A
Ctrl. MO
pou5f3.2/3 MO
pou5f3.3, sox3 MO
pou5f3.2/3, sox3 MO
Stage 10.5 23ºC
Stage 12 18ºC
6/6
8/8
6/6
8/8
23/28
8/13
15/15
19/19
B
Exonic
Primary activation
Secondary activation
Intronic
Primary activation
Secondary activation
log2 diff vs. ctrl
pou5f3.2/3 MO
pou5f3.3, sox3 MO
pou5f3.2/3, sox3 MO
Triptolide
sox3 MO
pou5f3.3 MO
pou5f3.3, sox3 MO
pou5f3.3, sox3 MO High
pou5f3.2/3, sox3 MO
Triptolide
+CHX
C
FAILED SAMPLES? pou5f3.2/3, sox3 MO
+CHX
D
Strictly zygotic
Maternal-zygotic
+Triptolide
mir-427
97%
St. 9 +CHX, Ctrl MO log2 TPM
E
+CHX, pou5f3.3, sox3 MO High
mir-427
86%
St. 9 +CHX, Ctrl MO log2 TPM
F
pou5f3.2/3, sox3 MO
mir-427
34%
St. 9 Ctrl MO log2 TPM
G
Down-regulated genes
pou5f3.2/3, sox3 MO
195
83
281
102
31
2
17
pou5f3.2, sox3 MO
pou5f3.2/3 MO
H
Up-regulated genes
pou5f3.2/3, sox3 MO
203
229
578
120
812
103
62
pou5f3.2, sox3 MO
pou5f3.2/3 MO
I
+CHX Down-regulated genes
sox3 MO
pou5f3.3 MO
pou5f3.3, sox3 MO High
pou5f3.2/3, sox3 MO
0
0
23
849
666
0
219
103
0
3
0
0
0
0
0
J
Up-regulated genes
Prop. detected by intron
pou5f3.2/3 MO
pou5f3.3, sox3 MO
pou5f3.2/3, sox3 MO
K
log2 diff. pou5f3.2/3, sox3 MO vs. ctrl
Sig. up in:
pou5f3.2/3 MO
pou5f3.3, sox3 MO
pou5f3.2/3, sox3 MO
L
Proportion affected in PS MO
Up-regulated
Down-regulated
Z
MZ
Blastula-specific
Z
MZ
Also lineage activated
Epi
Neur
Meso
Endo
P = 2.1x10-34
P = 0.11
M
Strictly zygotic
Maternal-zygotic
Proportion down in CHX PS MO
Primary activation:
L sing.
S sing.
L only
L & S
S only
P = 0.0020
P = 4.8x10-5
N
Strictly zygotic
Maternal-zygotic
Proportion affected in PS MO
St. 9 activation:
Up-regulated
Down-regulated
P = 0.39
P = 3.4x10-5