

|                |         |                   |
|----------------|---------|-------------------|
| mylpfa-mCherry |         | mylpfa-Oct4/sox32 |
|                | 0.00077 | 0.000021          |
|                | 0.00464 | 0.000087          |
|                | 0       | 0.0017            |
|                |         | 0.000064          |
|                |         | 0.000009          |

Parameter

Table Analyzed                  acta1

Column A                          mylpfa-mCherry

vs.                                  vs.

Column B                          mylpfa-Oct4/sox32

Mann Whitney test

P value                                  0.7857

Exact or approximate P v: Exact

P value summary                  ns

Significantly different (P · No

One- or two-tailed P valu Two-tailed

Sum of ranks in column / 15 , 21

Mann-Whitney U                          6

Difference between medians

Median of column A                  0.0007700, n=3

Median of column B                  6.400e-005, n=5

Difference: Actual                          0.000706

Difference: Hodges-Lehm                  0.000706

|            |                   |
|------------|-------------------|
| mylpfa-mCh | mylpfa-Oct4/sox32 |
| 0.0287     | 0.7297            |
| 0.00007    | 0.5704            |
| 0.000043   | 0.8108            |
|            | 0.1973            |
|            | 0.6034            |

# Parameter

Table Analyz cdx1a

Column A mylpfa-mCherry

vs. vs.

Column B mylpfa-Oct4/sox32

# Mann Whitney test

P value 0.0357

Exact or a| Exact

P value su \*

Significantly Yes

One- or tw Two-tailed

Sum of ra| 6 , 30

Mann-Whi 0

# Difference between medians

Median of 7.030e-005, n=3

Median of 0.6034, n=5

Difference -0.6033

Difference -0.6033

|            |                   |
|------------|-------------------|
| mylpfa-mCh | mylpfa-Oct4/sox32 |
| 0.000238   | 0.000021          |
| 0.00007    | 0.000087          |
| 0.000043   | 0.000064          |
|            | 0.000021          |
|            | 0.000009          |

# Parameter

## Table Analyz fli1a

|          |                   |
|----------|-------------------|
| Column A | mylpfa-mCherry    |
| vs.      | vs.               |
| Column B | mylpfa-Oct4/sox32 |

## Mann Whitney test

|               |            |
|---------------|------------|
| P value       | 0.25       |
| Exact or a    | Exact      |
| P value su ns |            |
| Significantly | No         |
| One- or tw    | Two-tailed |
| Sum of ra     | 18 , 18    |
| Mann-Whi      | 3          |

## Difference between medians

|            |                 |
|------------|-----------------|
| Median of  | 7.030e-005, n=3 |
| Median of  | 2.068e-005, n=5 |
| Difference | 4.96E-05        |
| Difference | 4.96E-05        |

|            |                   |
|------------|-------------------|
| mylpfa-mCh | mylpfa-Oct4/sox32 |
| 0.000238   | 0.000021          |
| 0.00007    | 0.000087          |
| 0.000043   | 0.000064          |
|            | 0.000021          |
|            | 0.000009          |

# Parameter

## Table Analyz foxA2

|                 |                   |
|-----------------|-------------------|
| <b>Column A</b> | mylpfa-mCherry    |
| <b>vs.</b>      | vs.               |
| <b>Column B</b> | mylpfa-Oct4/sox32 |

## Mann Whitney test

|                      |            |
|----------------------|------------|
| <b>P value</b>       | 0.25       |
| <b>Exact or a </b>   | Exact      |
| <b>P value su ns</b> |            |
| <b>Significantly</b> | No         |
| <b>One- or tw</b>    | Two-tailed |
| <b>Sum of ra</b>     | 18 , 18    |
| <b>Mann-Whi</b>      | 3          |

## Difference between medians

|                   |                 |
|-------------------|-----------------|
| <b>Median of</b>  | 7.030e-005, n=3 |
| <b>Median of</b>  | 2.068e-005, n=5 |
| <b>Difference</b> | 4.96E-05        |
| <b>Difference</b> | 4.96E-05        |

|            |                   |
|------------|-------------------|
| mylpfa-mCh | mylpfa-Oct4/sox32 |
| 0.01522    | 0.0758            |
| 0.00007    | 0.0451            |
| 0.000043   | 0.0331            |
|            | 0.0205            |
|            | 0.0296            |

#### Parameter

Table Analyz foxA3.

Column A mylpfa-mCherry  
 vs. vs.  
 Column B mylpfa-Oct4/sox32

#### Mann Whitney test

P value 0.0357  
 Exact or a| Exact  
 P value su \*  
 Significantly Yes  
 One- or tw Two-tailed  
 Sum of ra| 6 , 30  
 Mann-Whi 0

#### Difference between medians

Median of 7.030e-005, n=3  
 Median of 0.03310, n=5  
 Difference -0.03303  
 Difference -0.02988

mylpfa-mCherry mylpfa-Oct4/sox32

0.000238 0.000021

0.00007 0.000087

0.000043 0.000064

0.000021

0.000009

## Parameter

Table Analyze foxi1

Column A mylpfa-mCherry

vs. vs.

Column B mylpfa-Oct4/sox32

## Mann-Whitney test

P value 0.25

Exact or asymptotic Exact

P value sum of ranks

Significantly No

One- or two-tailed Two-tailed

Sum of ranks 18, 18

Mann-Whitney U 3

## Difference between medians

Median of 7.030e-005, n=3

Median of 2.068e-005, n=5

Difference 4.96E-05

Difference 4.96E-05

mylpfa-mCherry mylpfa-Oct4/sox32

0.01427 0.5105

0.00007 0.0363

0.00115 0.6744

0.1141

0.5278

#### Parameter

Table Analyze hnf1b

Column A mylpfa-mCherry

vs. vs.

Column B mylpfa-Oct4/sox32

#### Mann-Whitney test

P value 0.0357

Exact or asymptotic Exact

P value sum of squares \*

Significantly Yes

One- or two-tailed Two-tailed

Sum of ranks 6, 30

Mann-Whitney U 0

#### Difference between medians

Median of 0.001150, n=3

Median of 0.5105, n=5

Difference -0.5094

Difference -0.5094

|            |                   |
|------------|-------------------|
| mylpfa-mCh | mylpfa-Oct4/sox32 |
| 0.01175    | 0.4877            |
| 0.00007    | 0.2798            |
| 0.000454   | 0.4364            |
|            | 0.1992            |
|            | 0.2958            |

#### Parameter

Table Analyz hnf4a

Column A mylpfa-mCherry  
 vs. vs.  
 Column B mylpfa-Oct4/sox32

#### Mann Whitney test

P value 0.0357

Exact or a| Exact

P value su \*

Significantly Yes

One- or tw Two-tailed

Sum of ra| 6 , 30

Mann-Whi 0

#### Difference between medians

Median of 0.0004540, n=3

Median of 0.2958, n=5

Difference -0.2953

Difference -0.2953

|            |                   |
|------------|-------------------|
| mylpfa-mCh | mylpfa-Oct4/sox32 |
| 0.000238   | 0.000021          |
| 0.00007    | 0.000087          |
| 0.000043   | 0.000064          |
|            | 0.000021          |
|            | 0.000009          |

# Parameter

## Table Analyz kdrl

|          |                   |
|----------|-------------------|
| Column A | mylpfa-mCherry    |
| vs.      | vs.               |
| Column B | mylpfa-Oct4/sox32 |

## Mann Whitney test

|               |            |
|---------------|------------|
| P value       | 0.25       |
| Exact or a    | Exact      |
| P value su ns |            |
| Significantly | No         |
| One- or tw    | Two-tailed |
| Sum of ra     | 18 , 18    |
| Mann-Whi      | 3          |

## Difference between medians

|            |                 |
|------------|-----------------|
| Median of  | 7.030e-005, n=3 |
| Median of  | 2.068e-005, n=5 |
| Difference | 4.96E-05        |
| Difference | 4.96E-05        |

mylpfa-mCherry mylpfa-Oct4/sox32

0.000238 0.000021

0.00007 0.000087

0.000043 0.000064

0.000021

0.000009

## Parameter

Table Analyz meox1

Column A mylpfa-mCherry

vs. vs.

Column B mylpfa-Oct4/sox32

## Mann Whitney test

P value 0.25

Exact or asymptotic Exact

P value sums

Significantly No

One- or two-tailed Two-tailed

Sum of ranks 18 , 18

Mann-Whitney U 3

## Difference between medians

Median of 7.030e-005, n=3

Median of 2.068e-005, n=5

Difference 4.96E-05

Difference 4.96E-05

|            |                   |
|------------|-------------------|
| mylpfa-mCh | mylpfa-Oct4/sox32 |
| 0.000238   | 0.000021          |
| 0.00007    | 0.000087          |
| 0.000043   | 0.000064          |
|            | 0.000021          |
|            | 0.000009          |

# Parameter

## Table Analyz myca

|          |                   |
|----------|-------------------|
| Column A | mylpfa-mCherry    |
| vs.      | vs.               |
| Column B | mylpfa-Oct4/sox32 |

## Mann Whitney test

P value 0.25

Exact or a| Exact

P value su ns

Significantly No

One- or tw Two-tailed

Sum of ra| 18 , 18

Mann-Whi 3

## Difference between medians

Median of 7.030e-005, n=3

Median of 2.068e-005, n=5

Difference 4.96E-05

Difference 4.96E-05

|            |                   |
|------------|-------------------|
| mylpfa-mCh | mylpfa-Oct4/sox32 |
| 0.00208    | 0.000021          |
| 0.00377    | 0.000087          |
| 0.001222   | 0.00184           |
|            | 0.000021          |
|            | 0.000009          |

# Parameter

Table Analyz myhz2

|          |                   |
|----------|-------------------|
| Column A | mylpfa-mCherry    |
| vs.      | vs.               |
| Column B | mylpfa-Oct4/sox32 |

# Mann Whitney test

|               |            |
|---------------|------------|
| P value       | 0.0714     |
| Exact or a    | Exact      |
| P value su ns |            |
| Significantly | No         |
| One- or tw    | Two-tailed |
| Sum of ra     | 20 , 16    |
| Mann-Whi      | 1          |

# Difference between medians

|            |                 |
|------------|-----------------|
| Median of  | 0.002080, n=3   |
| Median of  | 2.068e-005, n=5 |
| Difference | 0.002059        |
| Difference | 0.001993        |

|            |                   |
|------------|-------------------|
| mylpfa-mCh | mylpfa-Oct4/sox32 |
| 0.000238   | 0.000021          |
| 0.00138    | 0.000087          |
| 0.01619    | 0.000064          |
|            | 0.000021          |
|            | 0.000009          |

# Parameter

Table Analyz mylpfa

Column A mylpfa-mCherry

vs. vs.

Column B mylpfa-Oct4/sox32

# Mann Whitney test

P value 0.0357

Exact or a| Exact

P value su \*

Significantly Yes

One- or tw Two-tailed

Sum of ra| 21 , 15

Mann-Whi 0

# Difference between medians

Median of 0.001380, n=3

Median of 2.068e-005, n=5

Difference 0.001359

Difference 0.001359

mylpfa-mCherry mylpfa-Oct4/sox32

0.00947 0.000021

0.00709 0.000087

0.000875 0.000064

0.000021

0.00366

## Parameter

### Table Analyz myoD

**Column A** mylpfa-mCherry

**vs.** vs.

**Column B** mylpfa-Oct4/sox32

## Mann Whitney test

**P value** 0.0714

**Exact or asymptotic** Exact

**P value sum of squares**

**Significantly** No

**One- or two-tailed** Two-tailed

**Sum of ranks** 20, 16

**Mann-Whitney U** 1

## Difference between medians

**Median of** 0.007090, n=3

**Median of** 6.390e-005, n=5

**Difference** 0.007026

**Difference** 0.007003

mylpfa-mCherry mylpfa-Oct4/sox32

0.000238 0.000021

0.00007 0.000087

0.000043 0.000064

0.000021

0.000009

## Parameter

Table Analyze nanog

Column A mylpfa-mCherry

vs. vs.

Column B mylpfa-Oct4/sox32

## Mann-Whitney test

P value 0.25

Exact or asymptotic Exact

P value sum of ranks

Significantly No

One- or two-tailed Two-tailed

Sum of ranks 18, 18

Mann-Whitney U 3

## Difference between medians

Median of 7.030e-005, n=3

Median of 2.068e-005, n=5

Difference 4.96E-05

Difference 4.96E-05

| mylpfa-mCherry | mylpfa-Oct4/sox32 |
|----------------|-------------------|
| 0.01099        | 0.0365            |
| 0.00236        | 0.006837          |
| 0.000043       | 0.0049            |
|                | 0.00421           |
|                | 0.0309            |

# Parameter

Table Analyz nkx2.2

Column A mylpfa-mCherry

vs. vs.

Column B mylpfa-Oct4/sox32

# Mann Whitney test

P value 0.25

Exact or a| Exact

P value su ns

Significantly No

One- or tw Two-tailed

Sum of ra| 9 , 27

Mann-Whi 3

# Difference between medians

Median of 0.002360, n=3

Median of 0.006837, n=5

Difference -0.004477

Difference -0.004857

|            |                   |
|------------|-------------------|
| mylpfa-mCh | mylpfa-Oct4/sox32 |
| 0.000238   | 0.6079            |
| 0.00007    | 0.6217            |
| 0.000043   | 0.7201            |
|            | 0.204             |
|            | 0.5251            |

# Parameter

Table Analyz nkx6.1

Column A mylpfa-mCherry

vs. vs.

Column B mylpfa-Oct4/sox32

# Mann Whitney test

P value 0.0357

Exact or a| Exact

P value su \*

Significantly Yes

One- or tw Two-tailed

Sum of ra| 6 , 30

Mann-Whi 0

# Difference between medians

Median of 7.030e-005, n=3

Median of 0.6079, n=5

Difference -0.6078

Difference -0.6078

mylpfa-mCherry mylpfa-Oct4/sox32

0.000238 0.000021

0.00007 0.000087

0.000043 0.000064

0.000021

0.000009

#### Parameter

Table Analyz 4-Oct

Column A mylpfa-mCherry

vs. vs.

Column B mylpfa-Oct4/sox32

#### Mann Whitney test

P value 0.25

Exact or asymptotic Exact

P value sums

Significantly No

One- or two-tailed Two-tailed

Sum of ranks 18 , 18

Mann-Whitney U 3

#### Difference between medians

Median of 7.030e-005, n=3

Median of 2.068e-005, n=5

Difference 4.96E-05

Difference 4.96E-05

mylpfa-mCherry mylpfa-Oct4/sox32

0.000238 0.000021

0.00007 0.000087

0.000043 0.000064

0.000021

0.000009

## Parameter

### Table Analyz p63

**Column A** mylpfa-mCherry

**vs.** vs.

**Column B** mylpfa-Oct4/sox32

## Mann Whitney test

**P value** 0.25

**Exact or asymptotic** Exact

**P value summary**

**Significantly** No

**One- or two-tailed** Two-tailed

**Sum of ranks** 18 , 18

**Mann-Whitney U** 3

## Difference between medians

**Median of** 7.030e-005, n=3

**Median of** 2.068e-005, n=5

**Difference** 4.96E-05

**Difference** 4.96E-05

mylpfa-mCherry mylpfa-Oct4/sox32

0.000238 0.000021

0.00046 0.00294

0.000043 0.000064

0.000021

0.000009

## Parameter

### Table Analyz pax3

**Column A** mylpfa-mCherry

**vs.** vs.

**Column B** mylpfa-Oct4/sox32

## Mann Whitney test

**P value** 0.3929

**Exact or asymptotic** Exact

**P value summary** ns

**Significantly** No

**One- or two-tailed** Two-tailed

**Sum of ranks** 17, 19

**Mann-Whitney U** 4

## Difference between medians

**Median of** 0.0002381, n=3

**Median of** 2.068e-005, n=5

**Difference** 0.0002174

**Difference** 0.0001742

|            |                   |
|------------|-------------------|
| mylpfa-mCh | mylpfa-Oct4/sox32 |
| 0.000238   | 0.000021          |
| 0.00125    | 0.000087          |
| 0.000043   | 0.000064          |
|            | 0.000021          |
|            | 0.000009          |

# Parameter

## Table Analyz pax7

|                 |                   |
|-----------------|-------------------|
| <b>Column A</b> | mylpfa-mCherry    |
| <b>vs.</b>      | vs.               |
| <b>Column B</b> | mylpfa-Oct4/sox32 |

## Mann Whitney test

**P value** 0.1429

**Exact or a** Exact

**P value su ns**

**Significantly** No

**One- or tw** Two-tailed

**Sum of ra** 19 , 17

**Mann-Whi** 2

## Difference between medians

**Median of** 0.0002381, n=3

**Median of** 2.068e-005, n=5

**Difference** 0.0002174

**Difference** 0.0002174

|            |                   |
|------------|-------------------|
| mylpfa-mCh | mylpfa-Oct4/sox32 |
| 0.000238   | 0.0387            |
| 0.00007    | 0.00563           |
| 0.000043   | 0.01641           |
|            | 0.00169           |
|            | 0.02041           |

# Parameter

## Table Analyz pdx1

|                 |                   |
|-----------------|-------------------|
| <b>Column A</b> | mylpfa-mCherry    |
| <b>vs.</b>      | vs.               |
| <b>Column B</b> | mylpfa-Oct4/sox32 |

## Mann Whitney test

**P value** 0.0357

**Exact or a|** Exact

**P value su \***

**Significantly** Yes

**One- or tw** Two-tailed

**Sum of ra** 6 , 30

**Mann-Whi** 0

## Difference between medians

**Median of** 7.030e-005, n=3

**Median of** 0.01641, n=5

**Difference** -0.01634

**Difference** -0.01634

|            |                   |
|------------|-------------------|
| mylpfa-mCh | mylpfa-Oct4/sox32 |
| 0.000238   | 0.1486            |
| 0.00007    | 0.00425           |
| 0.000043   | 0.0121            |
|            | 0.0108            |
|            | 0.0165            |

# Parameter

## Table Analyz ptf1a

|                 |                   |
|-----------------|-------------------|
| <b>Column A</b> | mylpfa-mCherry    |
| <b>vs.</b>      | vs.               |
| <b>Column B</b> | mylpfa-Oct4/sox32 |

## Mann Whitney test

**P value** 0.0357

**Exact or a|** Exact

**P value su \***

**Significantly** Yes

**One- or tw** Two-tailed

**Sum of ra** 6 , 30

**Mann-Whi** 0

## Difference between medians

**Median of** 7.030e-005, n=3

**Median of** 0.01210, n=5

**Difference** -0.01203

**Difference** -0.01203

mylpfa-mCherry mylpfa-Oct4/sox32

0.000238 0.000021

0.00007 0.000087

0.000043 0.000064

0.000021

0.000009

## Parameter

Table Analyz sox17

Column A mylpfa-mCherry

vs. vs.

Column B mylpfa-Oct4/sox32

## Mann Whitney test

P value 0.25

Exact or asymptotic Exact

P value sums

Significantly No

One- or two-tailed

Sum of ranks 18 , 18

Mann-Whitney U 3

## Difference between medians

Median of 7.030e-005, n=3

Median of 2.068e-005, n=5

Difference 4.96E-05

Difference 4.96E-05

mylpfa-mCherry mylpfa-Oct4/sox32

0.000238 0.000021

0.00007 0.000087

0.000043 0.000064

0.000085

0.000009

## Parameter

Table Analyze sox19b

Column A mylpfa-mCherry

vs. vs.

Column B mylpfa-Oct4/sox32

## Mann-Whitney test

P value 0.5714

Exact or asymptotic Exact

P value summary ns

Significantly No

One- or two-tailed Two-tailed

Sum of ranks 16, 20

Mann-Whitney U 5

## Difference between medians

Median of 7.030e-005, n=3

Median of 6.390e-005, n=5

Difference 6.40E-06

Difference 3.44E-05

mylpfa-mCherry mylpfa-Oct4/sox32

0.7392 0.04446

0.7119 0.0278

0.05786 0.01802

0.00653

0.0143

## Parameter

Table Analyze tnn1a

Column A mylpfa-mCherry

vs. vs.

Column B mylpfa-Oct4/sox32

## Mann-Whitney test

P value 0.0357

Exact or asymptotic Exact

P value sum \*

Significantly Yes

One- or two-tailed Two-tailed

Sum of ranks 21, 15

Mann-Whitney U 0

## Difference between medians

Median of 0.7119, n=3

Median of 0.01802, n=5

Difference 0.6939

Difference 0.6939

mylpfa-mCherry mylpfa-Oct4/sox32

0.000238 0.000021

0.00908 0.000087

0.00522 0.000064

0.000021

0.000009

## Parameter

Table Analyze tnt3a

Column A mylpfa-mCherry

vs. vs.

Column B mylpfa-Oct4/sox32

## Mann-Whitney test

P value 0.0357

Exact or asymptotic Exact

P value sum \*

Significantly Yes

One- or two-tailed Two-tailed

Sum of ranks 21, 15

Mann-Whitney U 0

## Difference between medians

Median of 0.005220, n=3

Median of 2.068e-005, n=5

Difference 0.005199

Difference 0.005199

mylpfa-mCherry mylpfa-Oct4/sox32

0.000238 0.000021

0.00007 0.000087

0.000043 0.000064

0.000021

0.000009

## Parameter

Table Analyze vasa

Column A mylpfa-mCherry

vs. vs.

Column B mylpfa-Oct4/sox32

## Mann-Whitney test

P value 0.25

Exact or asymptotic Exact

P value sum of ranks

Significantly No

One- or two-tailed Two-tailed

Sum of ranks 18, 18

Mann-Whitney U 3

## Difference between medians

Median of 7.030e-005, n=3

Median of 2.068e-005, n=5

Difference 4.96E-05

Difference 4.96E-05

|            |                   |
|------------|-------------------|
| mylpfa-mCh | mylpfa-Oct4/sox32 |
| 0.000238   | 0.000021          |
| 0.00007    | 0.000087          |
| 0.000043   | 0.000064          |
|            | 0.000021          |
|            | 0.000009          |

# Parameter

## Table Analyz zic2.2

|          |                   |
|----------|-------------------|
| Column A | mylpfa-mCherry    |
| vs.      | vs.               |
| Column B | mylpfa-Oct4/sox32 |

# Mann Whitney test

|               |            |
|---------------|------------|
| P value       | 0.25       |
| Exact or a    | Exact      |
| P value su ns |            |
| Significantly | No         |
| One- or tw    | Two-tailed |
| Sum of ra     | 18 , 18    |
| Mann-Whi      | 3          |

# Difference between medians

|            |                 |
|------------|-----------------|
| Median of  | 7.030e-005, n=3 |
| Median of  | 2.068e-005, n=5 |
| Difference | 4.96E-05        |
| Difference | 4.96E-05        |