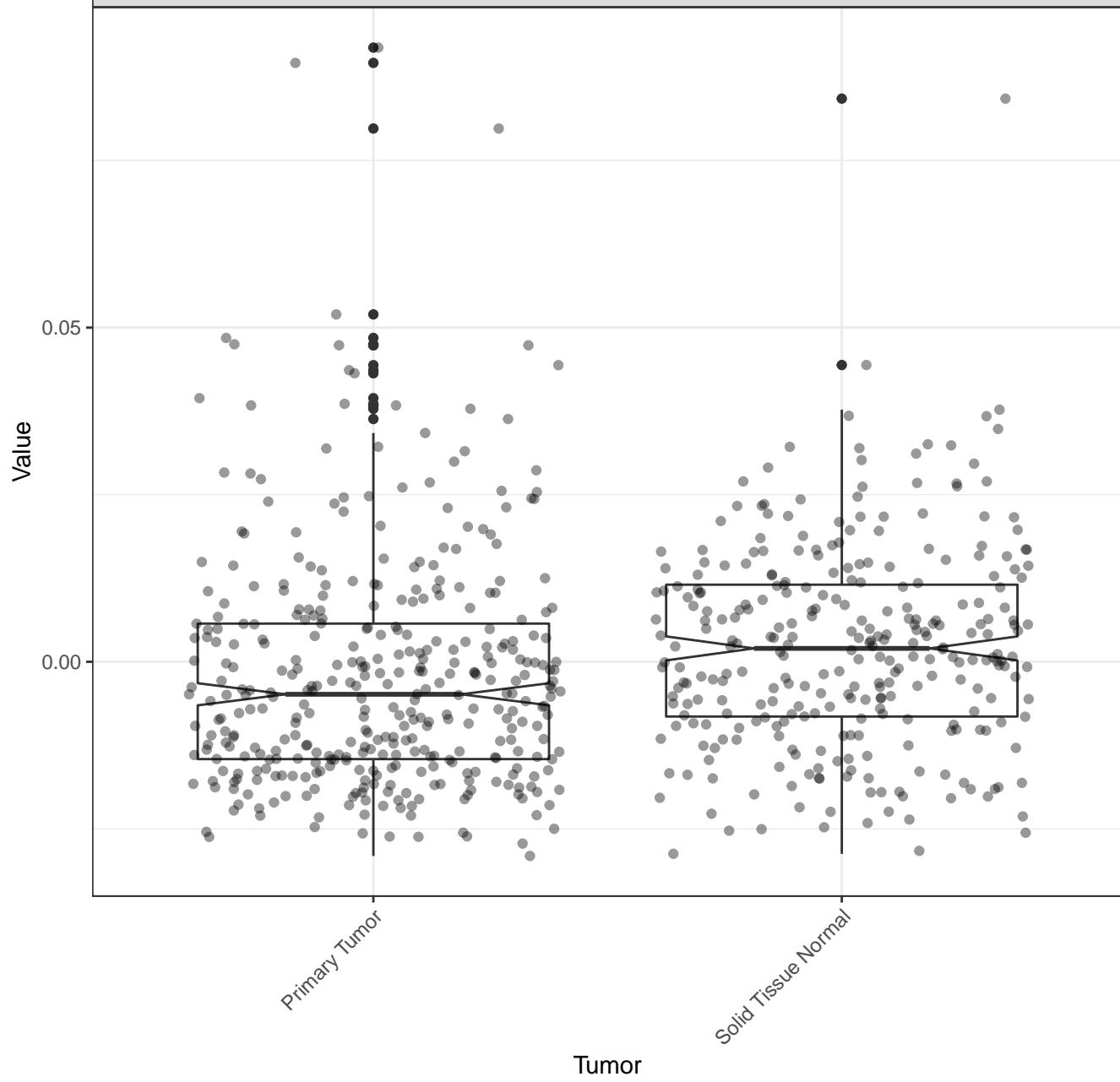




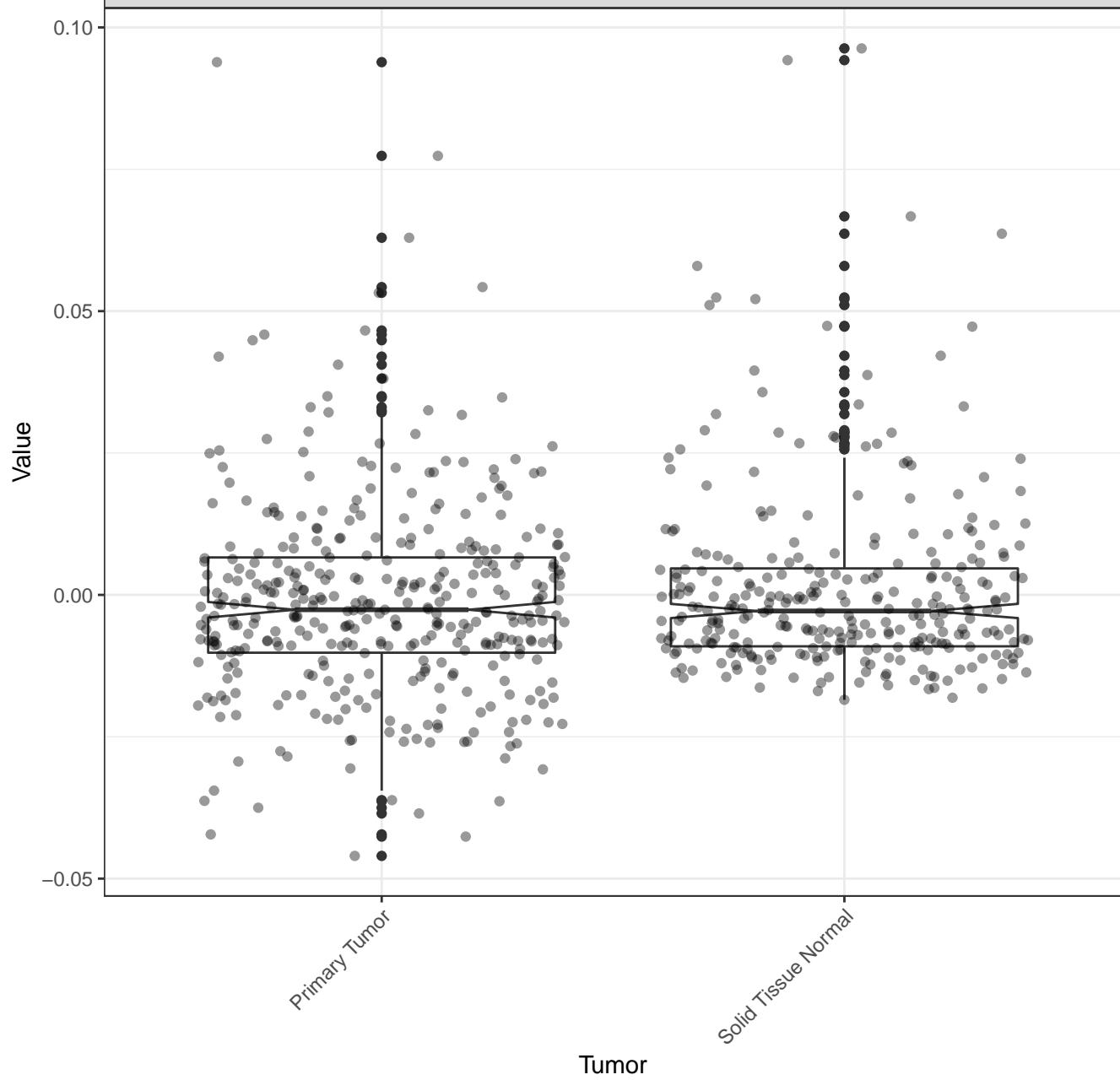


275,REACTOME\_METABOLISM\_OF\_PROTEINS





## 277,PID\_IL4\_2PATHWAY



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

Value

0.2

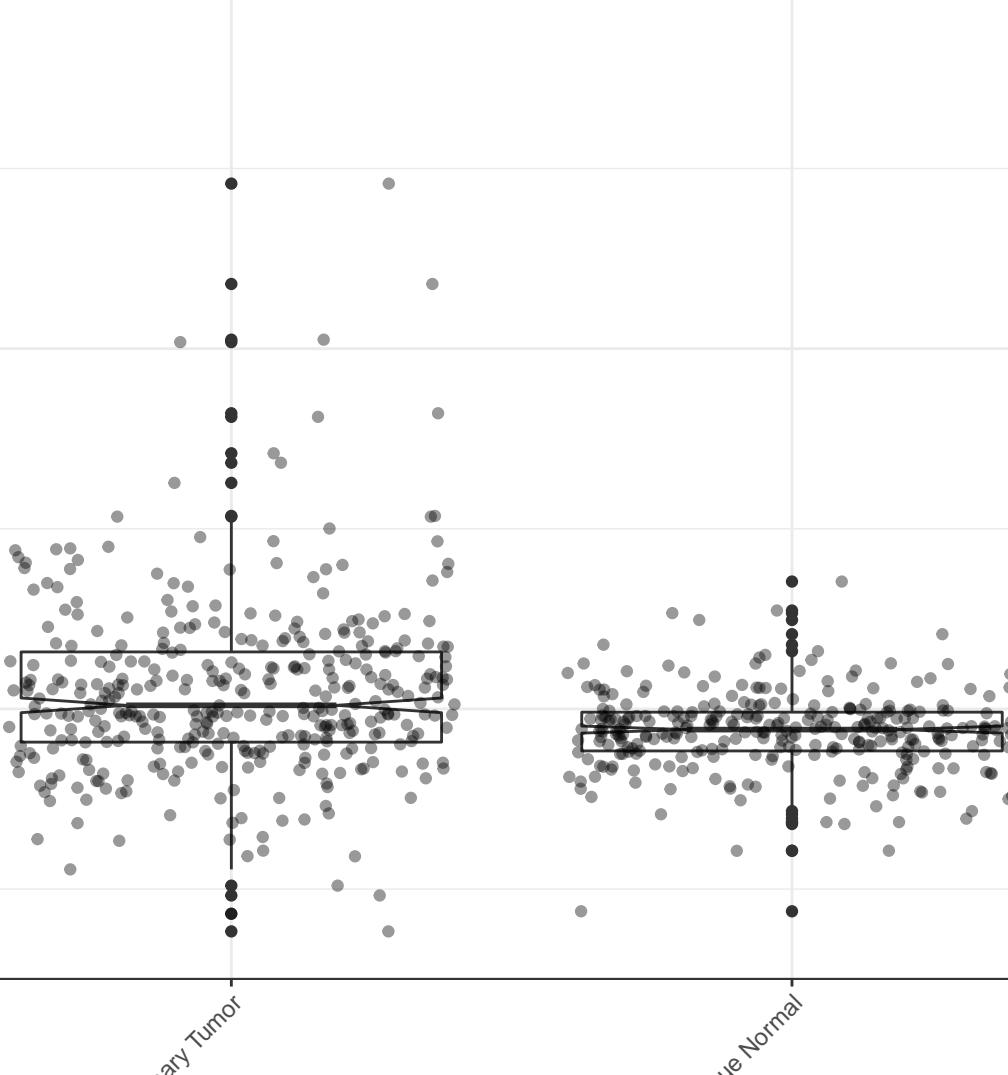
0.1

0.0

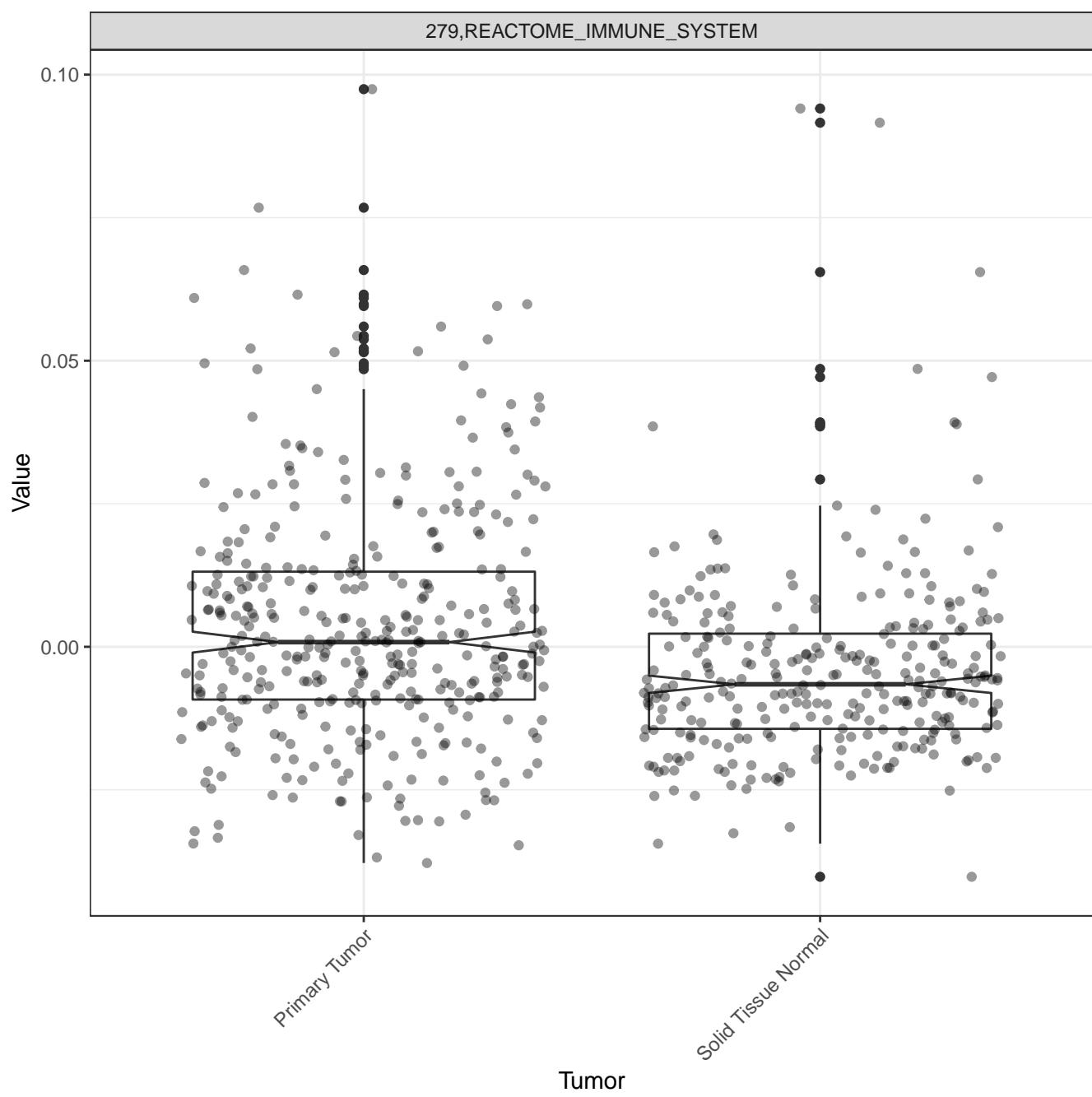
Primary Tumor

Tumor

Solid Tissue Normal



## 279,REACTOME\_IMMUNE\_SYSTEM



Value

0.050

0.025

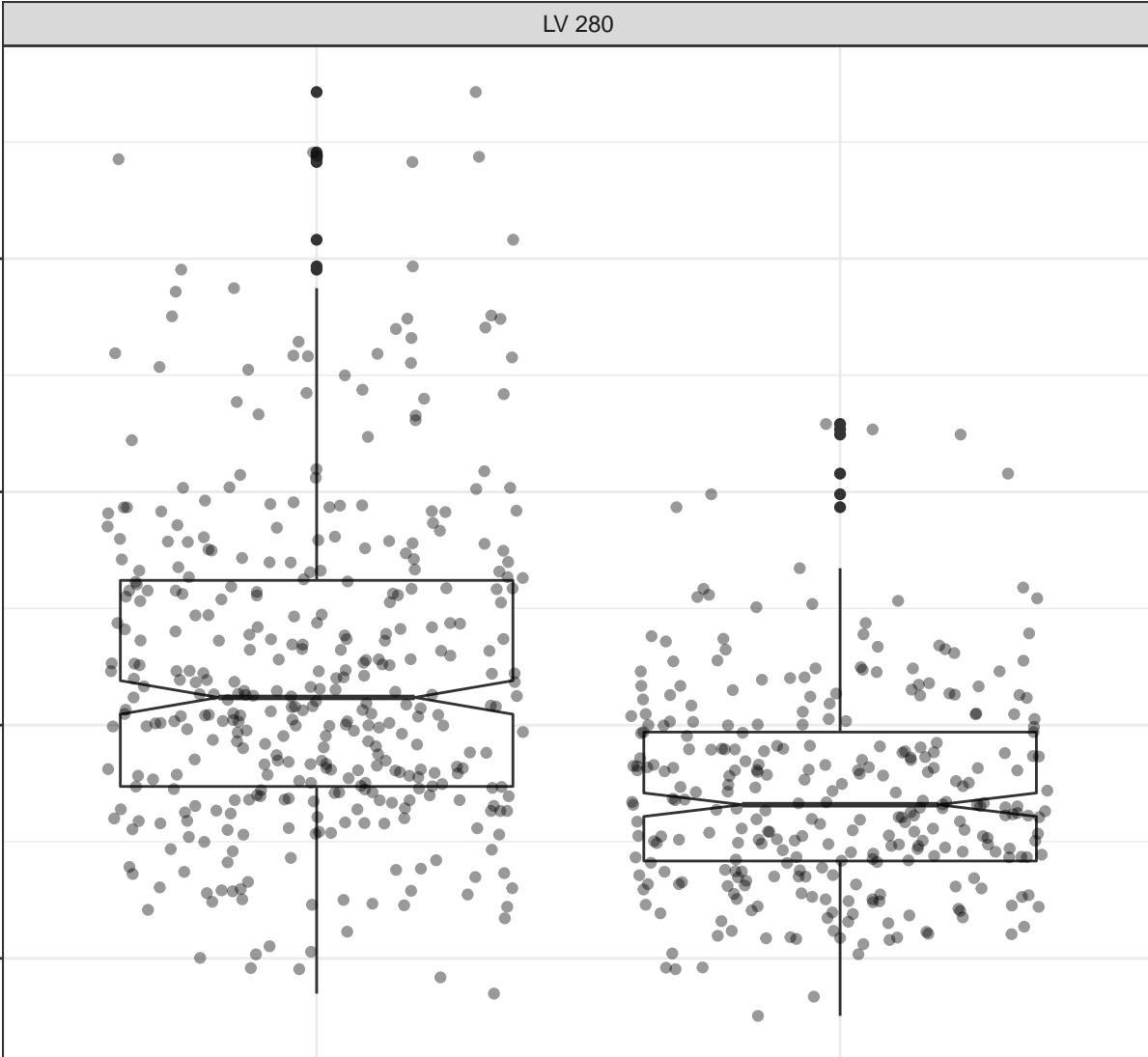
0.000

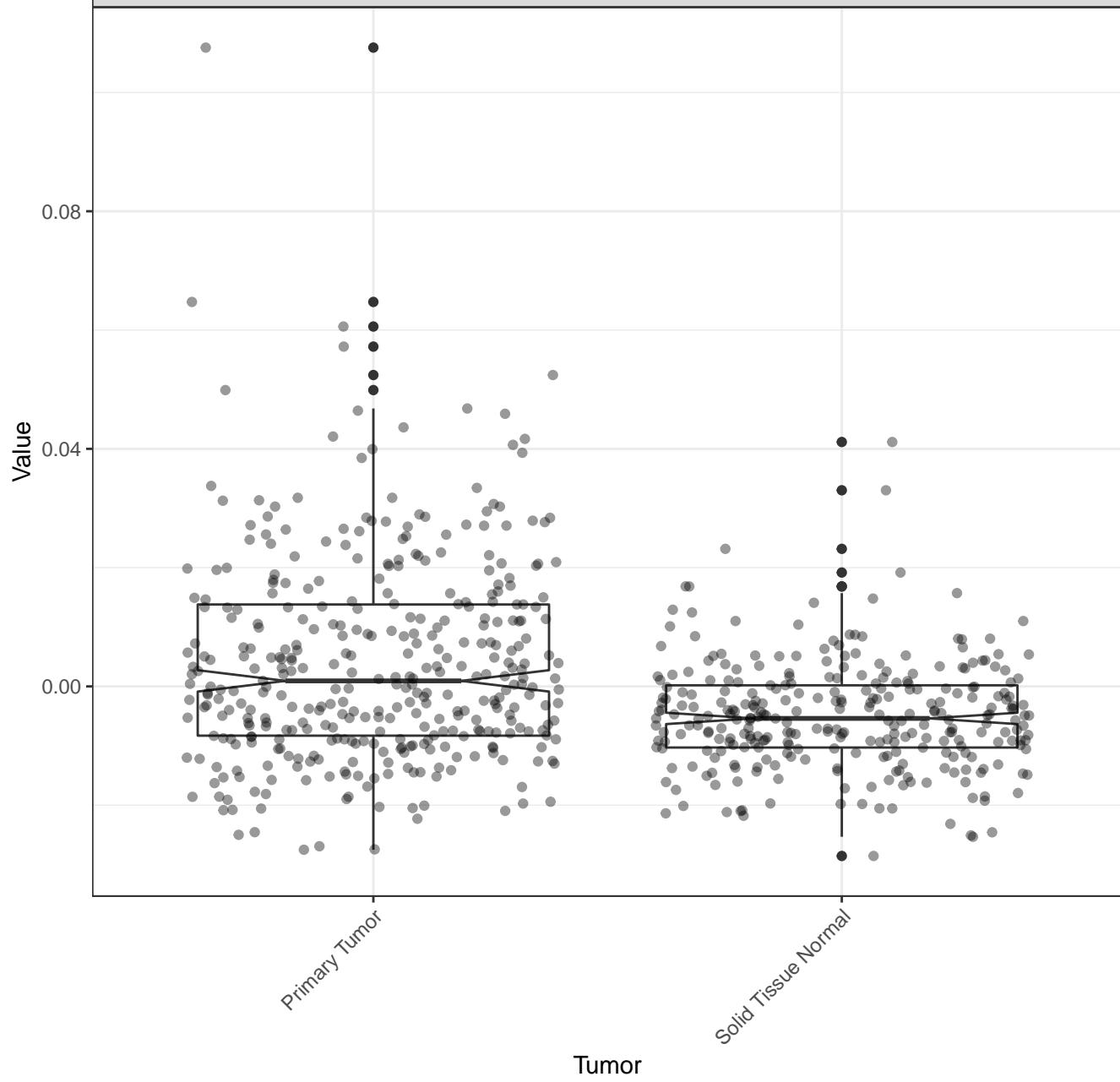
-0.025

Primary Tumor

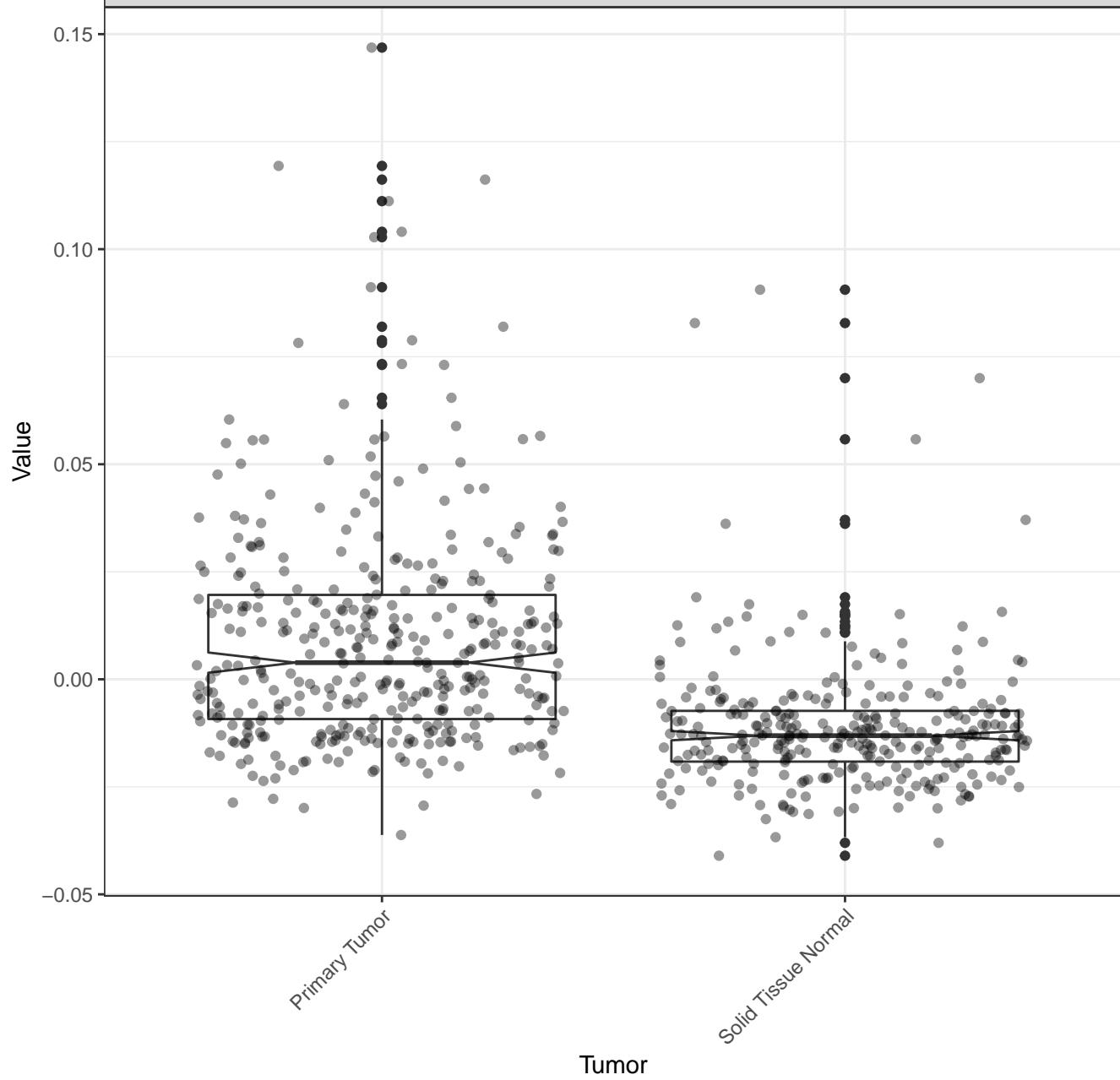
Solid Tissue Normal

Tumor

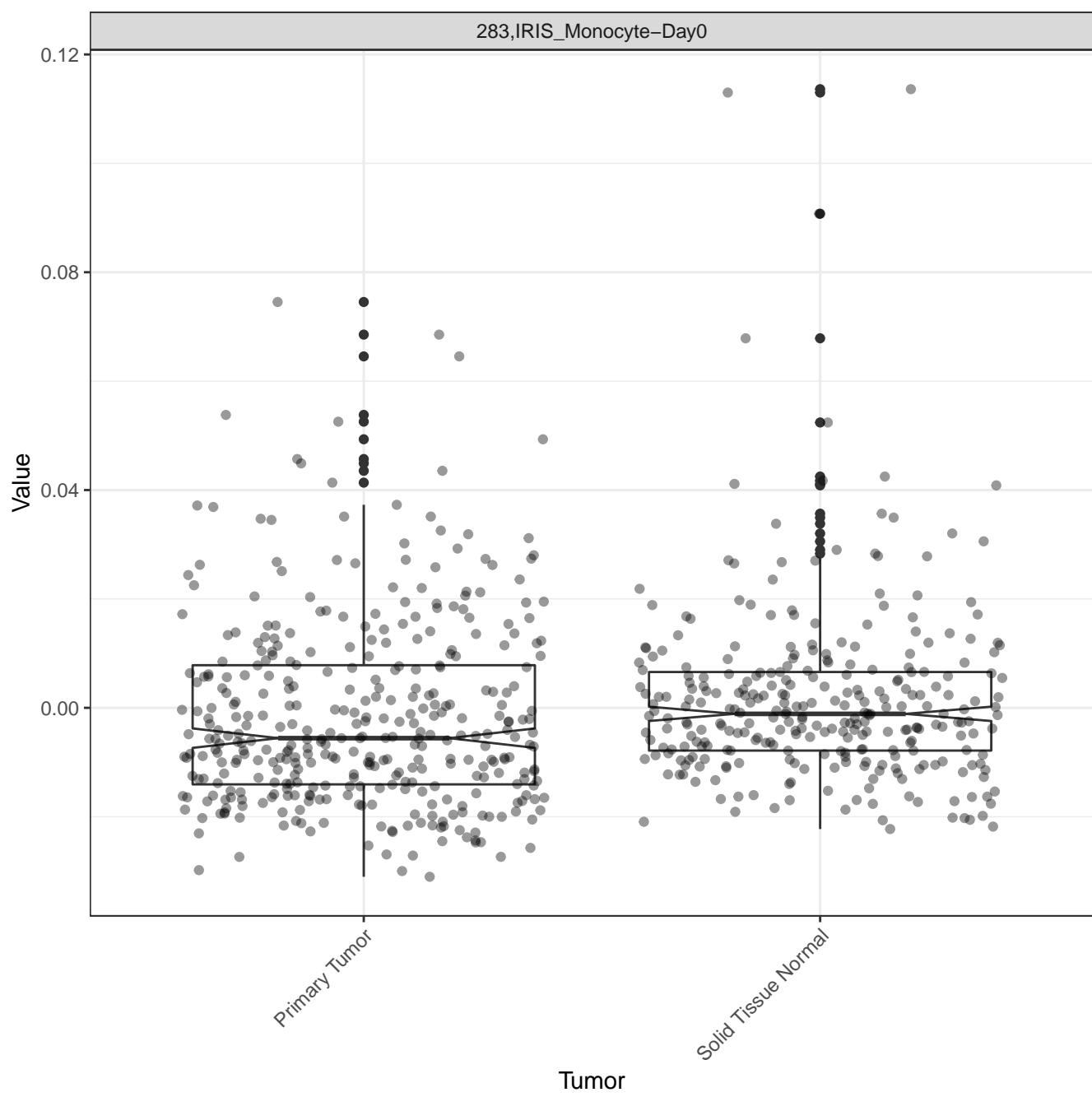




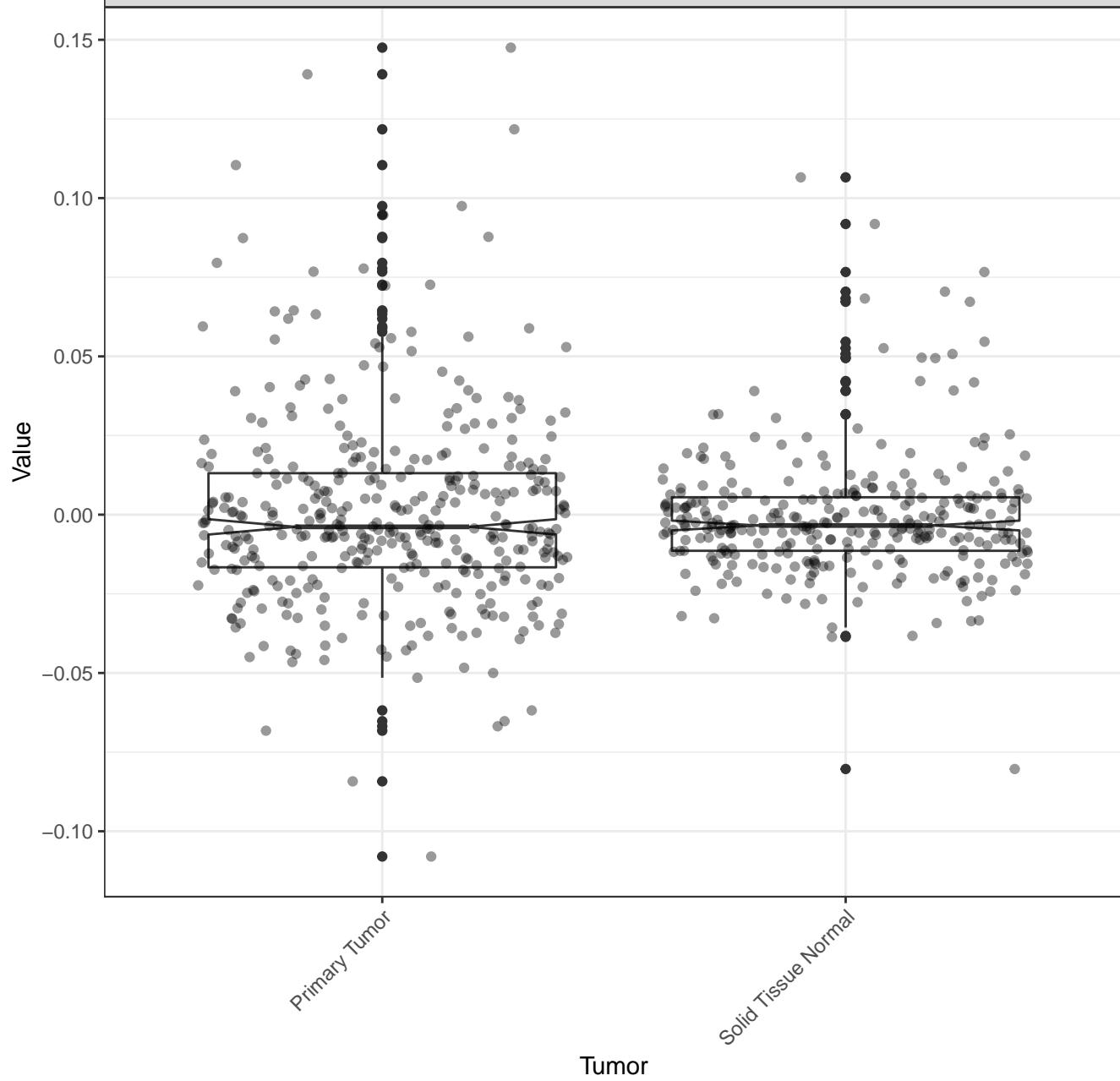
## 282,KEGG\_RNA\_DEGRADATION

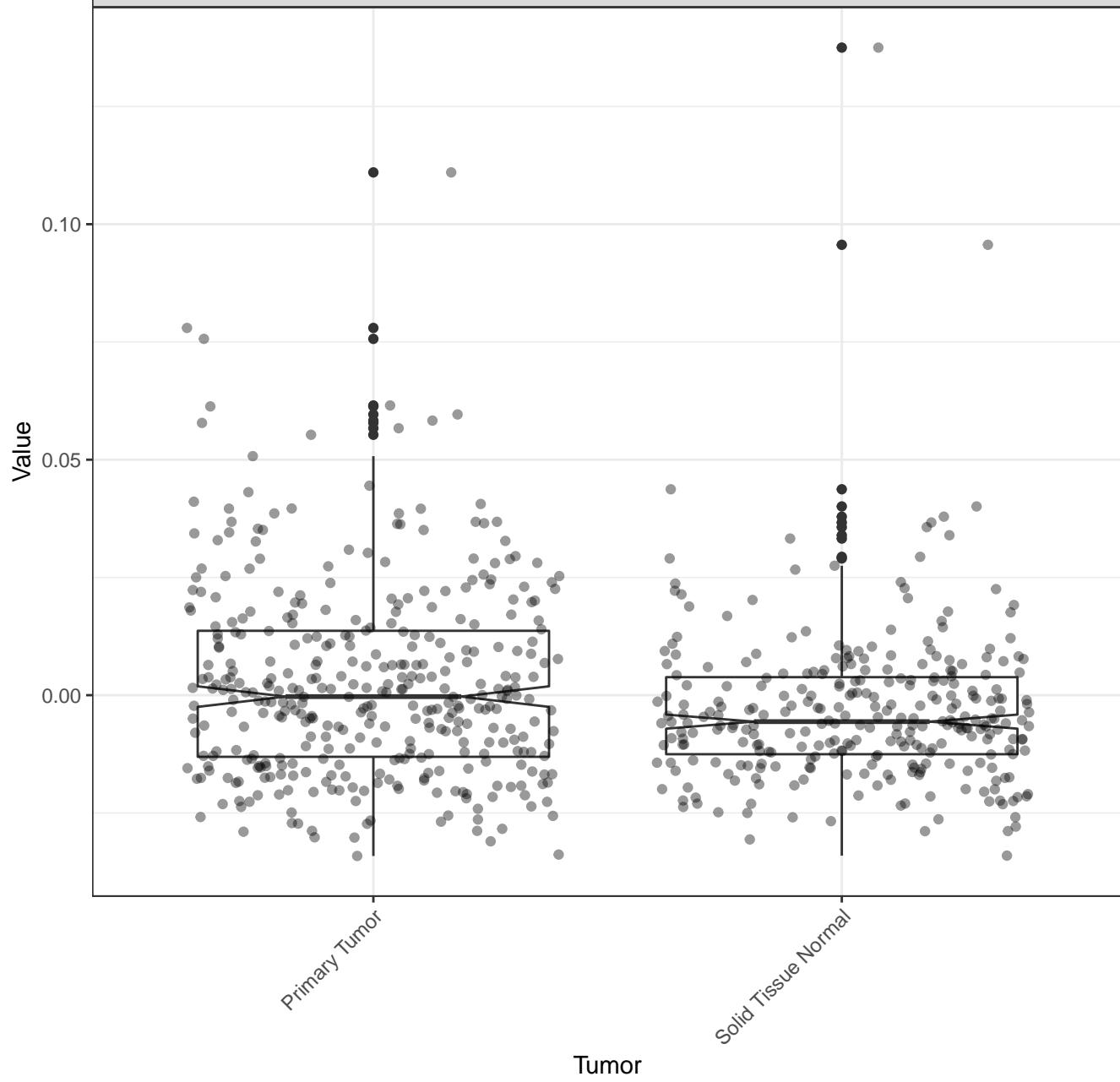


## 283,IRIS\_Monocyte-Day0

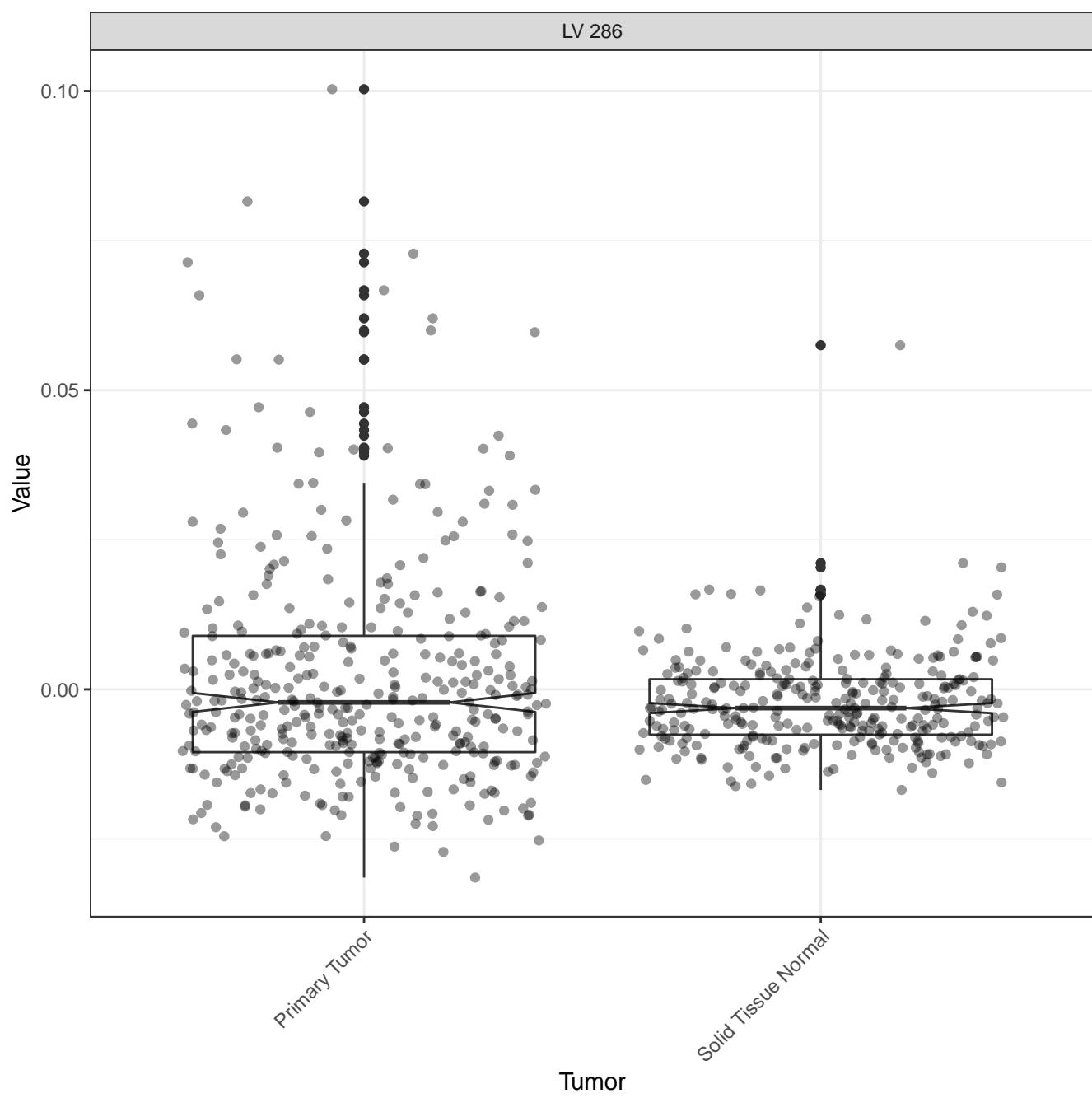


# 284,KEGG\_ECM\_RECECTOR\_INTERACTION



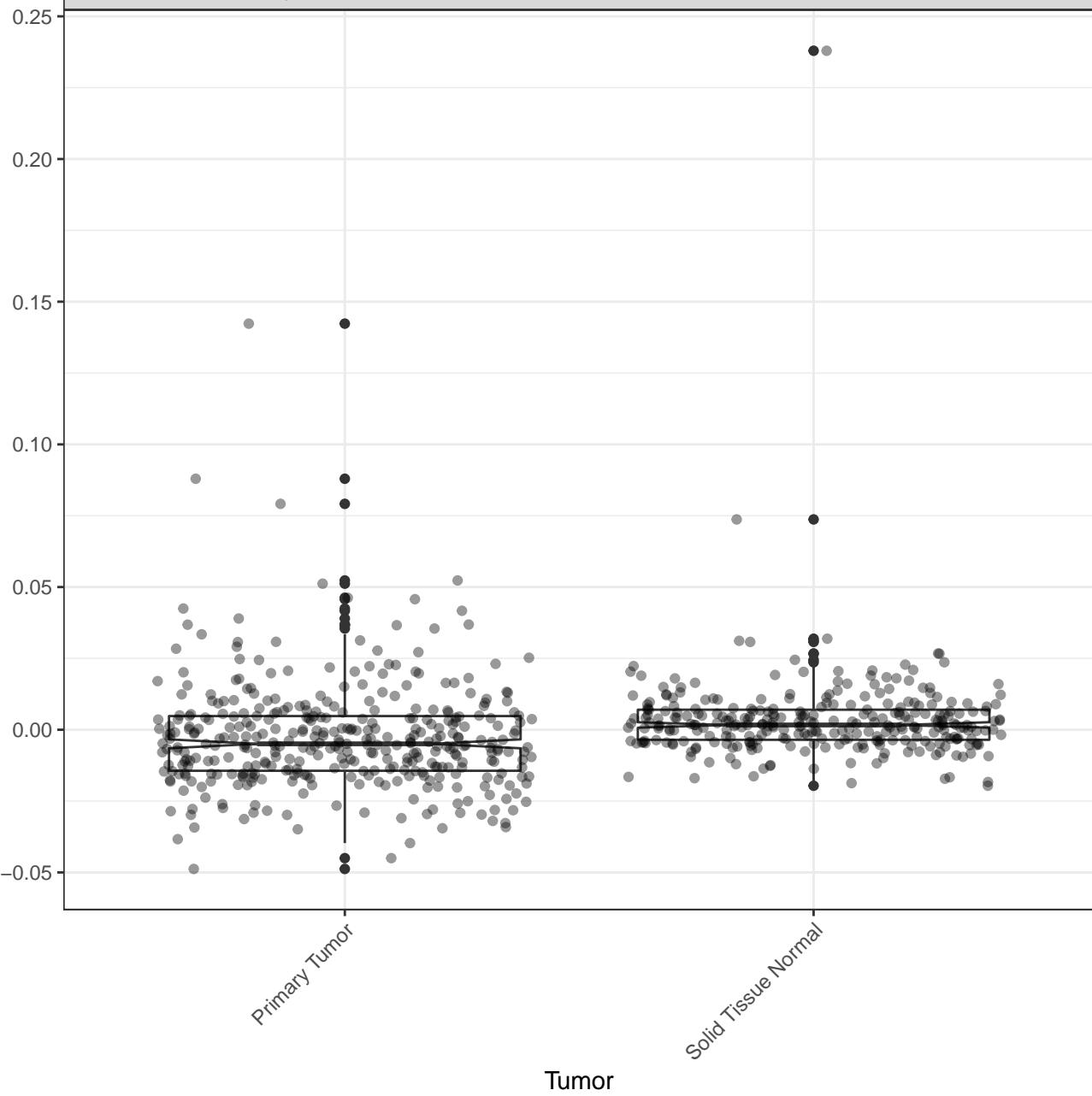


LV 286



287,REACTOME\_TRANSMISSION\_ACROSS\_CHEMICAL\_SYNAPSES

Value



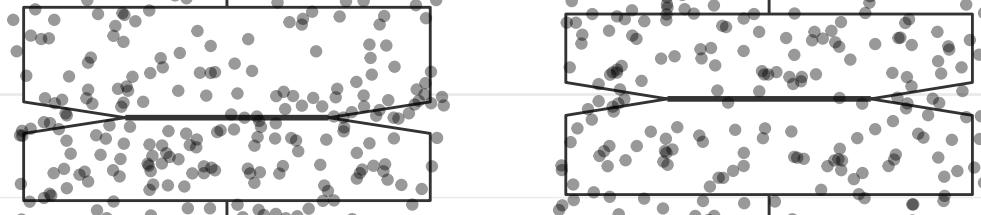
Value

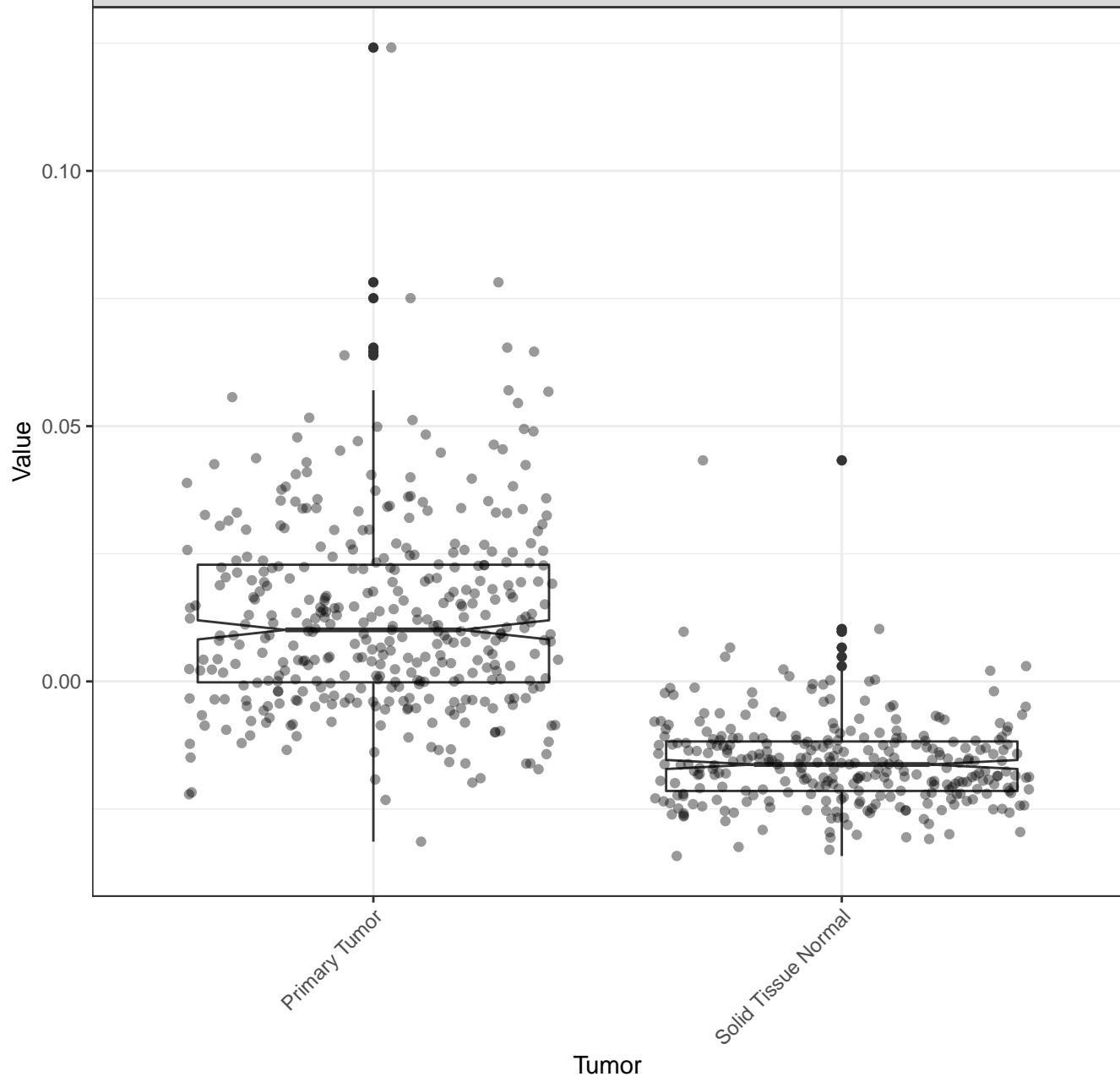
0.050  
0.025  
0.000  
-0.025  
-0.050

Primary Tumor

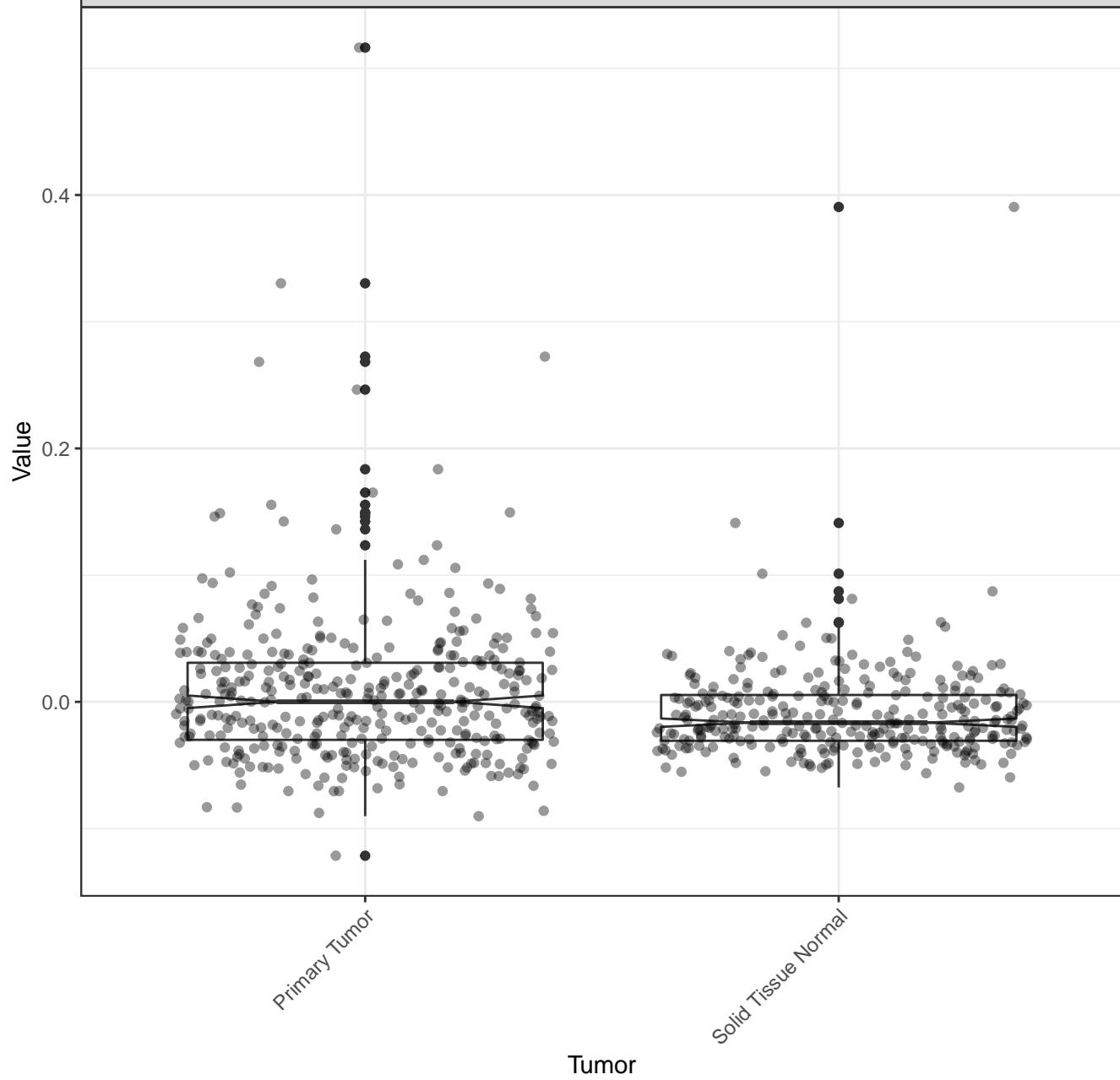
Solid Tissue Normal

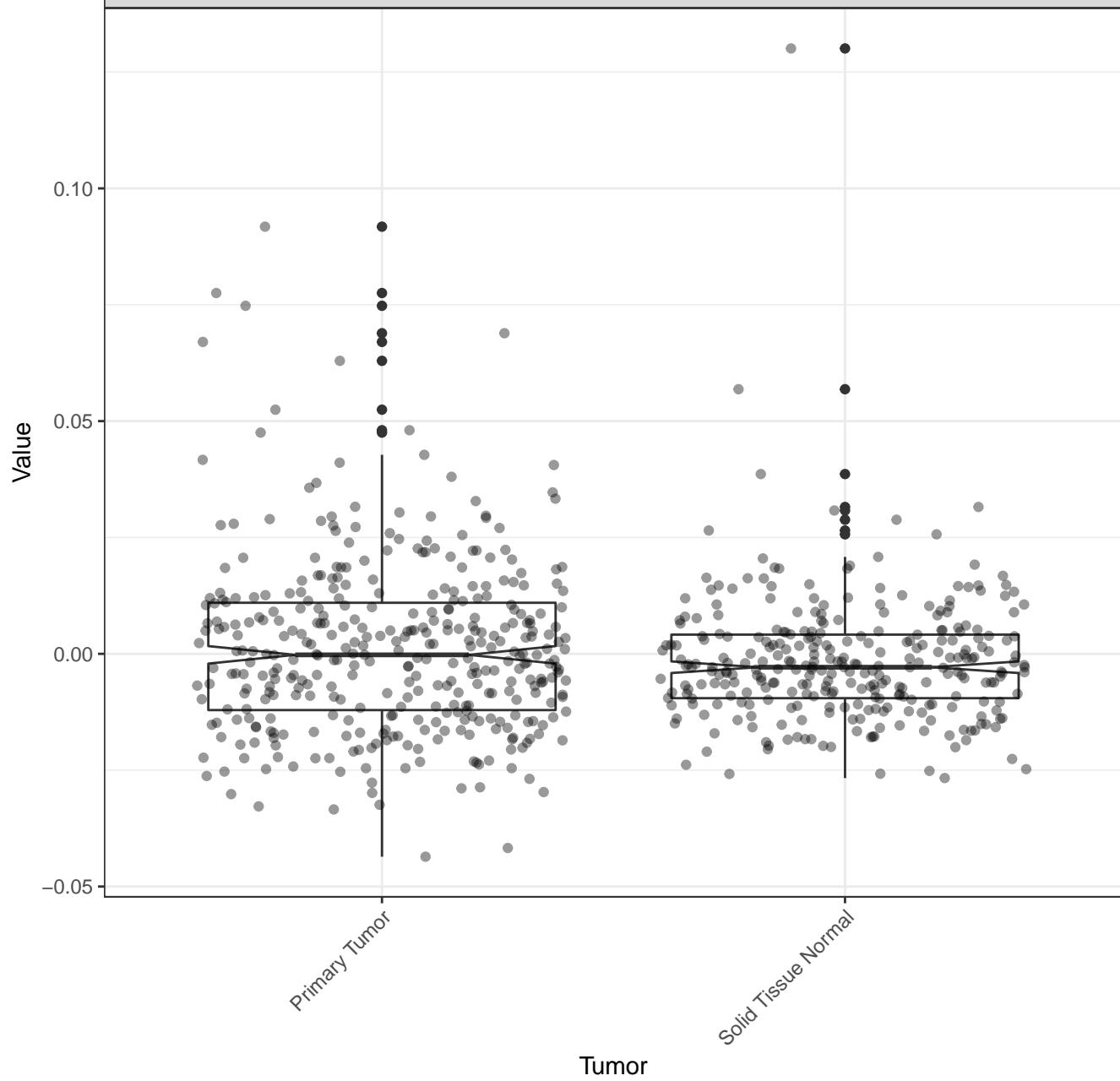
Tumor



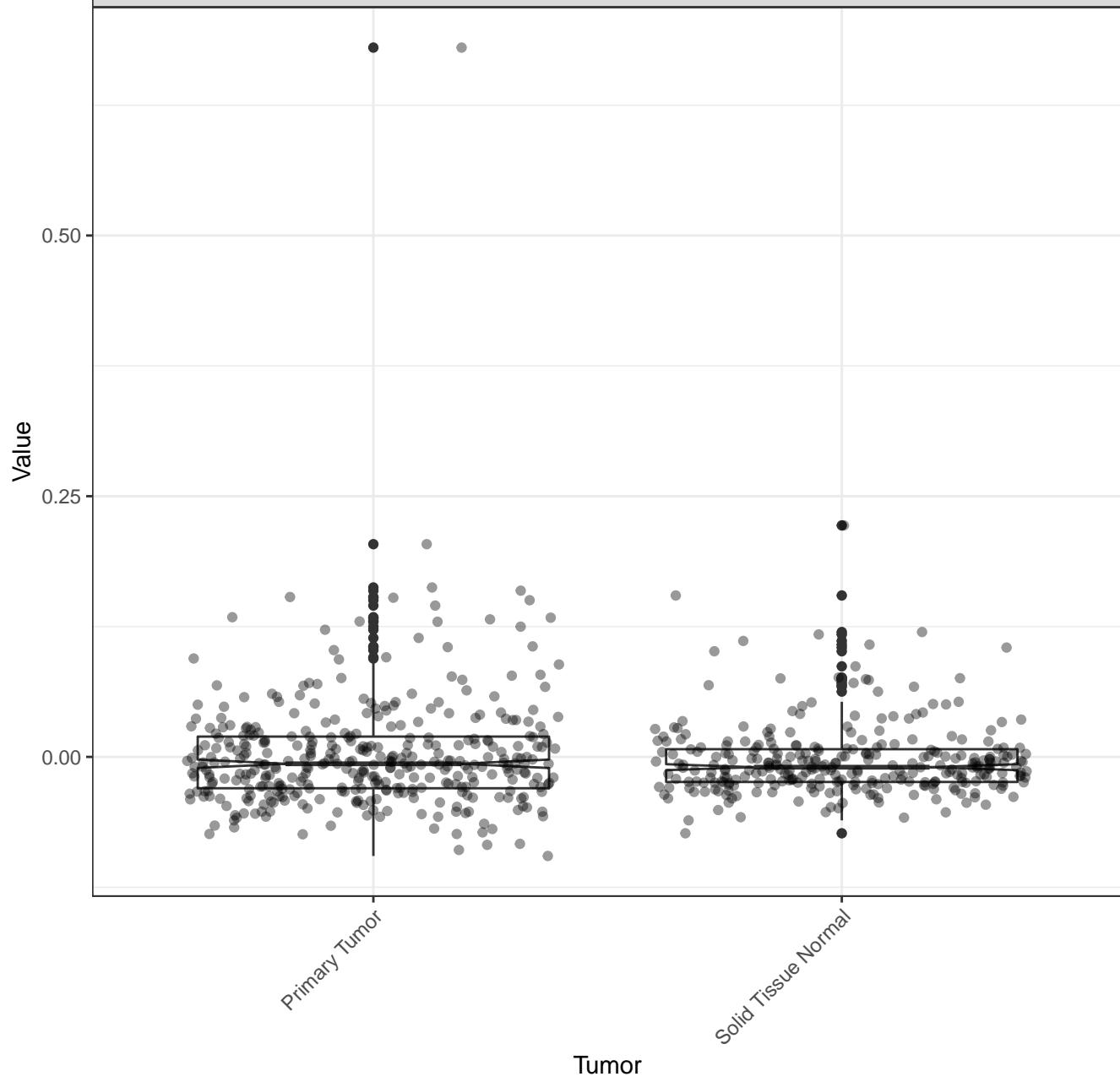


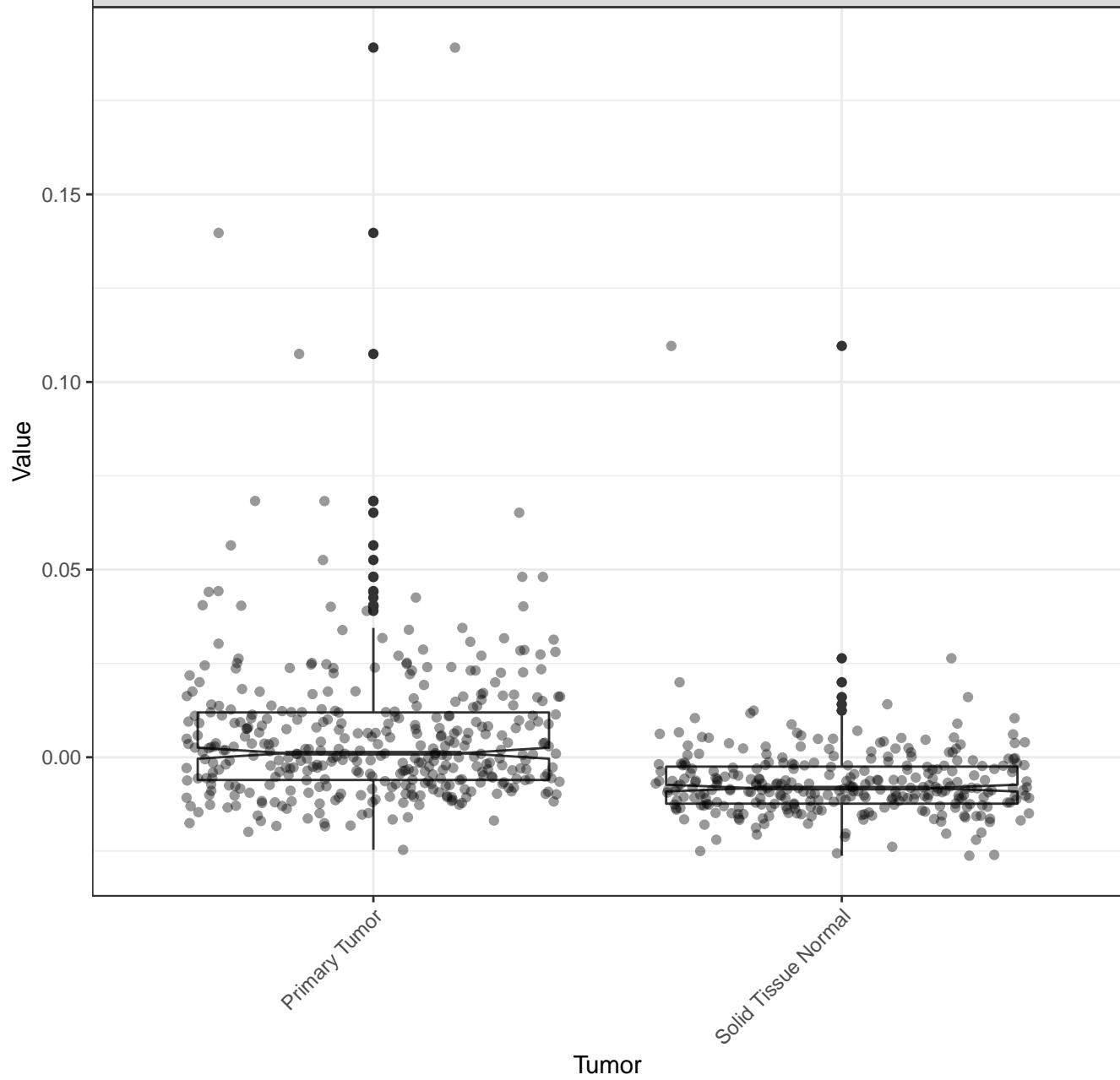
## 290,PID\_INTEGRIN1\_PATHWAY



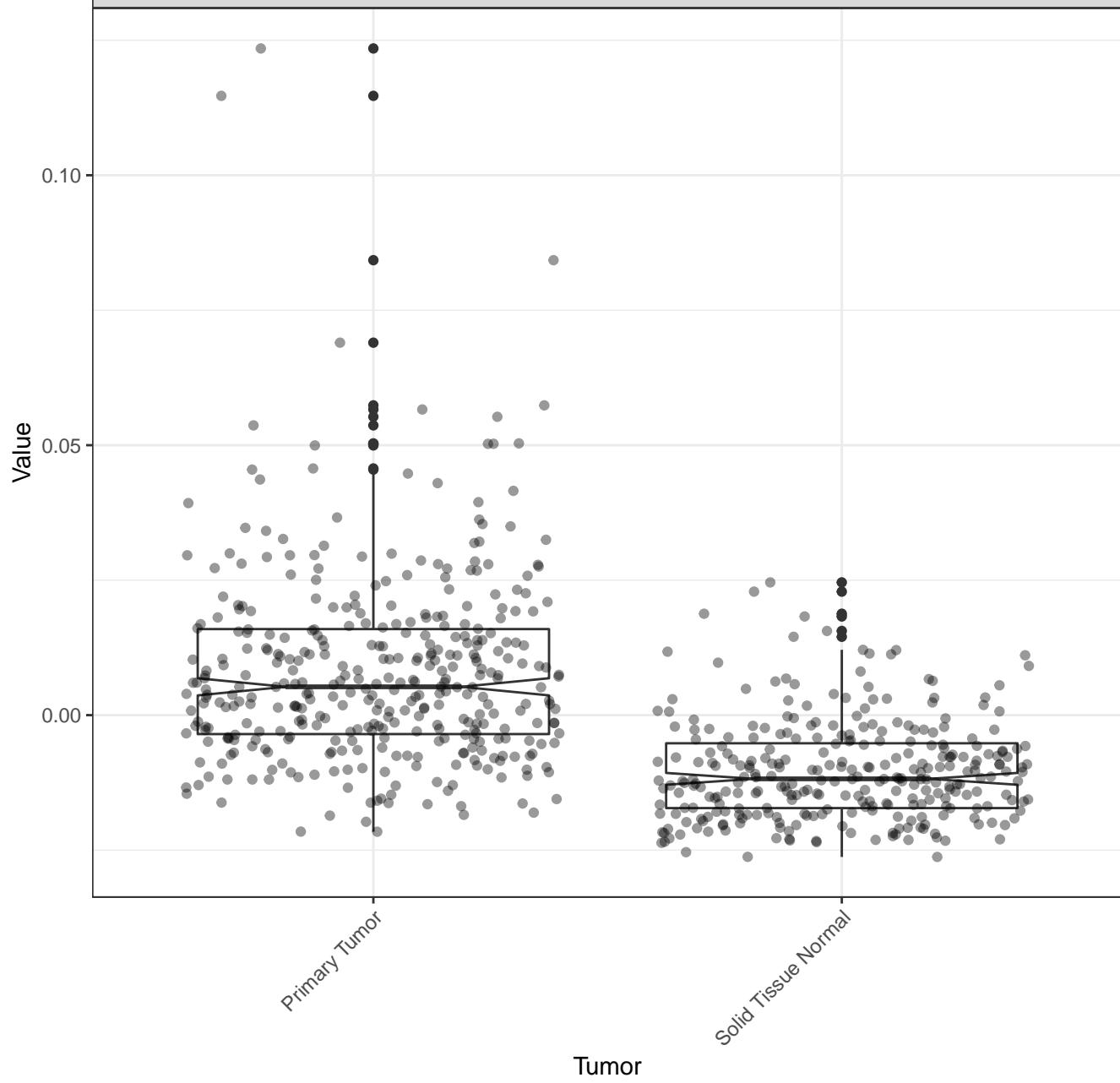


## 292,SVM T cells CD8

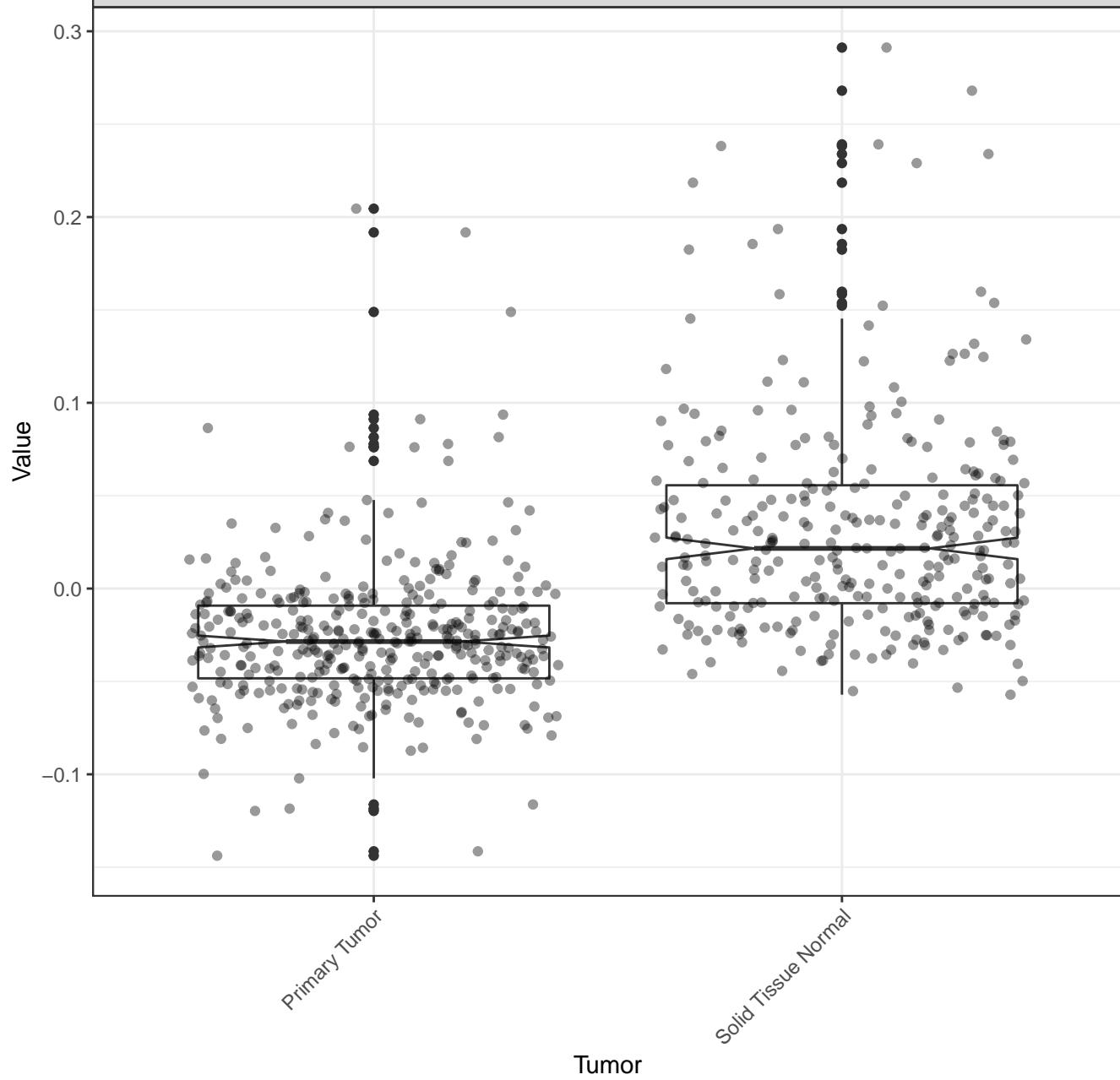




294,REACTOME\_METABOLISM\_OF\_PROTEINS



## 295,PID\_ATF2\_PATHWAY



LV 296

Value

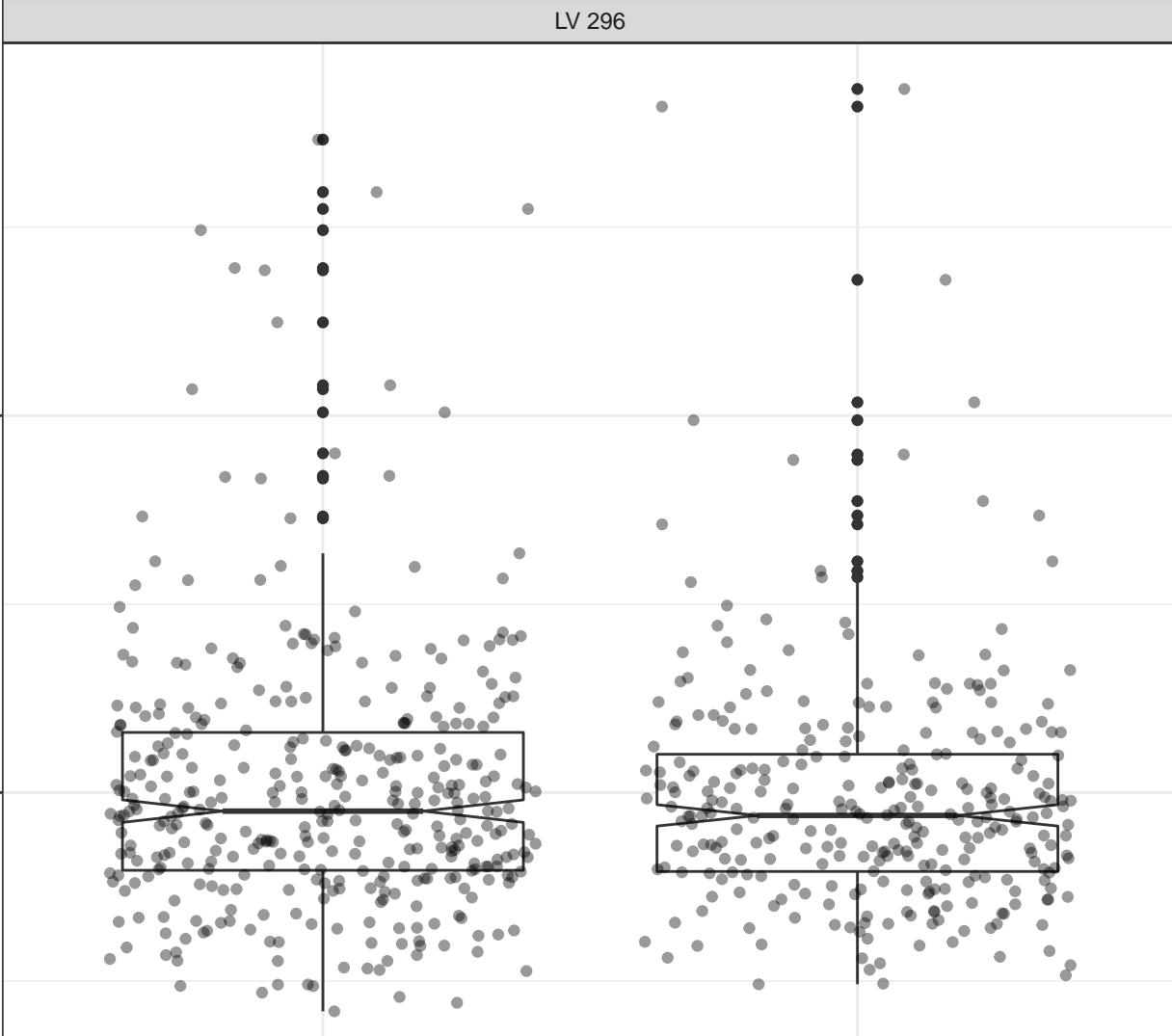
0.05

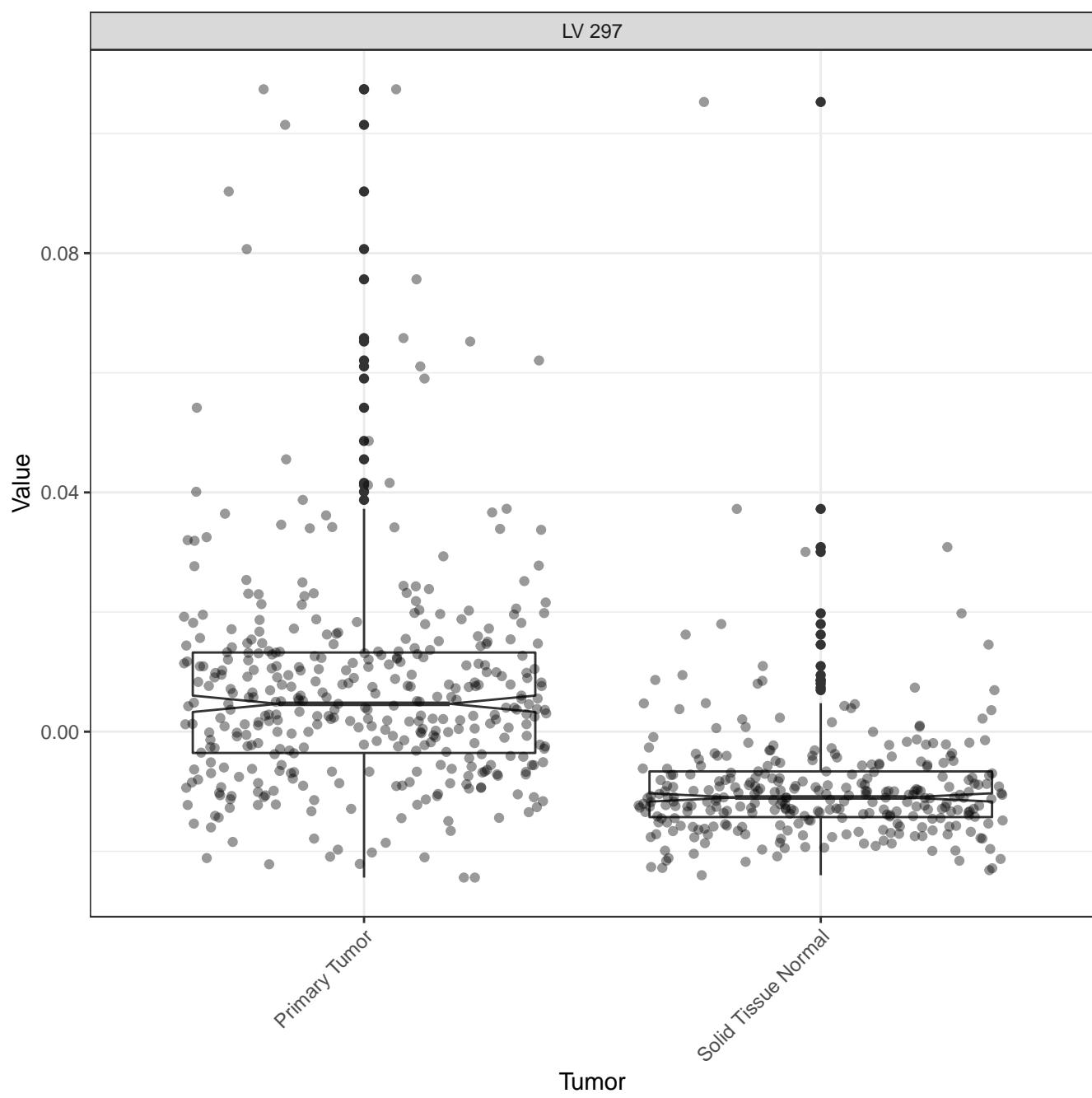
0.00

Primary Tumor

Solid Tissue Normal

Tumor





Value

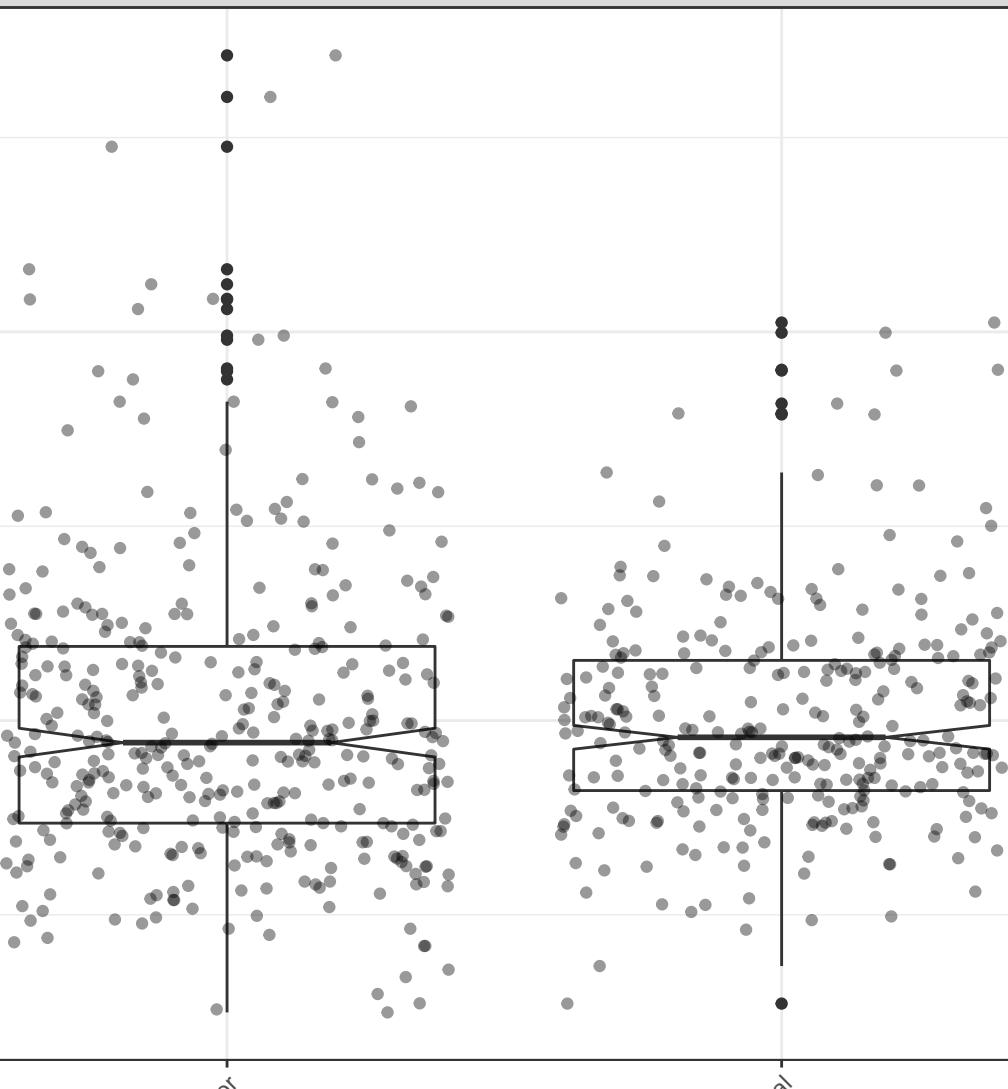
0.05

0.00

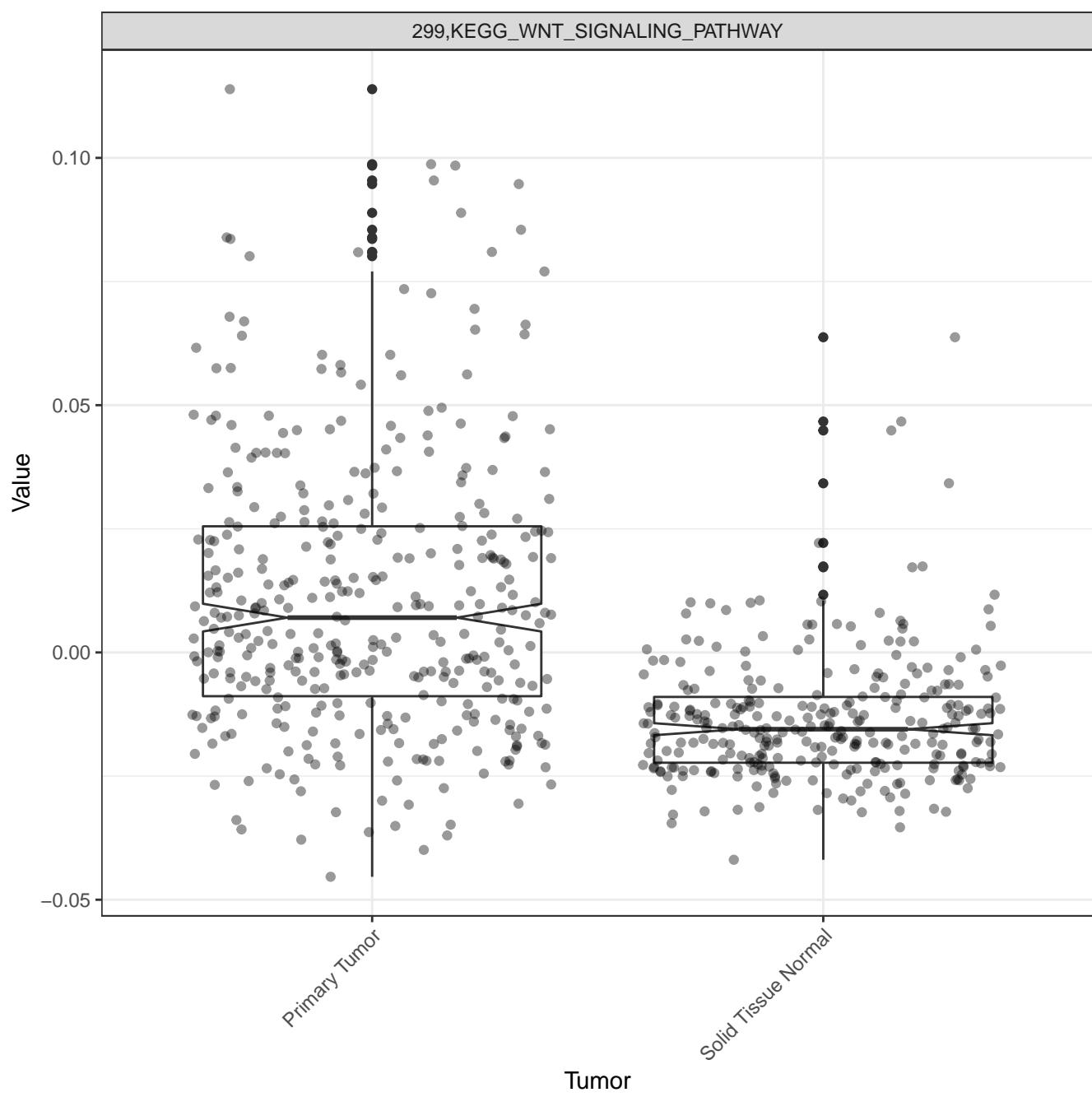
Primary Tumor

Solid Tissue Normal

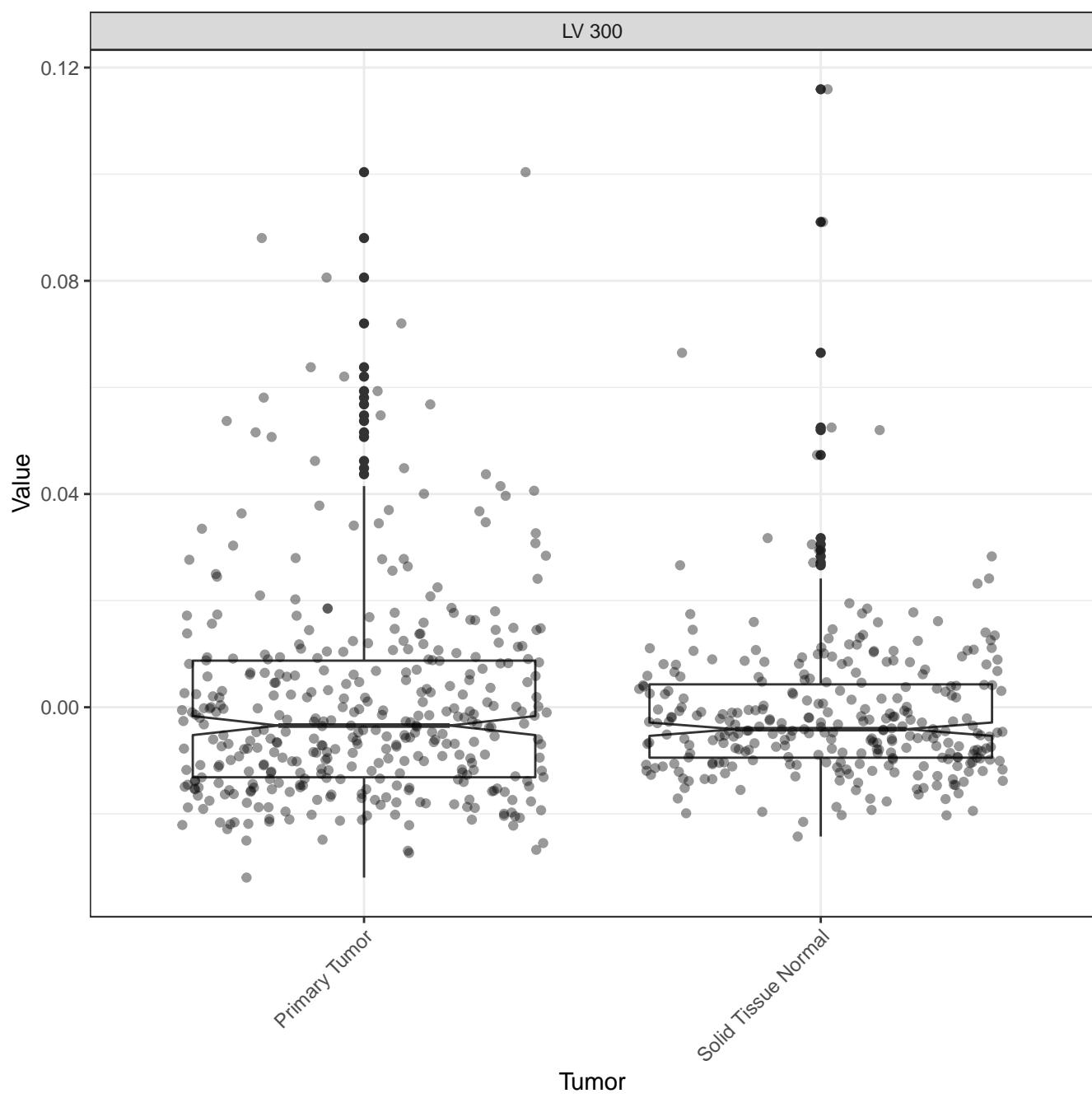
Tumor



### 299,KEGG\_WNT\_SIGNALING\_PATHWAY



LV 300



LV 301

Value

0.20

0.15

0.10

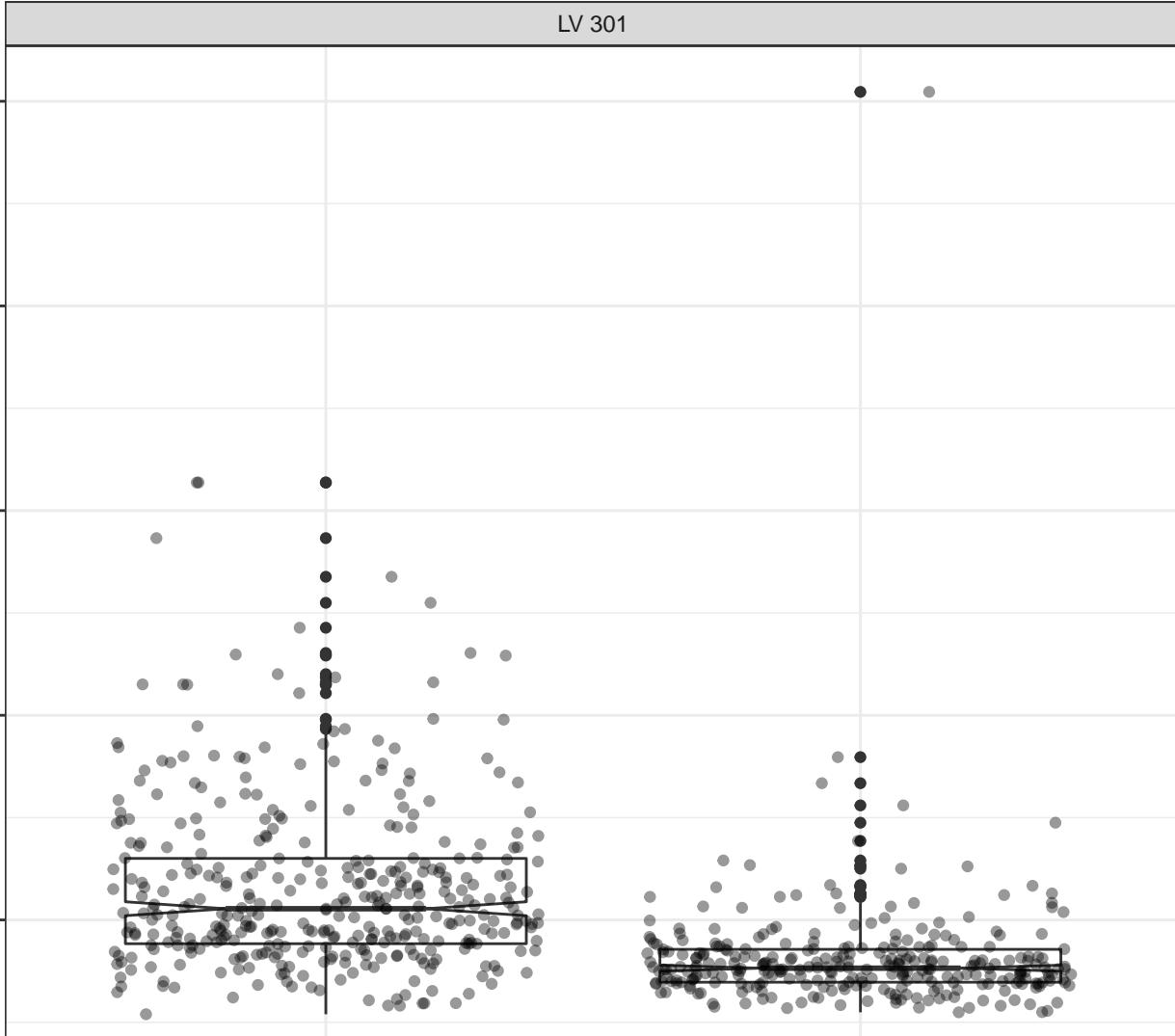
0.05

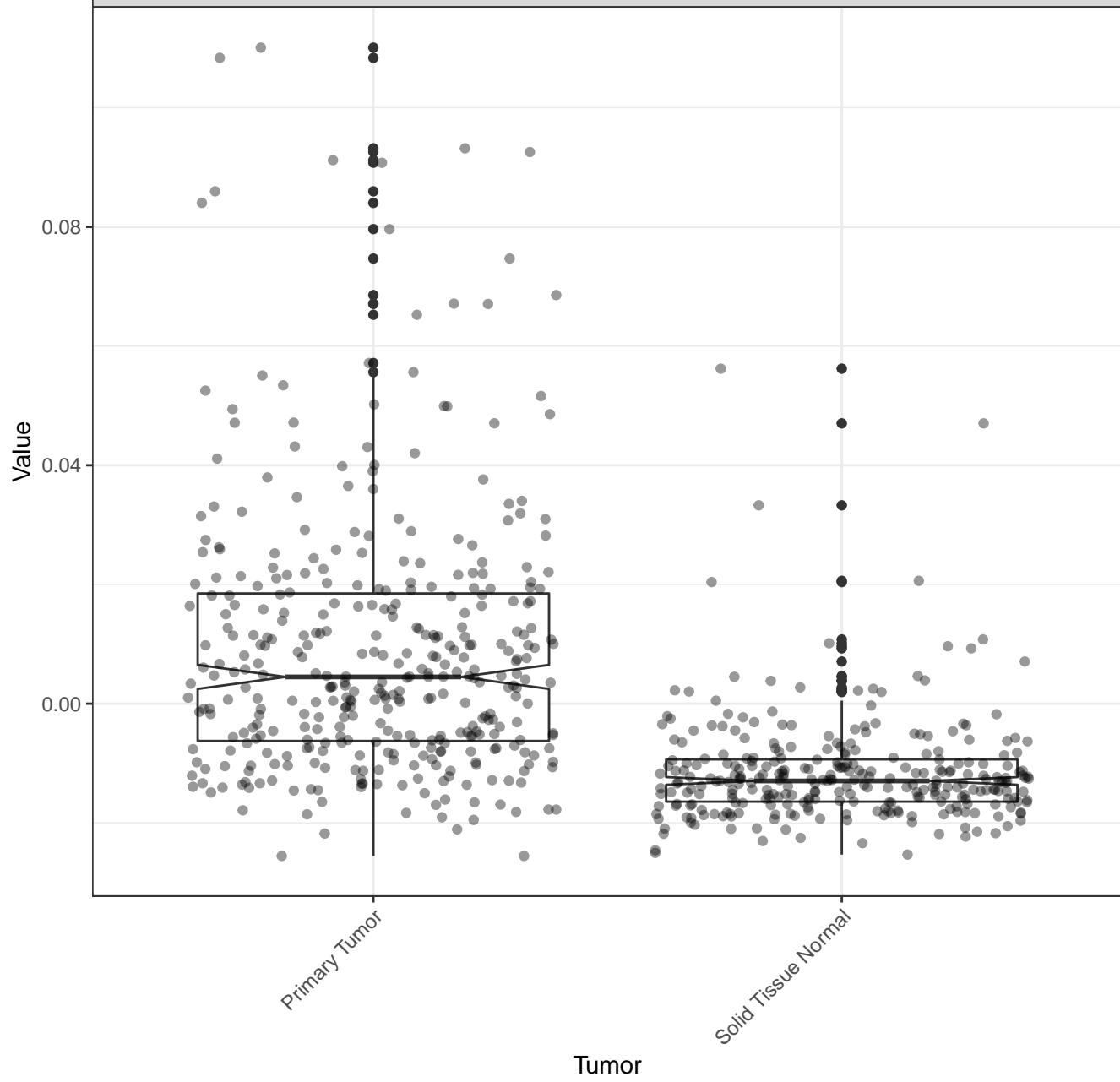
0.00

Primary Tumor

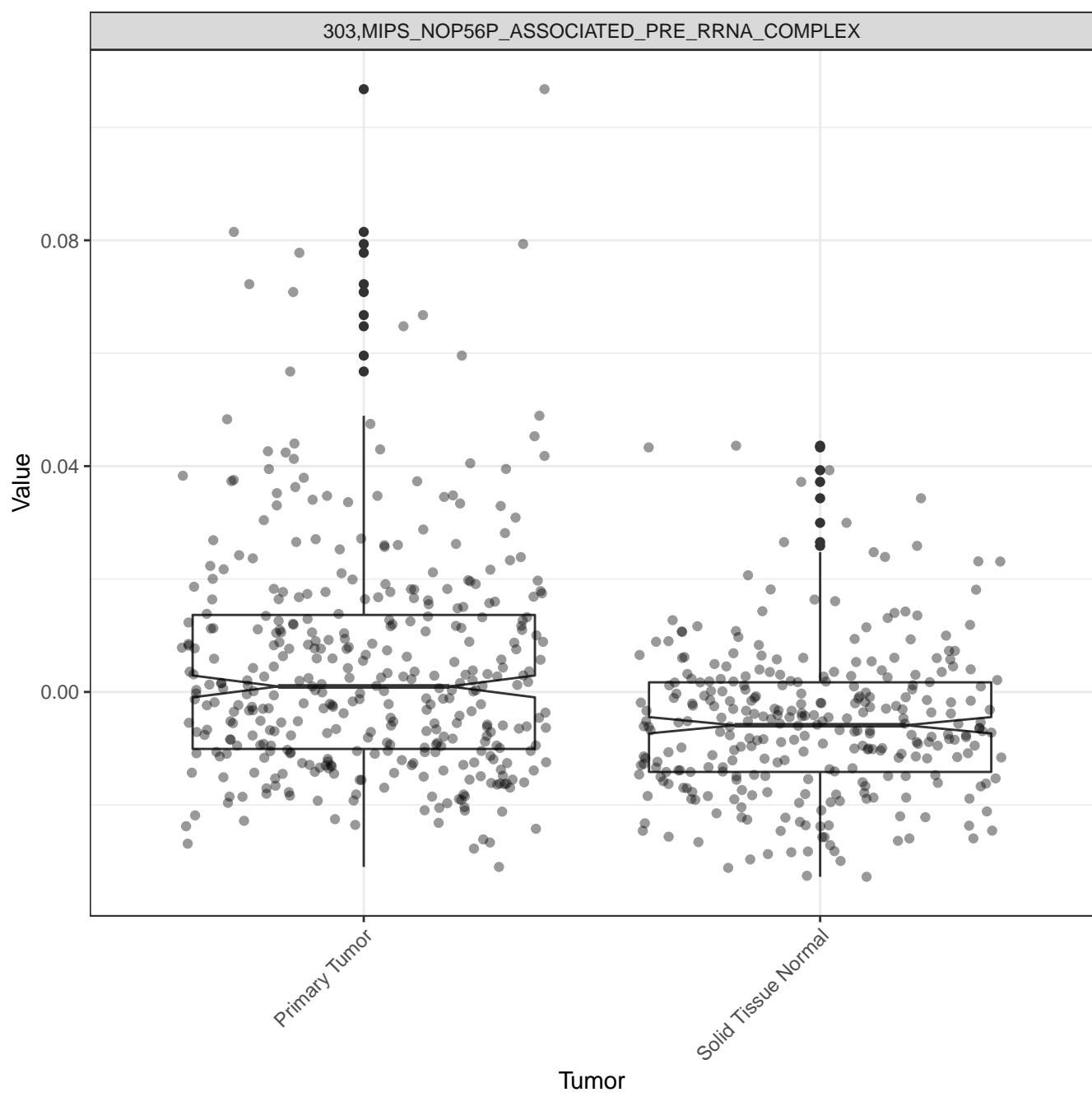
Solid Tissue Normal

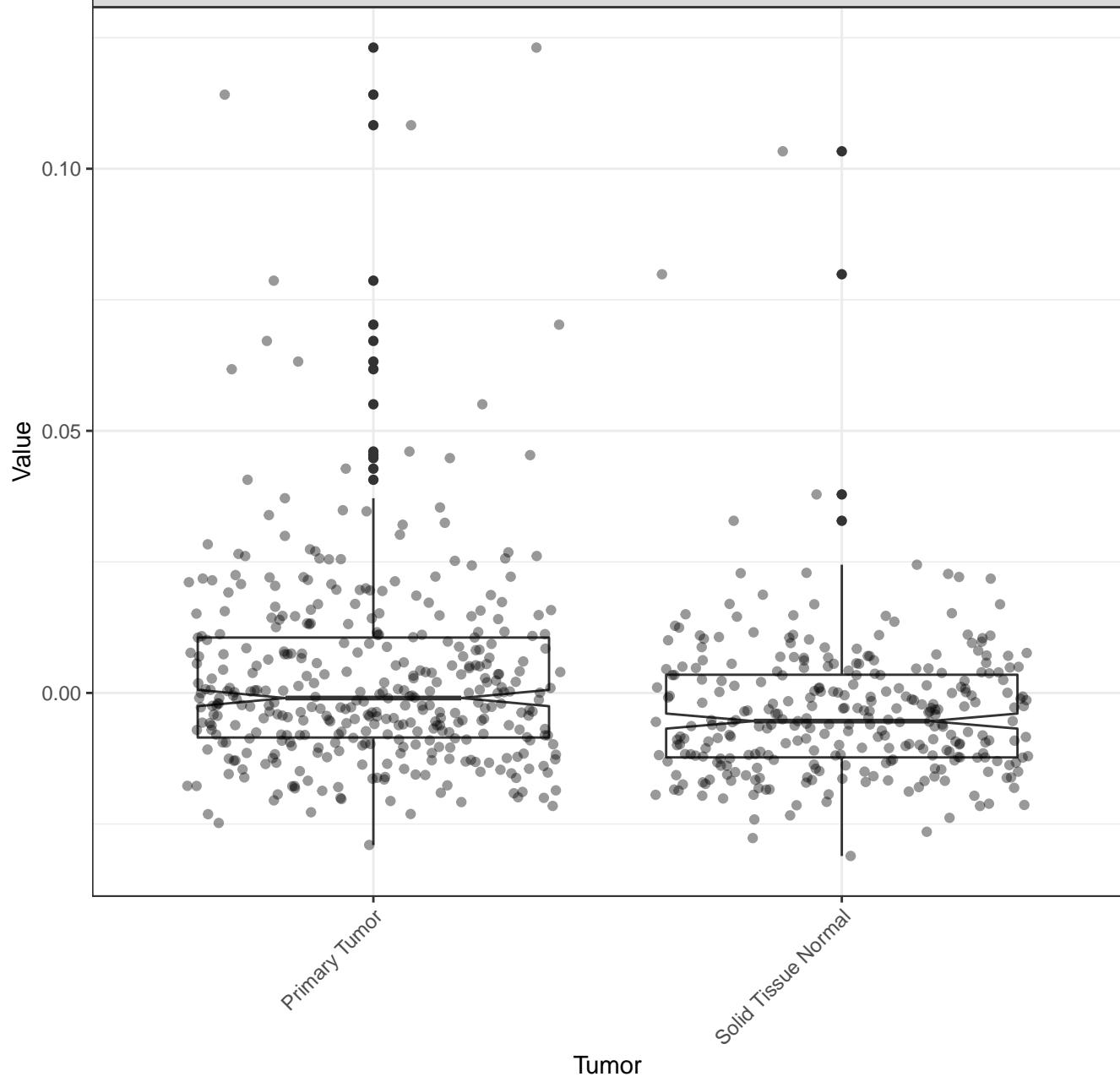
Tumor





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





LV 305

Value

0.10

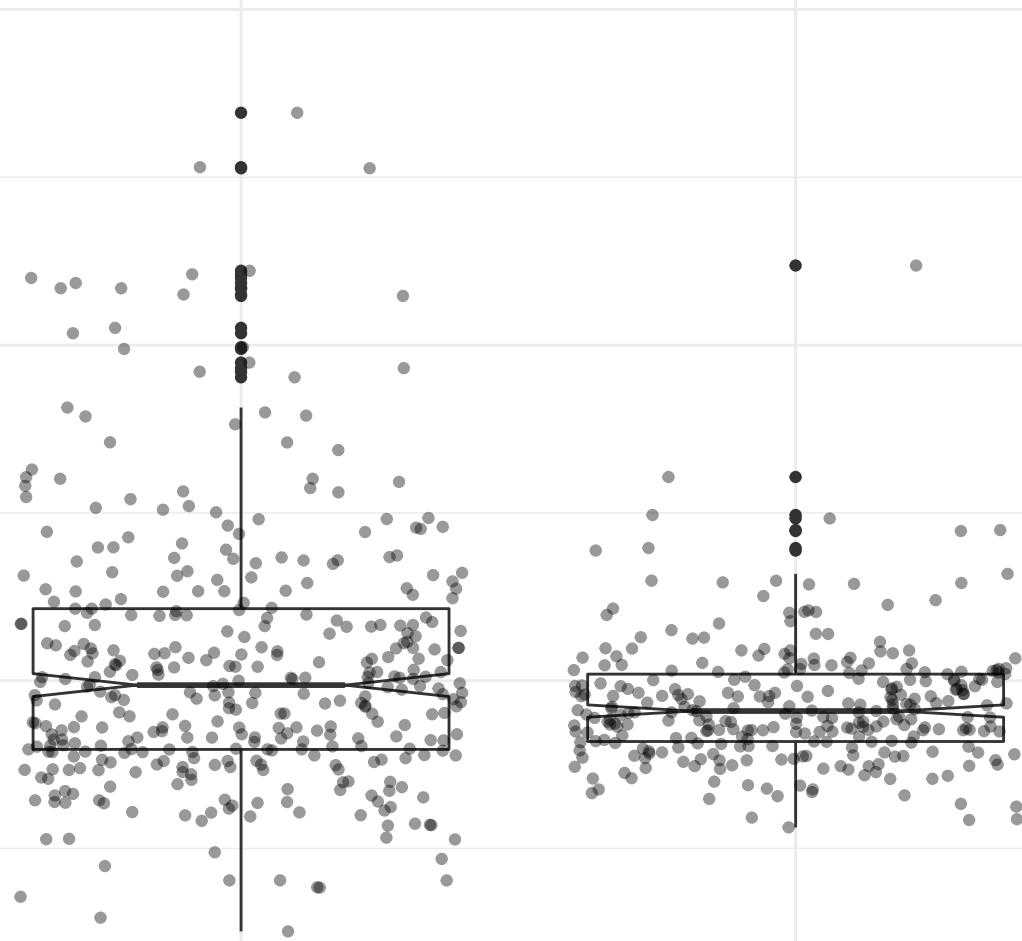
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



Value

0.10

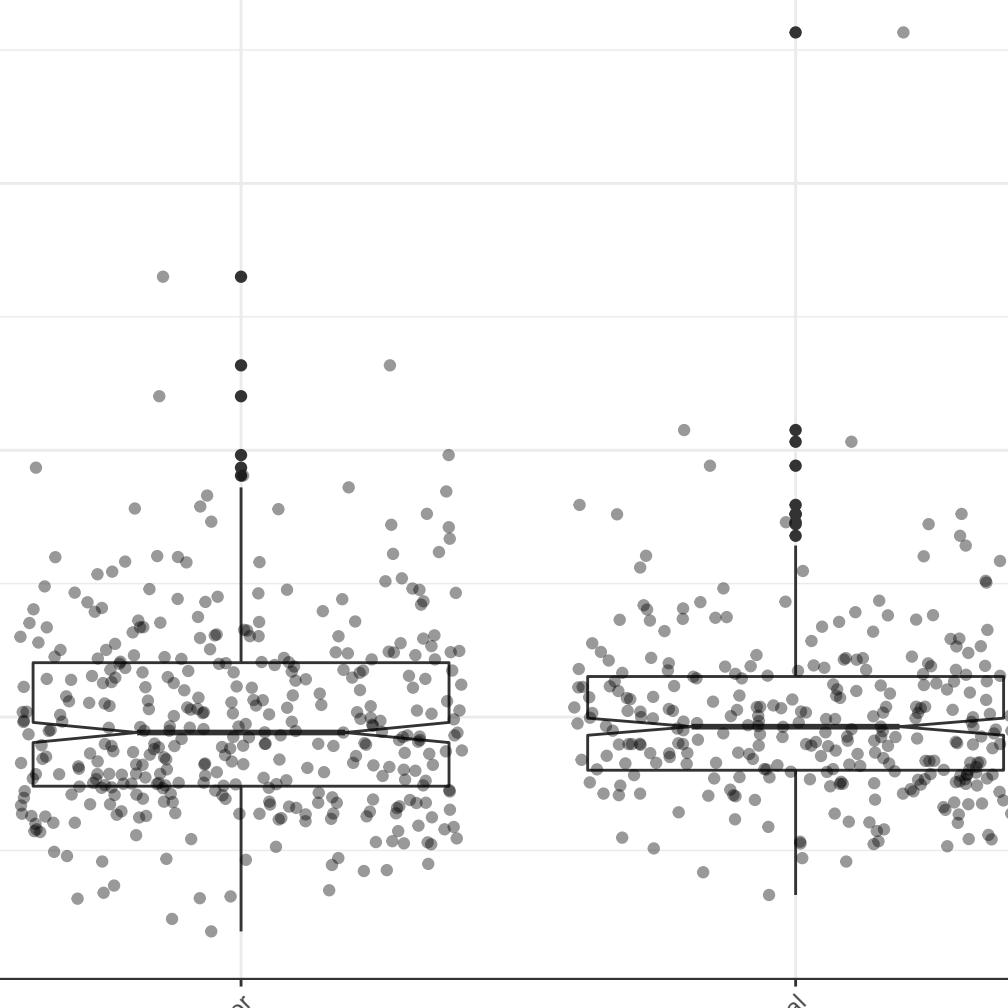
0.05

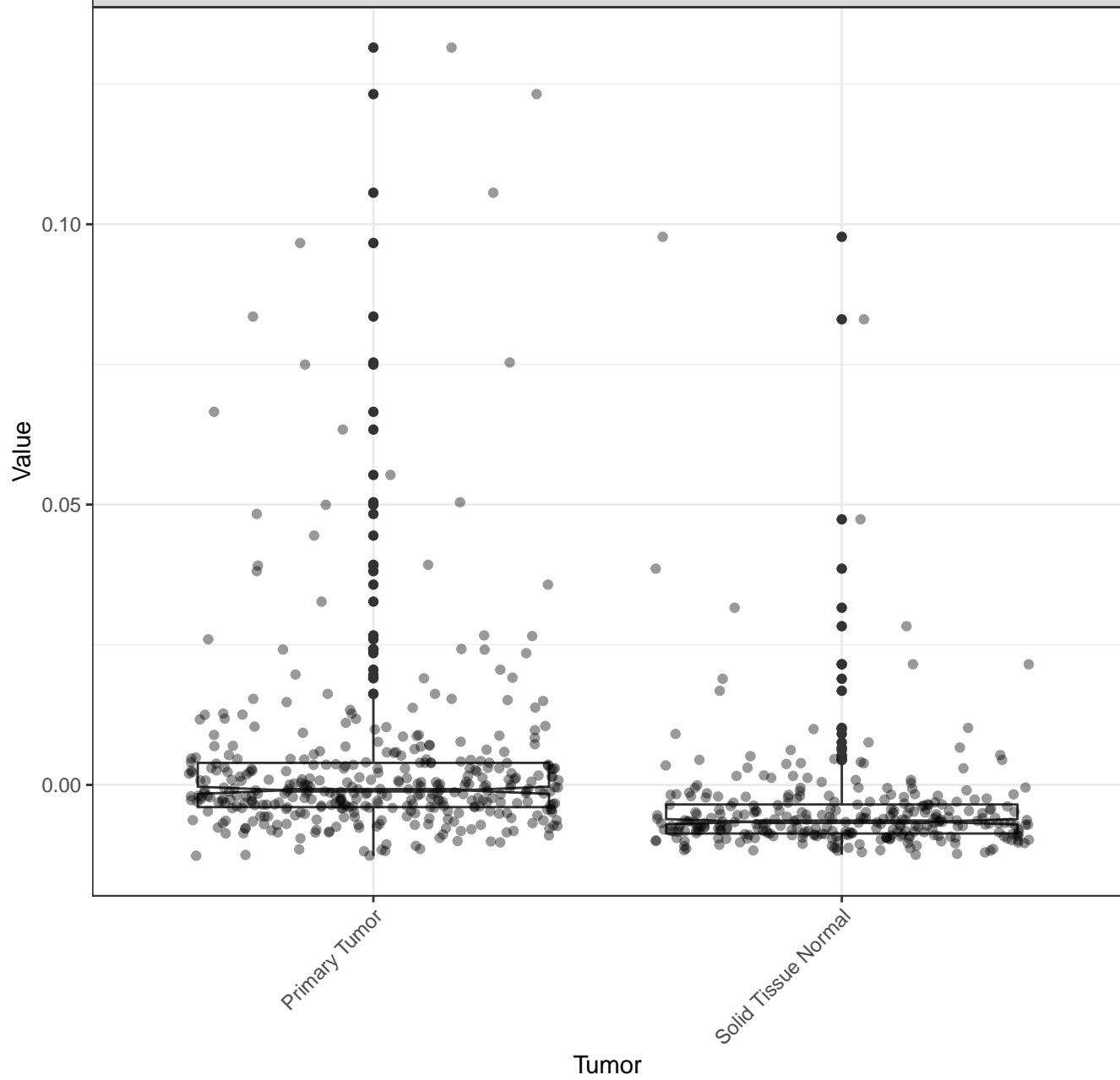
0.00

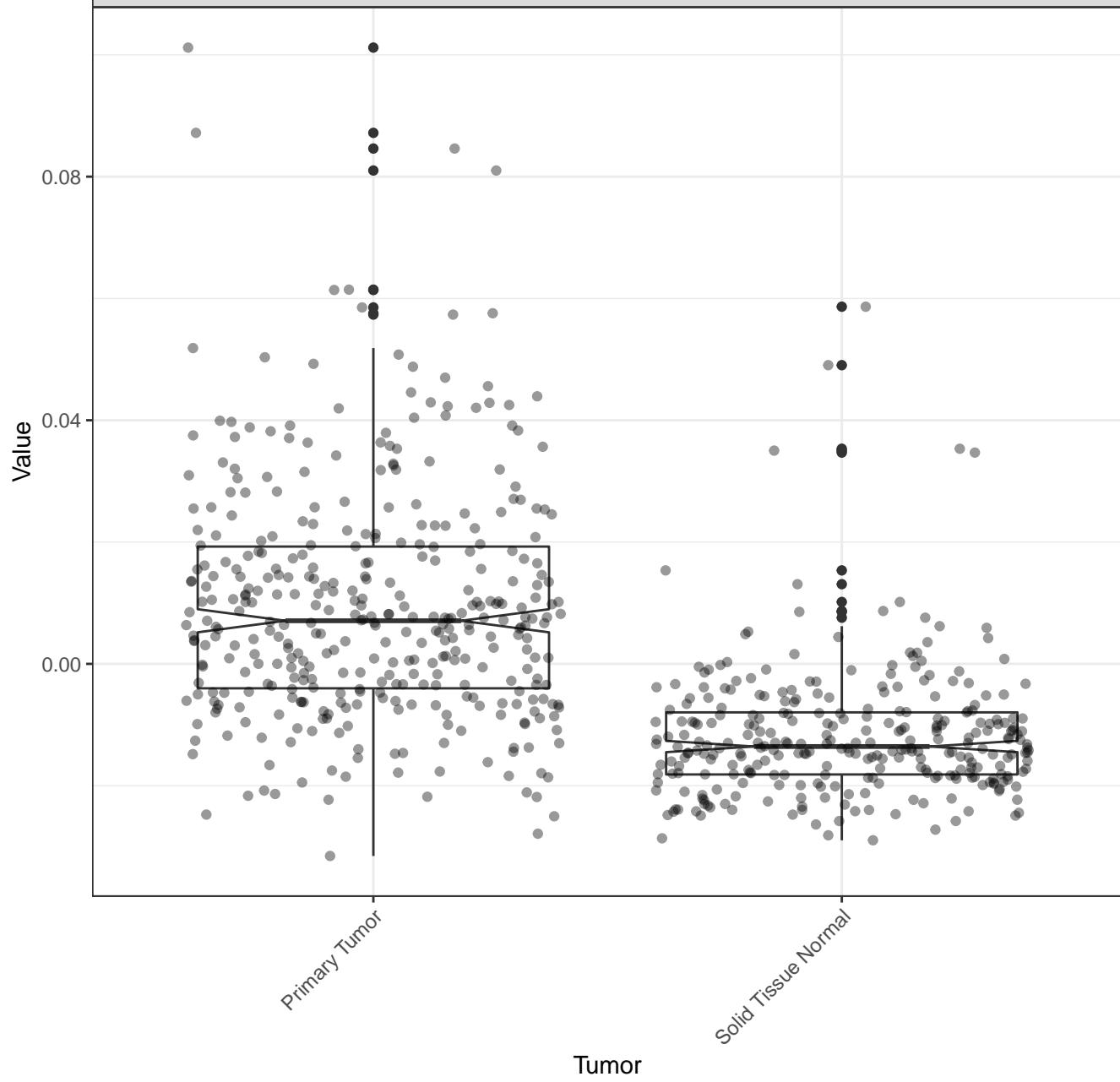
Primary Tumor

Solid Tissue Normal

Tumor







## 309,REACTOME\_IMMUNE\_SYSTEM

Value

0.20

0.15

0.10

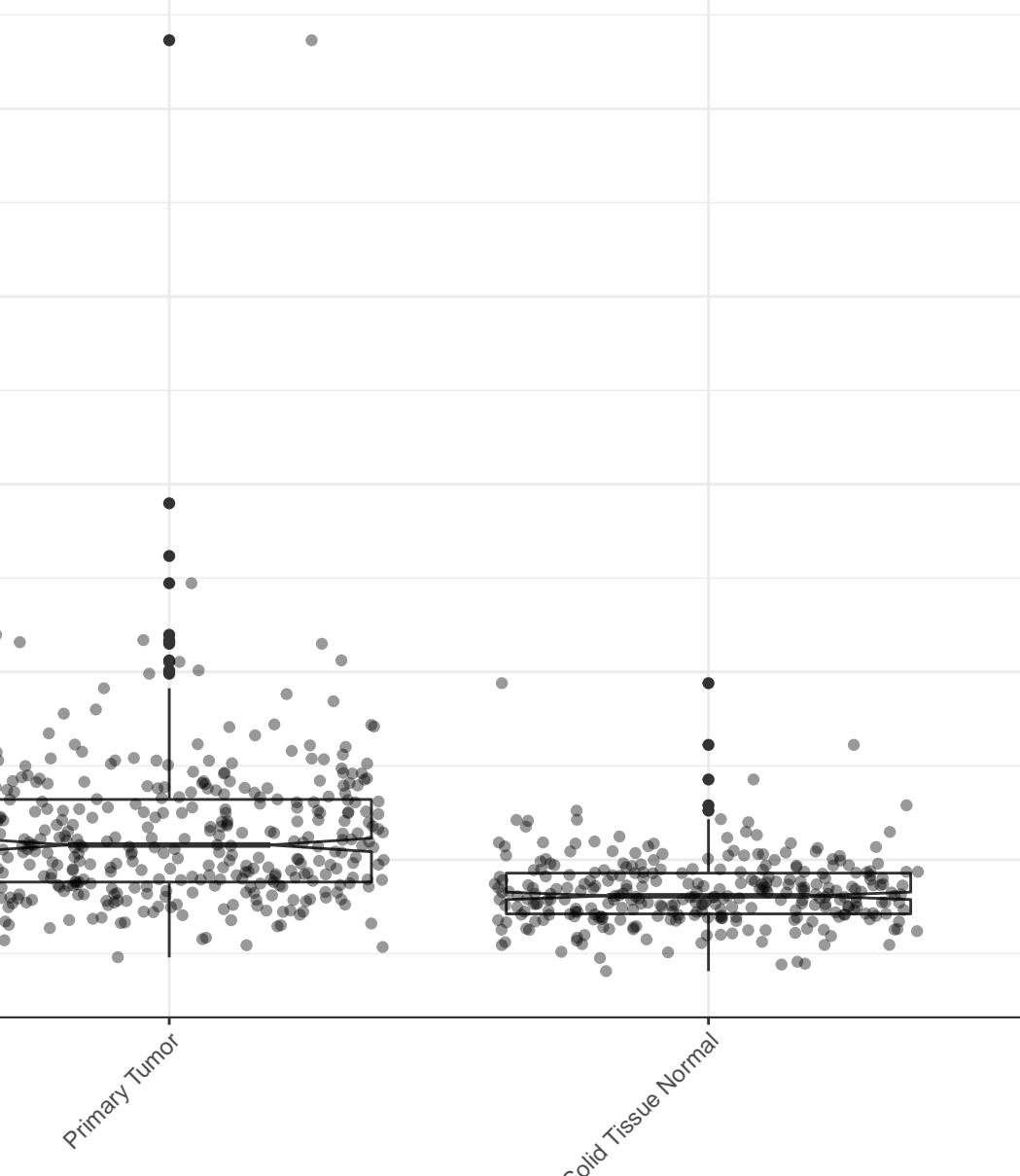
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



## 310,REACTOME\_DNA\_STRAND\_ELONGATION

Value

0.3

0.2

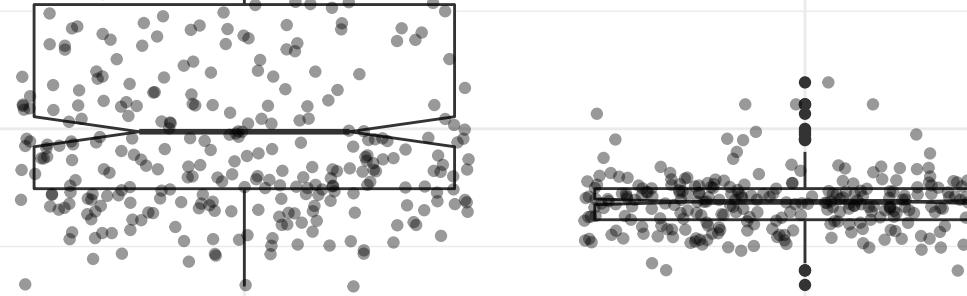
0.1

0.0

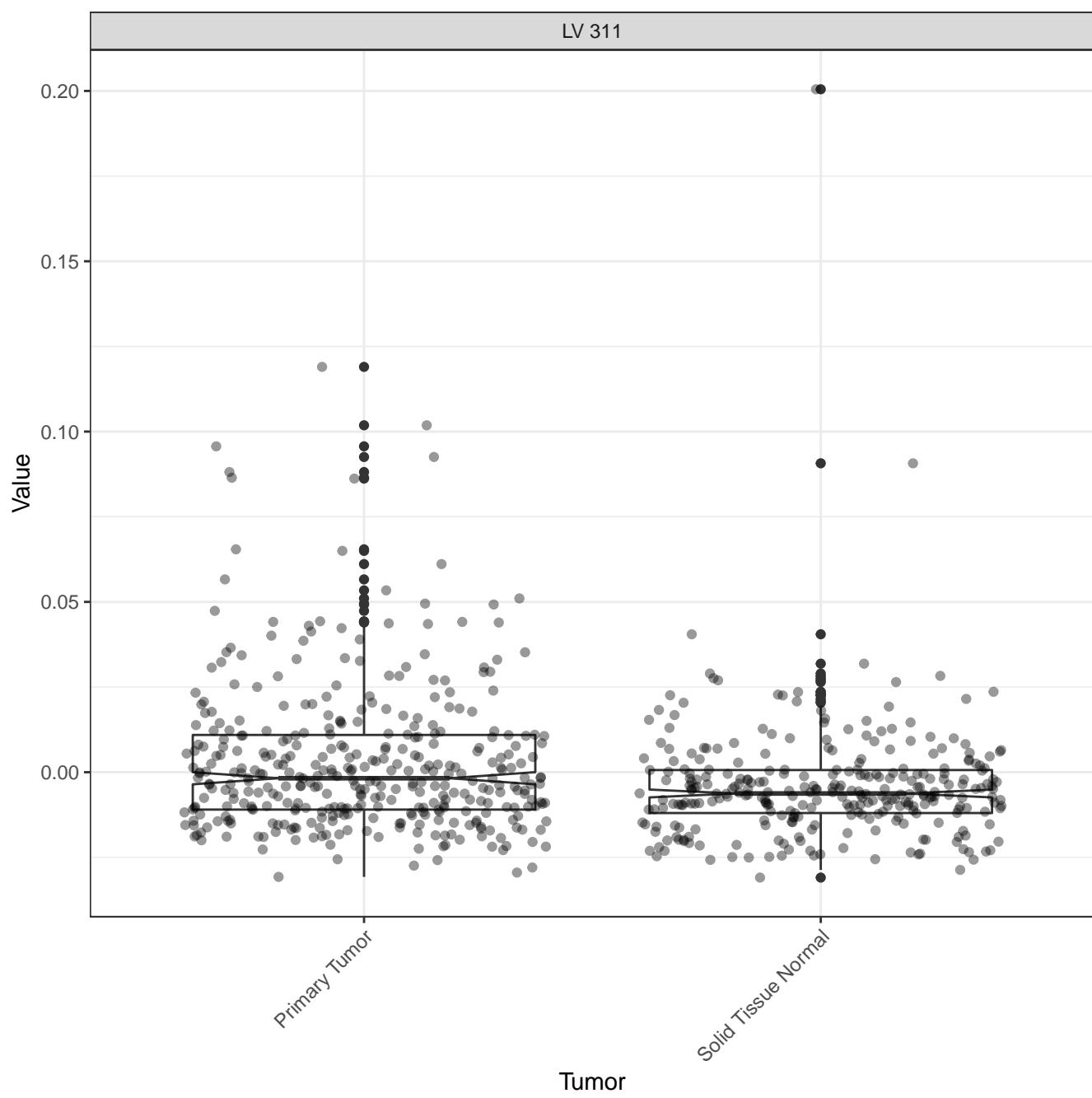
Primary Tumor

Solid Tissue Normal

Tumor

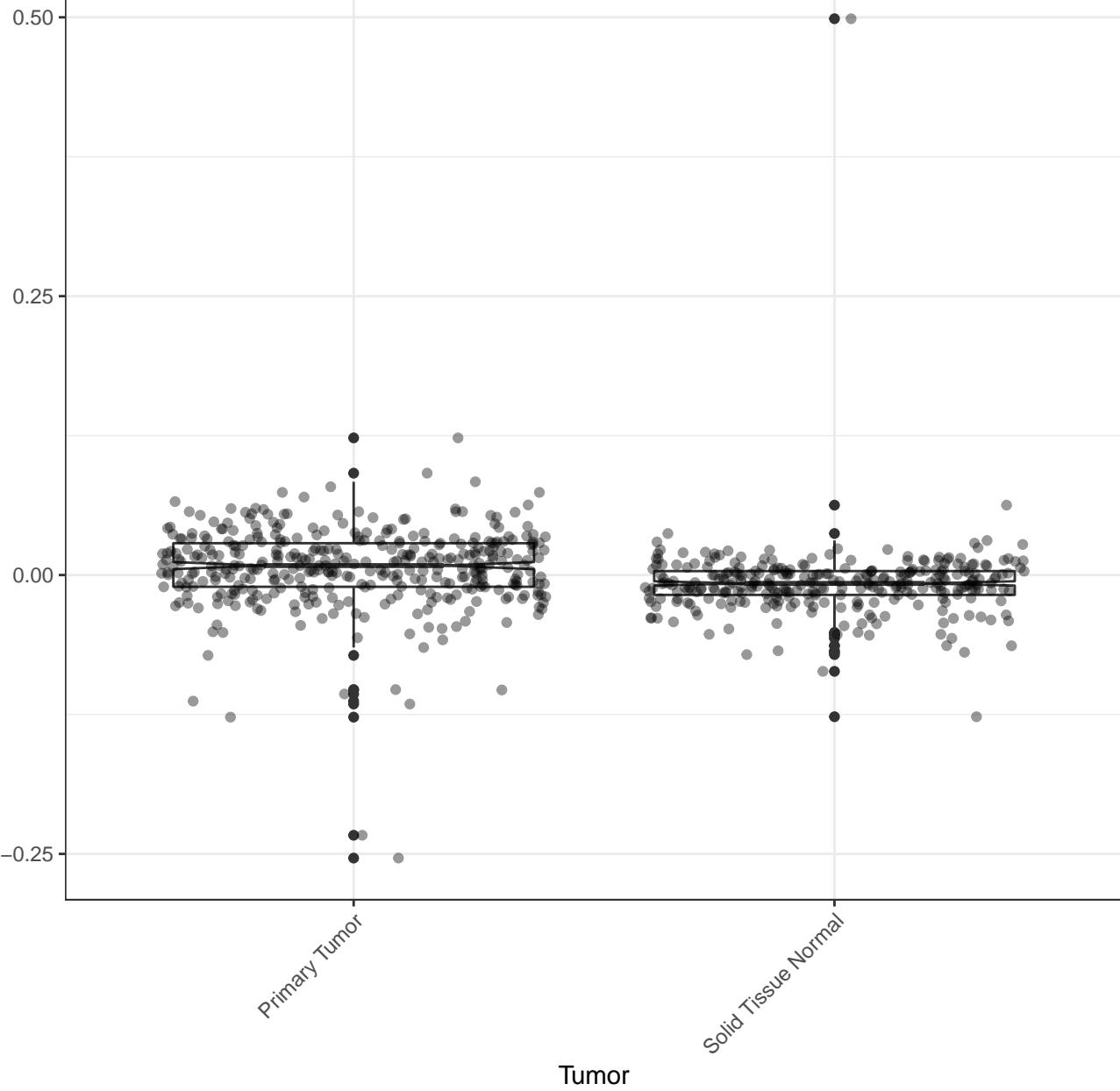


LV 311

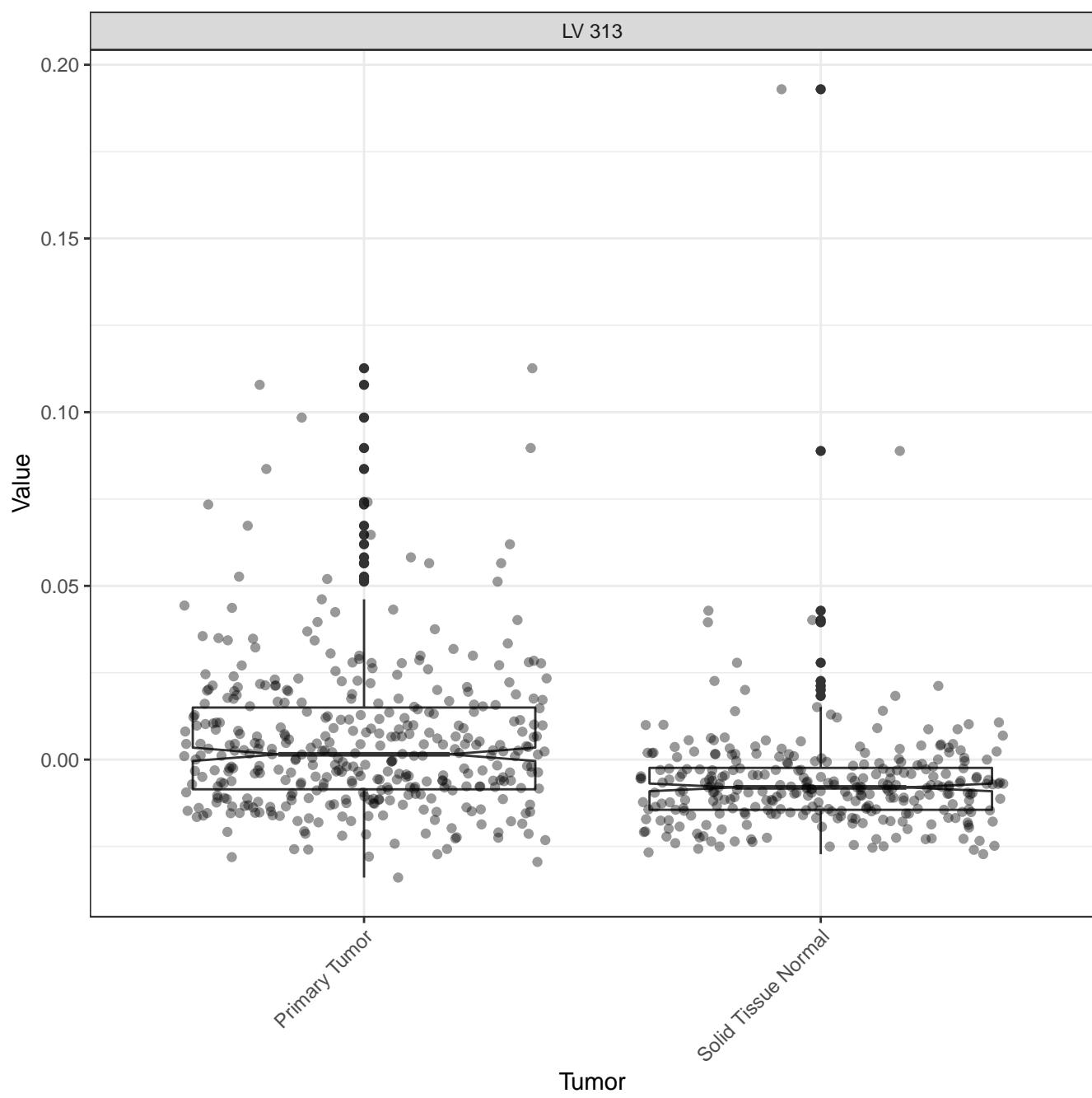


312,REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

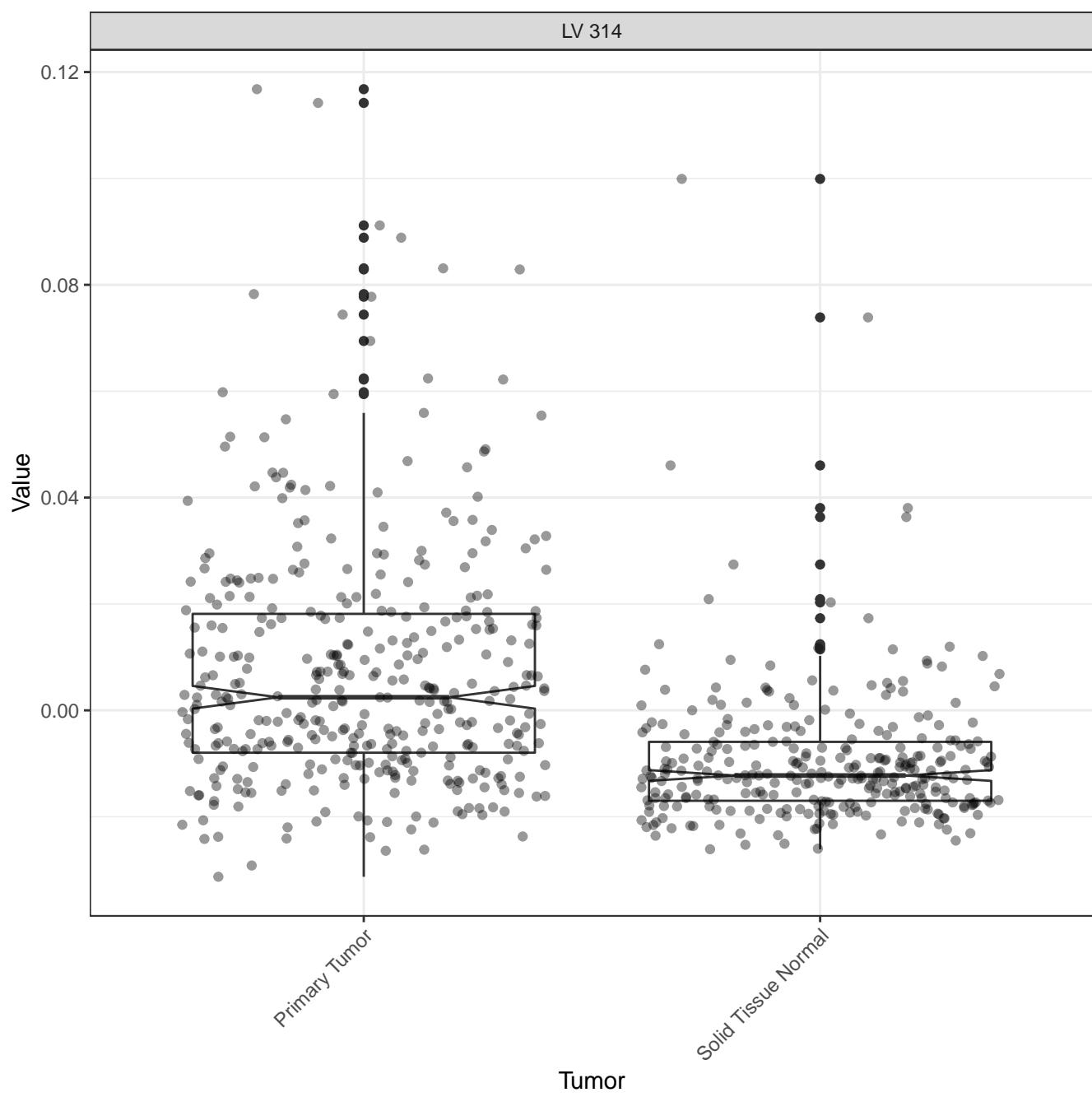
Value



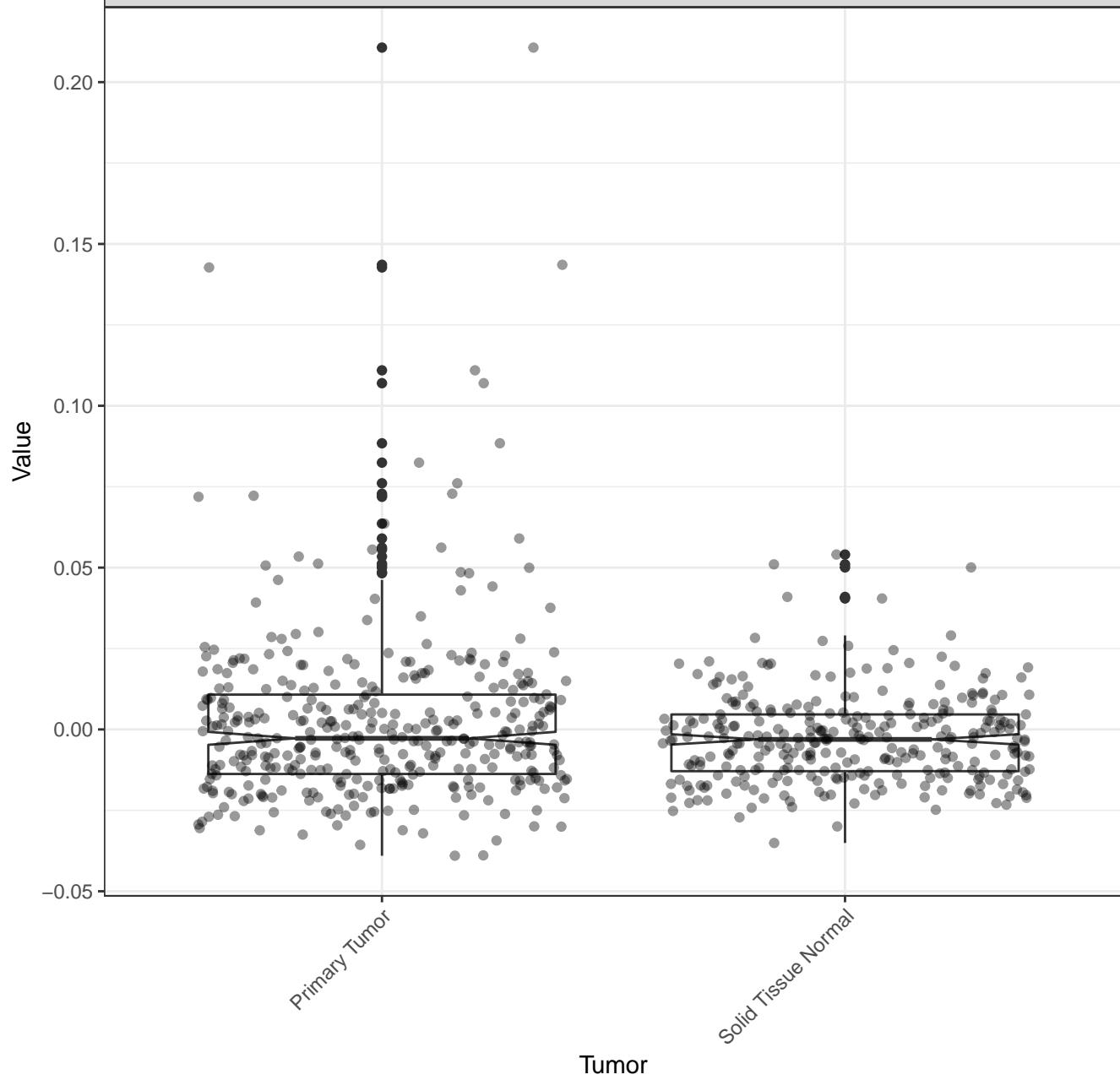
LV 313



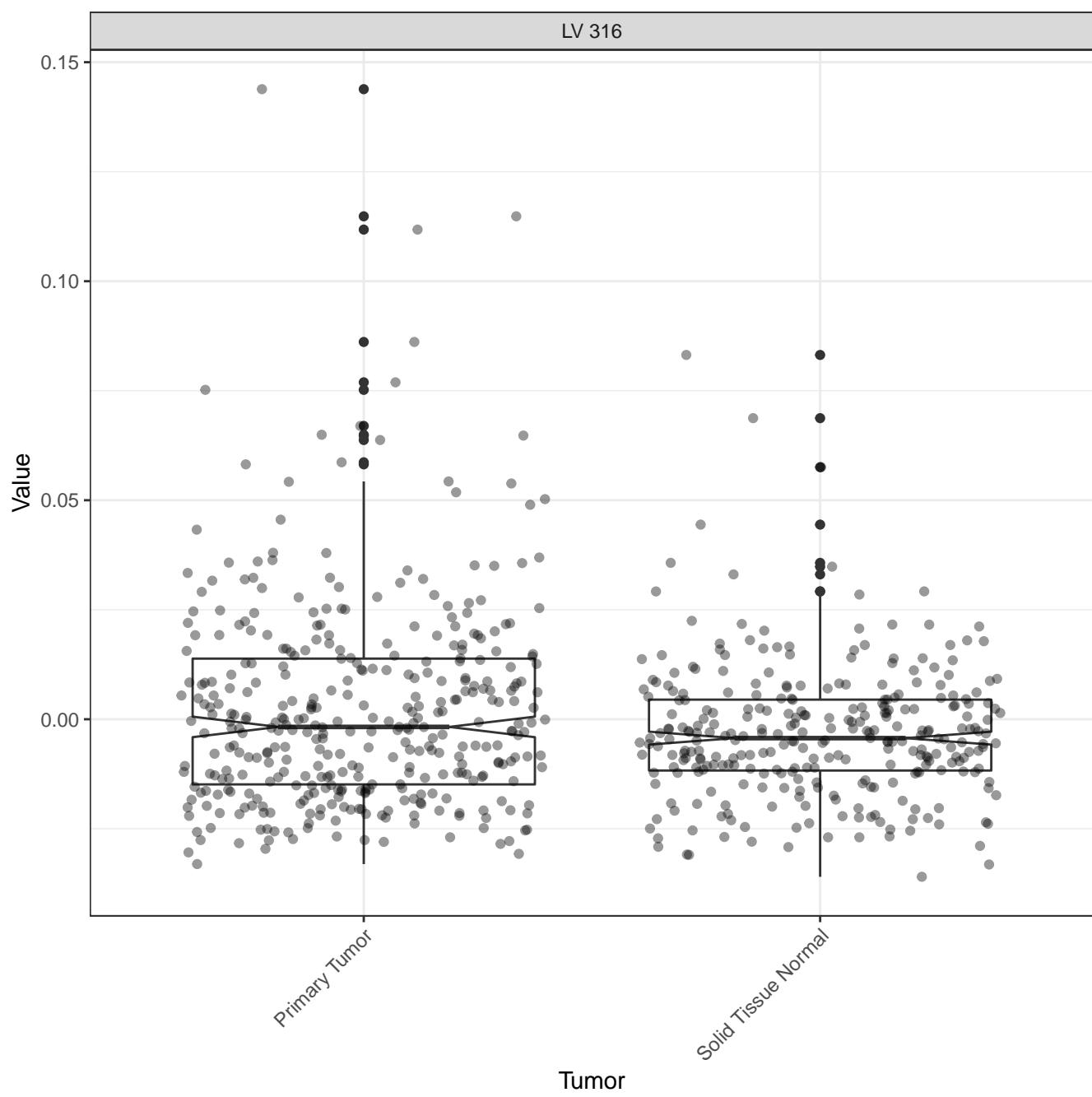
LV 314



## 315,DMAP\_DENDA1



LV 316



Value

0.10

0.05

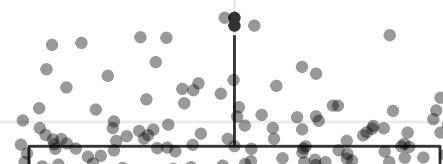
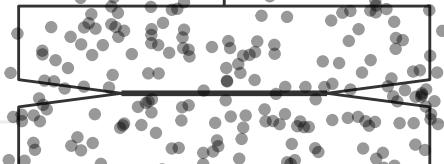
0.00

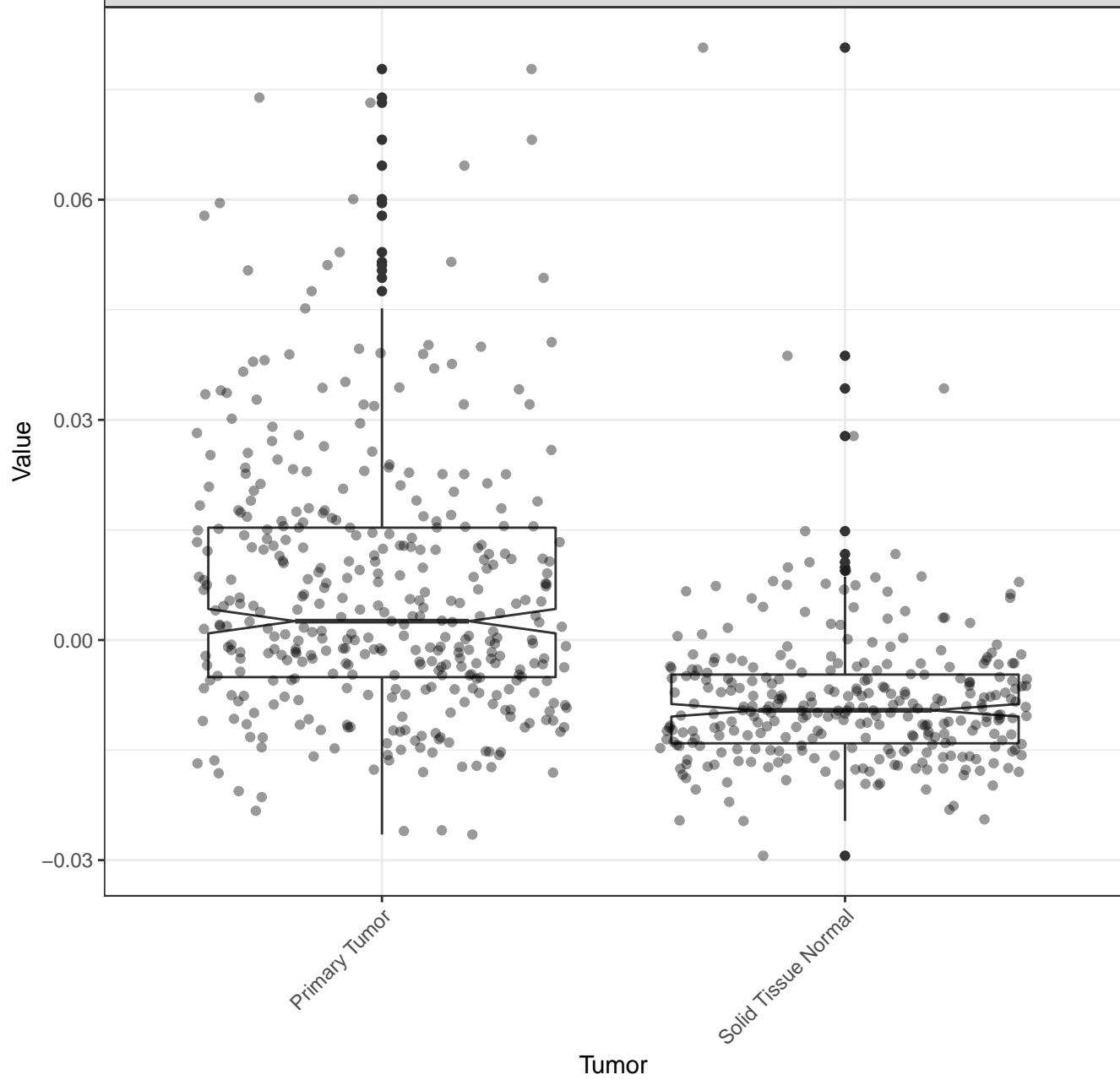
-0.05

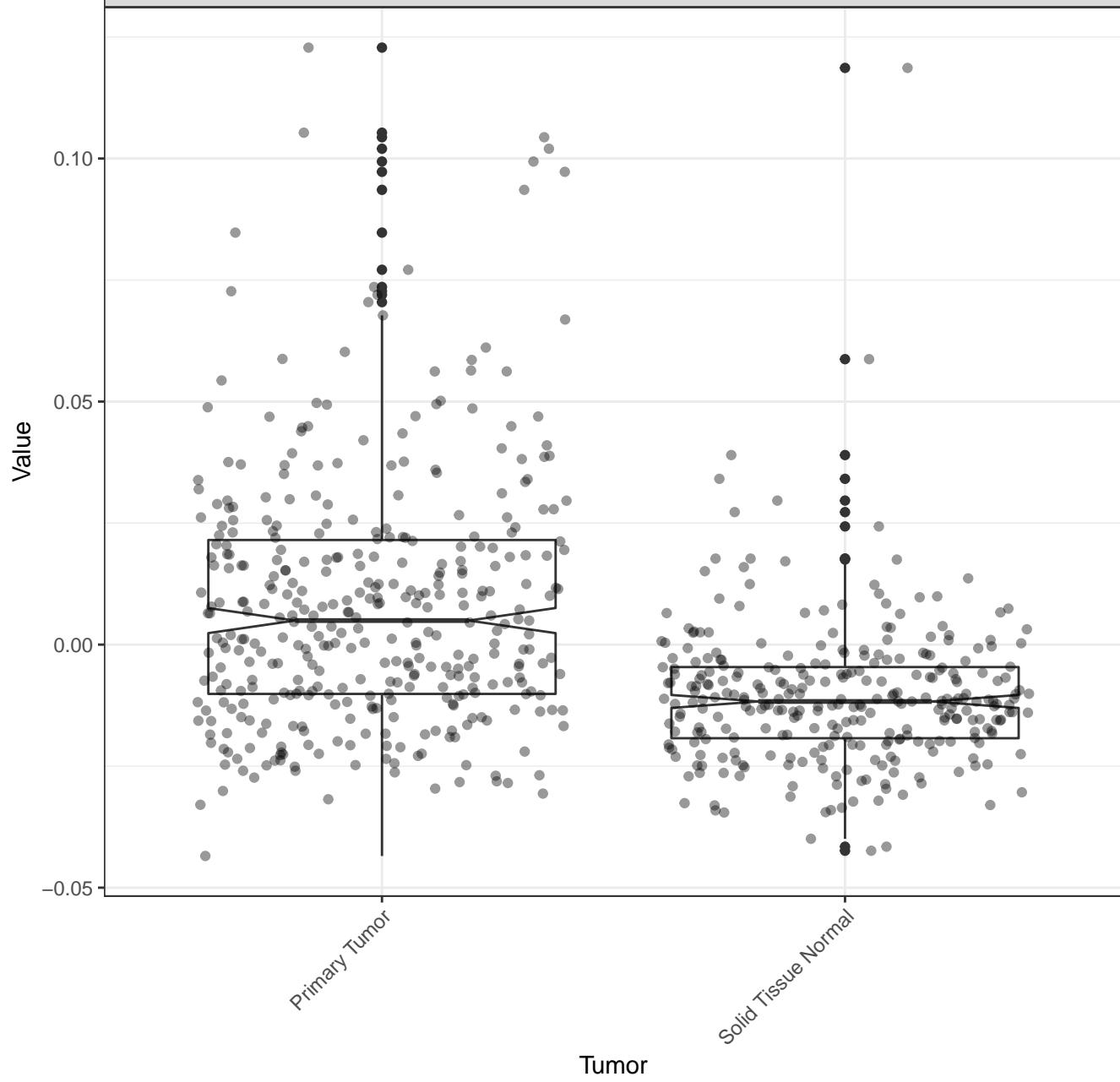
Primary Tumor

Solid Tissue Normal

Tumor







LV 320

Value

0.10

0.05

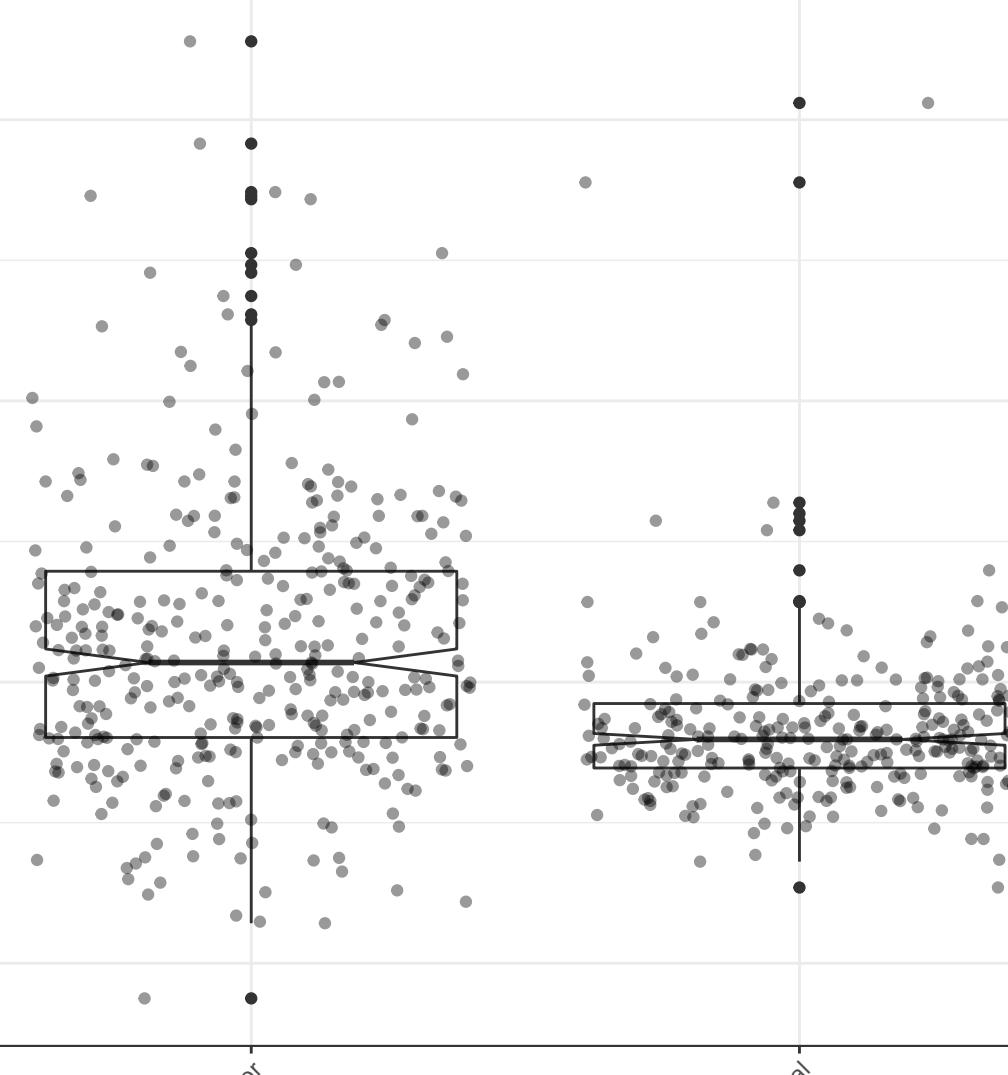
0.00

-0.05

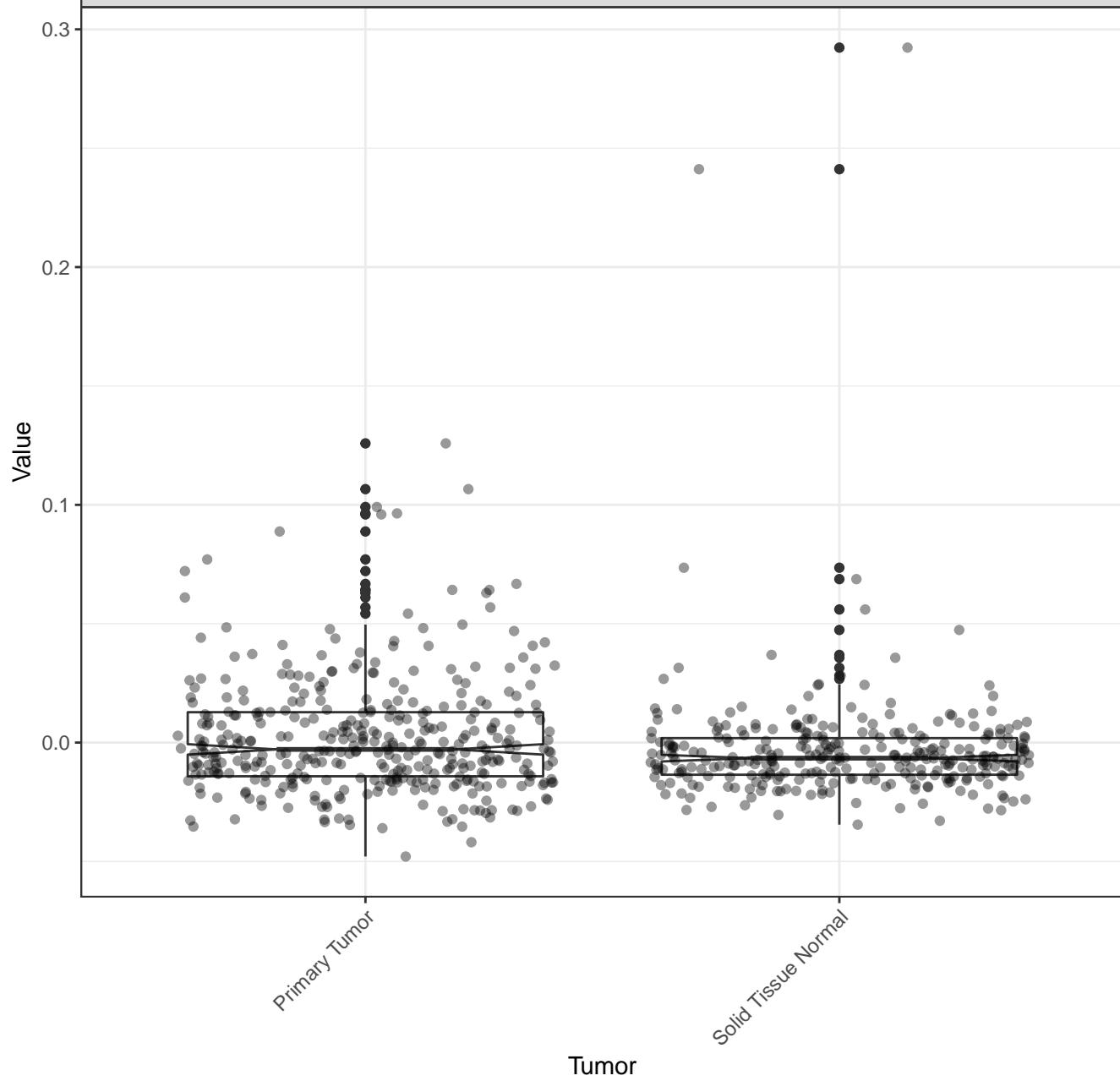
Primary Tumor

Solid Tissue Normal

Tumor

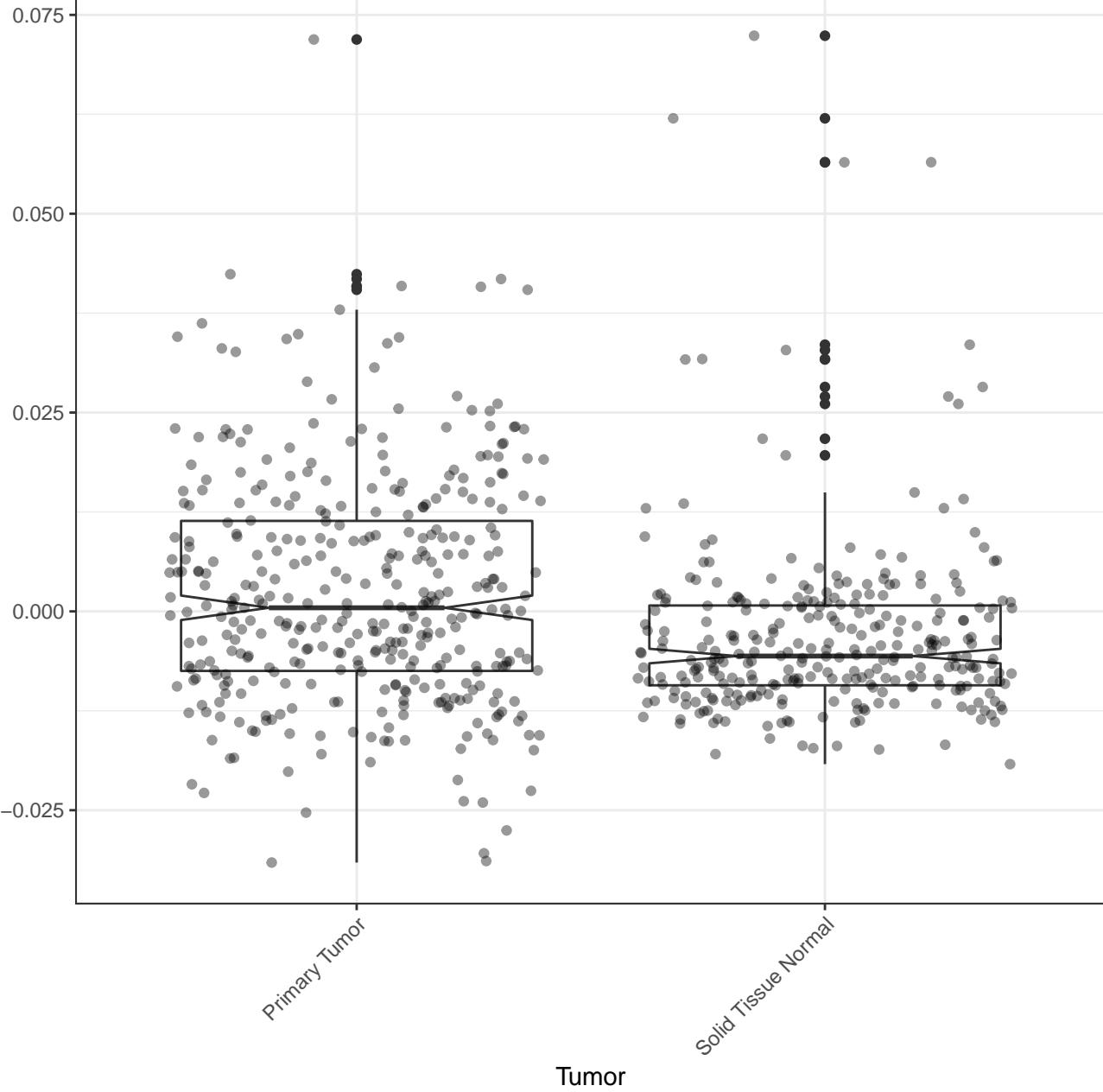


### 321,KEGG\_VASCULAR\_SMOOTH\_MUSCLE\_CONTRACTION



LV 322

Value



## 323,KEGG\_LYSOSOME

Value

0.050

0.025

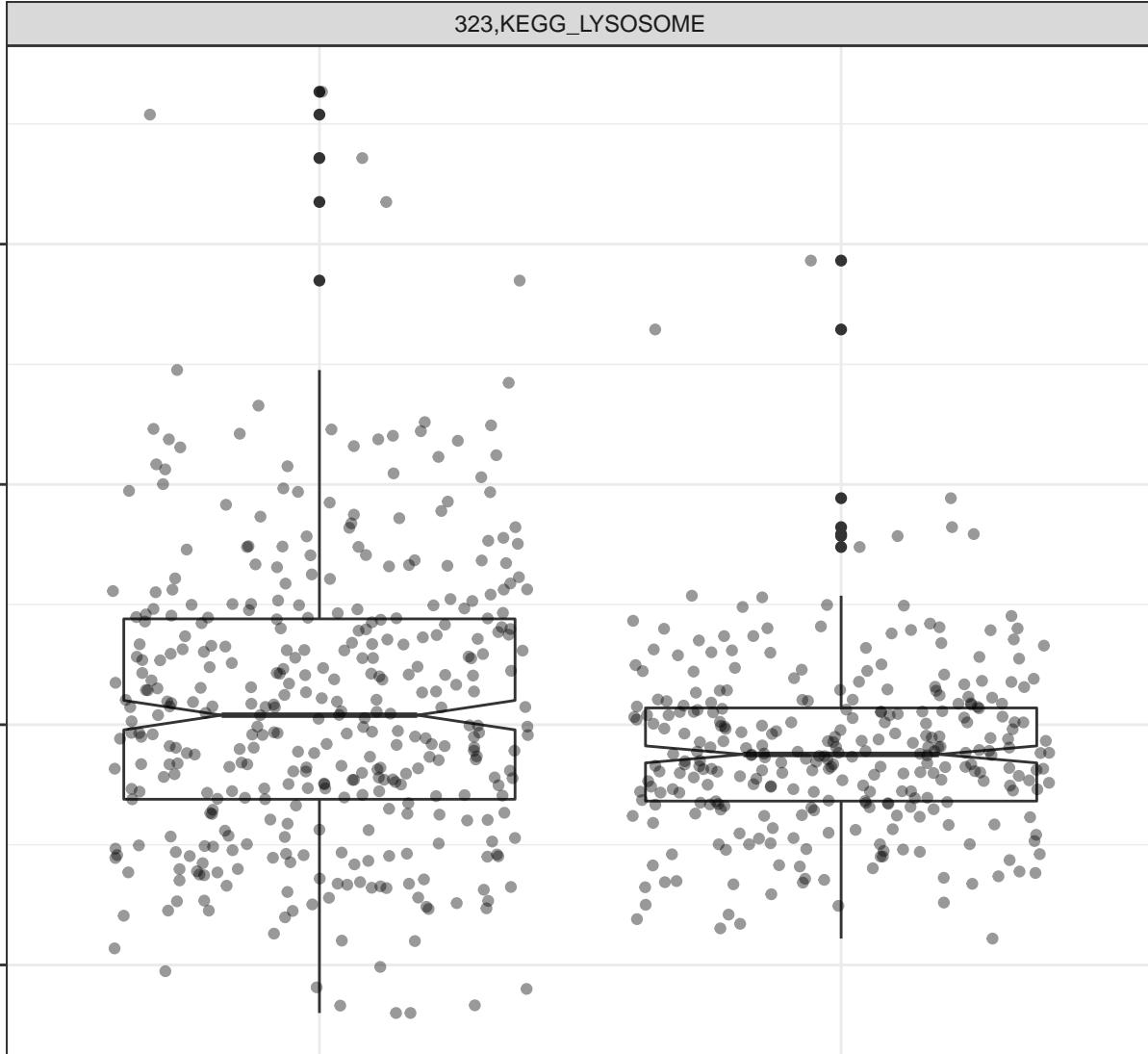
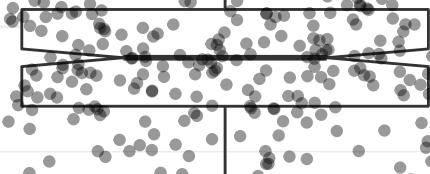
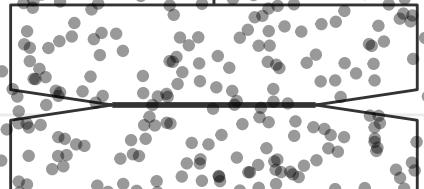
0.000

-0.025

Primary Tumor

Solid Tissue Normal

Tumor



Value

0.08

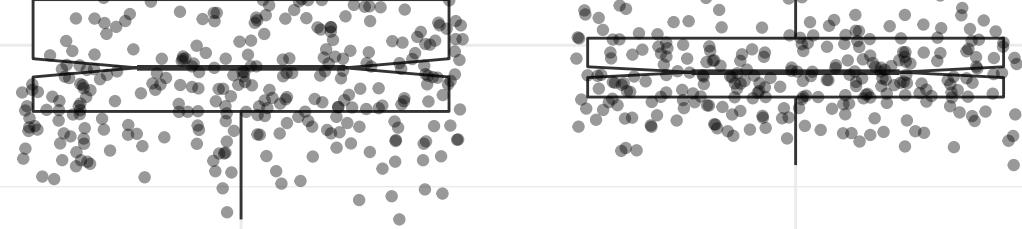
0.04

0.00

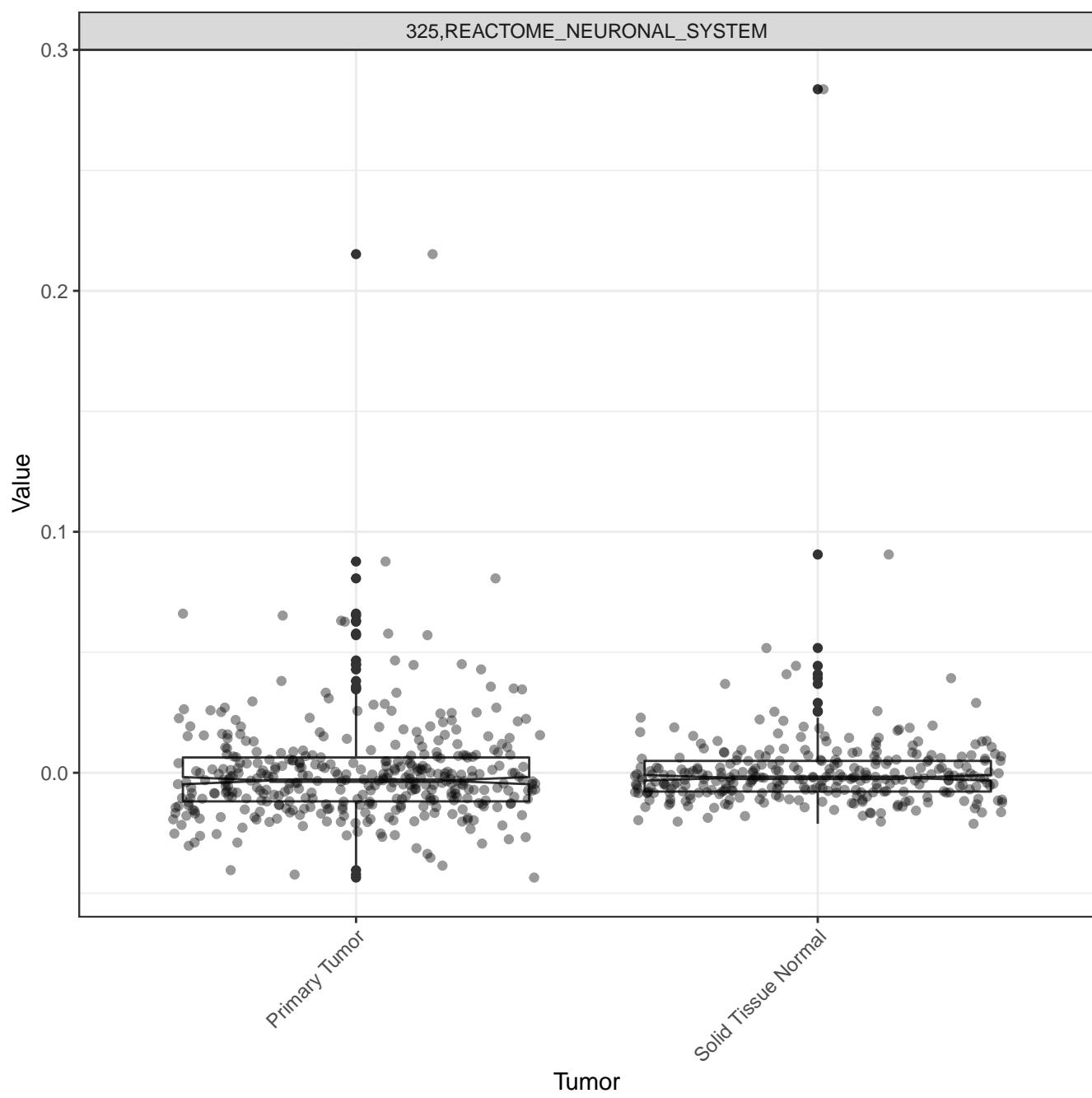
Primary Tumor

Solid Tissue Normal

Tumor



325,REACTOME\_NEURONAL\_SYSTEM



LV 326

Value

0.10

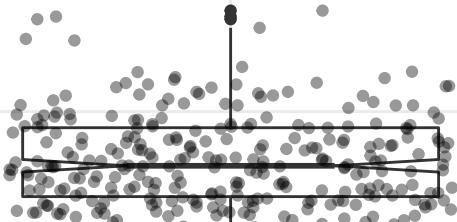
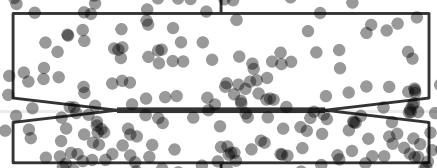
0.05

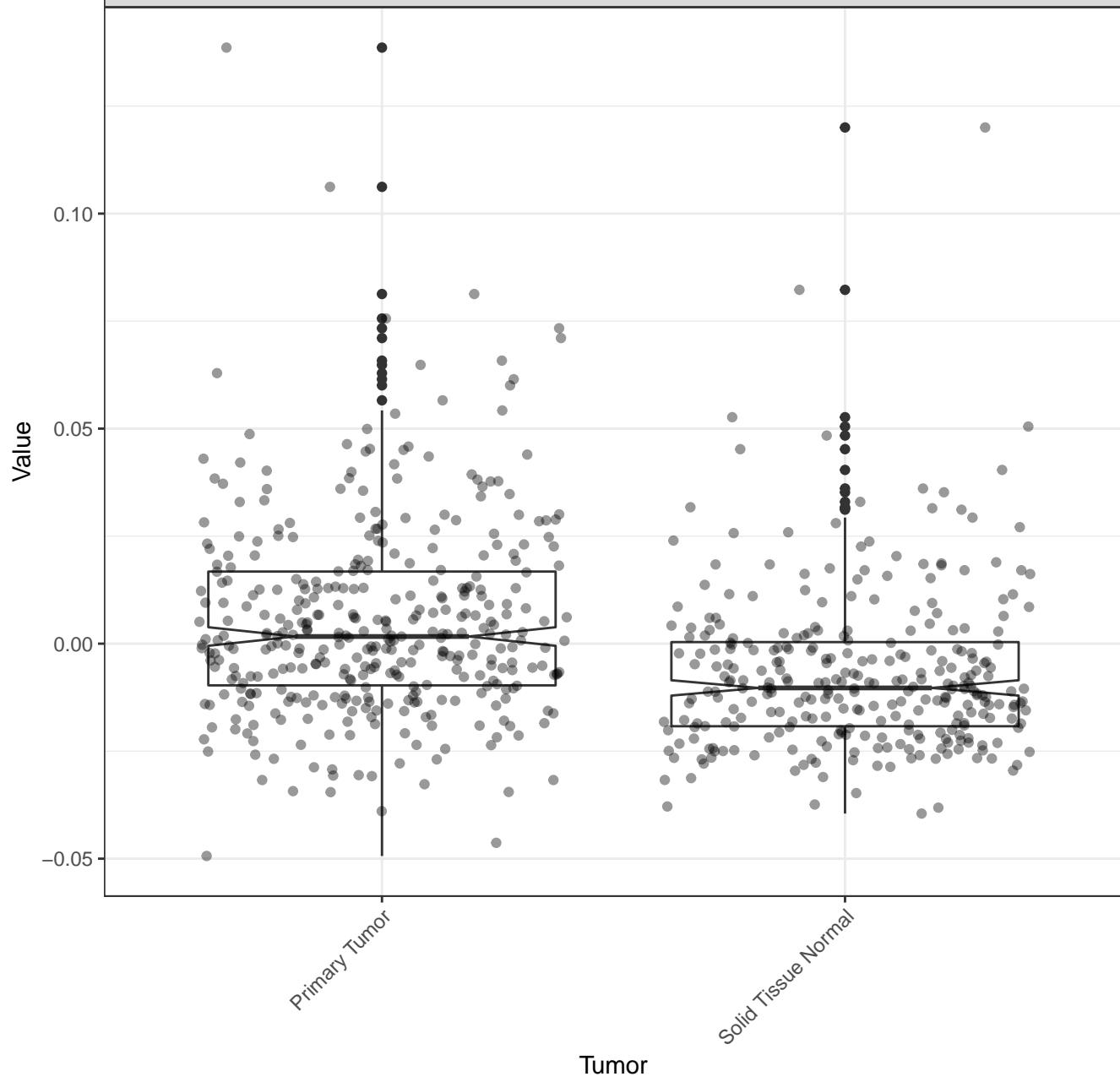
0.00

Primary Tumor

Solid Tissue Normal

Tumor





328,REACTOME\_CLASS\_B\_2\_SECRETIN\_FAMILY\_RECEPTEORS

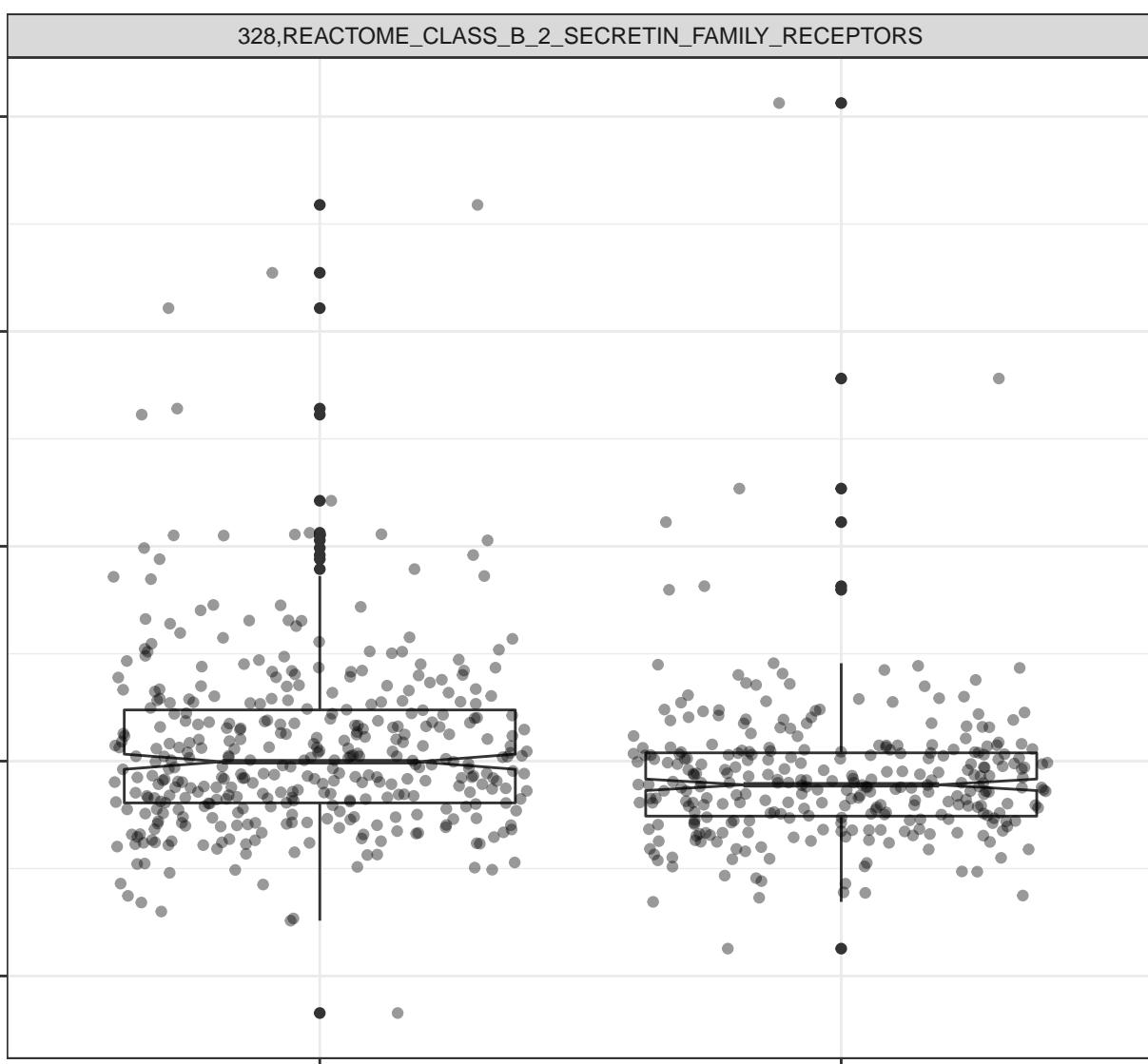
Value

0.15  
0.10  
0.05  
0.00  
-0.05

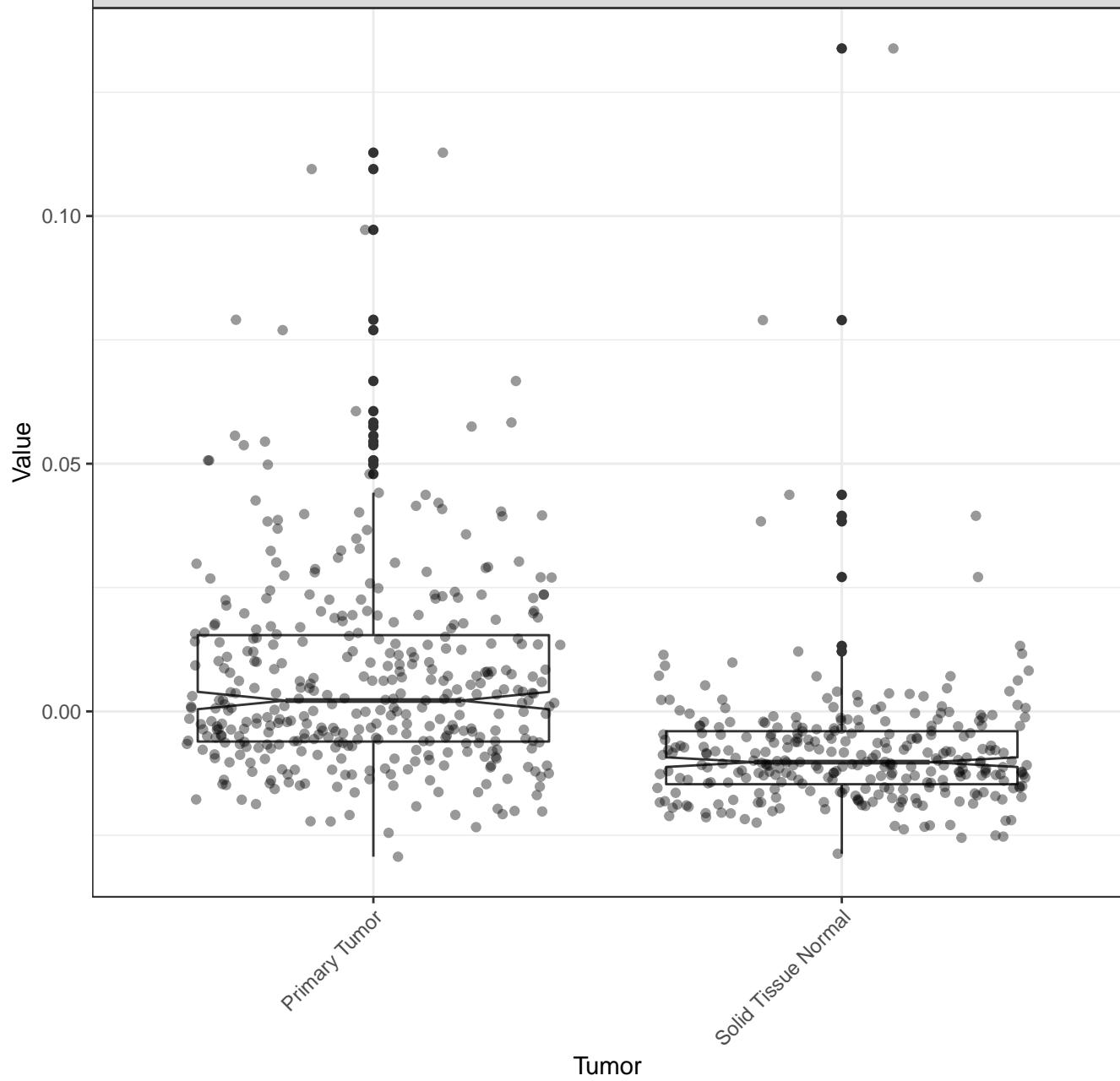
Primary Tumor

Solid Tissue Normal

Tumor



## 329,KEGG\_MAPK\_SIGNALING\_PATHWAY



### 330,MIPS\_40S\_RIBOSOMAL\_SUBUNIT\_CYTOPLASMIC

Value

0.06

0.03

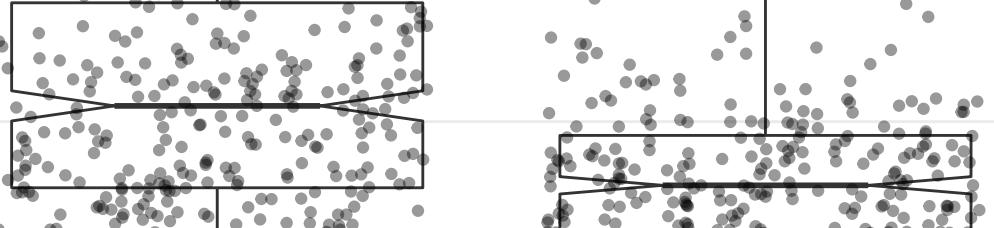
0.00

-0.03

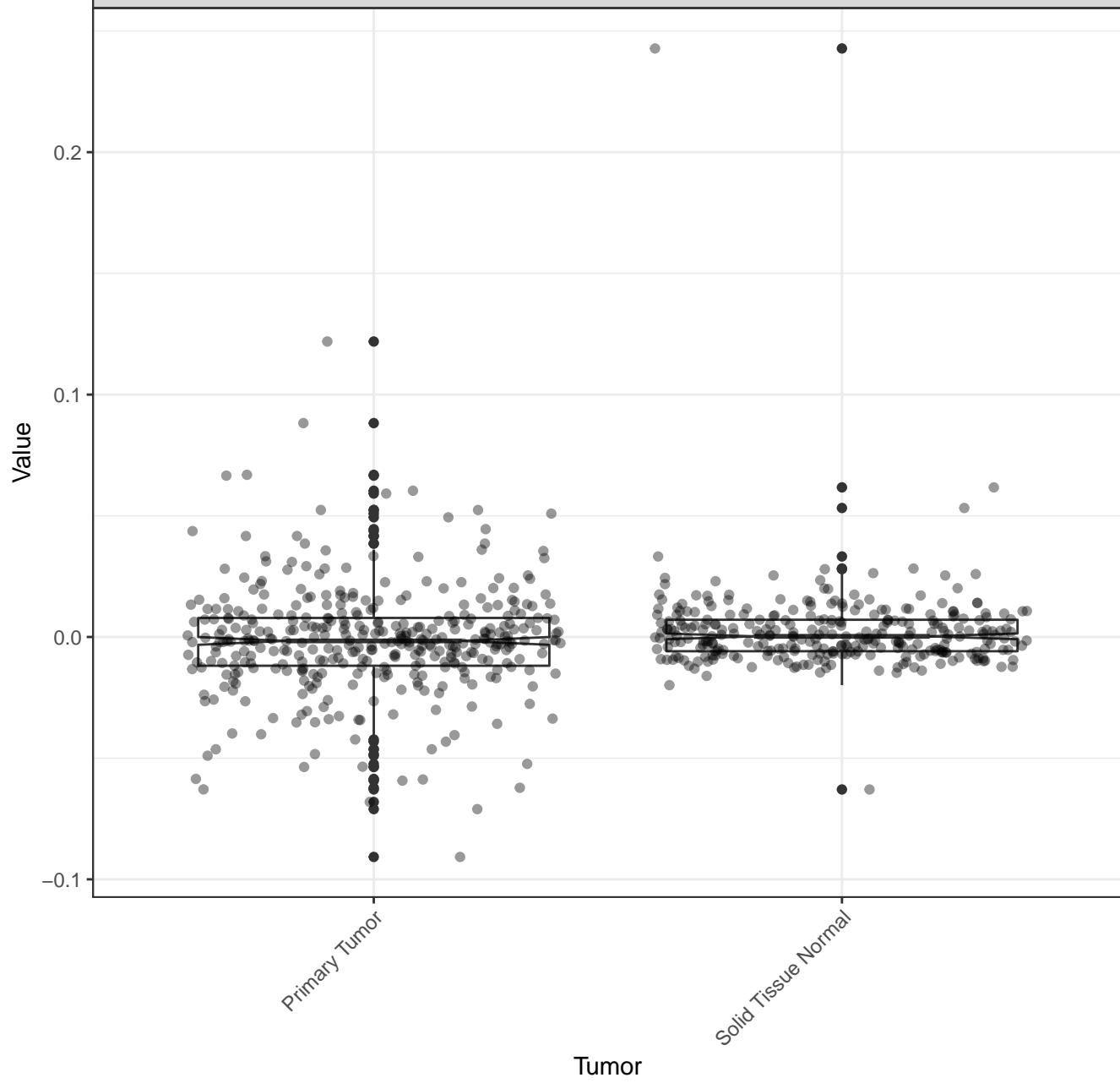
Primary Tumor

Solid Tissue Normal

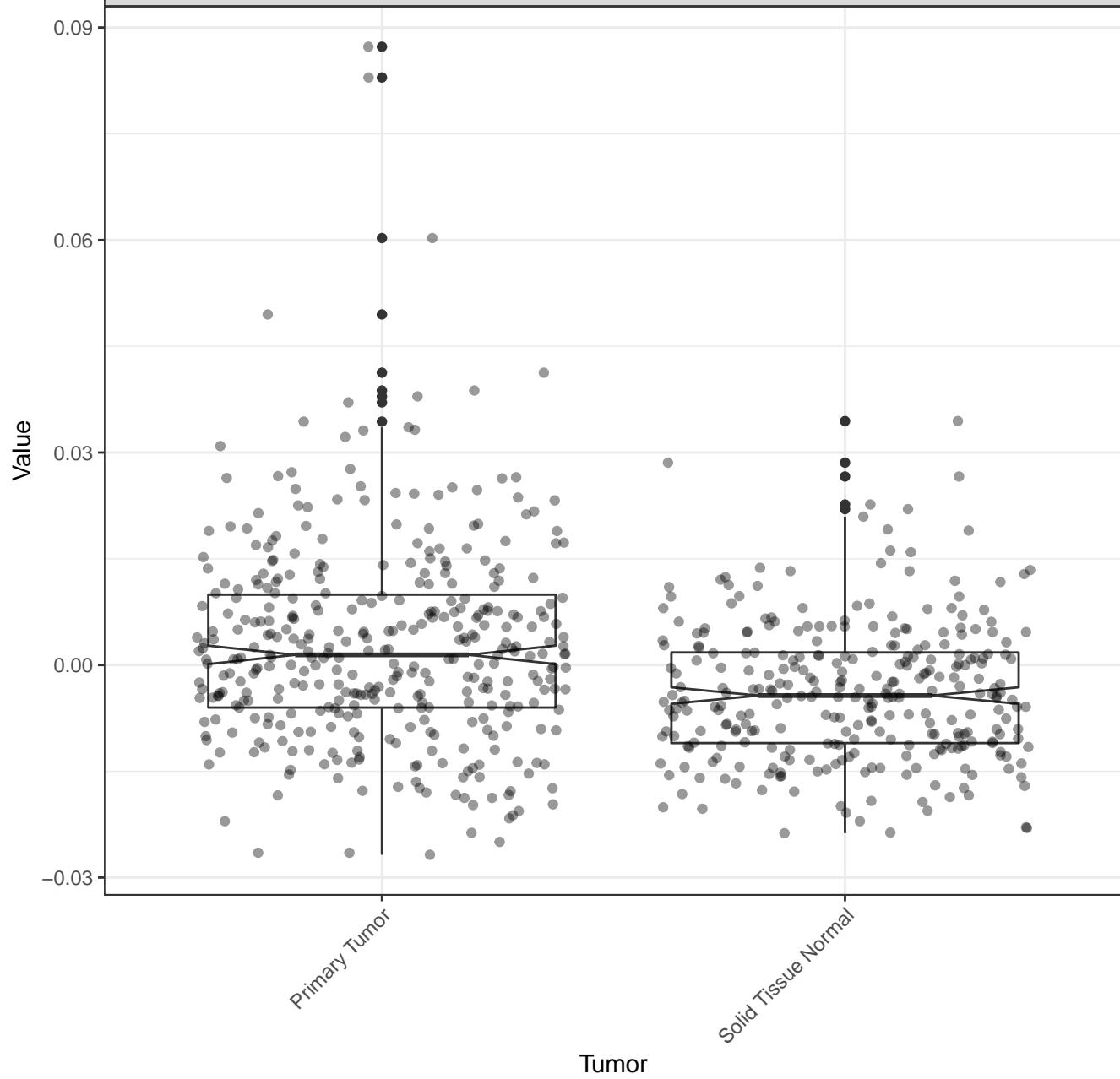
Tumor



## 331,DMAP\_ERY3

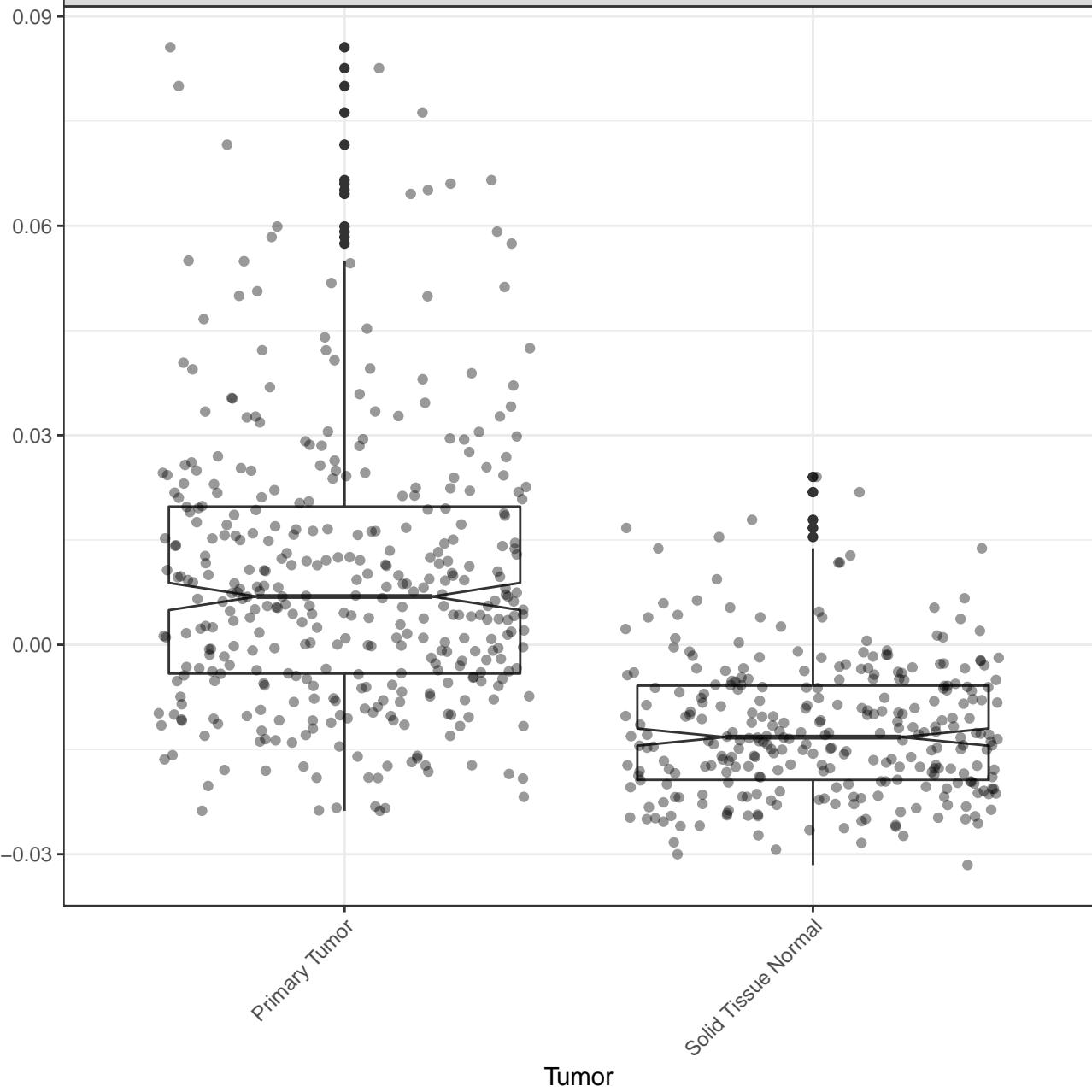


## 332,REACTOME\_DOWNSTREAM\_SIGNALING\_EVENTS\_OF\_B\_CELL\_RECECTOR\_BCR

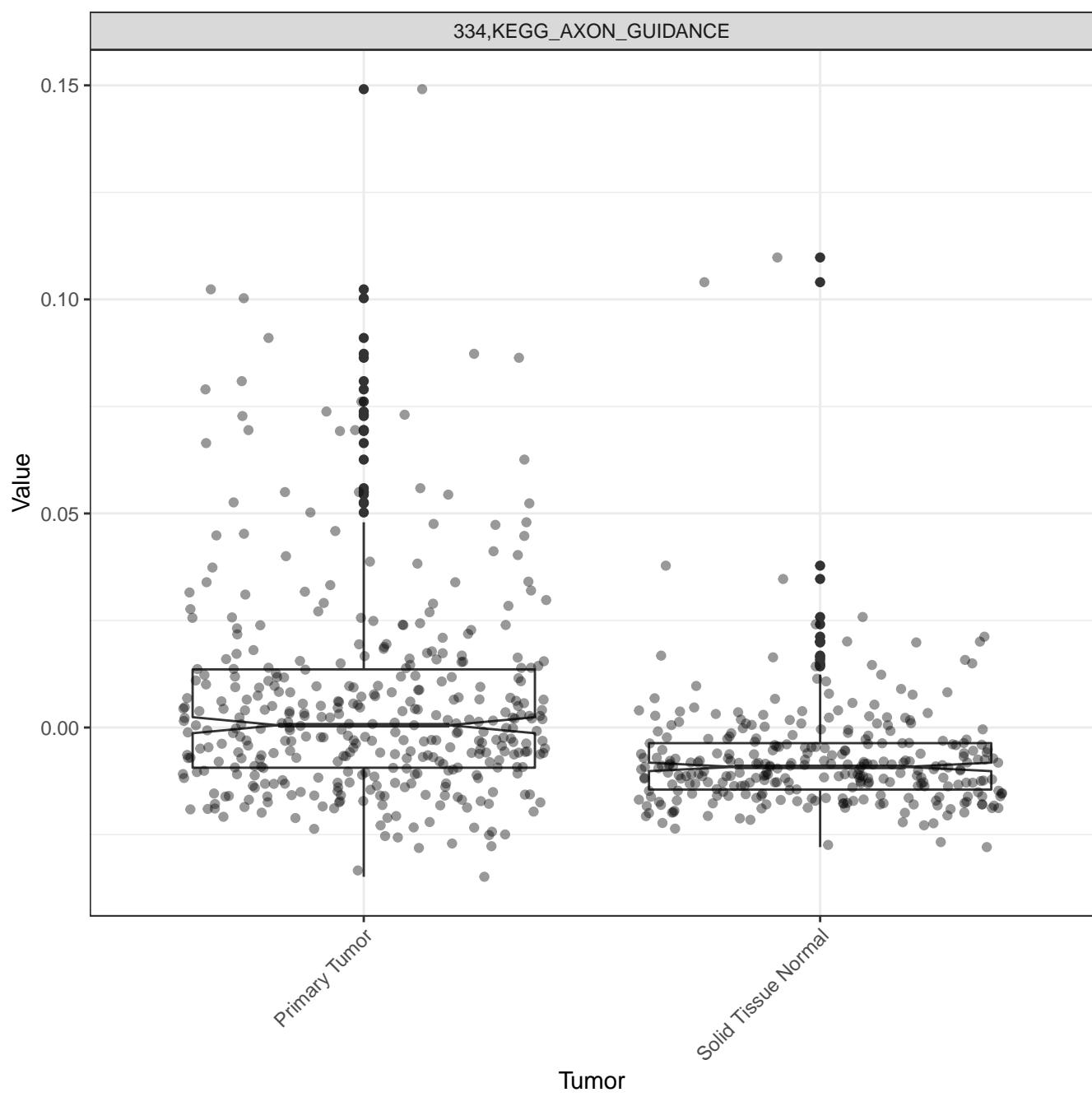


### 333,KEGG\_SYSTEMIC\_LUPUS\_ERYTHEMATOSUS

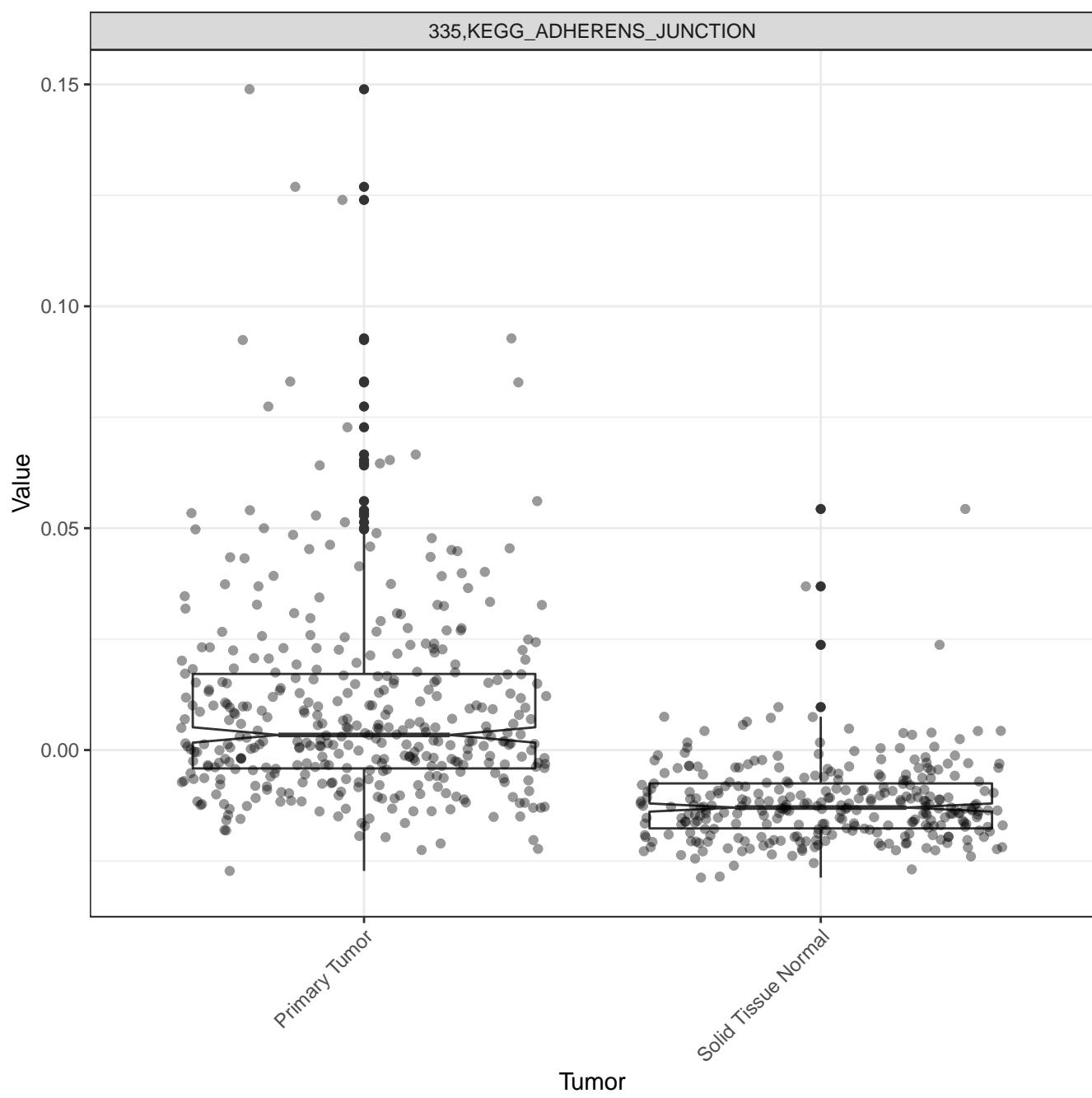
Value



### 334,KEGG\_AXON\_GUIDANCE



### 335,KEGG\_ADHERENS\_JUNCTION



Value

0.15

0.10

0.05

0.00

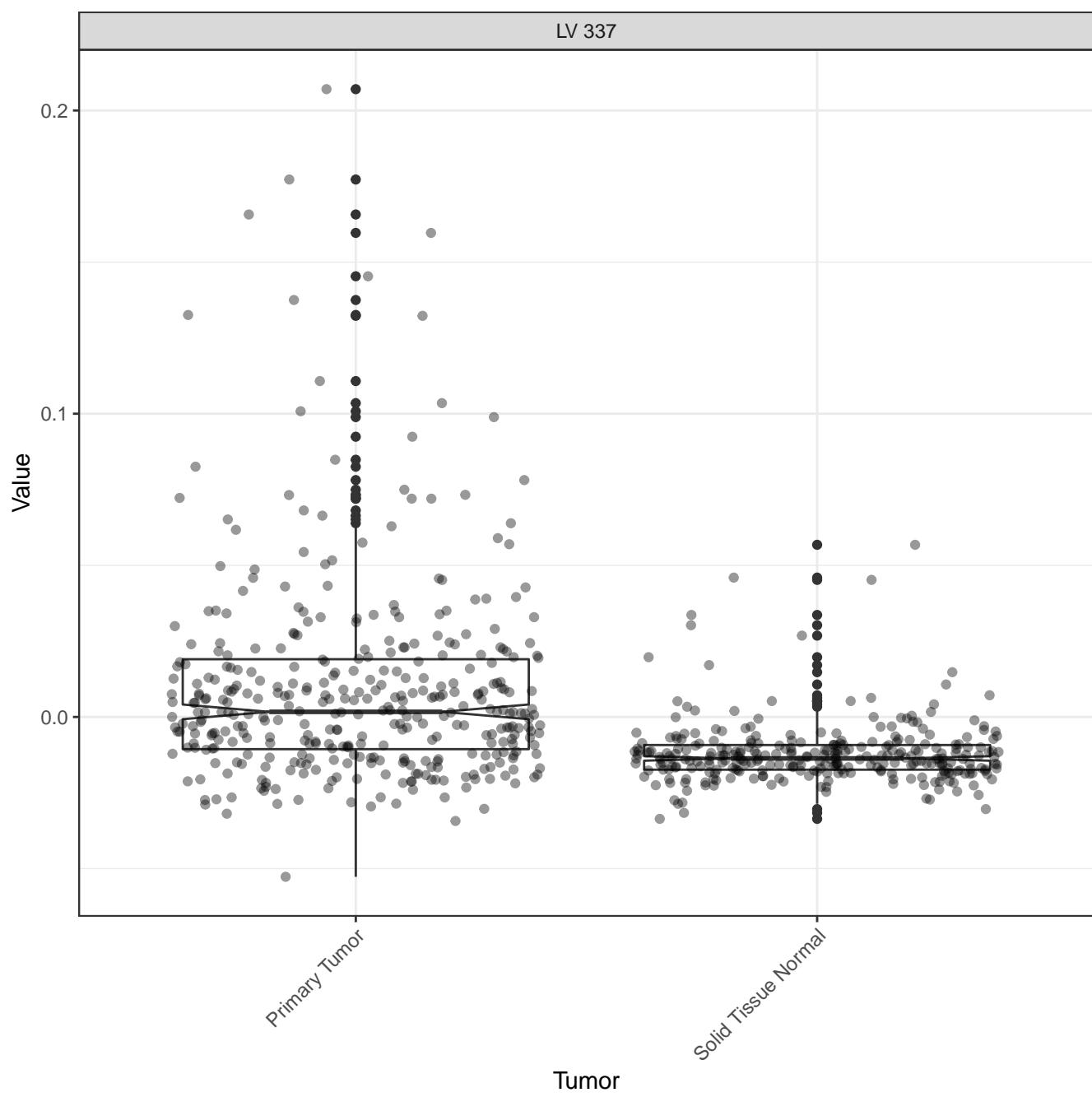
-0.05

Primary Tumor

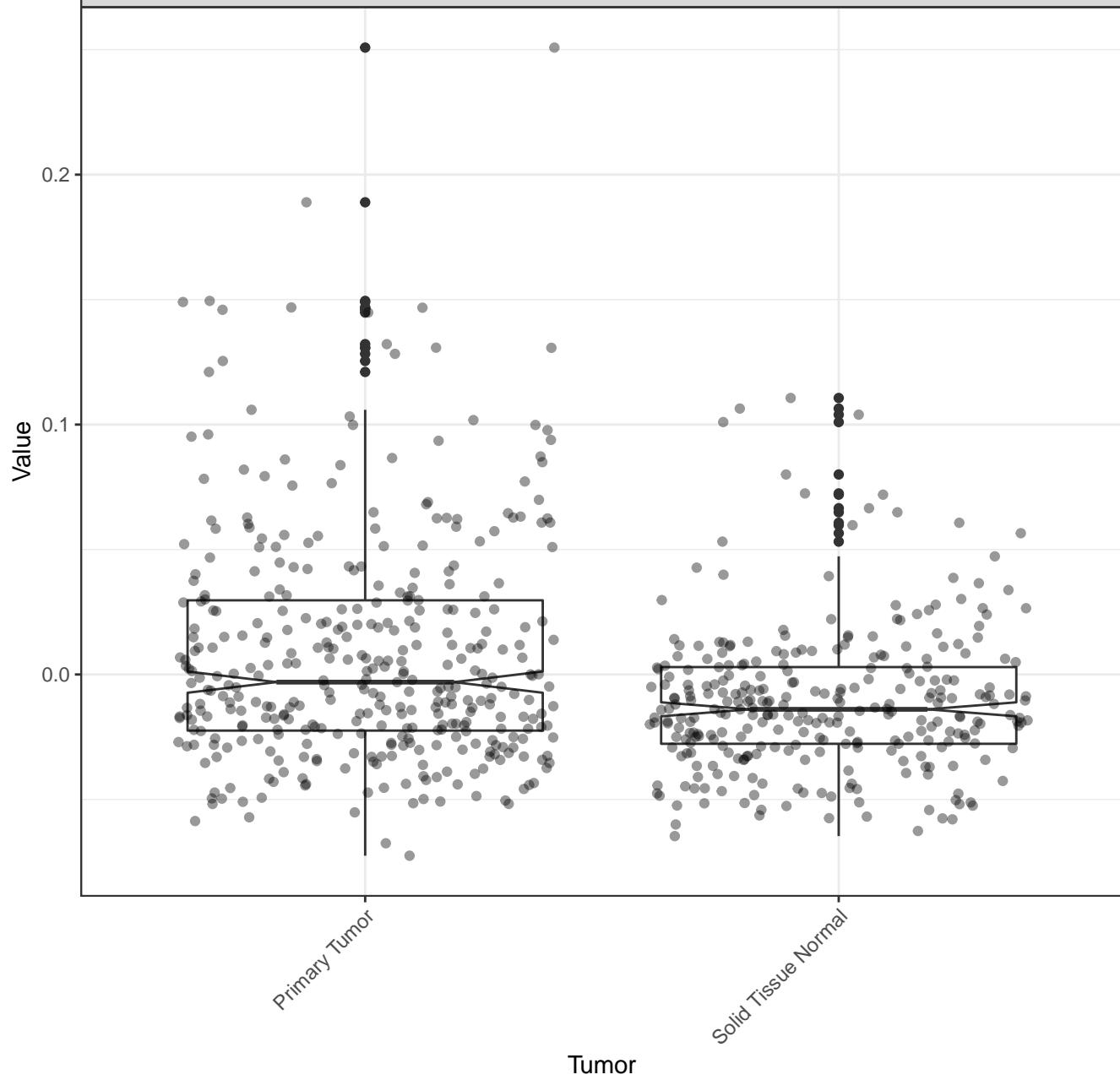
Solid Tissue Normal

Tumor

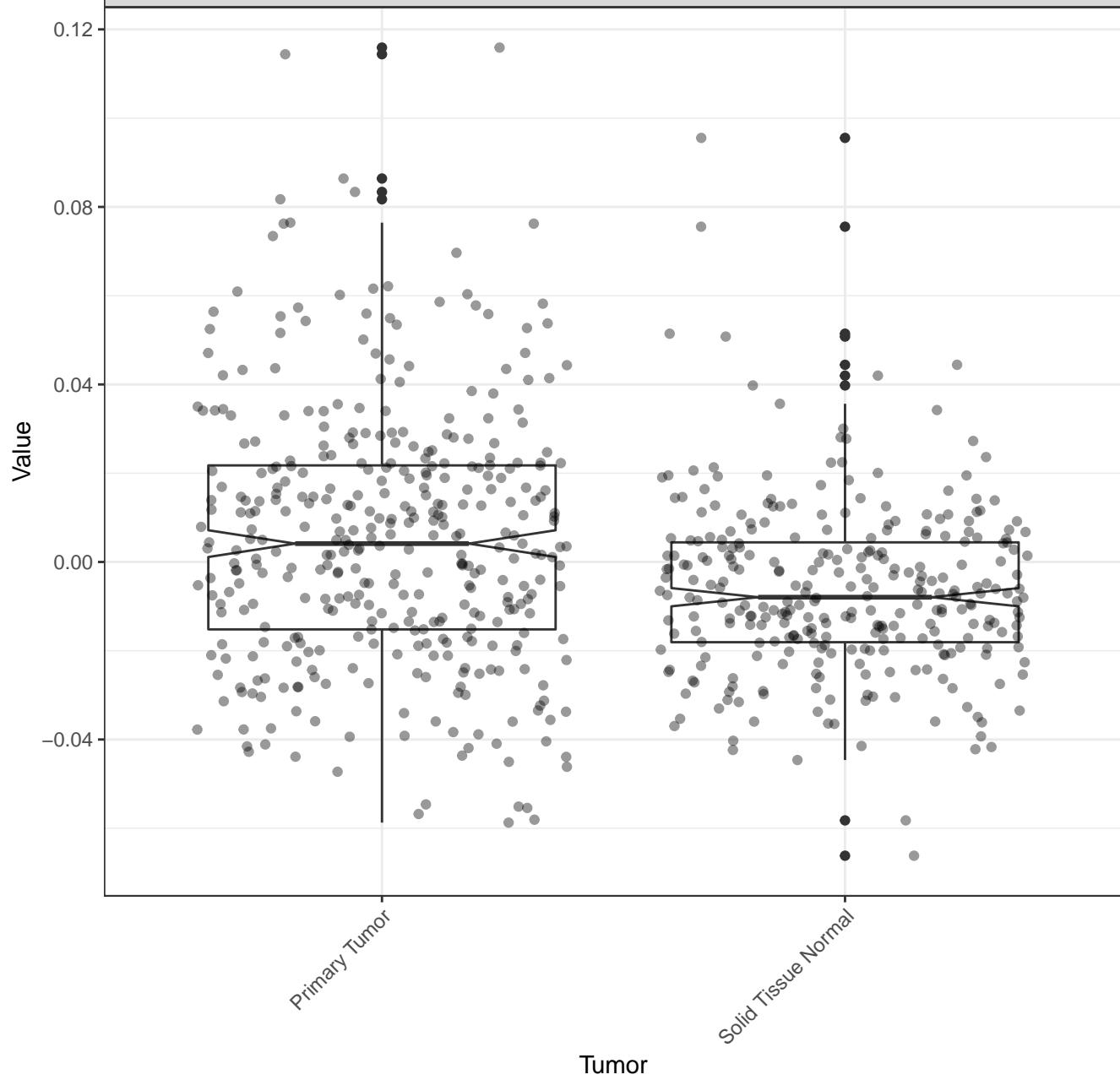




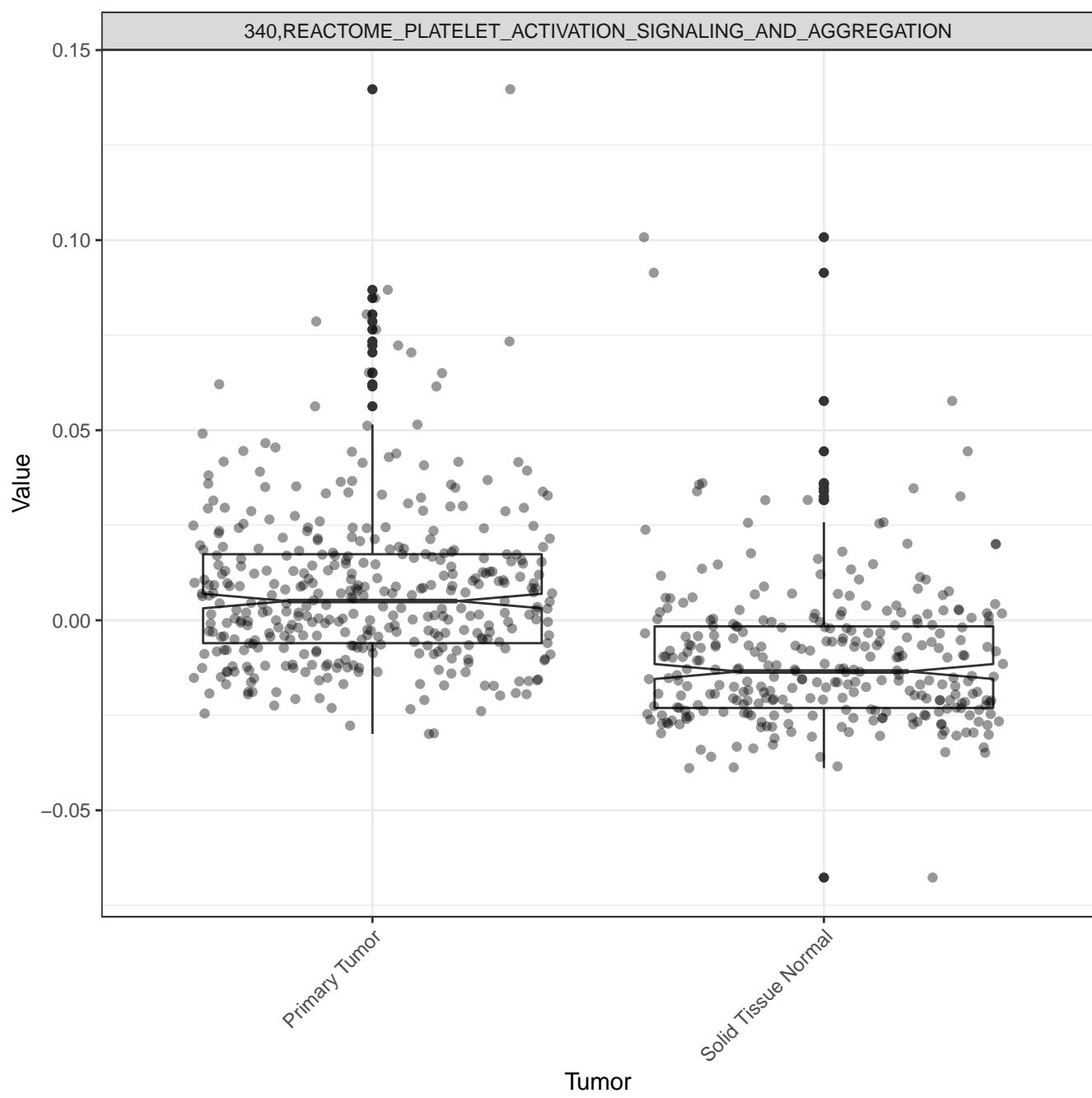
## 338,MIPS\_SPliceosome

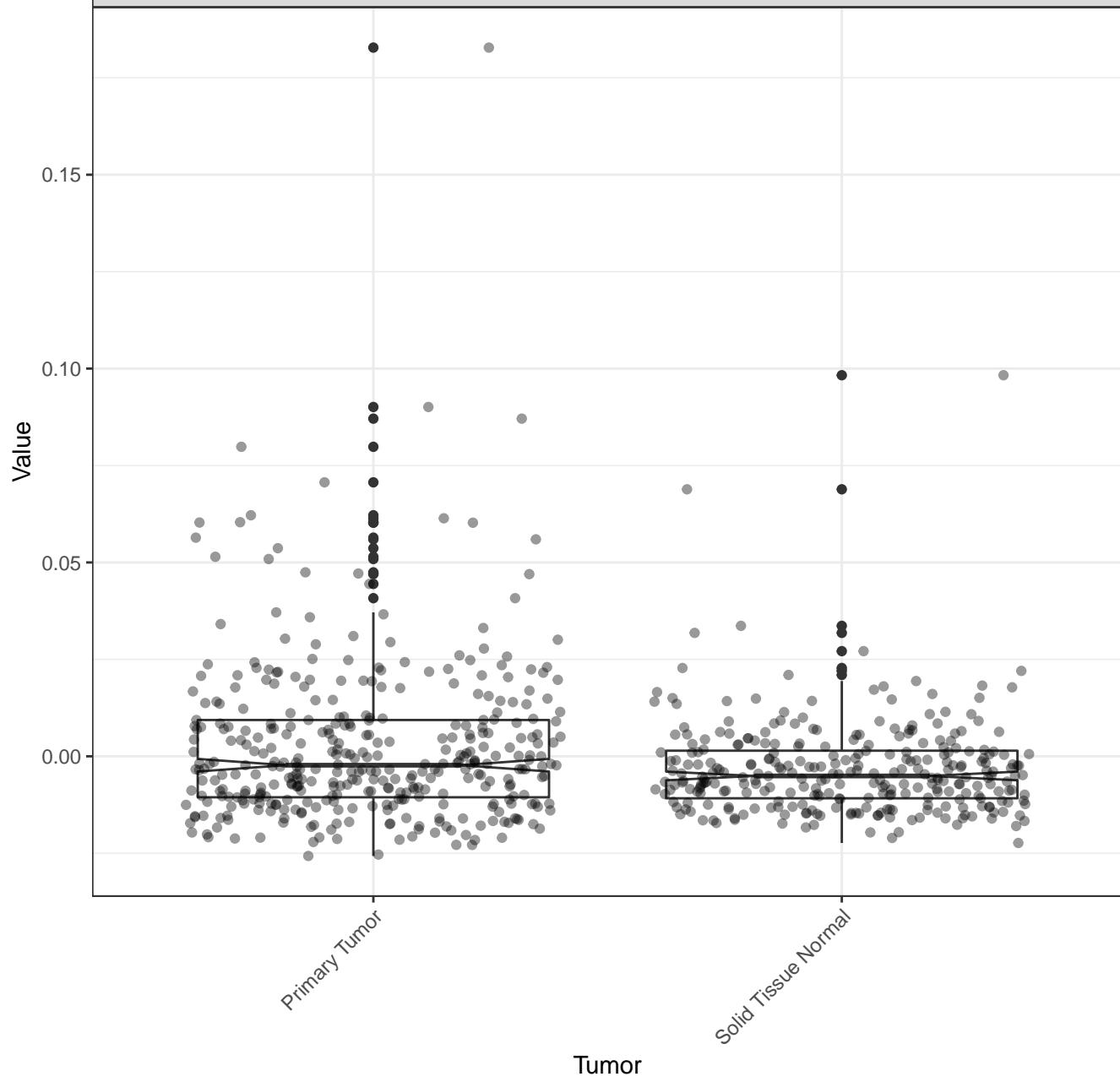


339,REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS



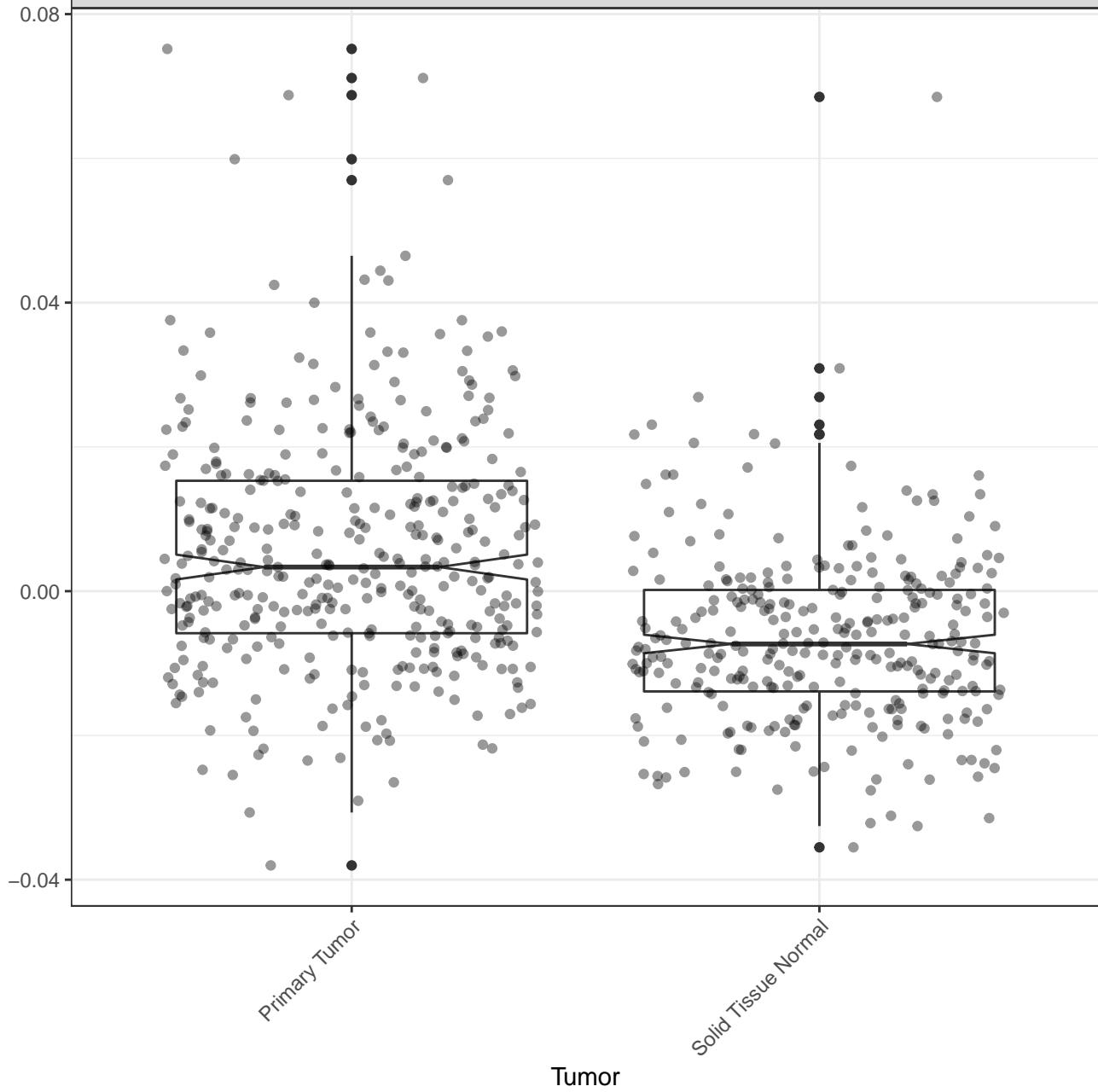
### 340,REACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION



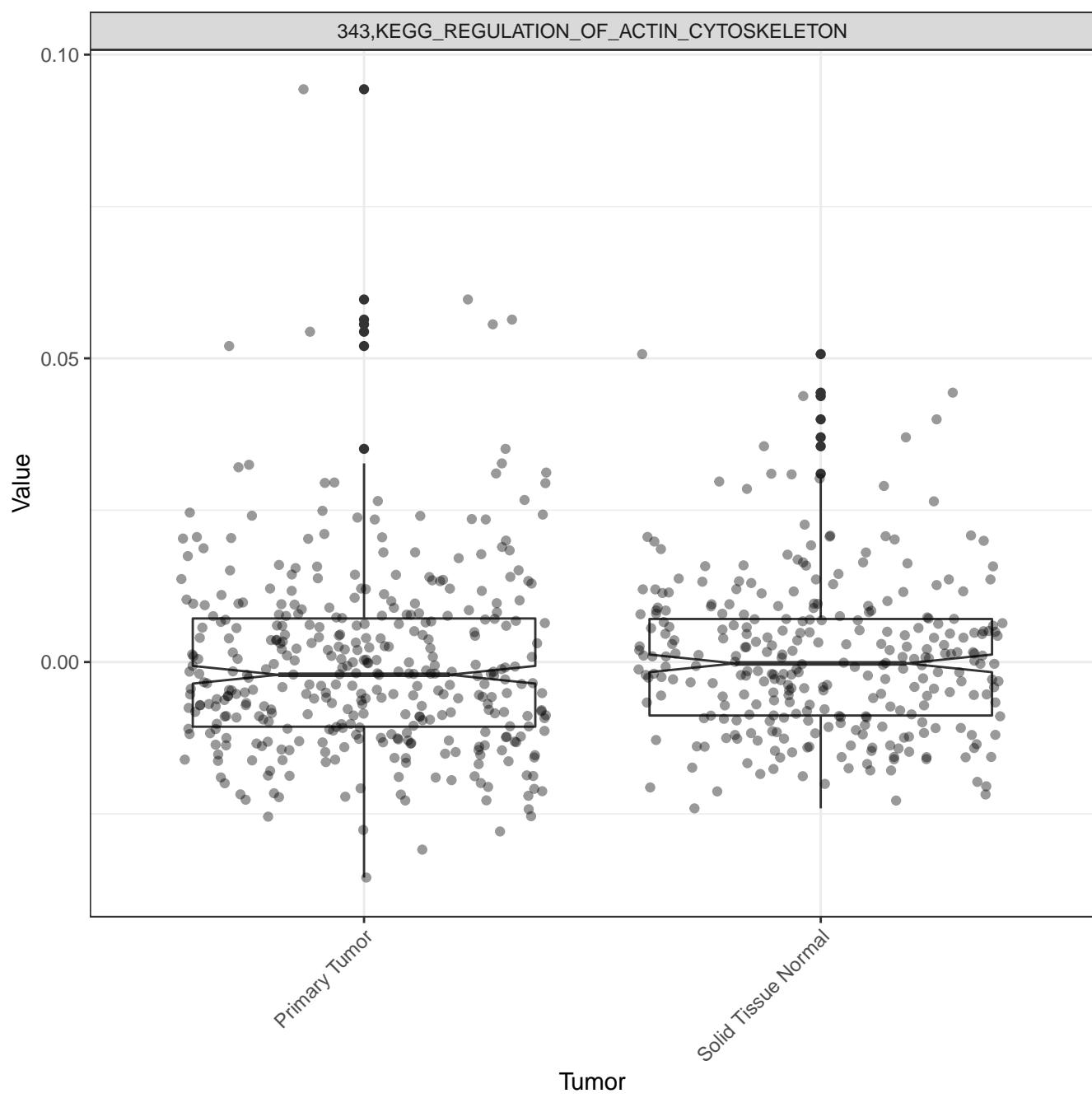


LV 342

Value



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



LV 344

Value

0.12

0.08

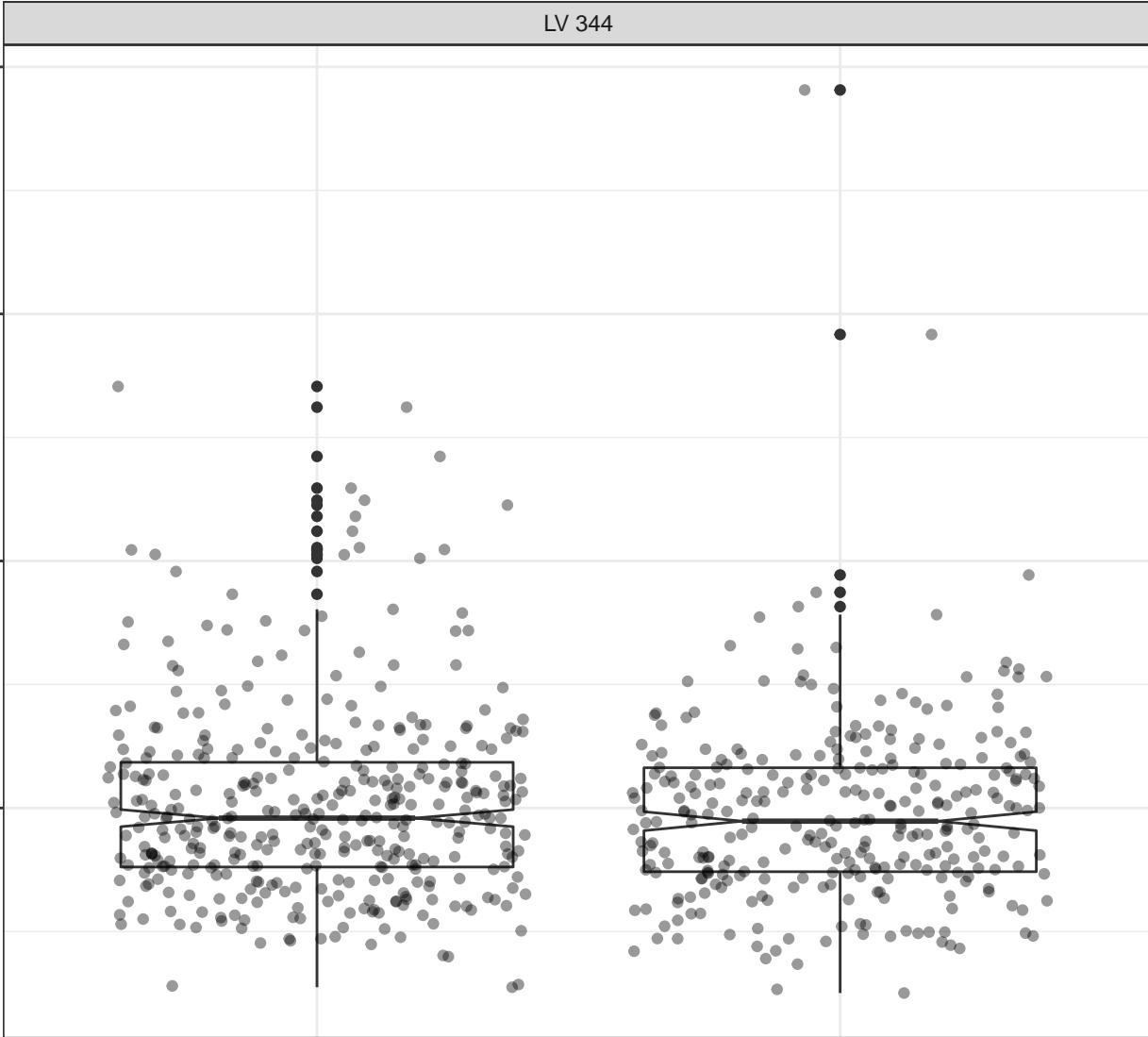
0.04

0.00

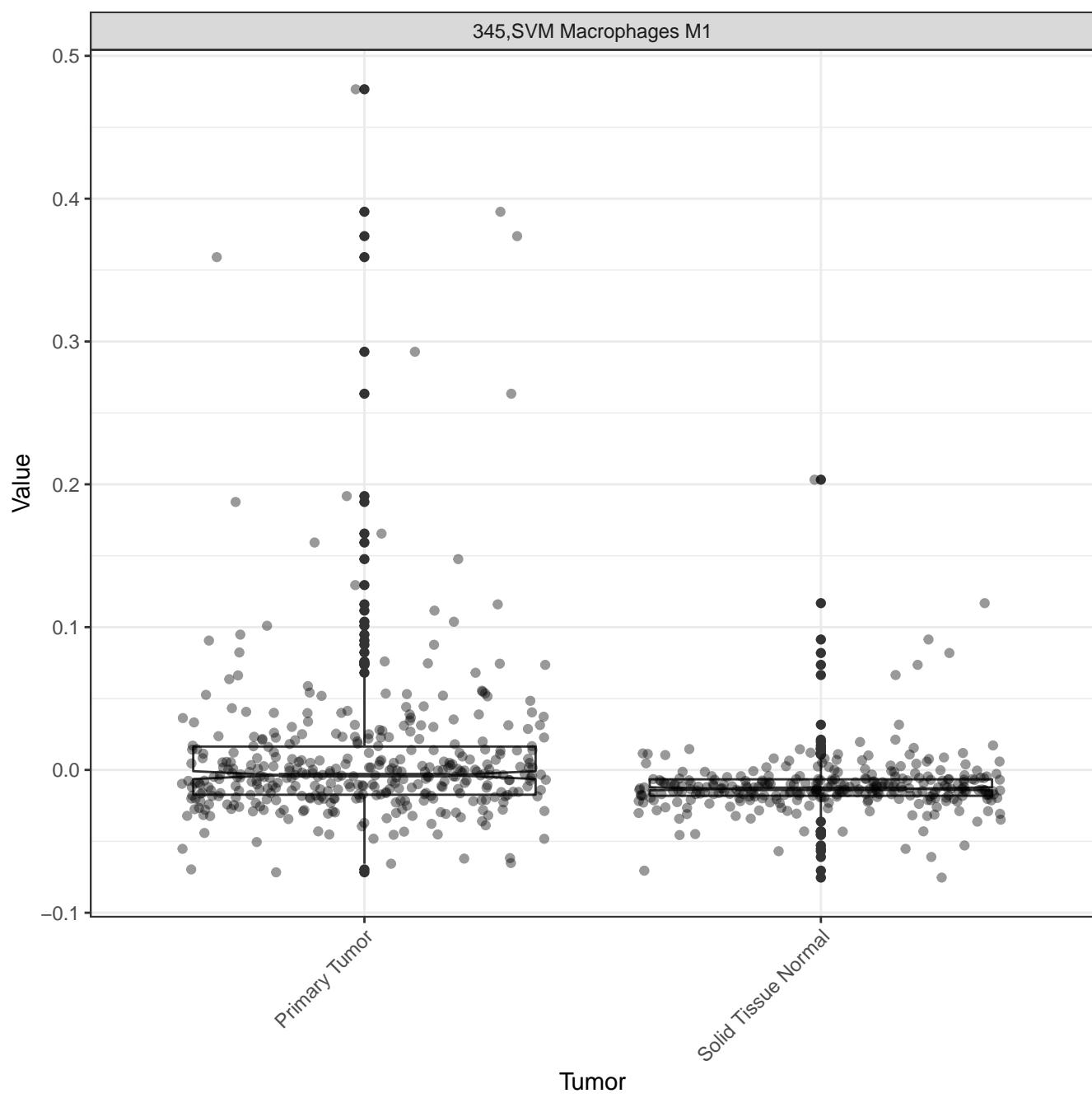
Primary Tumor

Solid Tissue Normal

Tumor



### 345,SVM Macrophages M1



Value

0.15

0.10

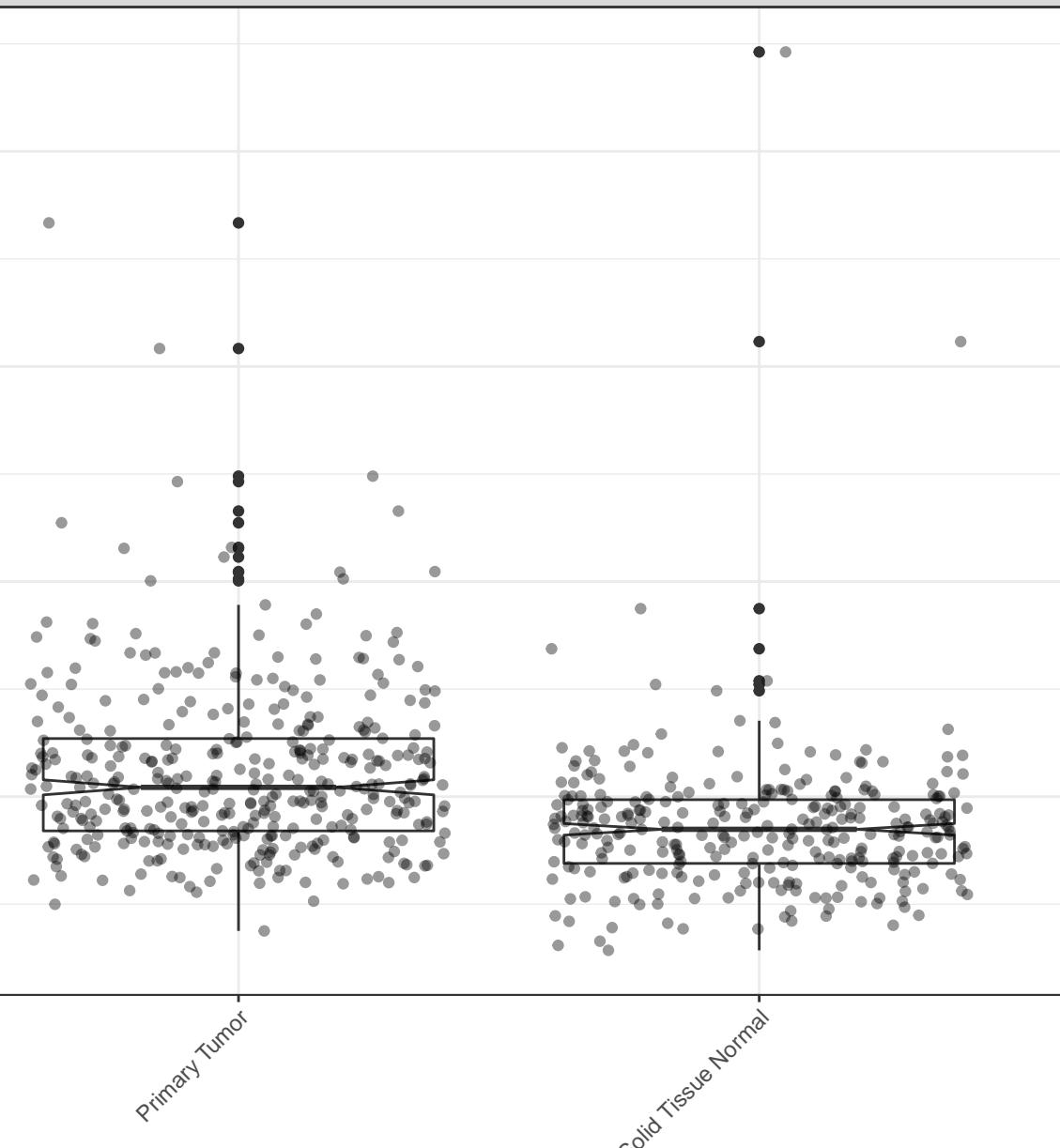
0.05

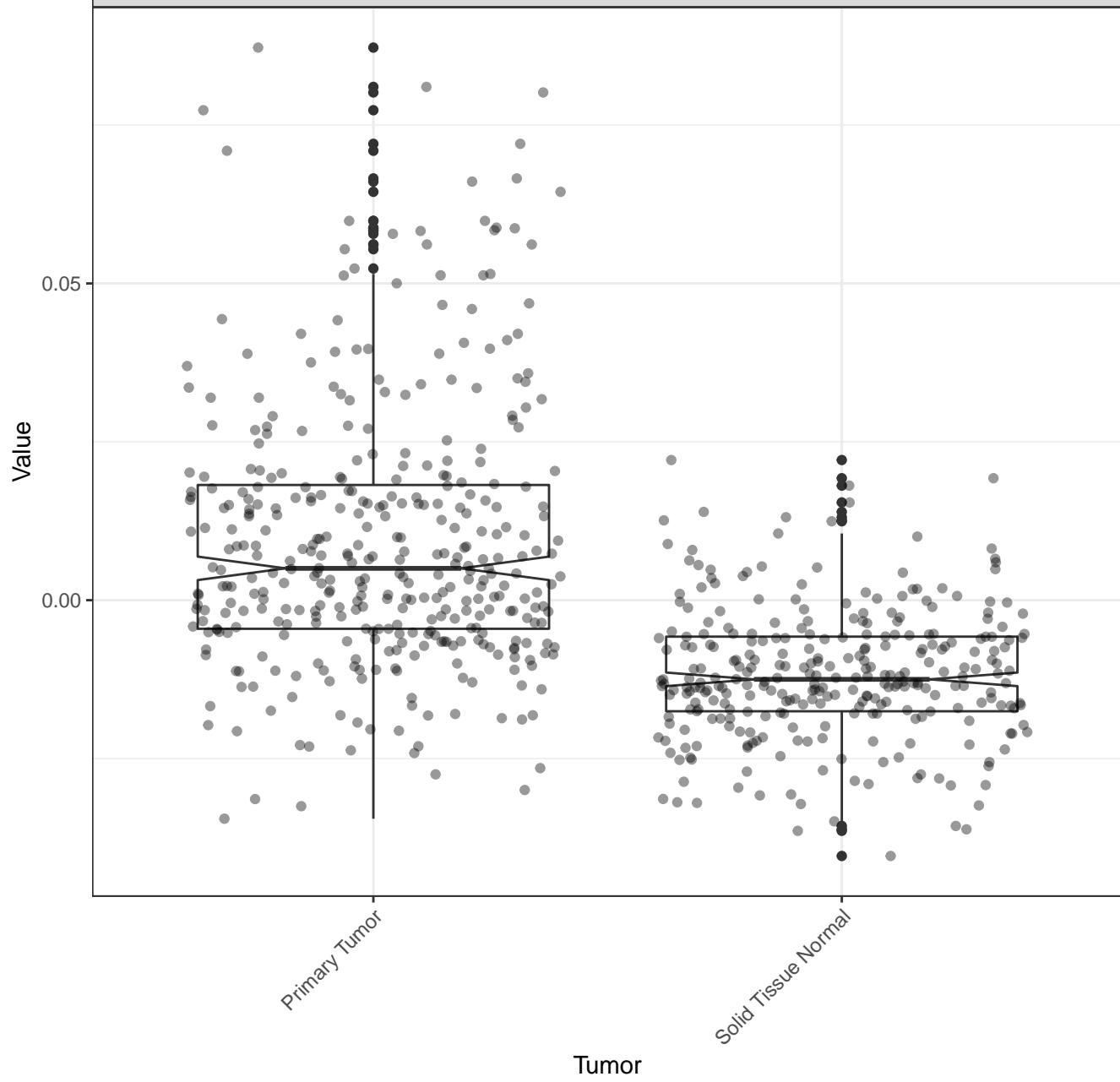
0.00

Primary Tumor

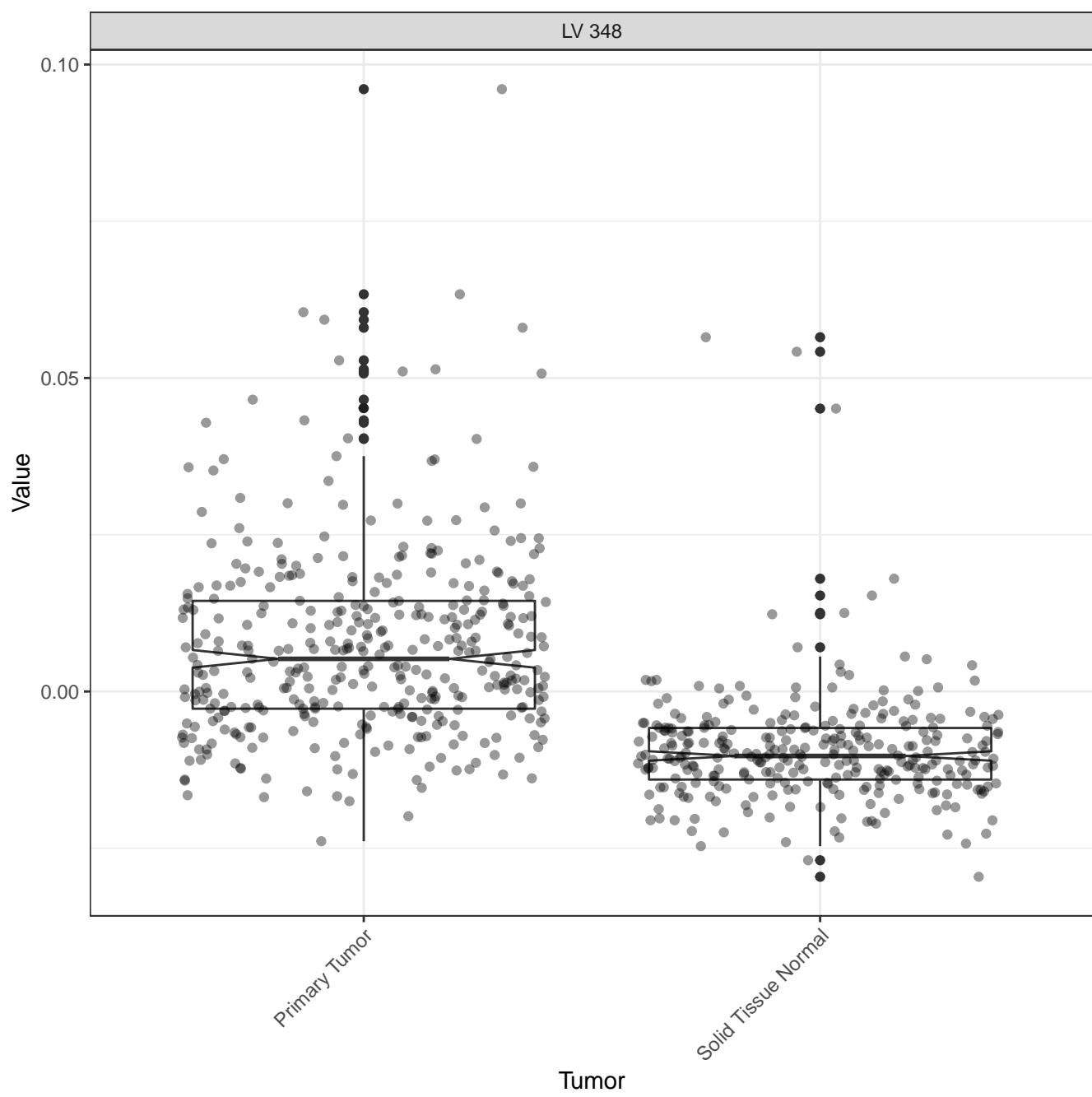
Solid Tissue Normal

Tumor





LV 348



Value

0.10

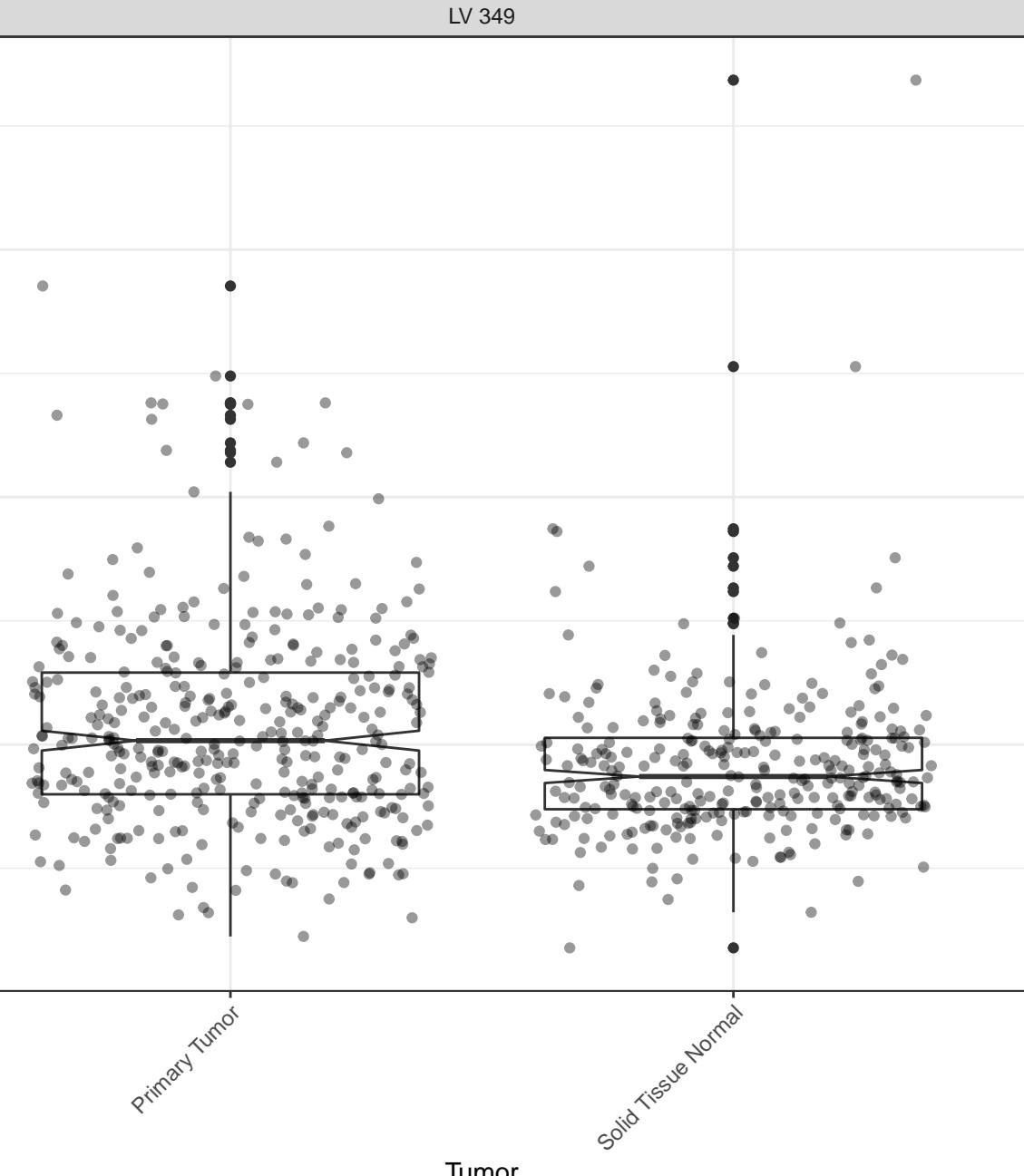
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



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

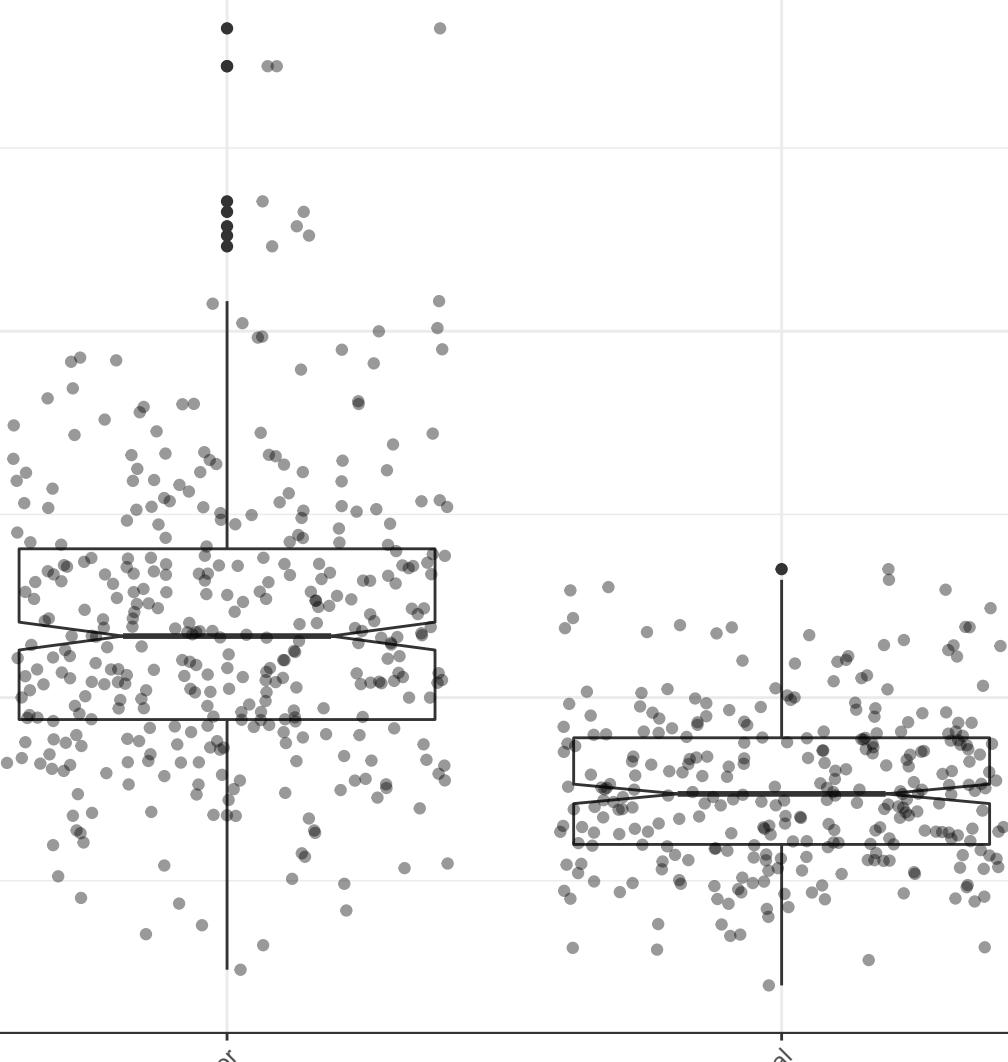
Value

0.05  
0.00

Primary Tumor

Solid Tissue Normal

Tumor



## 351,REACTOME\_METABOLISM\_OF\_MRNA

Value

0.3

0.2

0.1

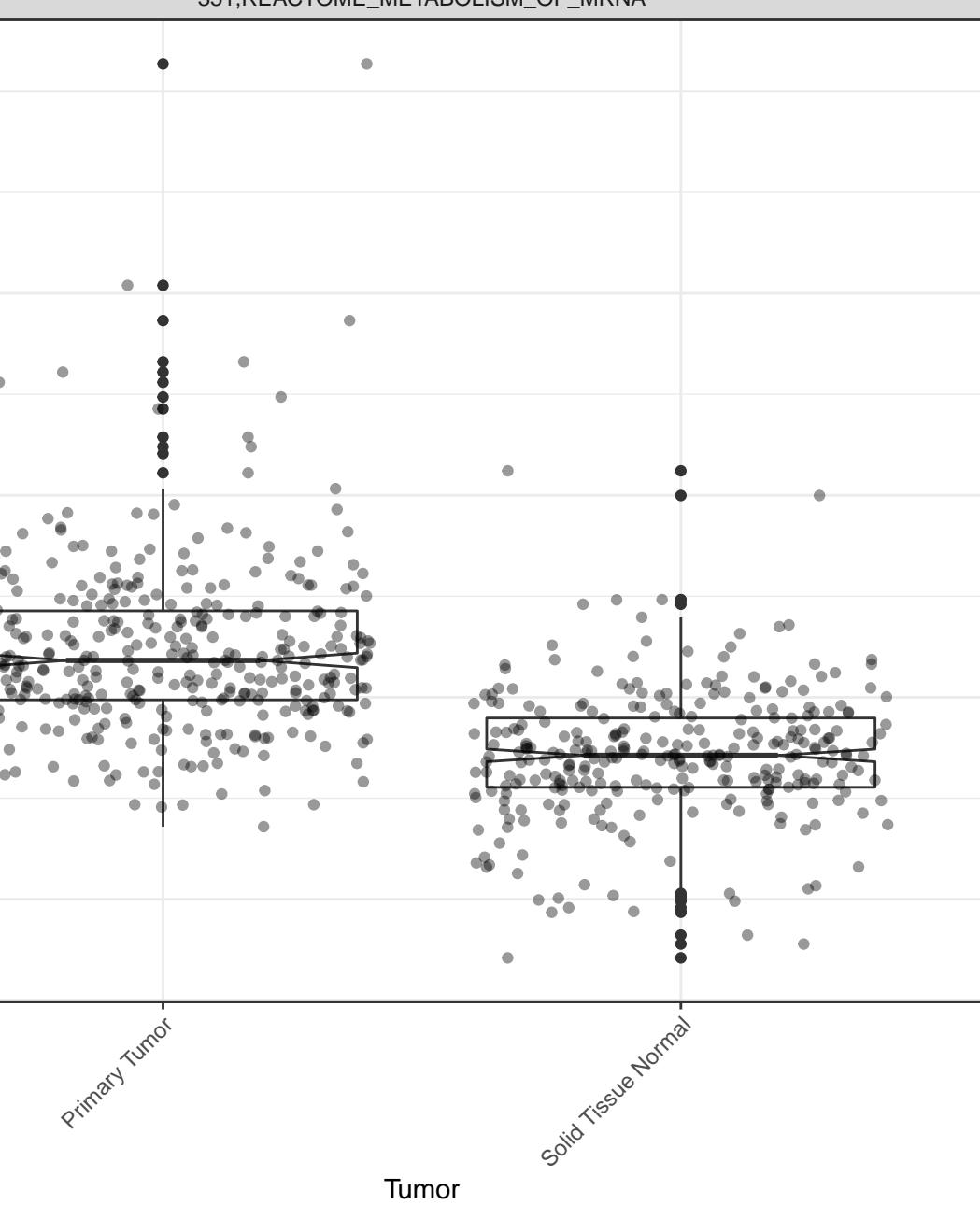
0.0

-0.1

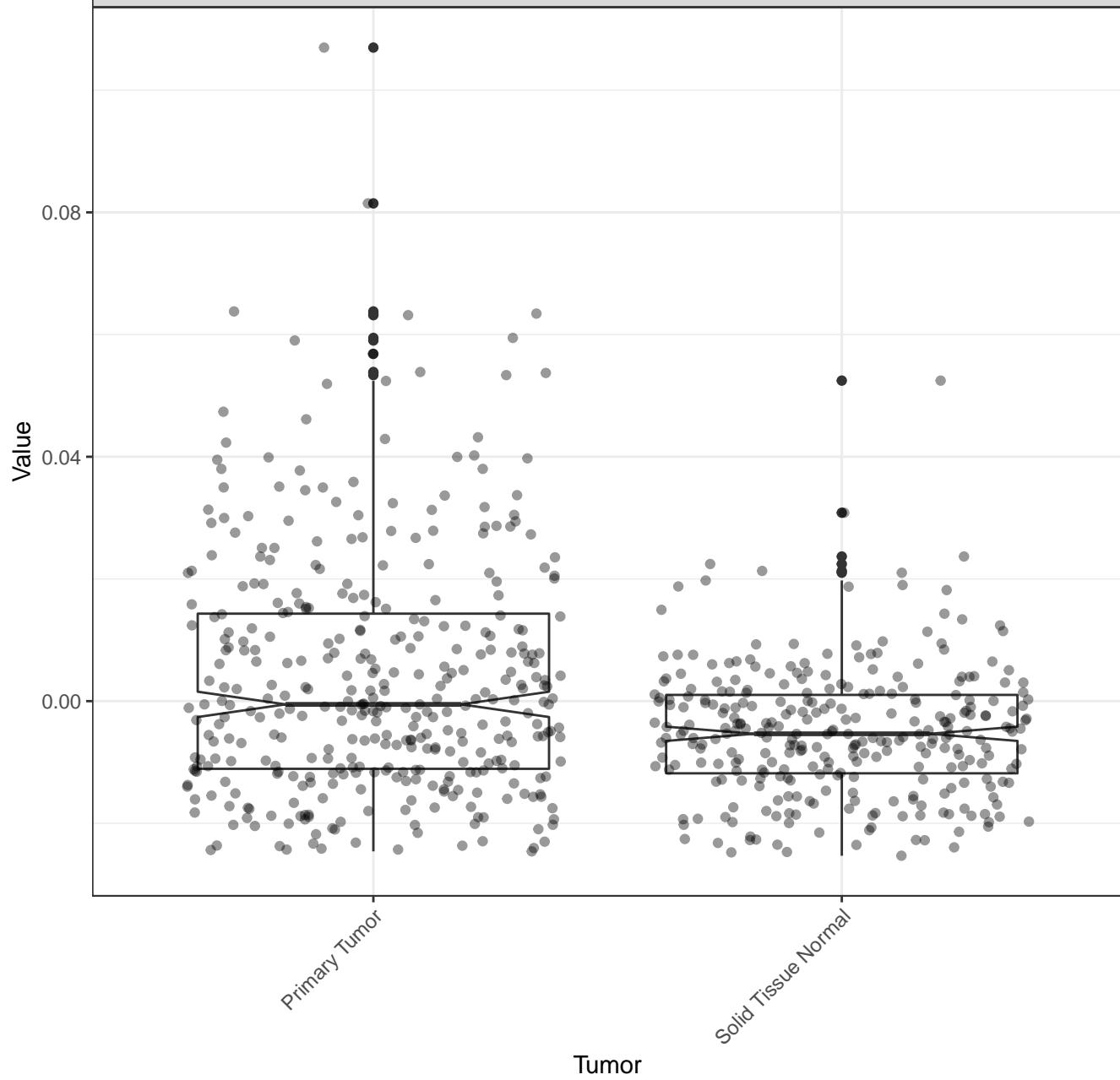
Primary Tumor

Solid Tissue Normal

Tumor



## 352,KEGG\_AXON\_GUIDANCE



Value

0.20

0.15

0.10

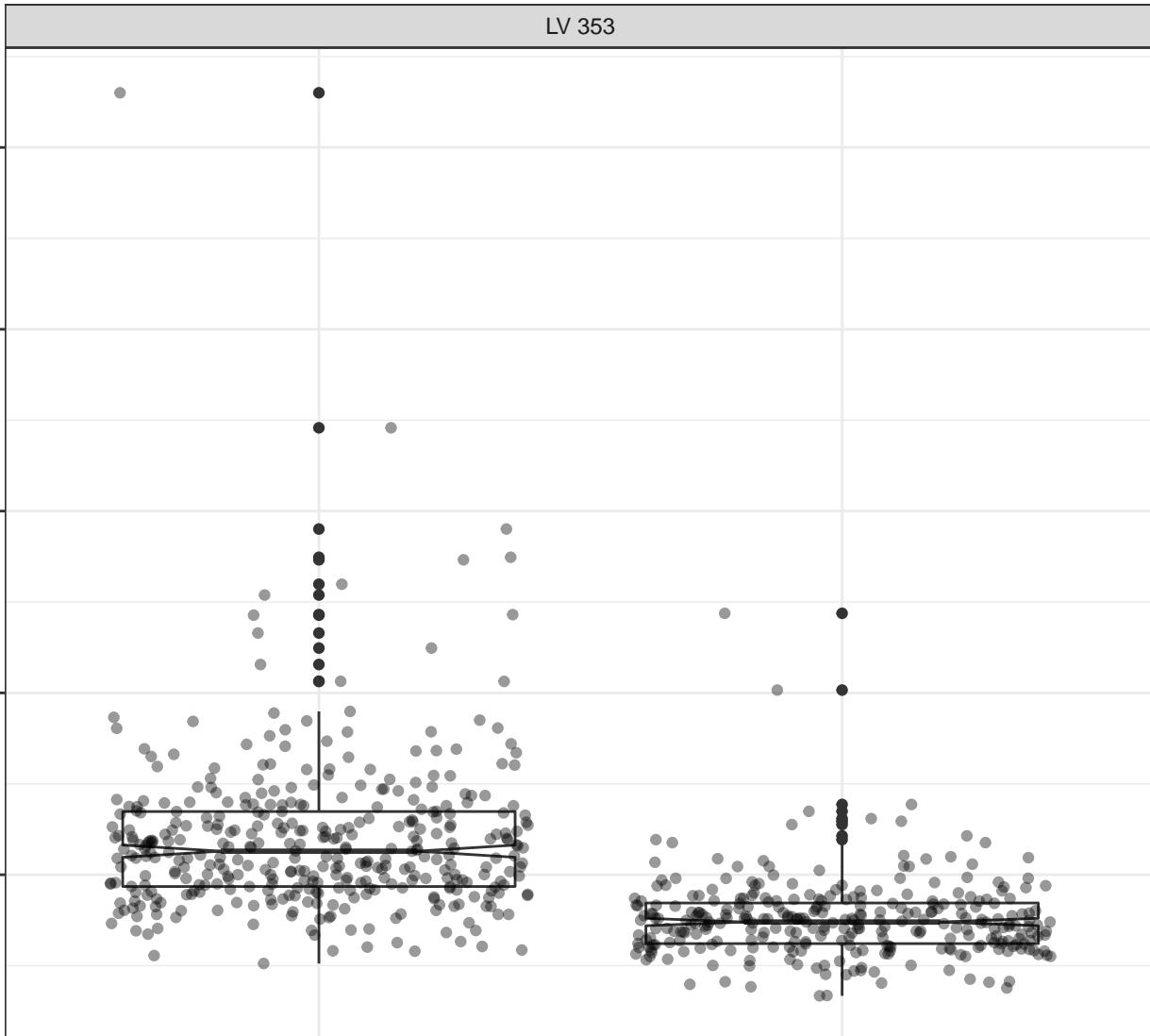
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



Value

0.10

0.05

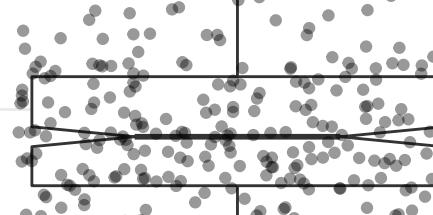
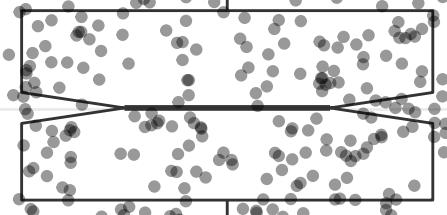
0.00

-0.05

Primary Tumor

Solid Tissue Normal

Tumor



LV 355

Value

0.10

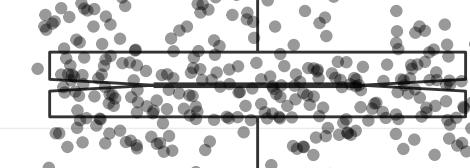
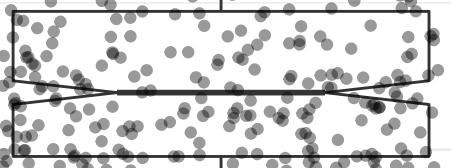
0.05

0.00

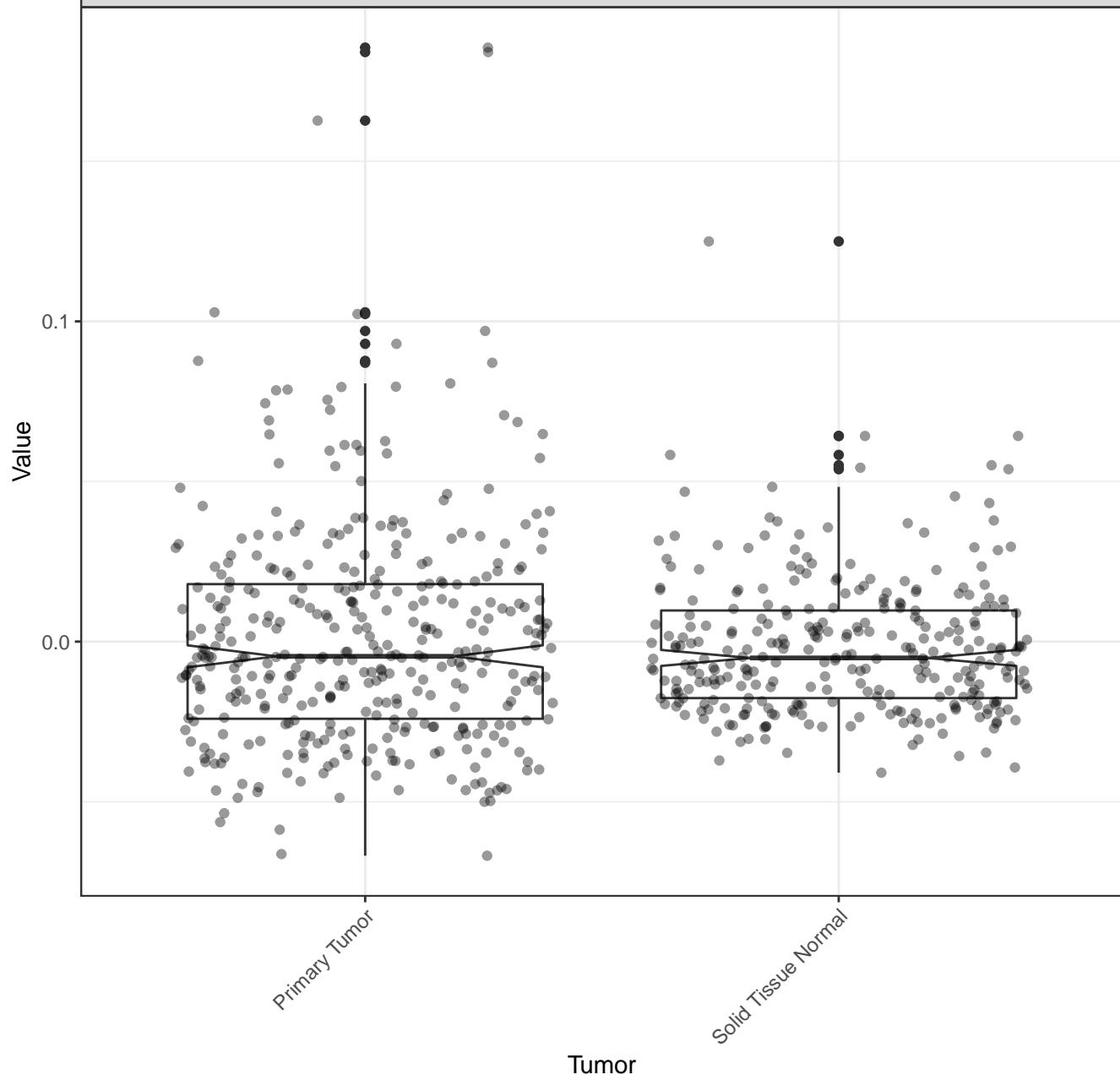
Primary Tumor

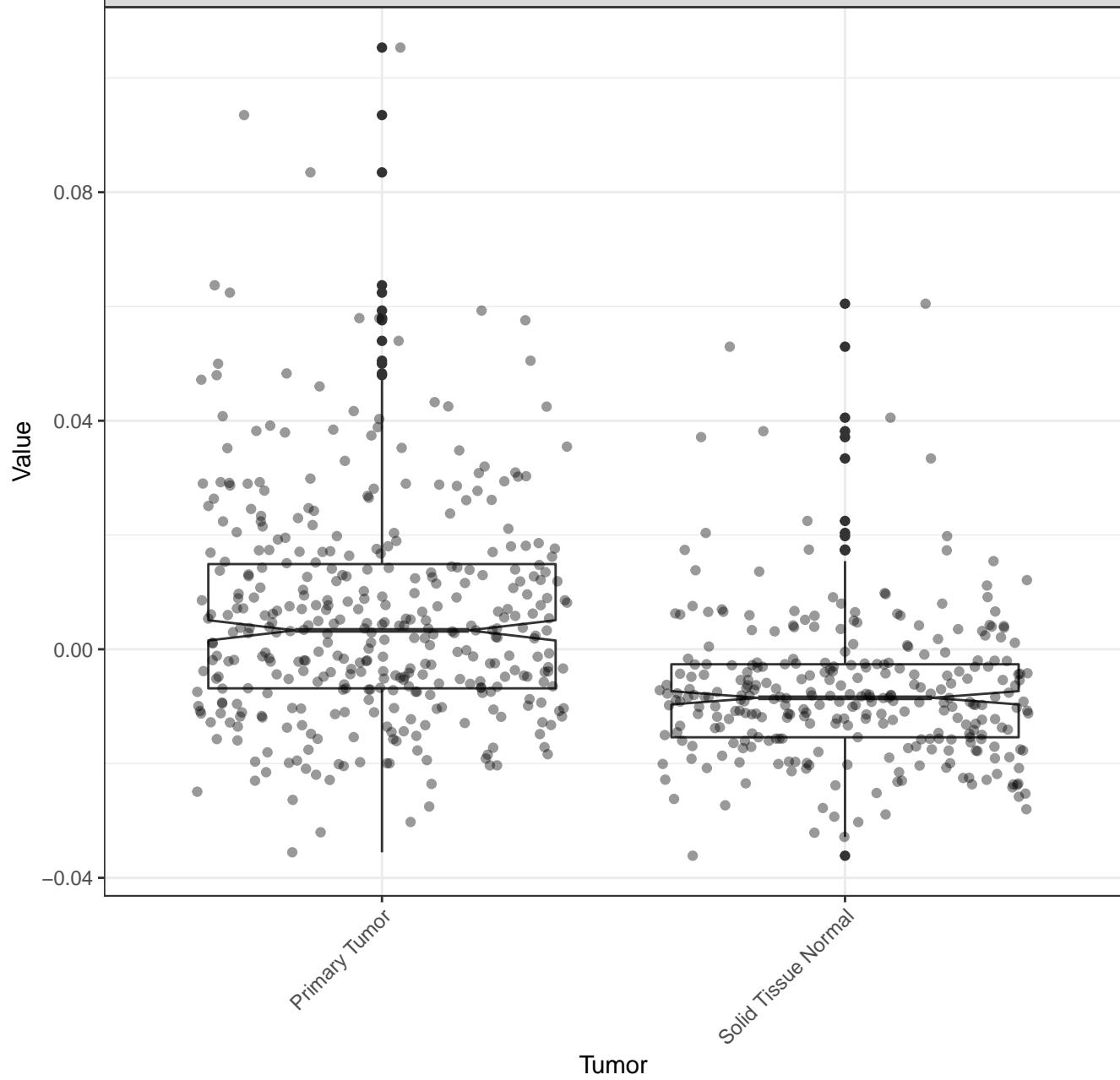
Solid Tissue Normal

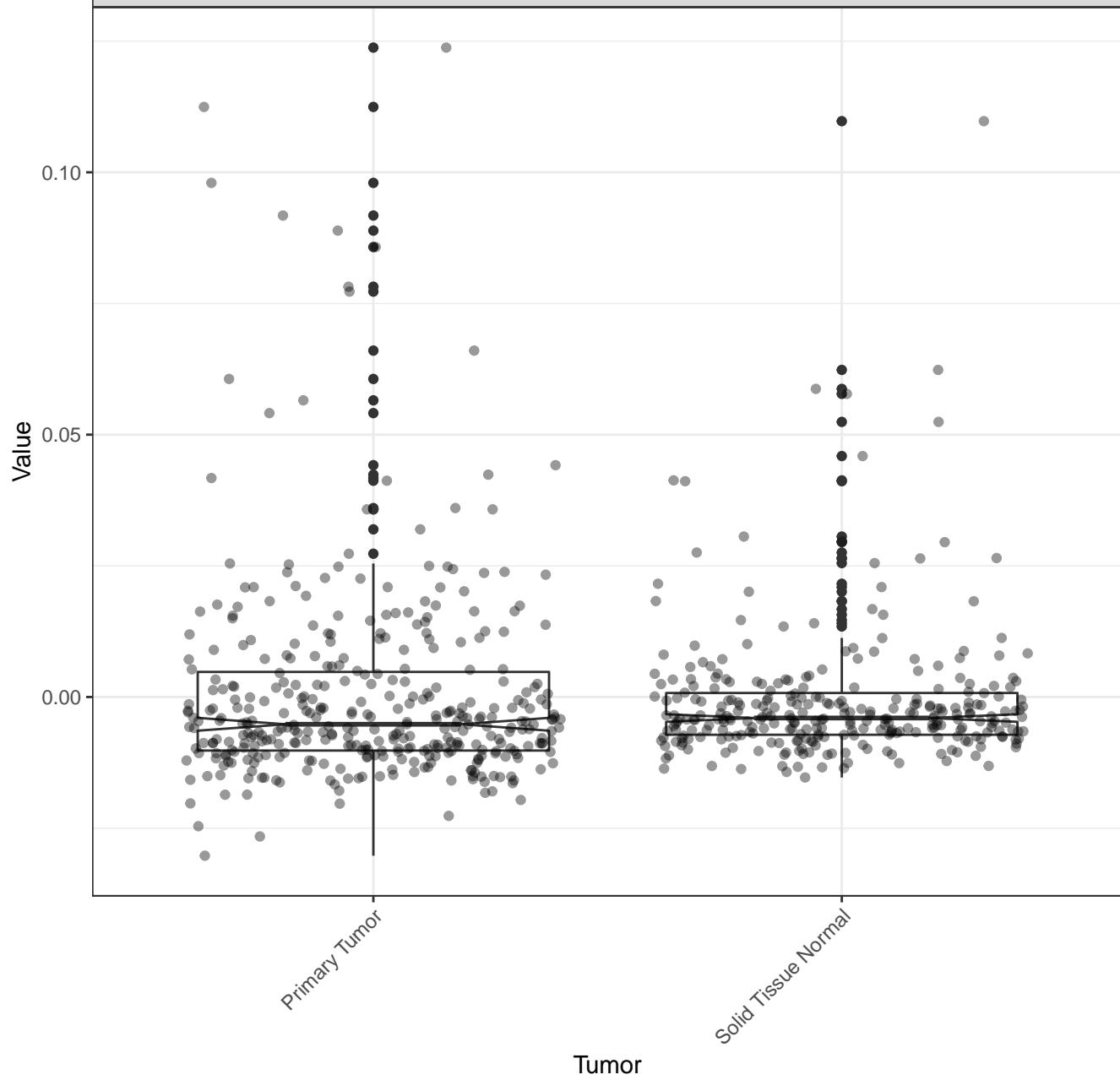
Tumor



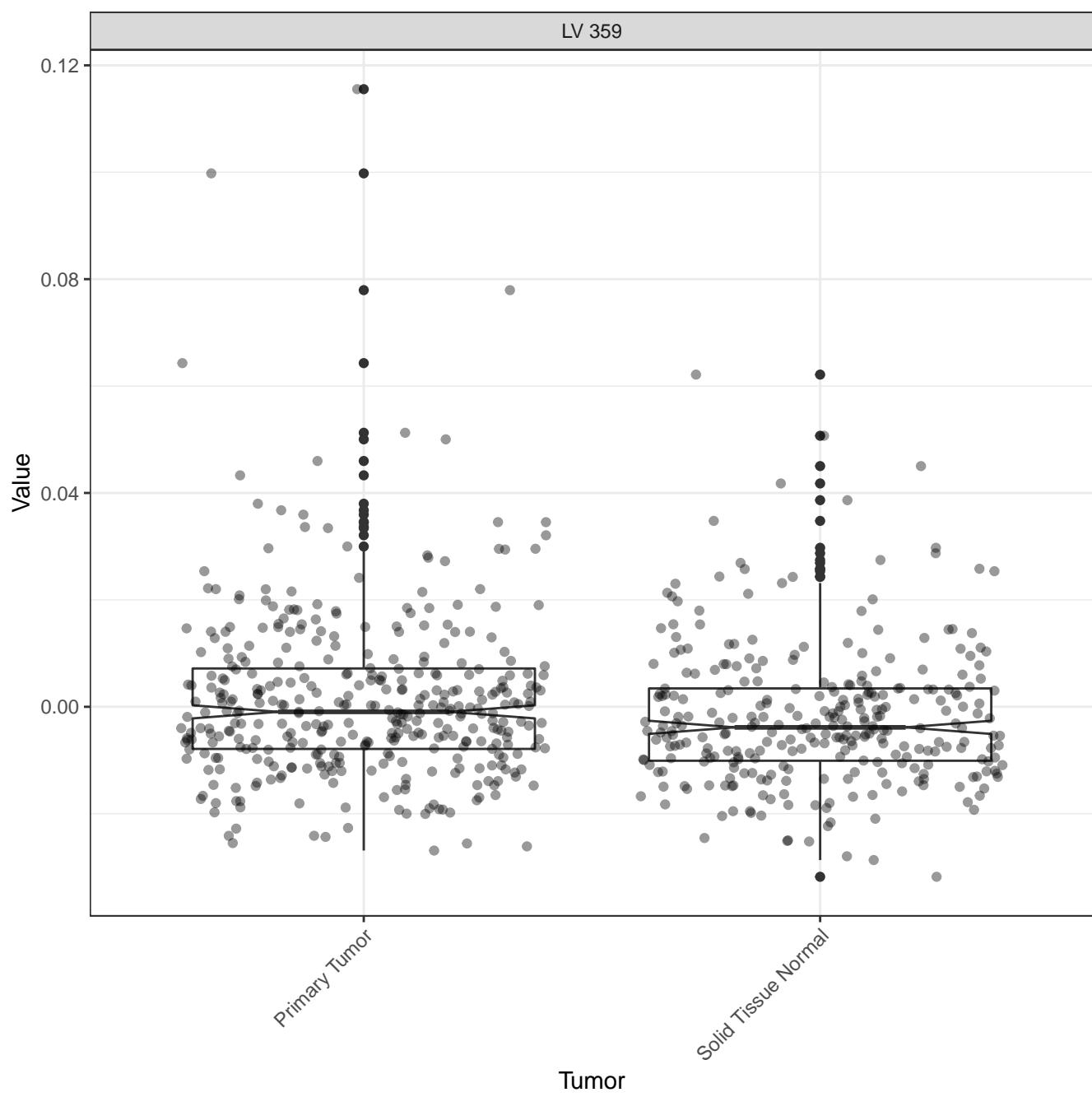
## 356,REACTOME\_DEVELOPMENTAL\_BIOLOGY



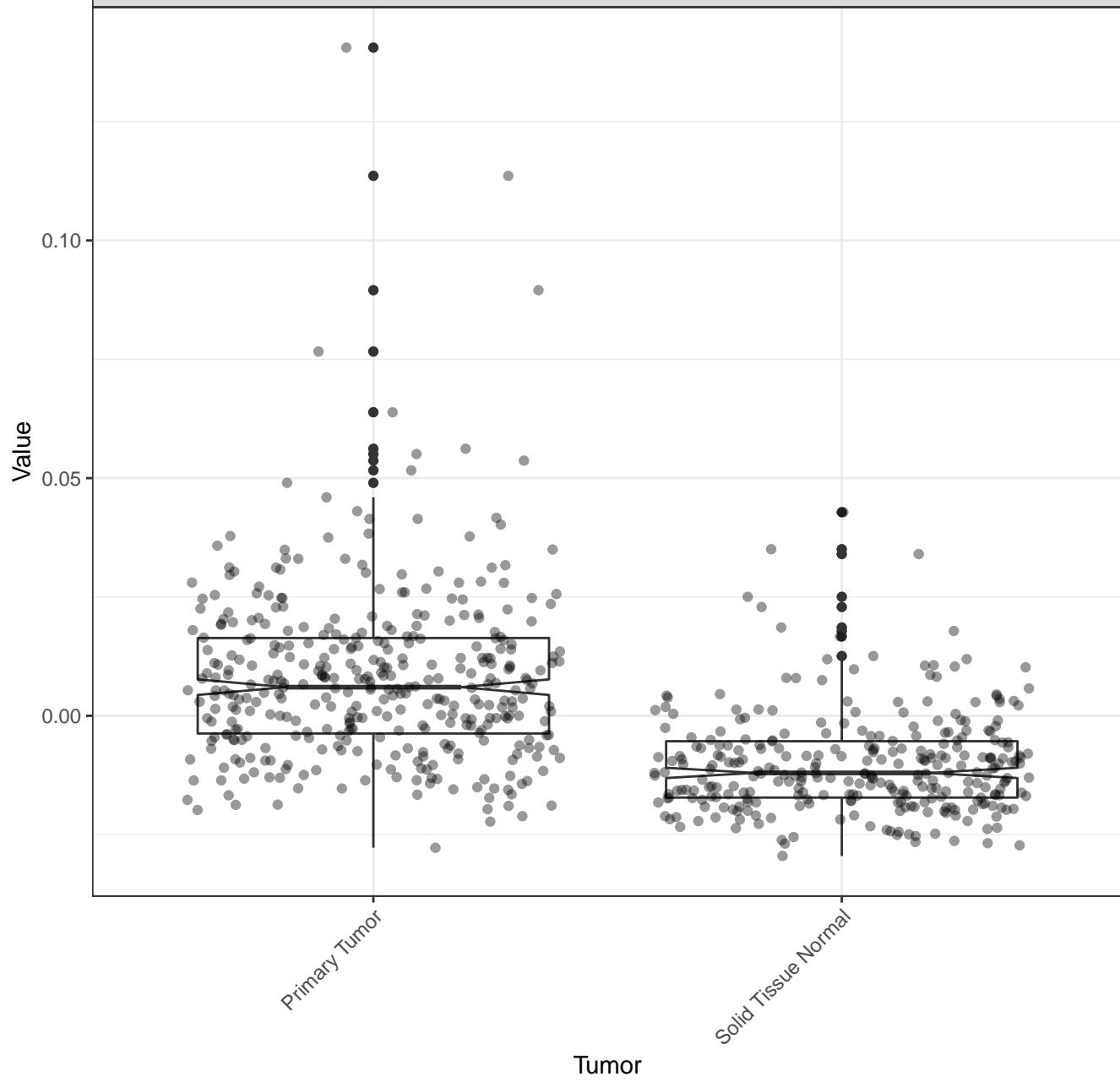




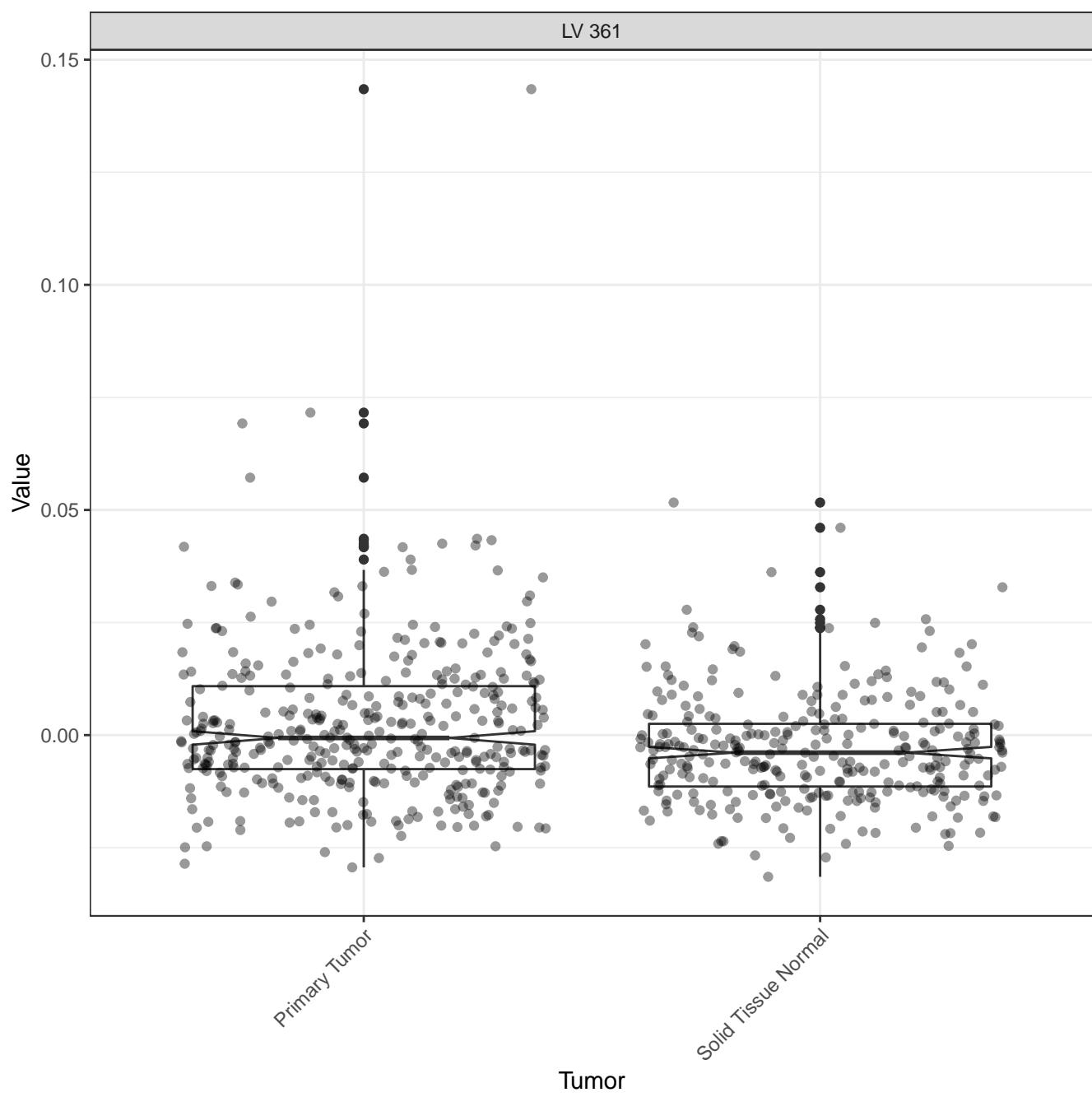
LV 359



### 360,IRIS\_DendriticCell-LPSstimulated



LV 361



LV 362

Value

0.10

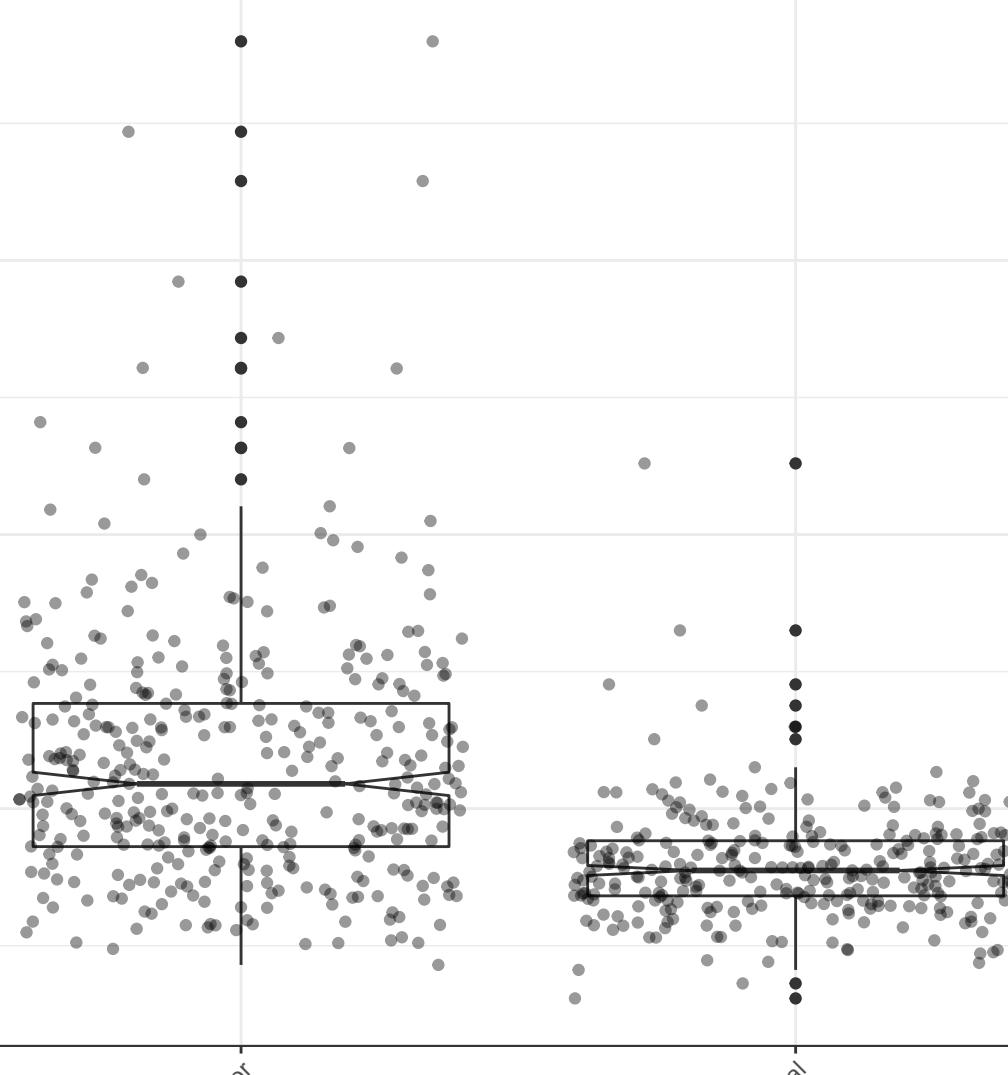
0.05

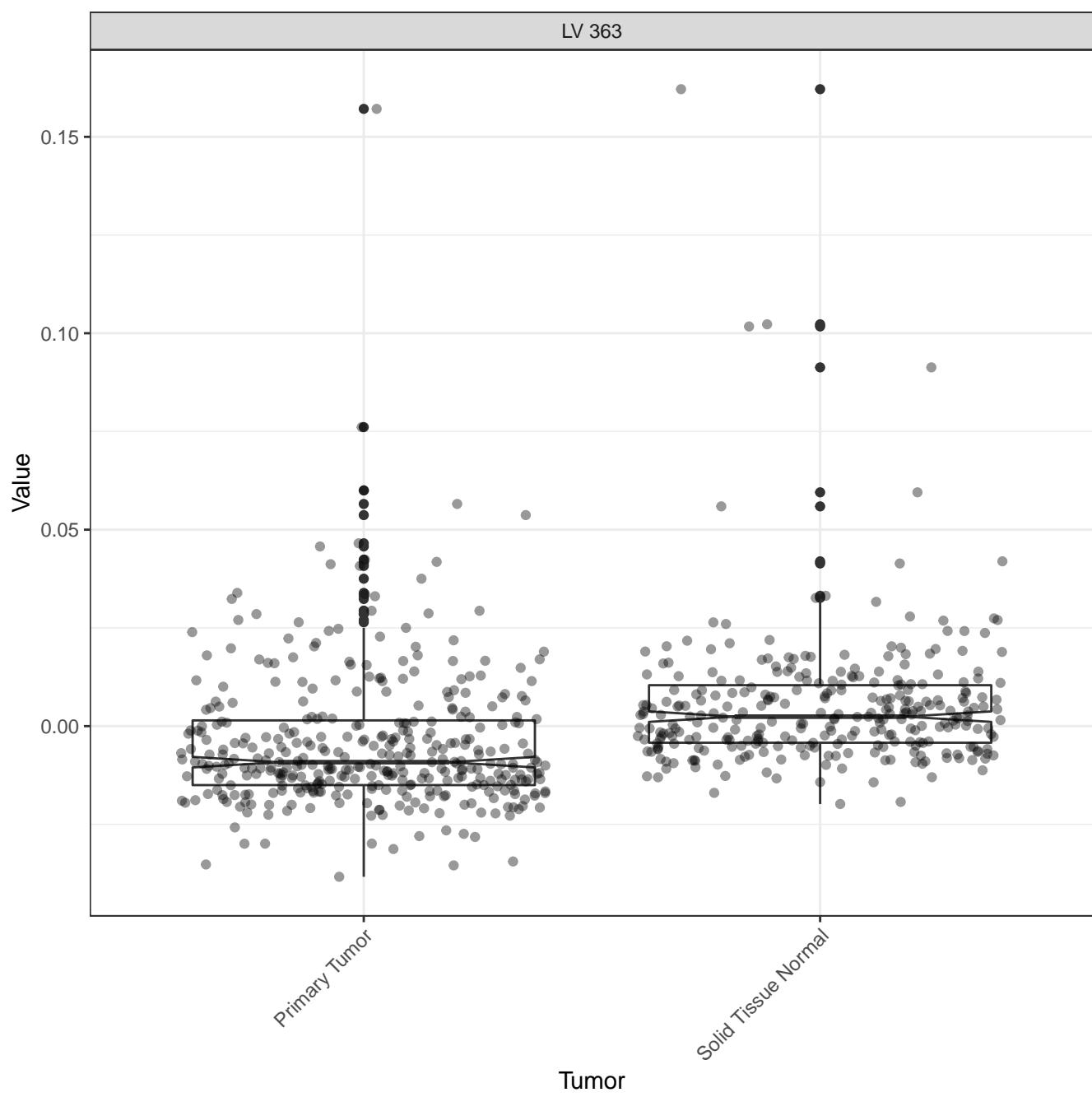
0.00

Primary Tumor

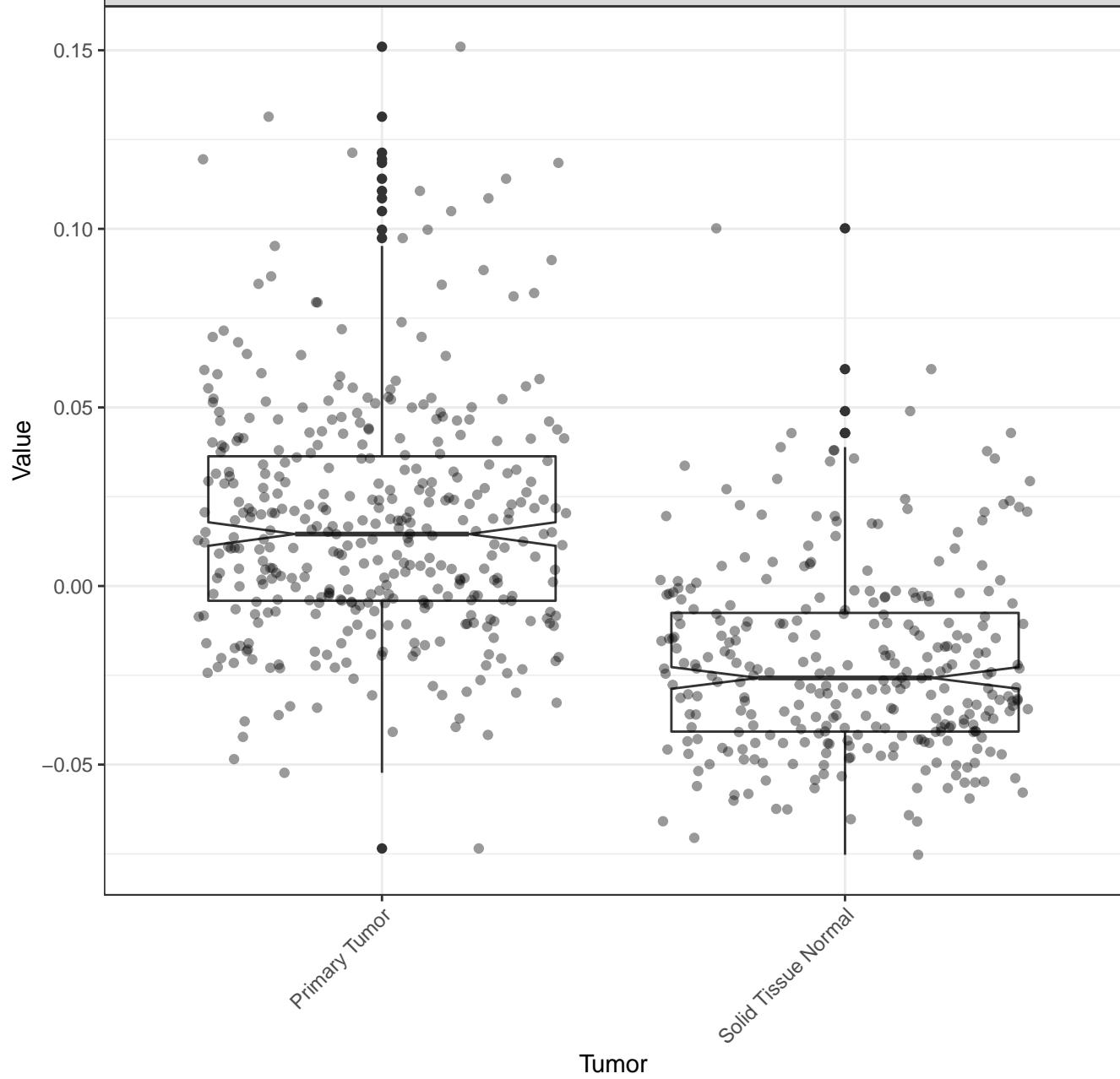
Solid Tissue Normal

Tumor

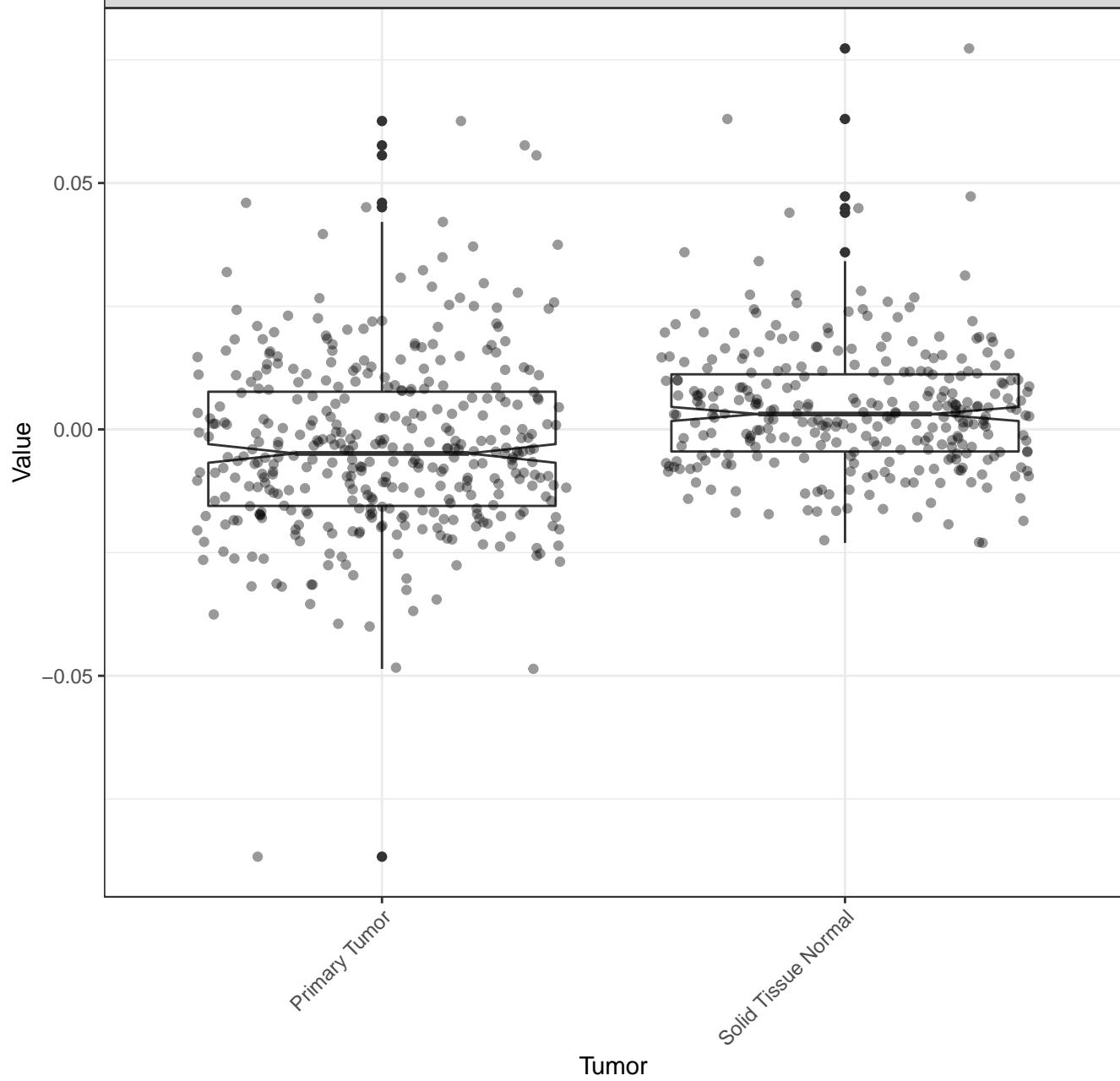




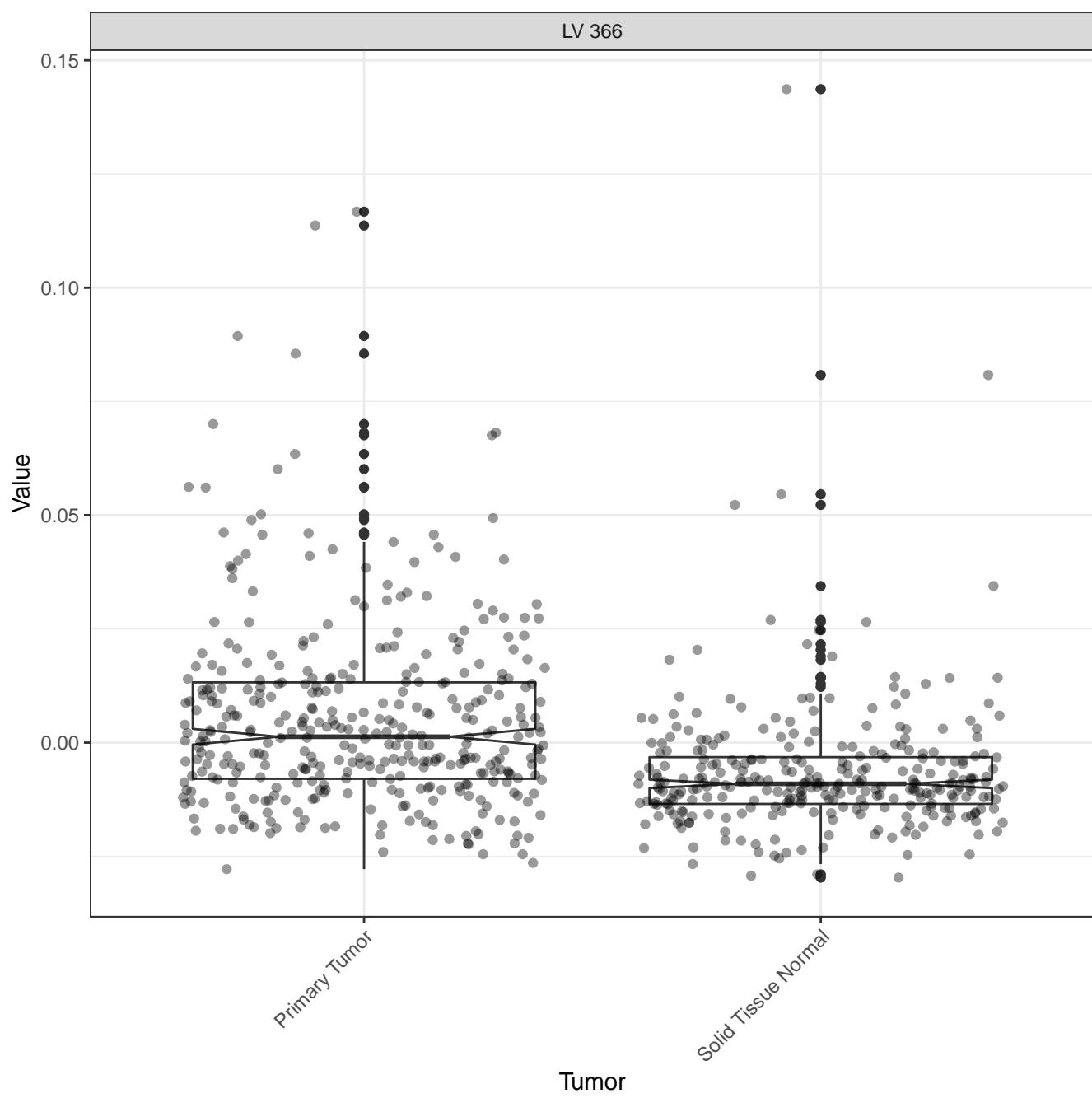
### 364,REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION

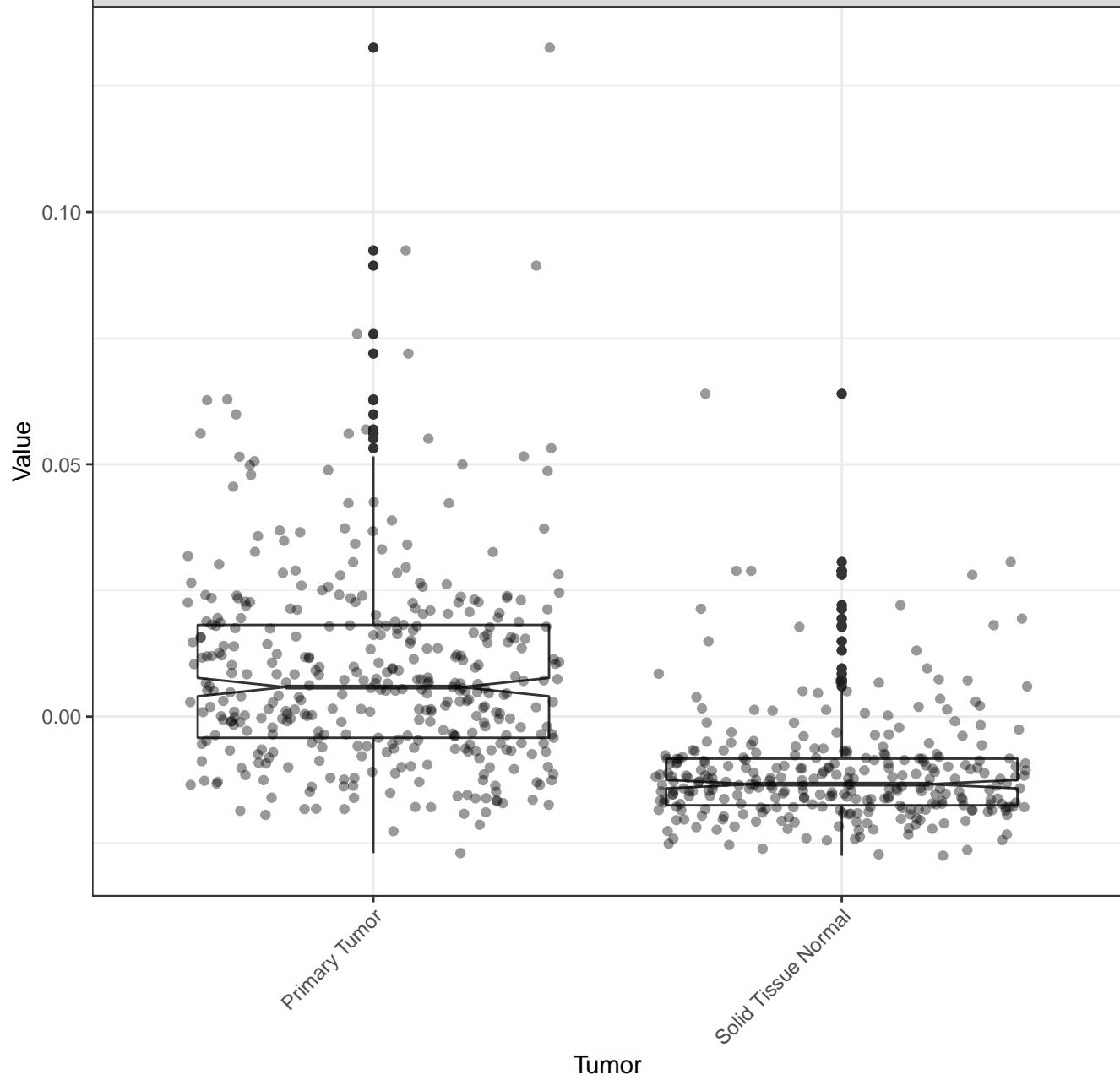


## 365,DMAP\_EOS2



LV 366





LV 368

Value

0.10

0.05

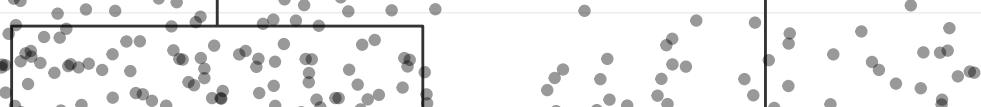
0.00

-0.05

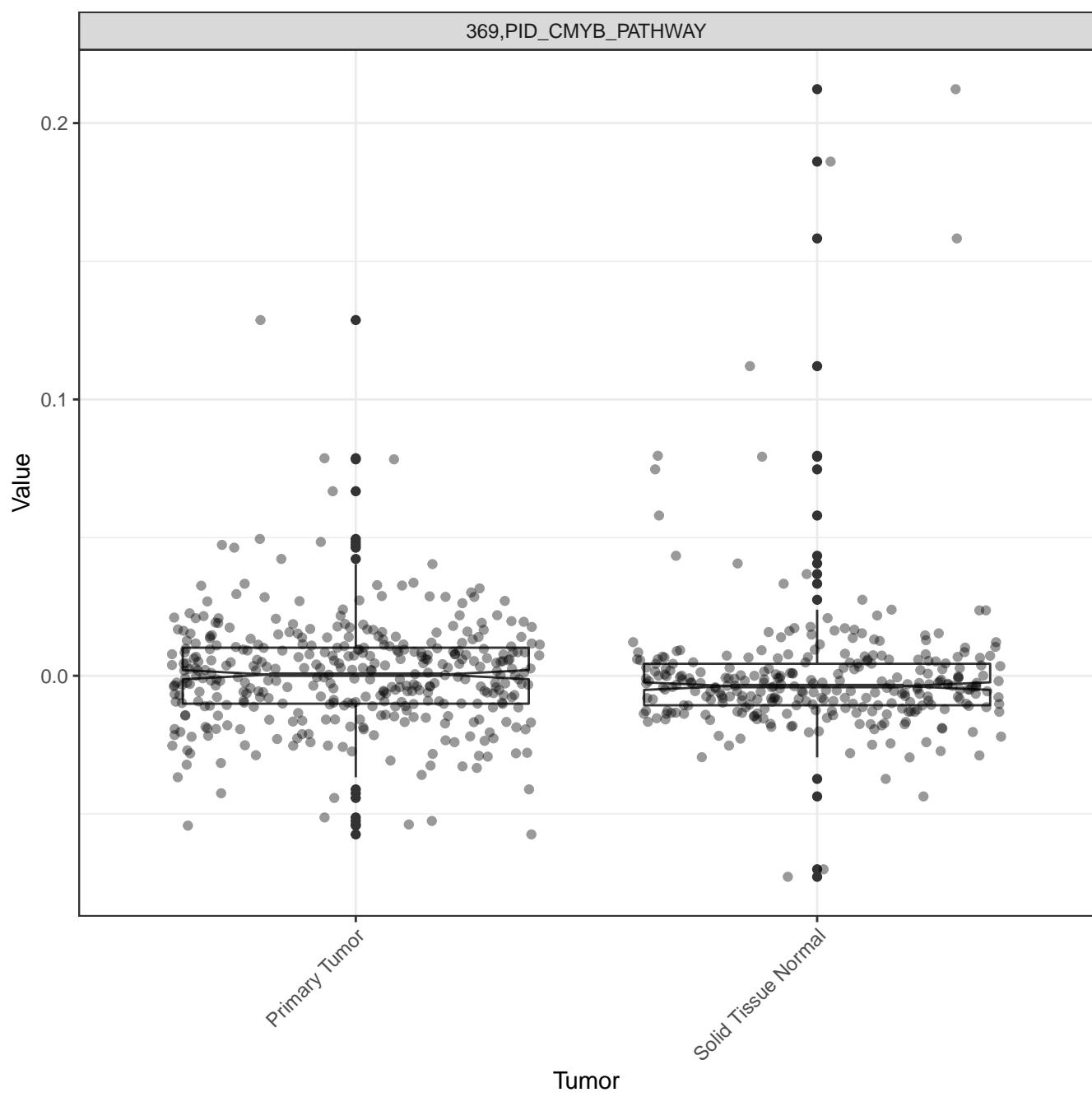
Primary Tumor

Solid Tissue Normal

Tumor



## 369,PID\_CMYB\_PATHWAY



### 370,REACTOME\_GENERIC\_TRANSSCRIPTION\_PATHWAY

Value

0.4

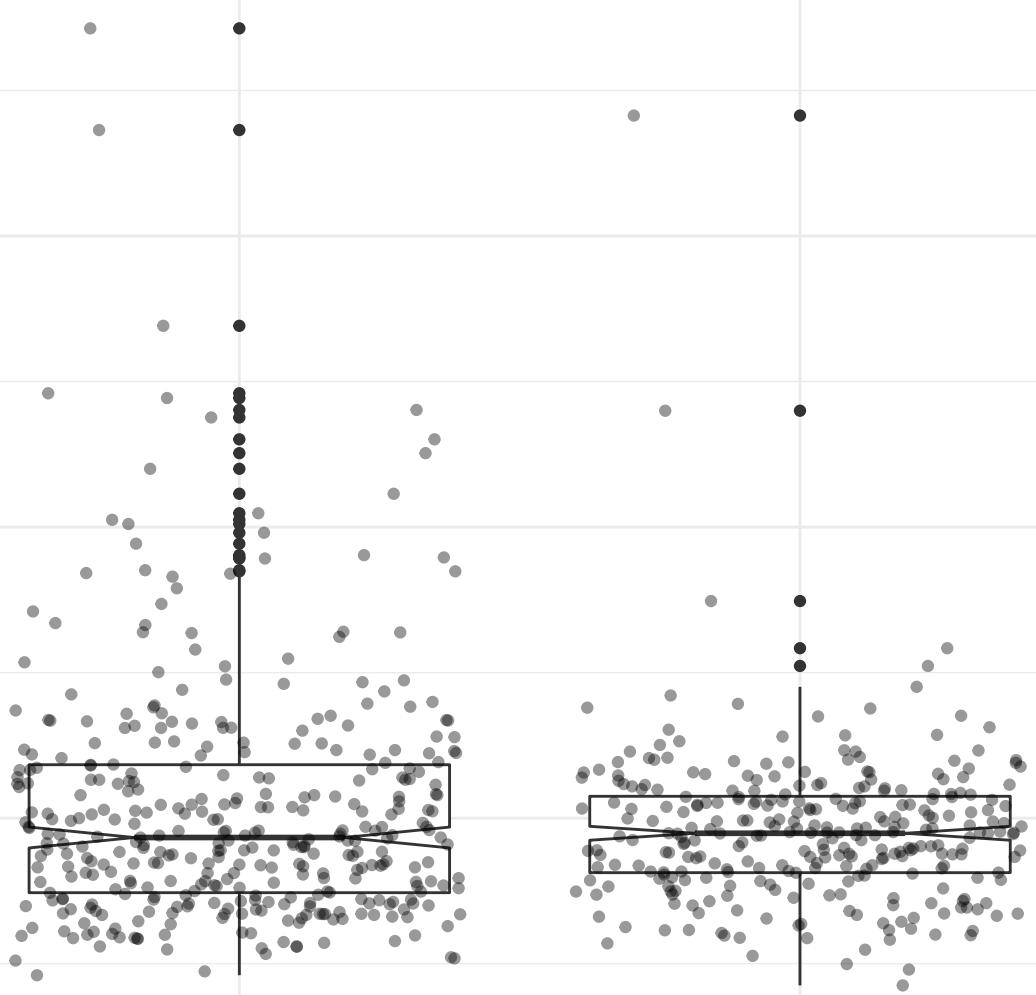
0.2

0.0

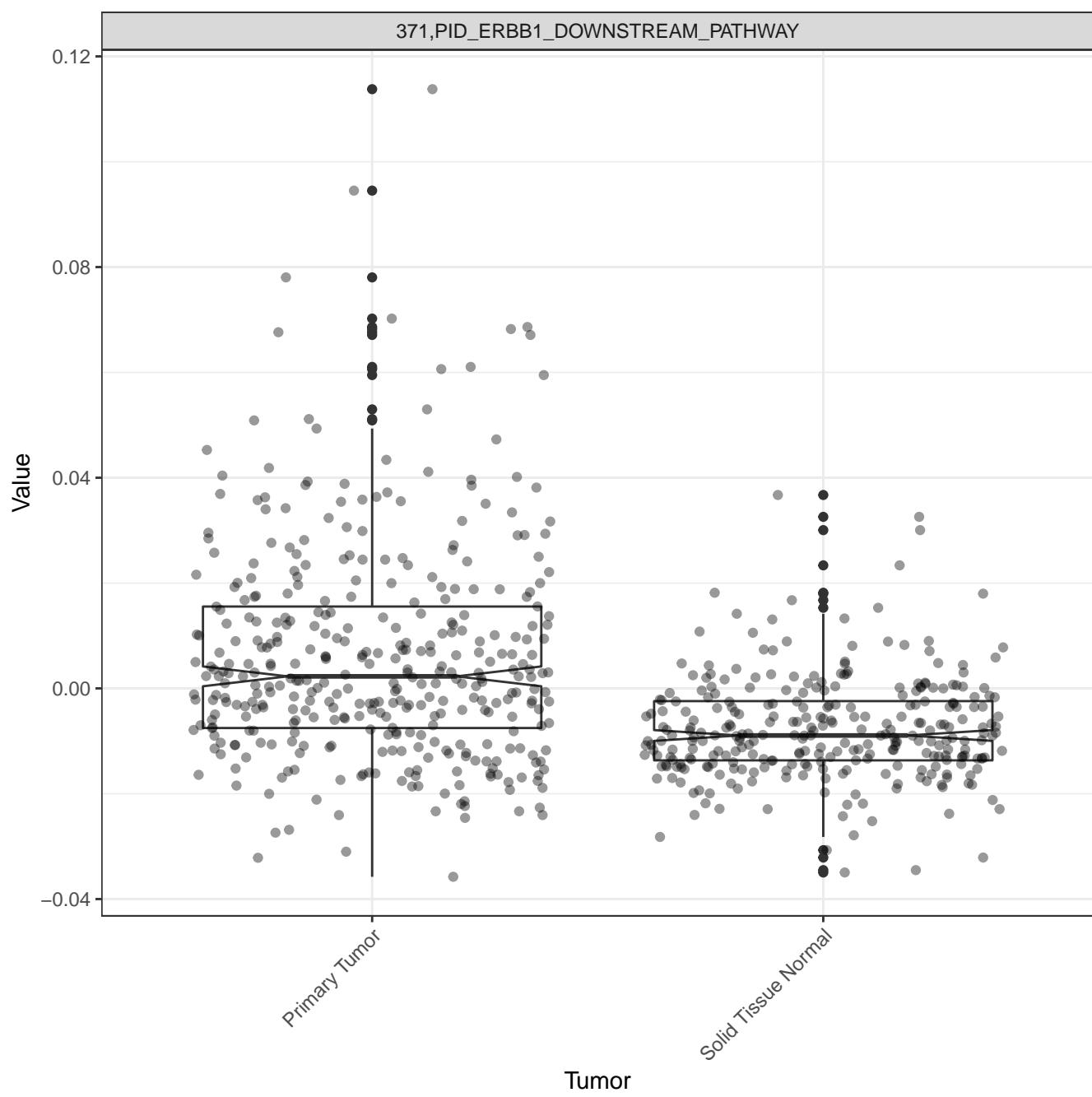
Primary Tumor

Solid Tissue Normal

Tumor



## 371,PID\_ERBB1\_DOWNSTREAM\_PATHWAY



## 372,REACTOME\_METABOLISM\_OF\_RNA

Value

0.3

0.2

0.1

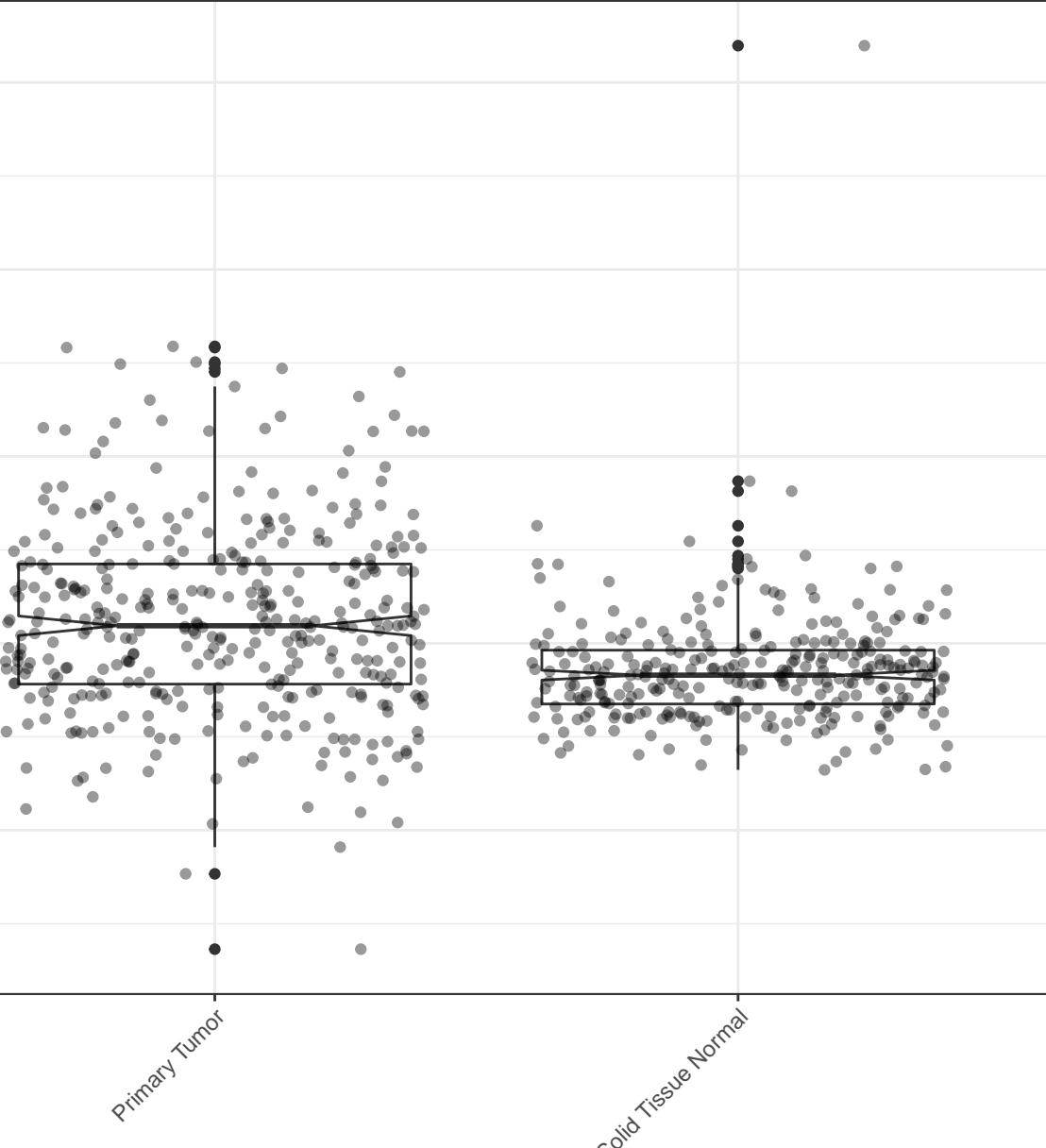
0.0

-0.1

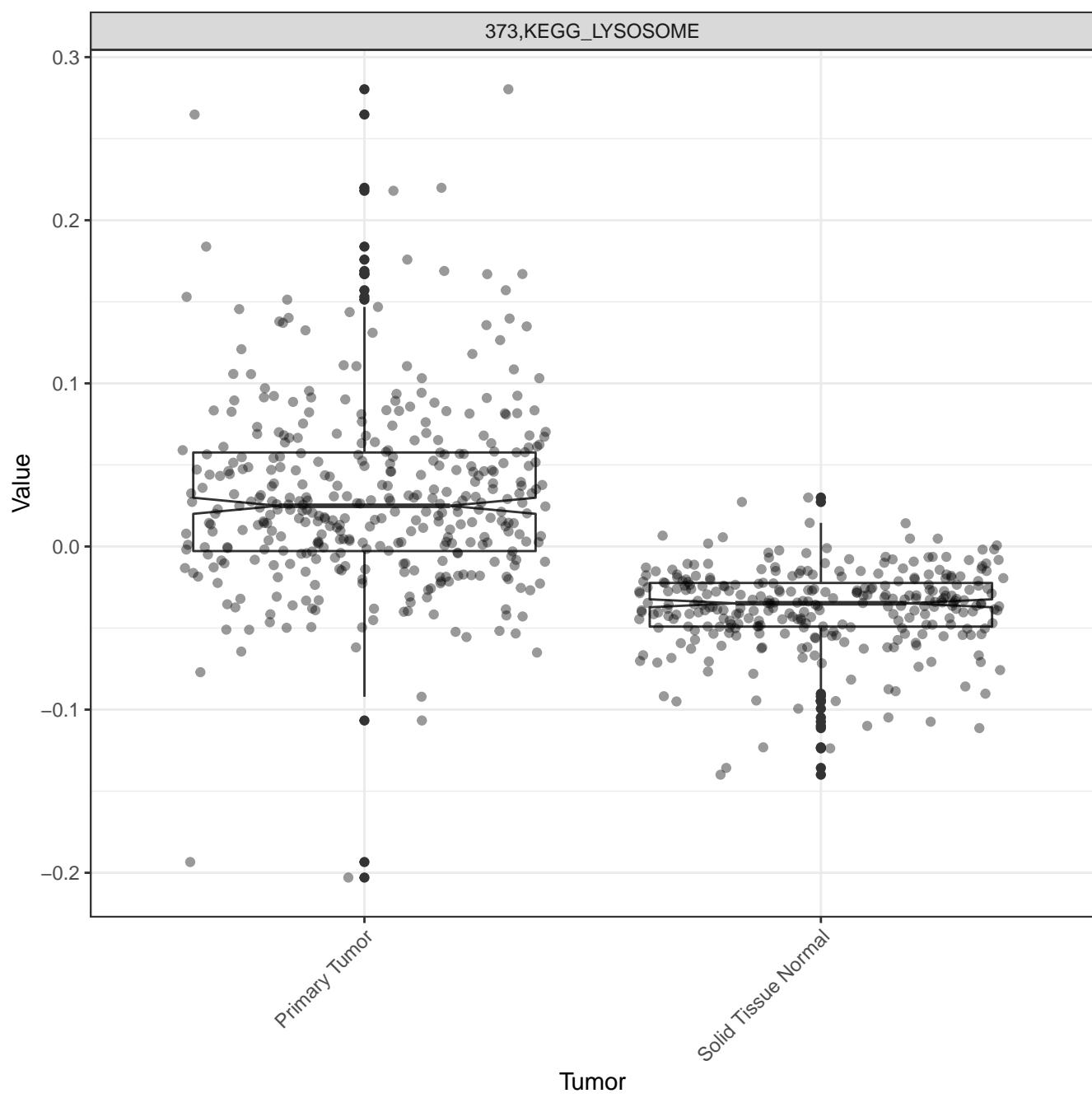
Primary Tumor

Solid Tissue Normal

Tumor

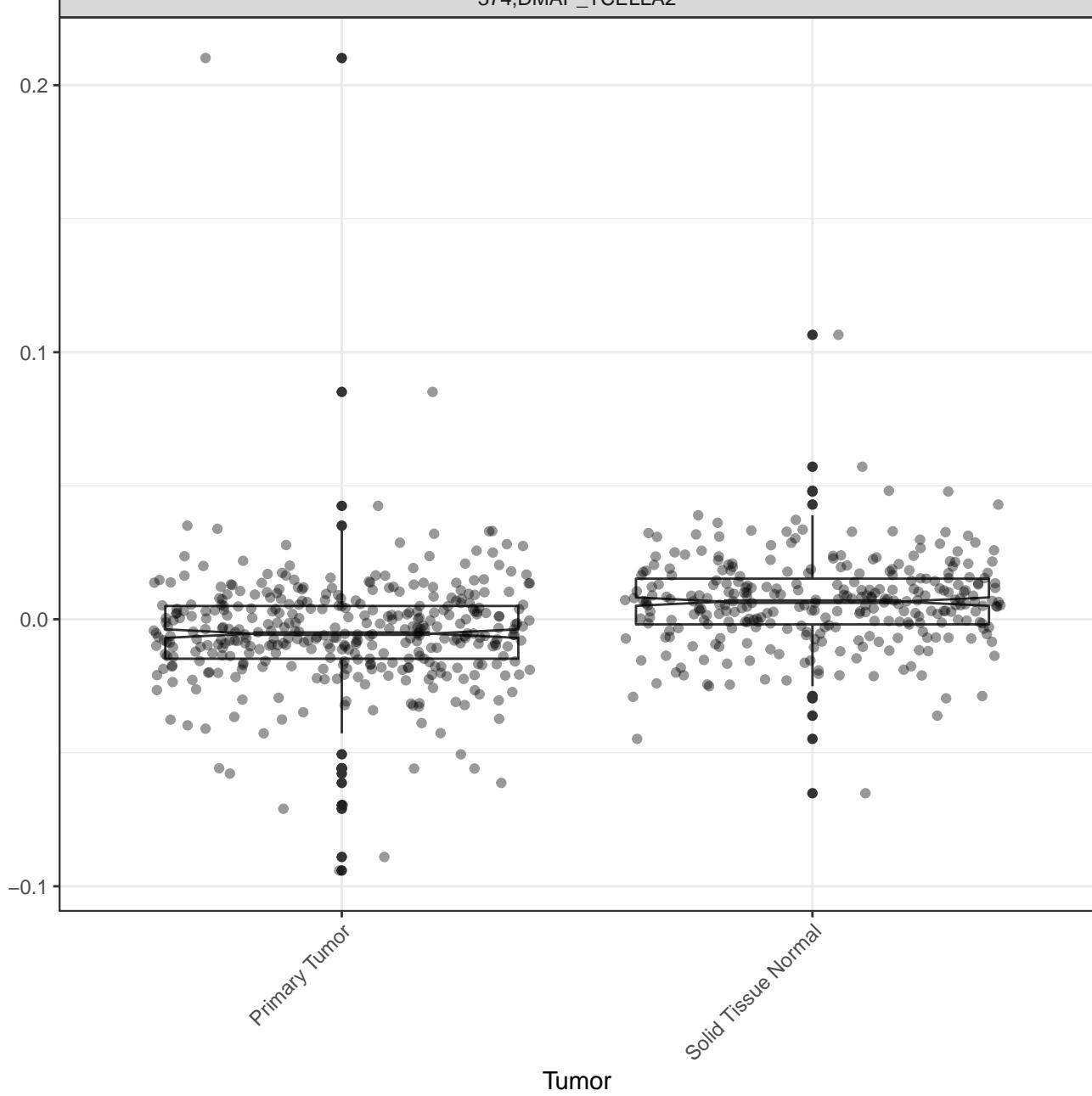


## 373,KEGG\_LYSOSOME



374,DMAP\_TCELLA2

Value



375,REACTOME\_TRANSSCRIPTION\_COUPLED\_NER\_TC\_NER

Value

0.20

0.15

0.10

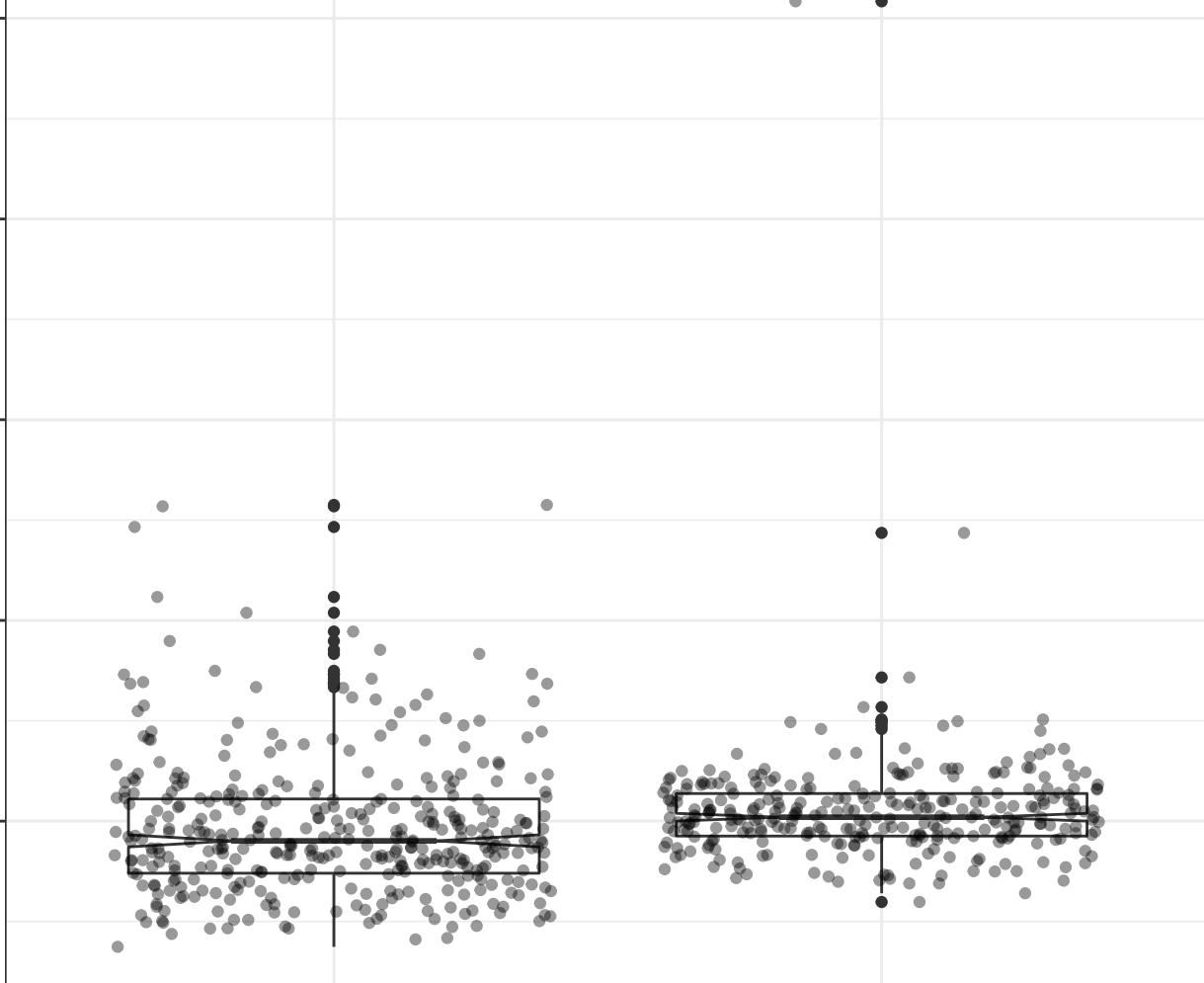
0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor



LV 376

Value

0.15

0.10

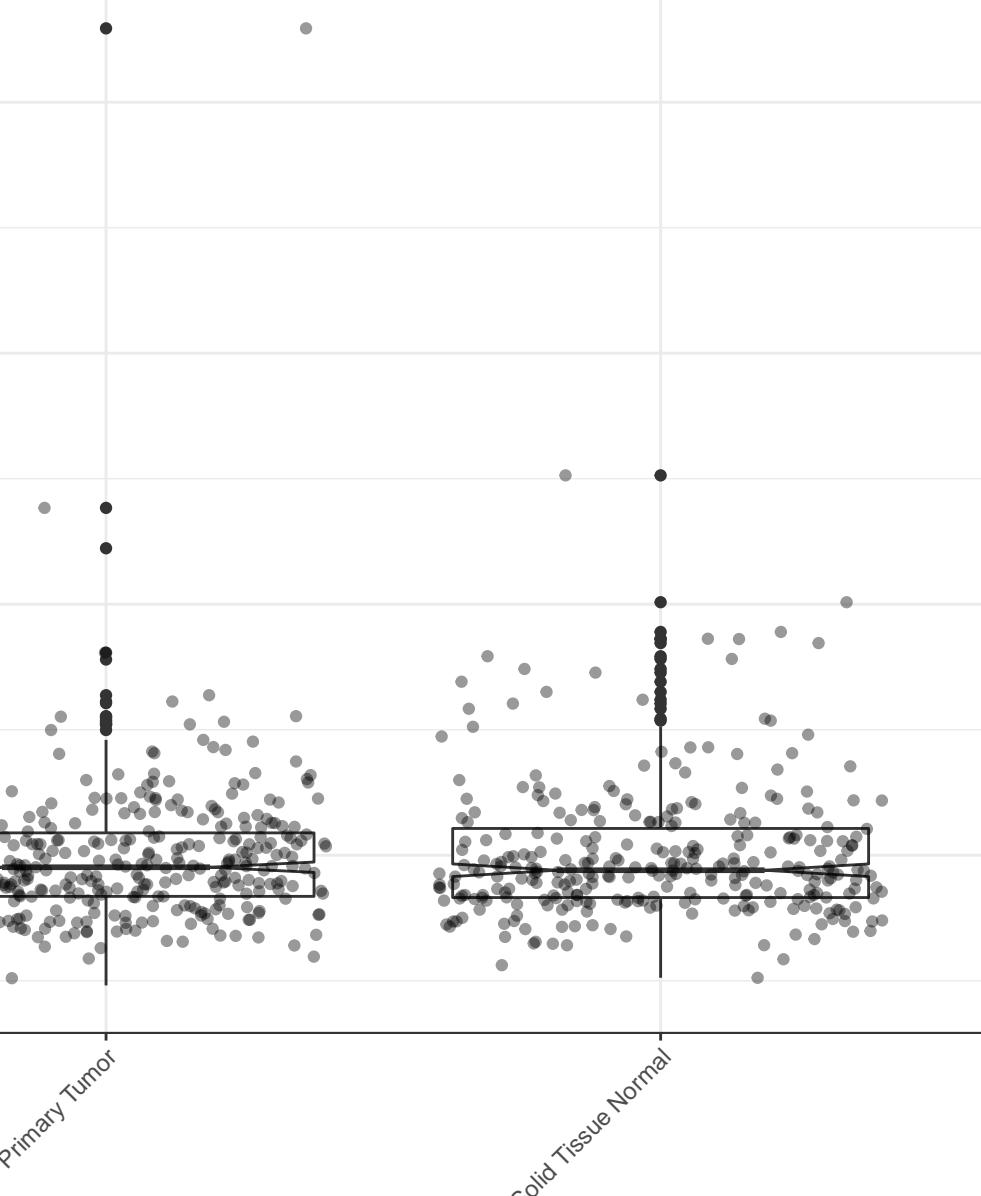
0.05

0.00

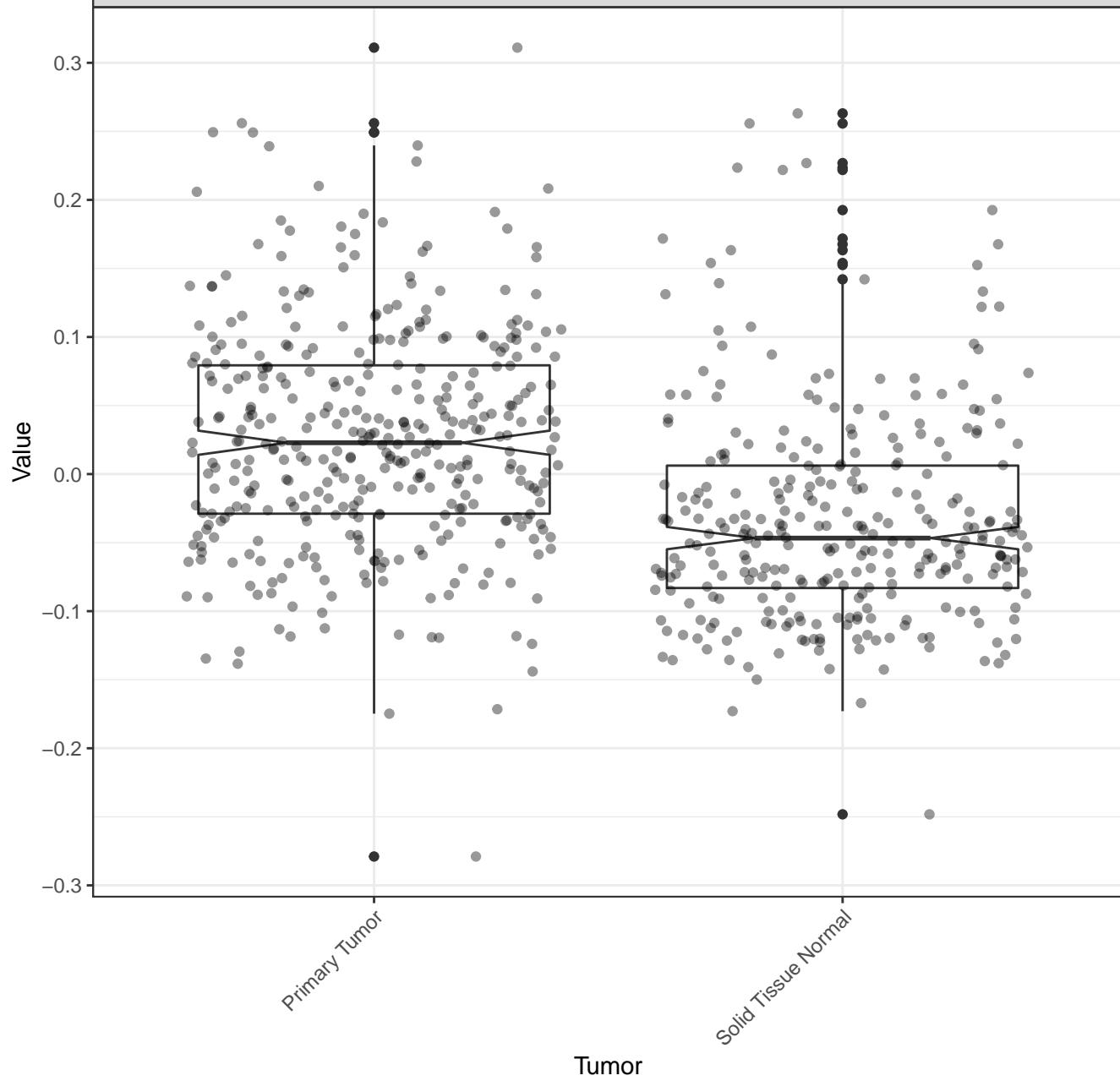
Primary Tumor

Solid Tissue Normal

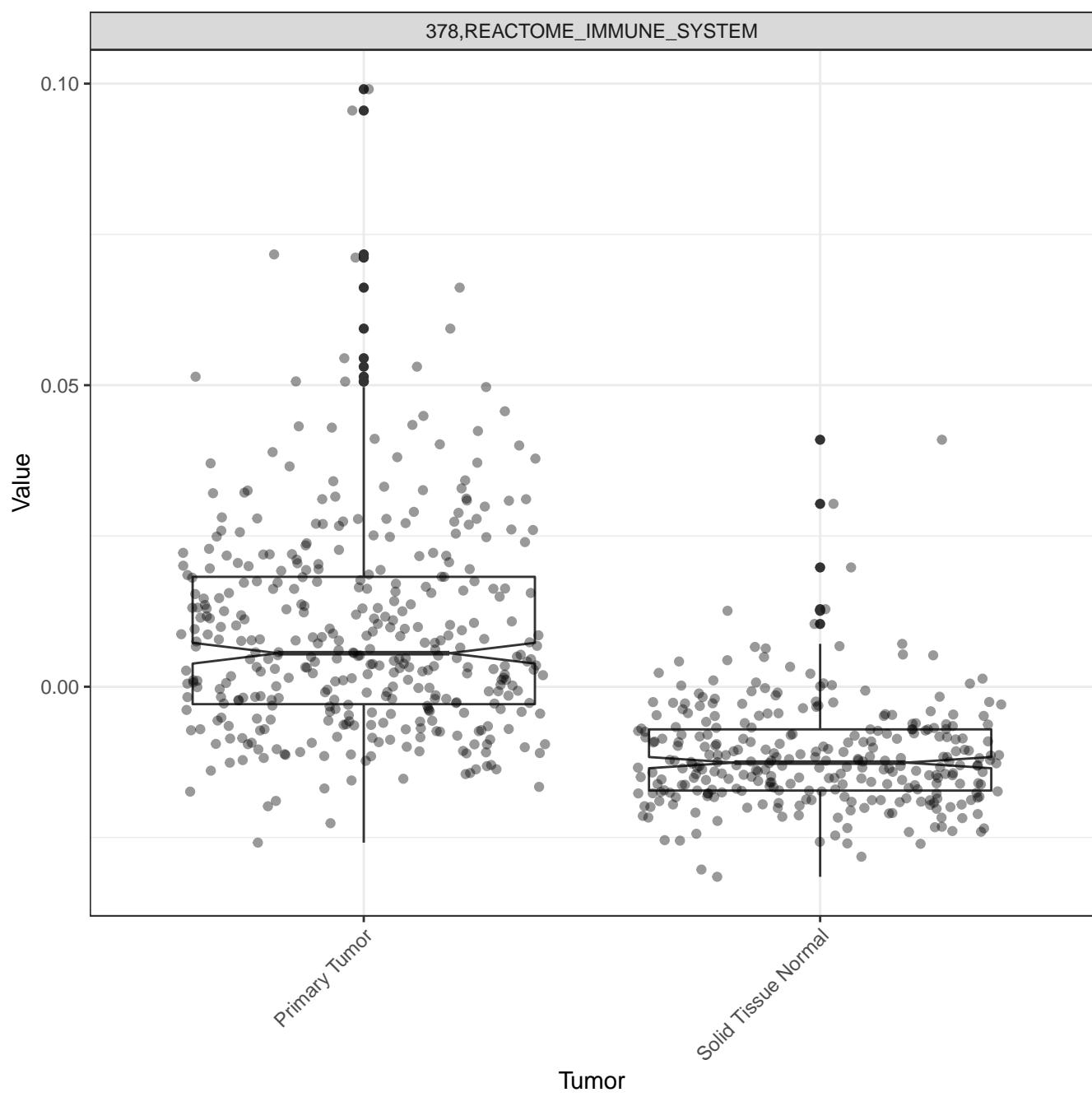
Tumor



### 377,REACTOME\_MEMBRANE\_TRAFFICKING



## 378,REACTOME\_IMMUNE\_SYSTEM



## 379,KEGG\_LYSOSOME

Value

0.10

0.05

0.00

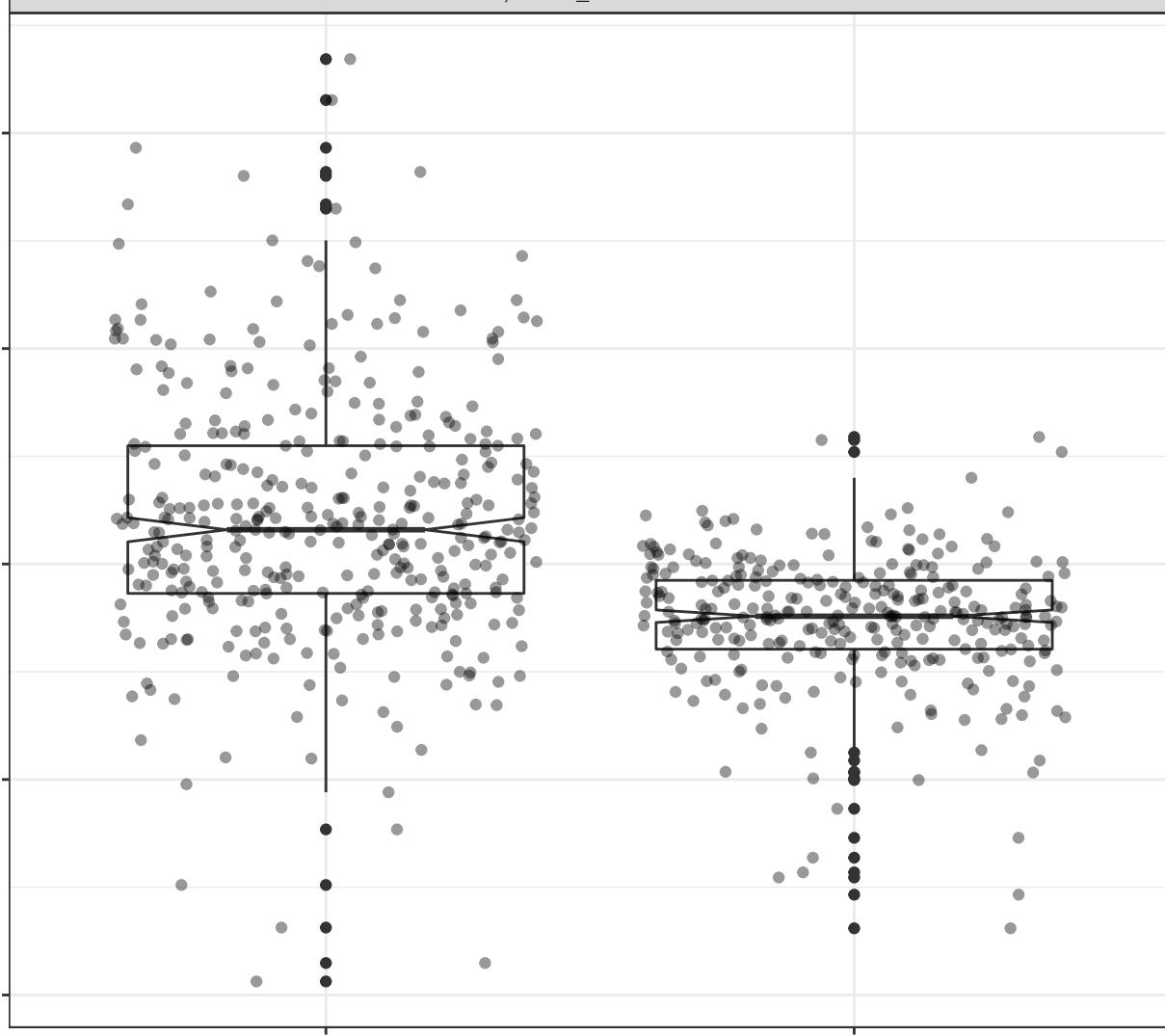
-0.05

-0.10

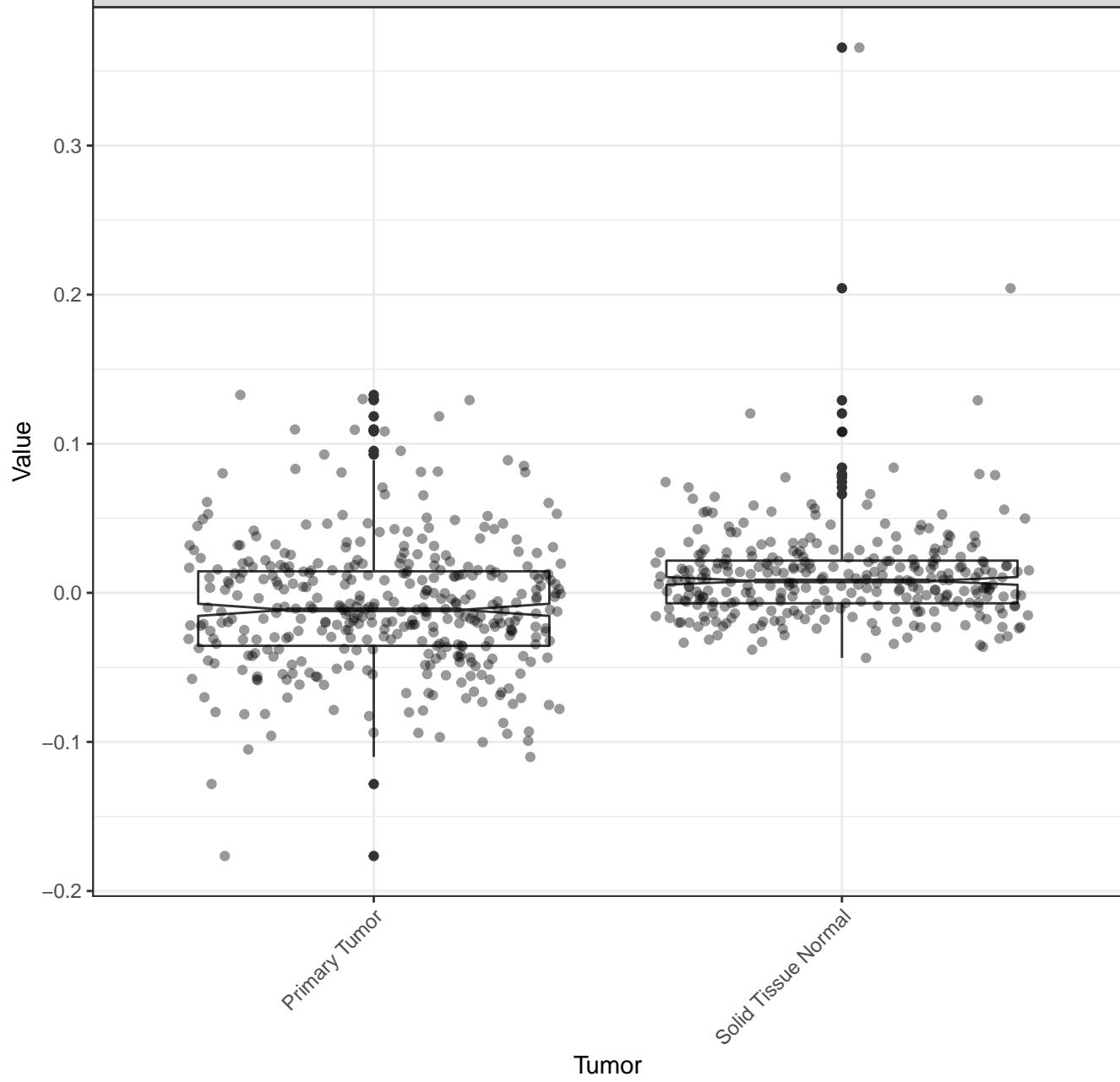
Primary Tumor

Solid Tissue Normal

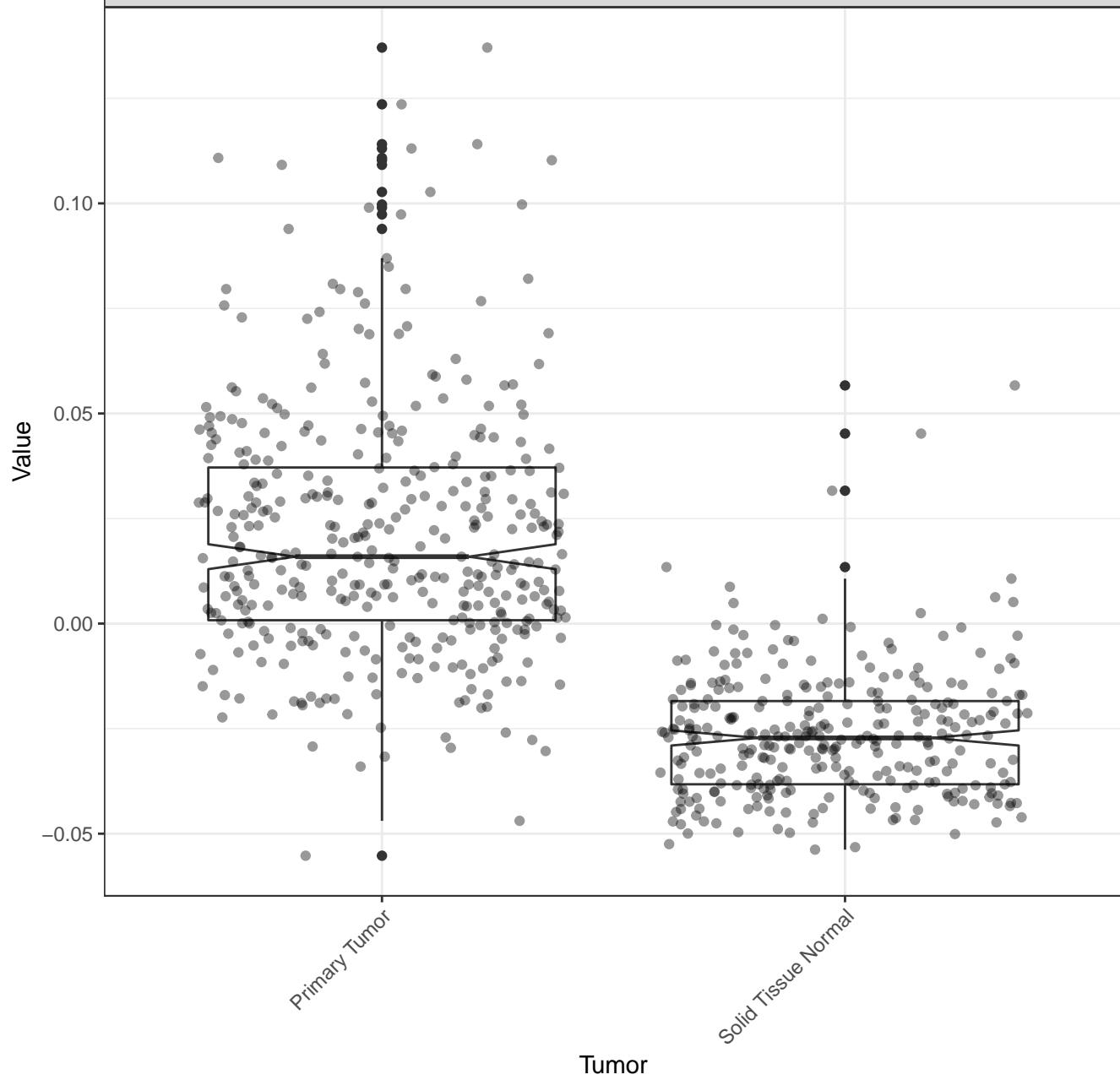
Tumor



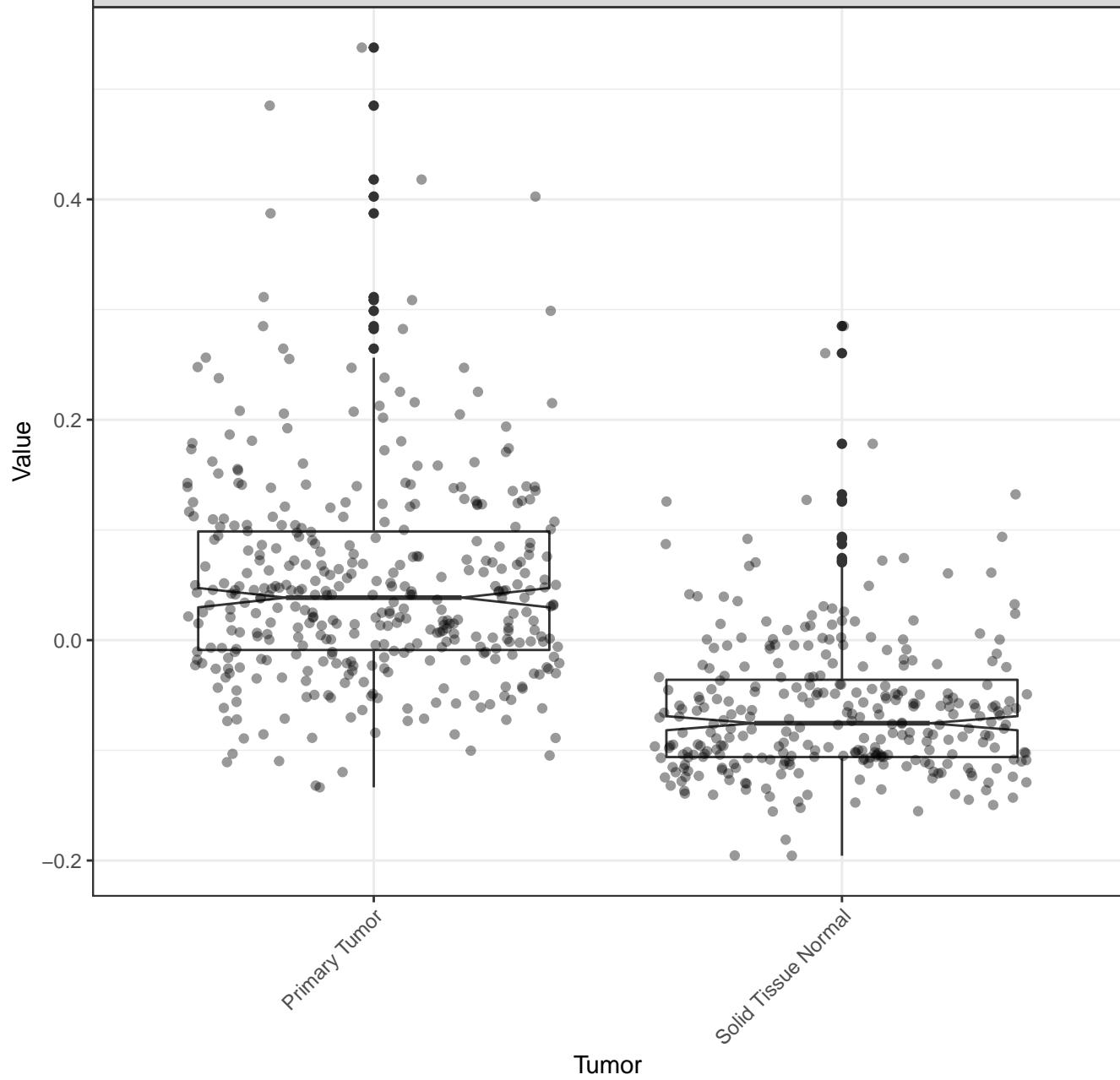
380,IRIS\_DendriticCell-LPSstimulated



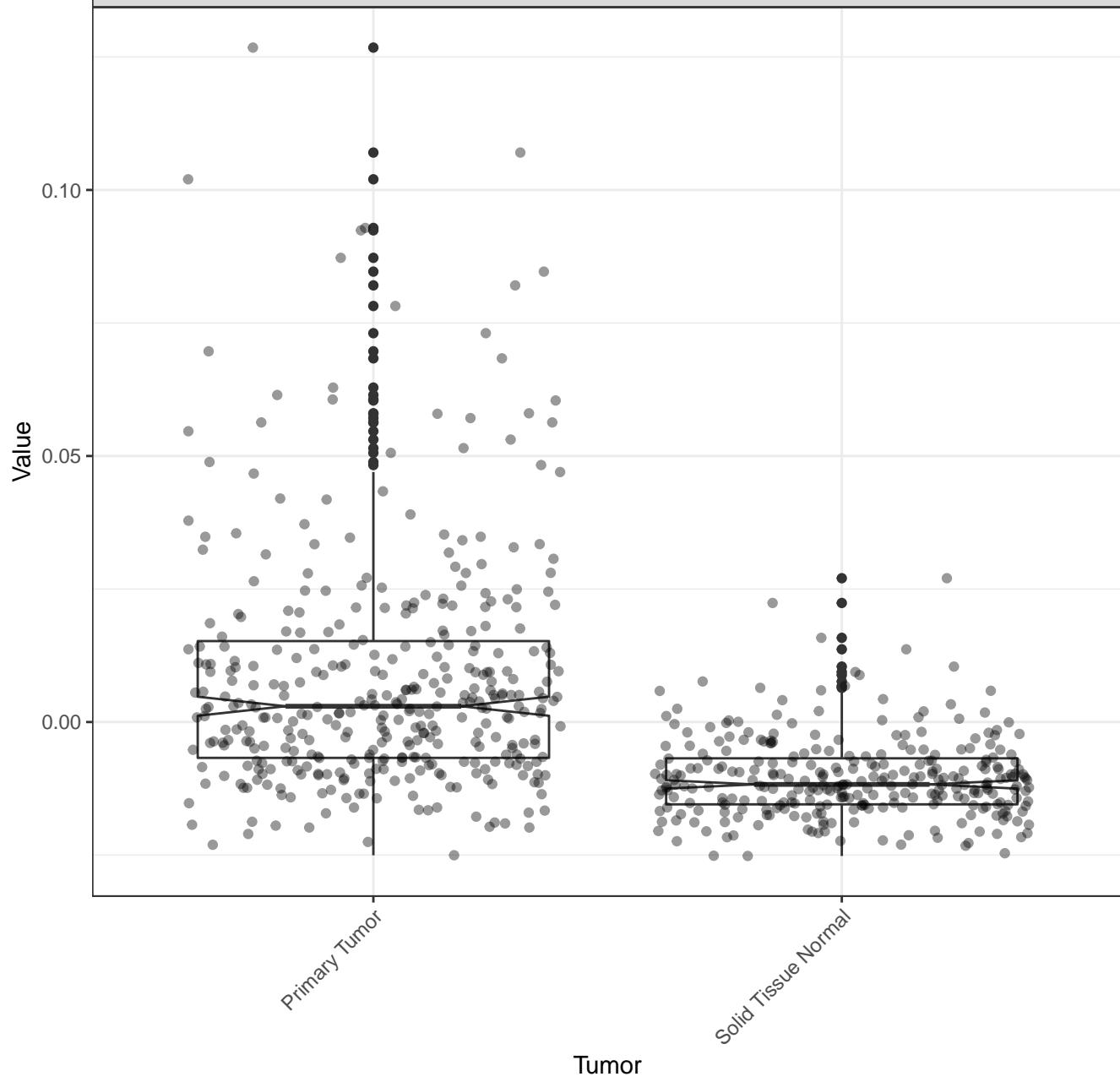
### 381,MIPS\_C\_COMPLEX\_SPLICEOSOME



## 382,REACTOME\_TRNA\_AMINOACYLATION



LV 383



## 384,PID\_INTEGRIN1\_PATHWAY

Value

0.10

0.05

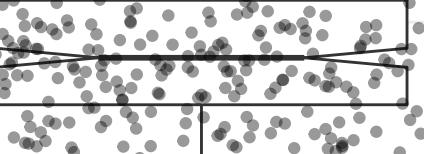
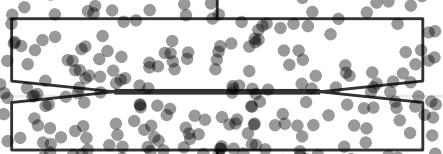
0.00

-0.05

Primary Tumor

Solid Tissue Normal

Tumor



Value

0.10

0.05

0.00

Primary Tumor

Solid Tissue Normal

Tumor

