

# Visualization of interesting genes

## Basic informations about dataset

### Expression

Variables	Samples	LumA	other
20503	736	359	377

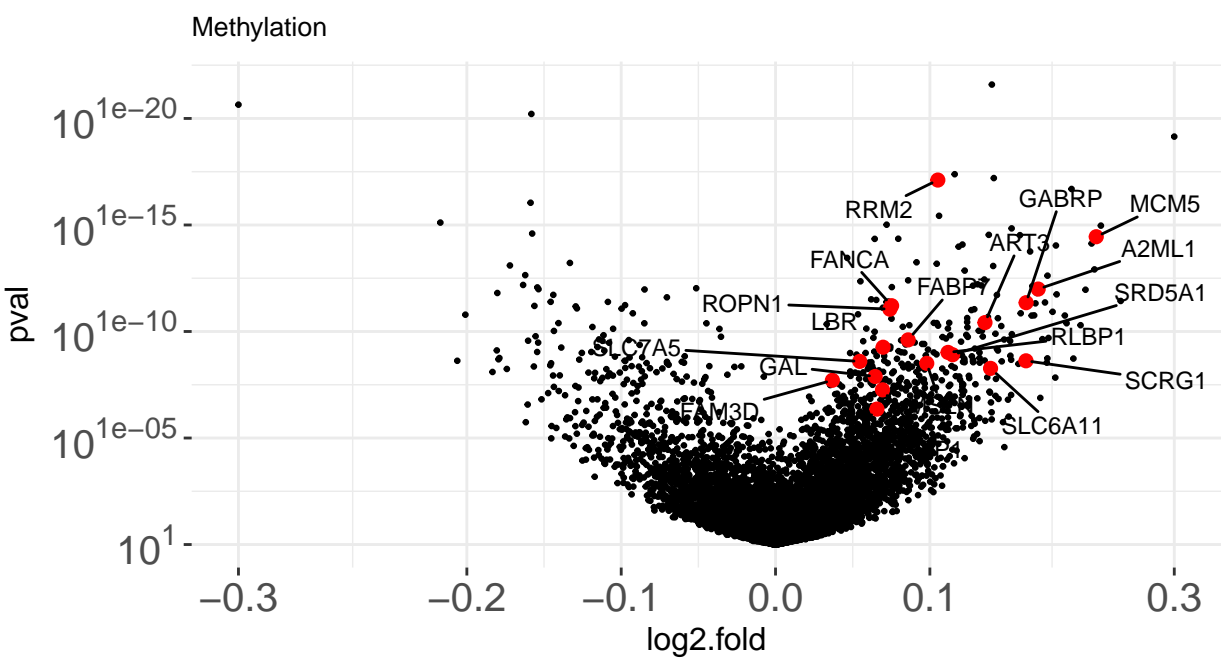
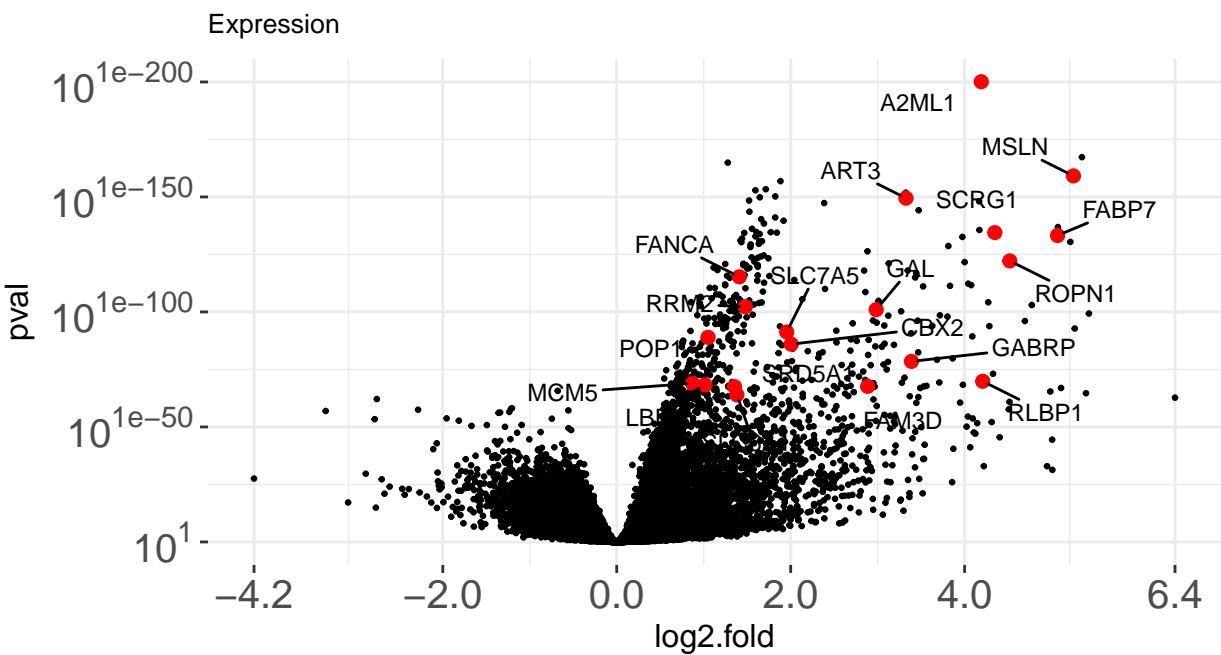
### Methylation

Variables	Samples	LumA	other
24981	292	139	153

Chosen genes with small p-values for expression and methylation:

A2ML1  
MSLN  
ART3  
SCRG1  
FABP7  
ROPN1  
FANCA  
RRM2  
GAL  
SLC7A5  
POP1  
CBX2  
GABRP  
RLBP1  
MCM5  
LBR  
FAM3D  
SRD5A1  
SLC6A11

# Volcanoplots



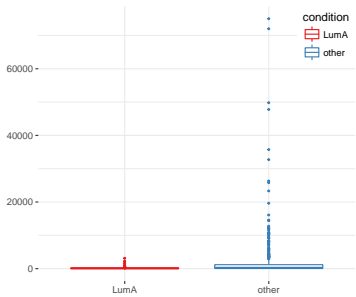
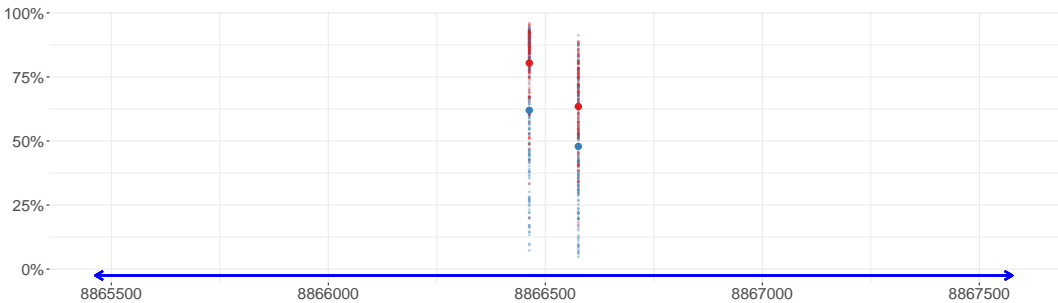
Methylation paths

A2ML1

Expression (cpm)							
	min	1st Q	med	mean	3rd Q	max	count
LumA	19.3	74.5	95.8	142.9	136.5	3122.2	359
other	26.6	93.4	215	2516.4	1186.2	75020.3	377

Methylation							
	min	1st Q	med	mean	3rd Q	max	count
LumA	0.2	0.7	0.8	0.7	0.8	0.9	139
other	0.1	0.4	0.5	0.5	0.8	0.9	153

A2ML1

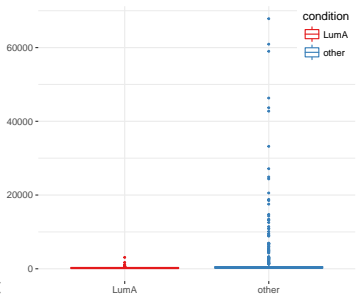
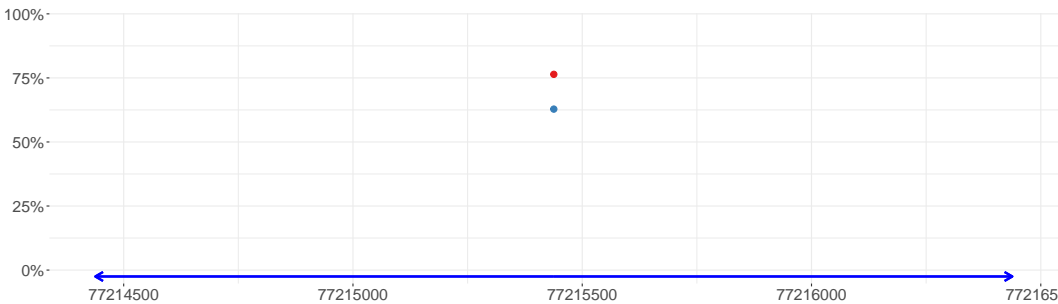


ART3

Expression (cpm)							
	min	1st Q	med	mean	3rd Q	max	count
LumA	54.9	154.9	201.9	238.9	272.5	3089.2	359
other	62.7	152.9	241.1	2425	597.8	67834.8	377

Methylation							
	min	1st Q	med	mean	3rd Q	max	count
LumA	0.3	0.7	0.8	0.8	0.8	0.9	139
other	0.1	0.5	0.7	0.6	0.8	0.9	153

ART3



CBX2

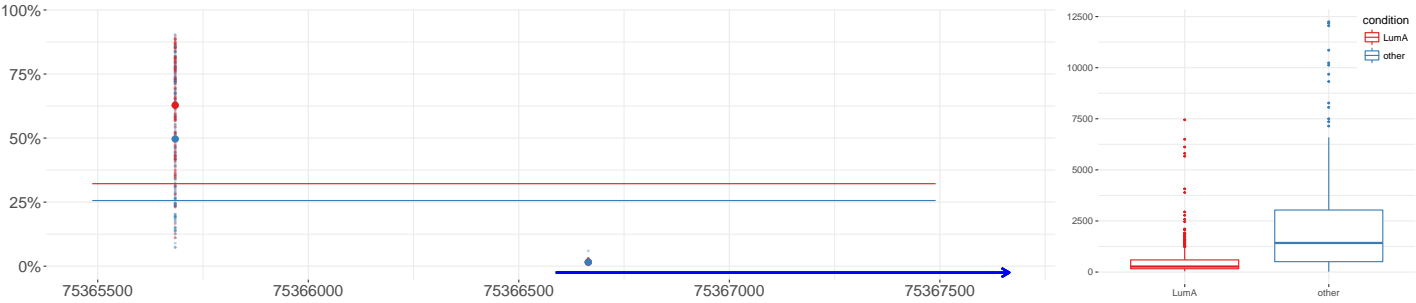
Expression (cpm)

	min	1st Q	med	mean	3rd Q	max	count
LumA	38.2	162.1	269.4	557.1	594.5	7450.1	359
other	19.1	508.7	1423.8	2122.1	3035.4	12243.5	377

Methylation

	min	1st Q	med	mean	3rd Q	max	count
LumA	0.1	0.2	0.3	0.3	0.4	0.5	139
other	0	0.1	0.3	0.3	0.4	0.5	153

CBX2



FABP7

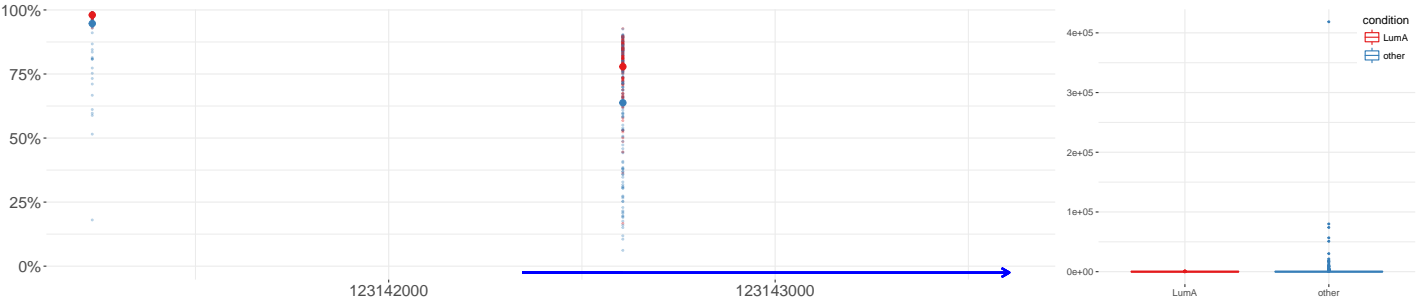
Expression (cpm)

	min	1st Q	med	mean	3rd Q	max	count
LumA	0	1.5	6.5	29.3	24.7	1370.6	359
other	0	1.2	10	2624.7	168.6	418524.5	377

Methylation

	min	1st Q	med	mean	3rd Q	max	count
LumA	0.6	0.9	0.9	0.9	0.9	1	139
other	0.1	0.7	0.8	0.8	0.9	1	153

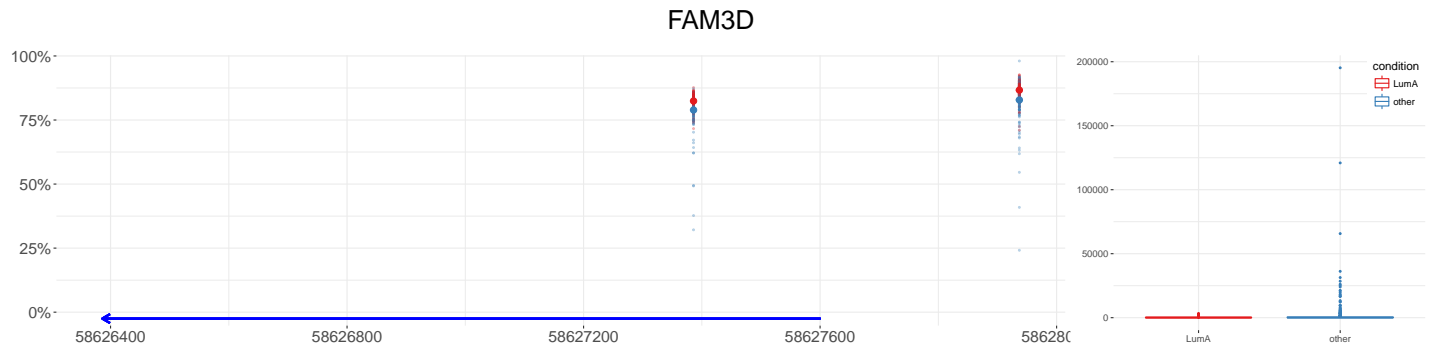
FABP7



FAM3D

Expression (cpm)							
	min	1st Q	med	mean	3rd Q	max	count
LumA	0	38	76	198.1	201.3	3308.7	359
other	0	38	95	2463.9	452.1	195244.7	377

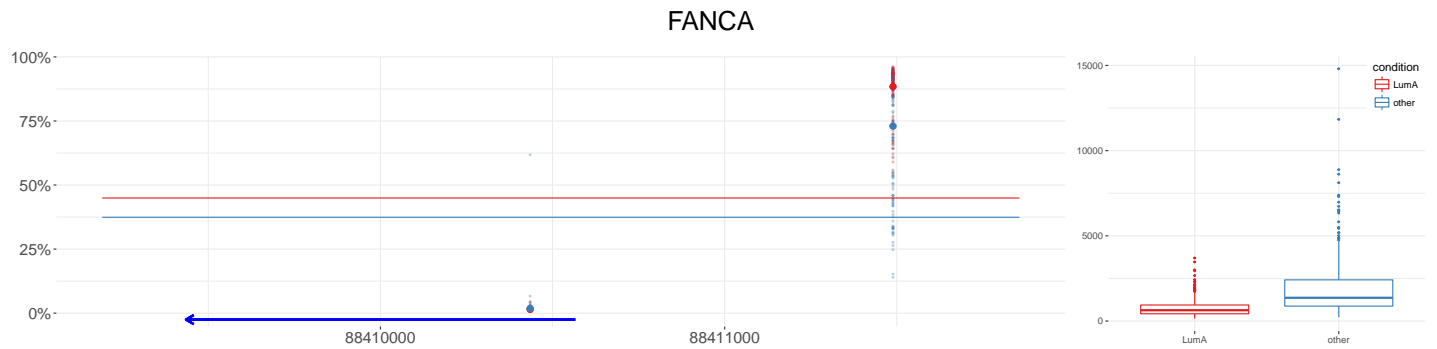
Methylation							
	min	1st Q	med	mean	3rd Q	max	count
LumA	0.7	0.8	0.8	0.8	0.9	0.9	139
other	0.5	0.8	0.8	0.8	0.8	0.9	153



FANCA

Expression (cpm)							
	min	1st Q	med	mean	3rd Q	max	count
LumA	138.9	426.3	633.2	758.8	939.9	3700.2	359
other	221.2	875.2	1363.8	1929.9	2415.8	14802.8	377

Methylation							
	min	1st Q	med	mean	3rd Q	max	count
LumA	0.2	0.4	0.5	0.4	0.5	0.5	139
other	0.1	0.3	0.4	0.4	0.5	0.7	153



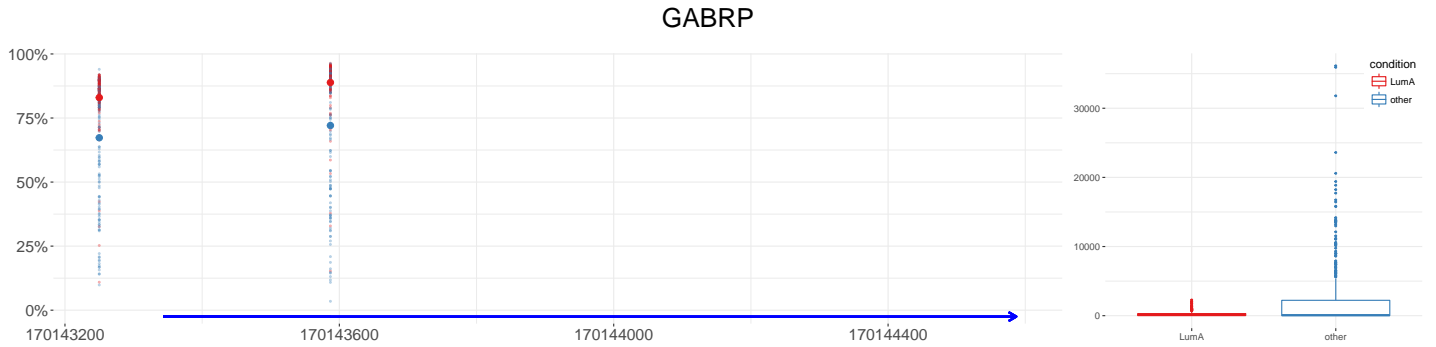
## GABRP

### Expression (cpm)

	min	1st Q	med	mean	3rd Q	max	count
LumA	0.2	23.1	100.1	223.4	300.9	2270.7	359
other	0	12.3	74.1	2439.8	2222.2	36137.8	377

### Methylation

	min	1st Q	med	mean	3rd Q	max	count
LumA	0.1	0.9	0.9	0.9	0.9	0.9	139
other	0.1	0.5	0.8	0.7	0.9	0.9	153



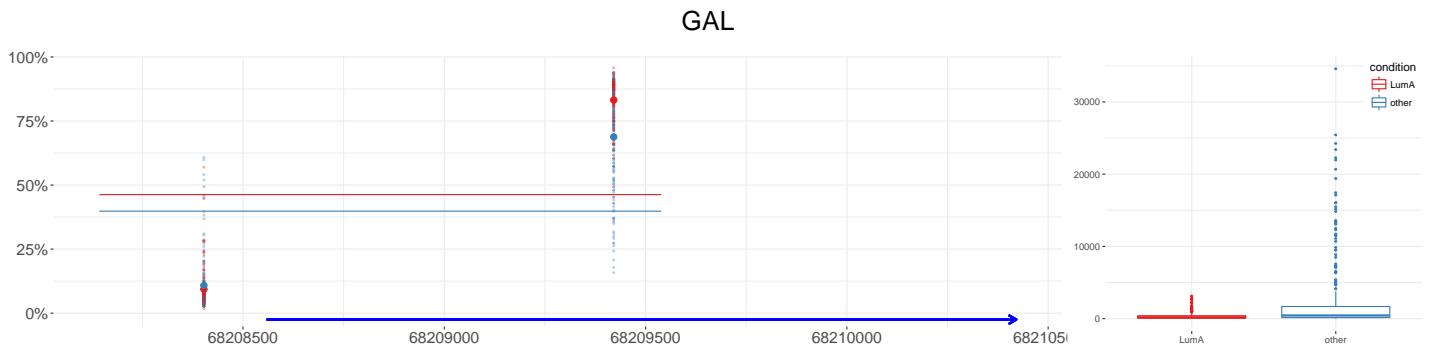
## GAL

### Expression (cpm)

	min	1st Q	med	mean	3rd Q	max	count
LumA	0	69.3	181.2	321.9	405	3123.1	359
other	0	149.2	442.4	2346	1684.1	34583.5	377

### Methylation

	min	1st Q	med	mean	3rd Q	max	count
LumA	0.2	0.4	0.5	0.5	0.5	0.7	139
other	0.1	0.3	0.4	0.4	0.5	0.7	153



LBR

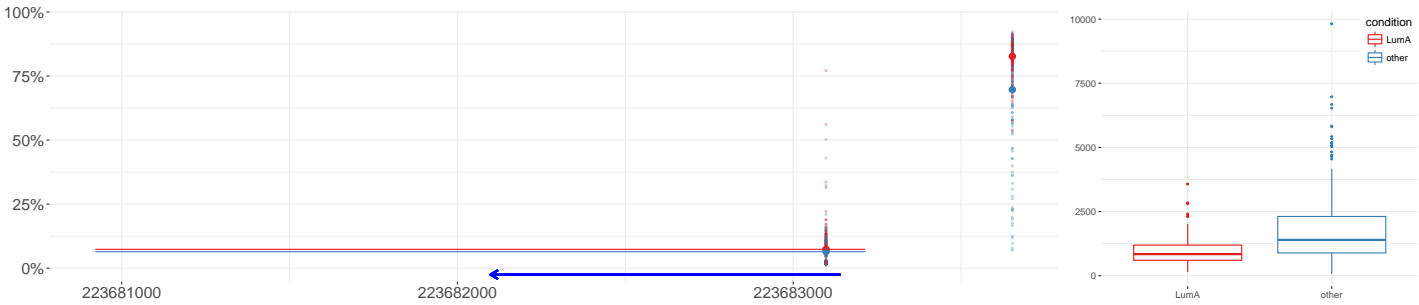
Expression (cpm)

	min	1st Q	med	mean	3rd Q	max	count
LumA	146.7	599.6	841.2	934.2	1192.4	3571.2	359
other	78.6	886.8	1395.2	1762.9	2307.3	9816.6	377

Methylation

	min	1st Q	med	mean	3rd Q	max	count
LumA	0.3	0.4	0.4	0.5	0.5	0.8	139
other	0.1	0.3	0.4	0.4	0.4	0.6	153

LBR



MCM5

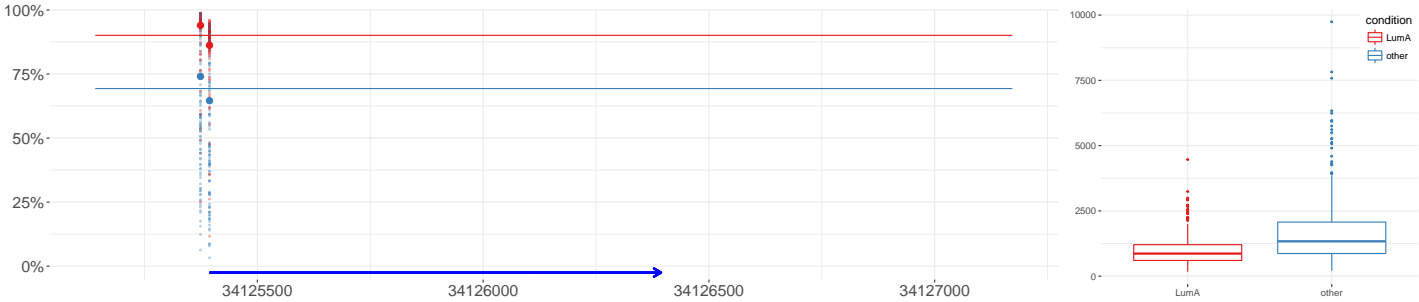
Expression (cpm)

	min	1st Q	med	mean	3rd Q	max	count
LumA	172.3	601.2	864.5	993	1206.5	4467.4	359
other	201.5	866.8	1334.5	1706.9	2071.7	9743.3	377

Methylation

	min	1st Q	med	mean	3rd Q	max	count
LumA	0.2	0.9	0.9	0.9	1	1	139
other	0	0.5	0.8	0.7	0.9	1	153

MCM5

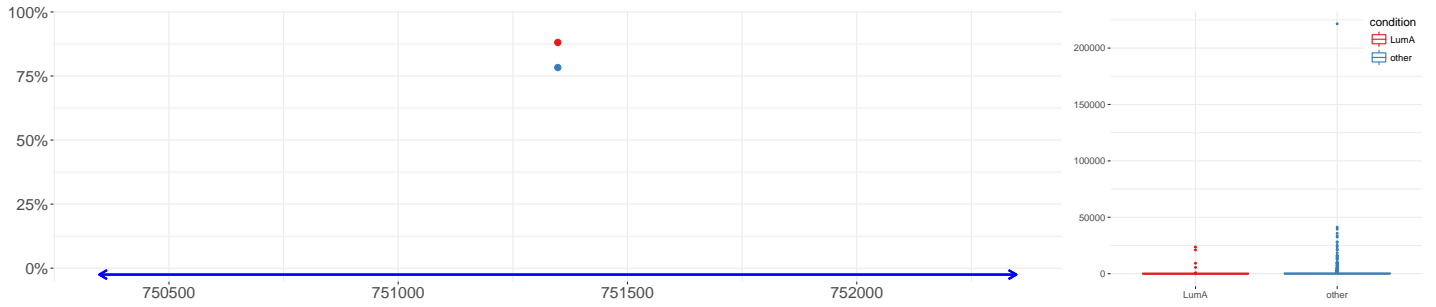


# MSLN

Expression (cpm)							
	min	1st Q	med	mean	3rd Q	max	count
LumA	0	7.2	14.4	195.1	30.2	23631.9	359
other	0	5.5	21.1	2466.8	360.3	221515.9	377

Methylation							
	min	1st Q	med	mean	3rd Q	max	count
LumA	0.6	0.9	0.9	0.9	0.9	0.9	139
other	0.3	0.7	0.9	0.8	0.9	1	153

# MSLN

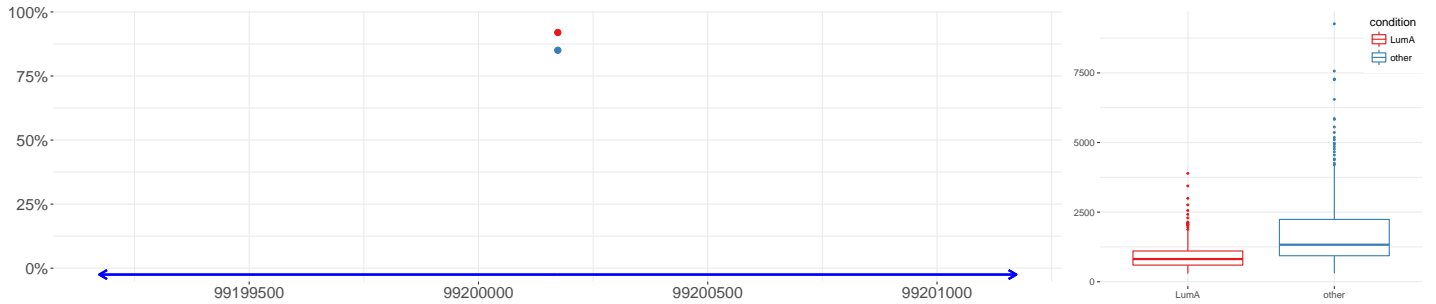


# POP1

Expression (cpm)							
	min	1st Q	med	mean	3rd Q	max	count
LumA	289.6	596.6	814.4	922.3	1104	3892.2	359
other	302.5	933.4	1329.2	1774.3	2237.7	9263.4	377

Methylation							
	min	1st Q	med	mean	3rd Q	max	count
LumA	0.6	0.9	0.9	0.9	1	1	139
other	0.3	0.8	0.9	0.9	0.9	1	153

# POP1



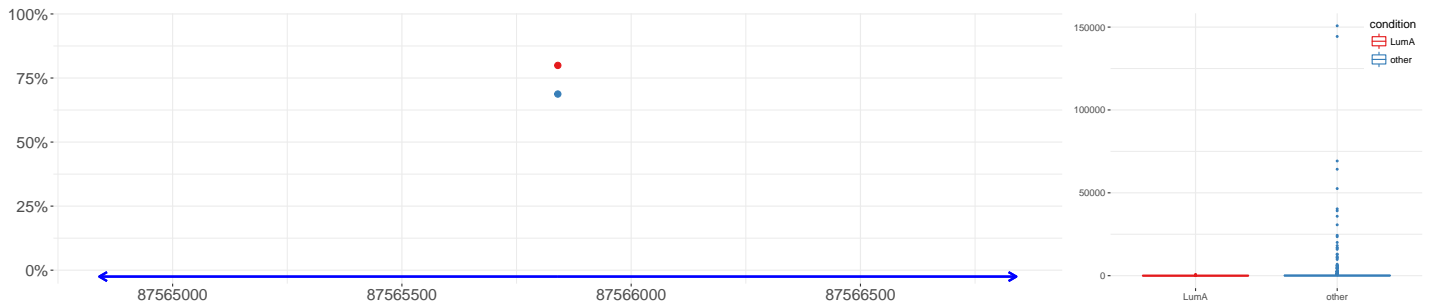


# RLBP1

	Expression (cpm)						
	min	1st Q	med	mean	3rd Q	max	count
LumA	0	0	0	58.5	90.5	452.7	359
other	0	0	45.3	2596.8	226.3	150778.6	377

	Methylation						
	min	1st Q	med	mean	3rd Q	max	count
LumA	0.5	0.7	0.8	0.8	0.9	0.9	139
other	0.1	0.6	0.8	0.7	0.8	0.9	153

## RLBP1

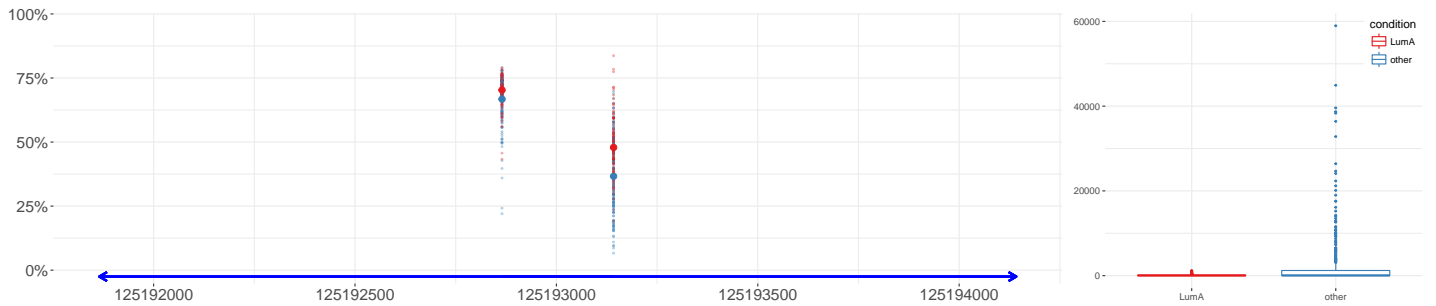


# ROPN1

	Expression (cpm)						
	min	1st Q	med	mean	3rd Q	max	count
LumA	0	12.3	43.1	101.7	116.9	1203.1	359
other	0	15.4	58.5	2555.7	1221.6	58956.9	377

	Methylation						
	min	1st Q	med	mean	3rd Q	max	count
LumA	0.4	0.5	0.6	0.6	0.6	0.8	139
other	0.2	0.5	0.5	0.5	0.6	0.7	153

## ROPN1



## RRM2

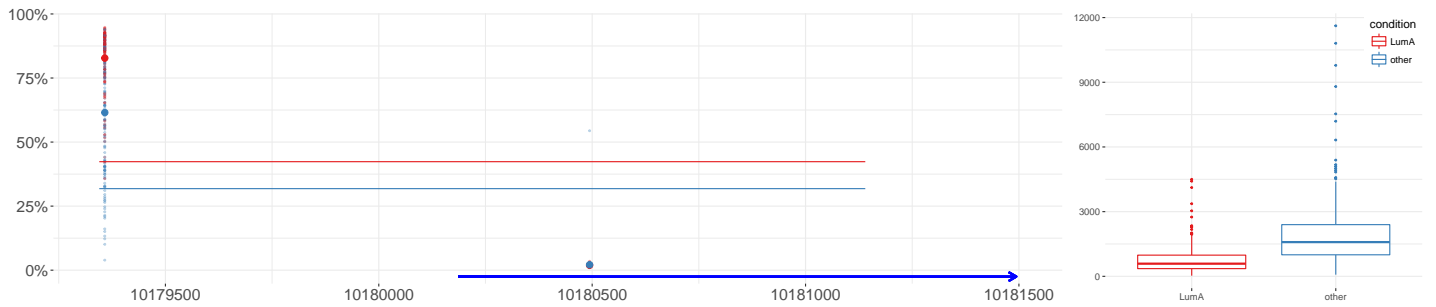
### Expression (cpm)

	min	1st Q	med	mean	3rd Q	max	count
LumA	30.4	357.3	586.8	758	982.6	4498.3	359
other	77.5	998.6	1587.2	1930.7	2397.5	11617.9	377

### Methylation

	min	1st Q	med	mean	3rd Q	max	count
LumA	0.2	0.4	0.4	0.4	0.5	0.5	139
other	0	0.2	0.3	0.3	0.4	0.7	153

## RRM2



## SCRG1

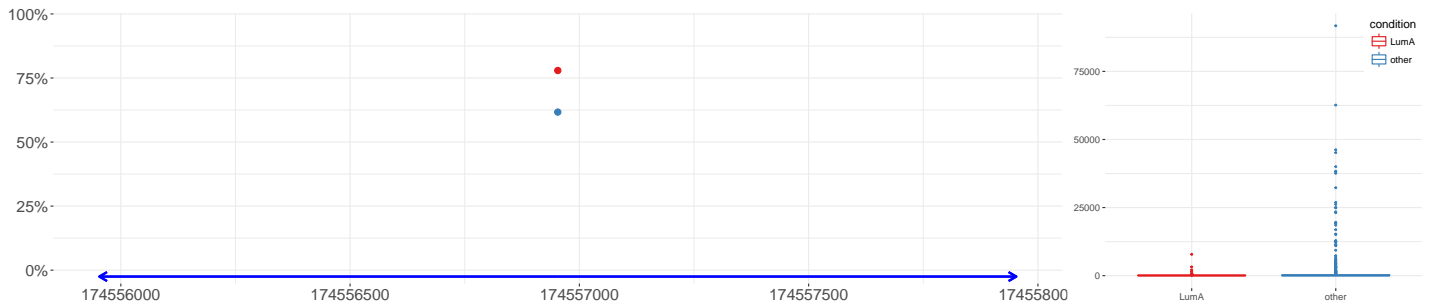
### Expression (cpm)

	min	1st Q	med	mean	3rd Q	max	count
LumA	0	28.7	61.3	144.9	128.4	7832.1	359
other	0	30.7	65.1	2514.6	333.4	91743.7	377

### Methylation

	min	1st Q	med	mean	3rd Q	max	count
LumA	0.1	0.7	0.8	0.8	0.9	0.9	139
other	0.1	0.4	0.7	0.6	0.9	0.9	153

## SCRG1



# SLC6A11

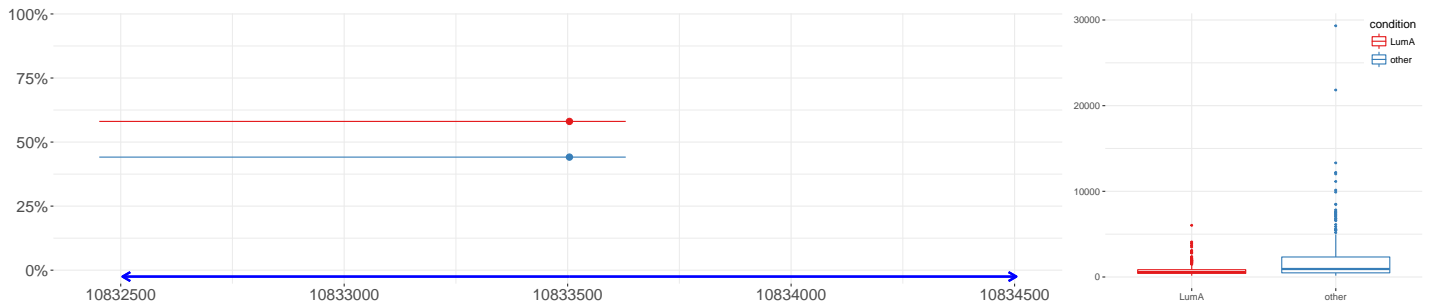
## Expression (cpm)

	min	1st Q	med	mean	3rd Q	max	count
LumA	153.9	424.3	568.8	762.6	850.8	6032.8	359
other	158.5	484.9	932.4	1926.3	2335.7	29320.3	377

## Methylation

	min	1st Q	med	mean	3rd Q	max	count
LumA	0.1	0.5	0.6	0.6	0.7	0.9	139
other	0.1	0.3	0.4	0.4	0.6	0.9	153

# SLC6A11



# SLC7A5

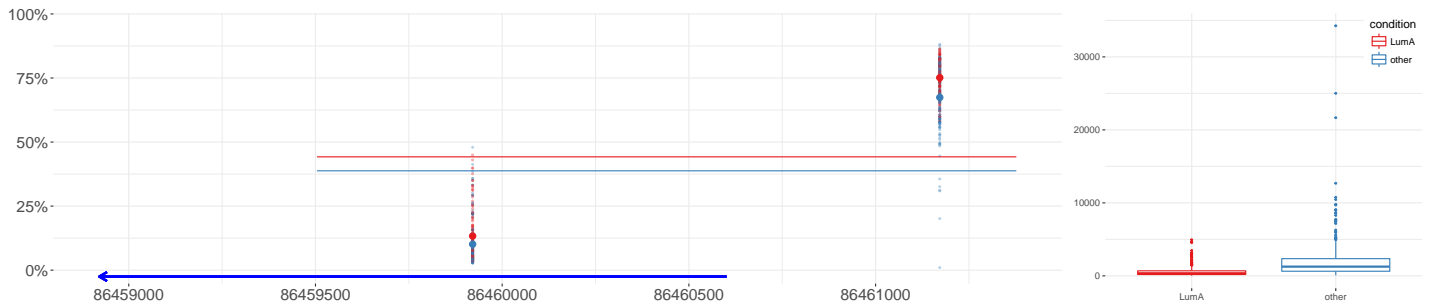
## Expression (cpm)

	min	1st Q	med	mean	3rd Q	max	count
LumA	24.3	180.5	346.7	577	687.1	4937.8	359
other	73.8	630.4	1260.5	2103	2354.4	34263.2	377

## Methylation

	min	1st Q	med	mean	3rd Q	max	count
LumA	0.3	0.4	0.4	0.4	0.5	0.6	139
other	0.1	0.3	0.4	0.4	0.4	0.6	153

# SLC7A5



SRD5A1

Expression (cpm)

	min	1st Q	med	mean	3rd Q	max	count
LumA	125.5	459	655.4	807.9	929.3	8657	359
other	120.7	698.4	1109.7	1883.2	2158.6	34485.4	377

Methylation

	min	1st Q	med	mean	3rd Q	max	count
LumA	0.2	0.8	0.8	0.8	0.9	0.9	139
other	0.1	0.6	0.7	0.7	0.8	0.9	153

SRD5A1

