Fig.1

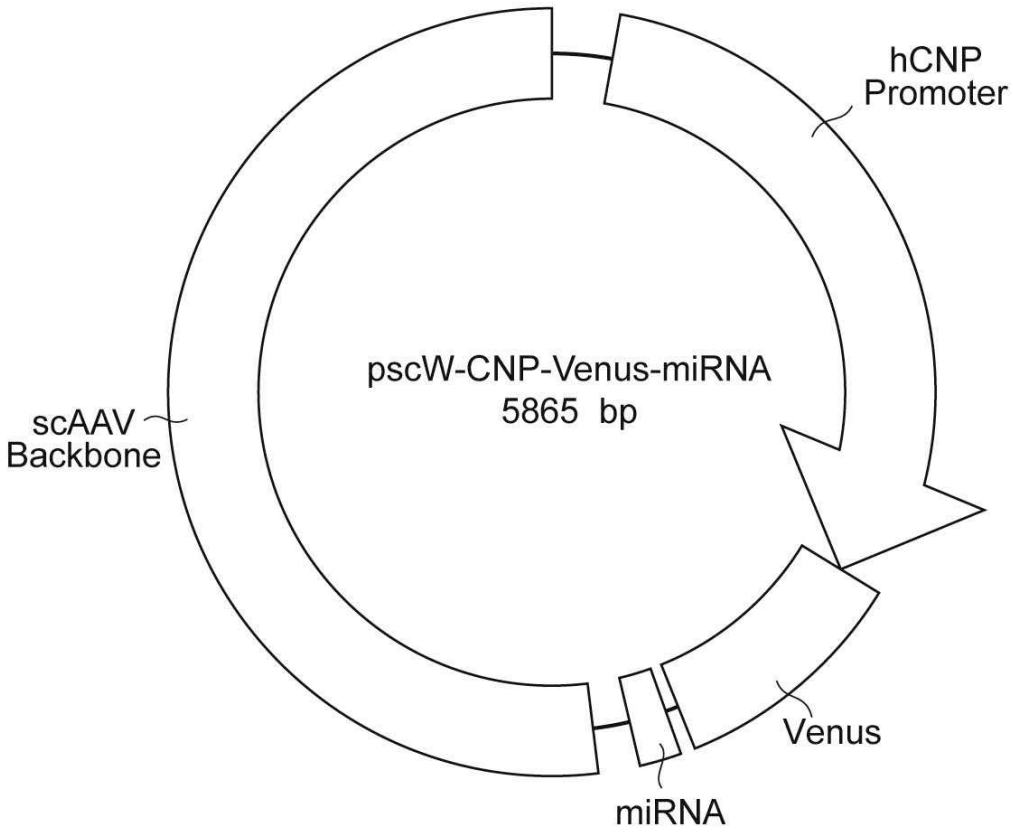

hCNP
Promoter
pscW-CNP-Venus-miRNA
5865 bp
scAAV
Backbone
Venus
miRNA

Fig.2

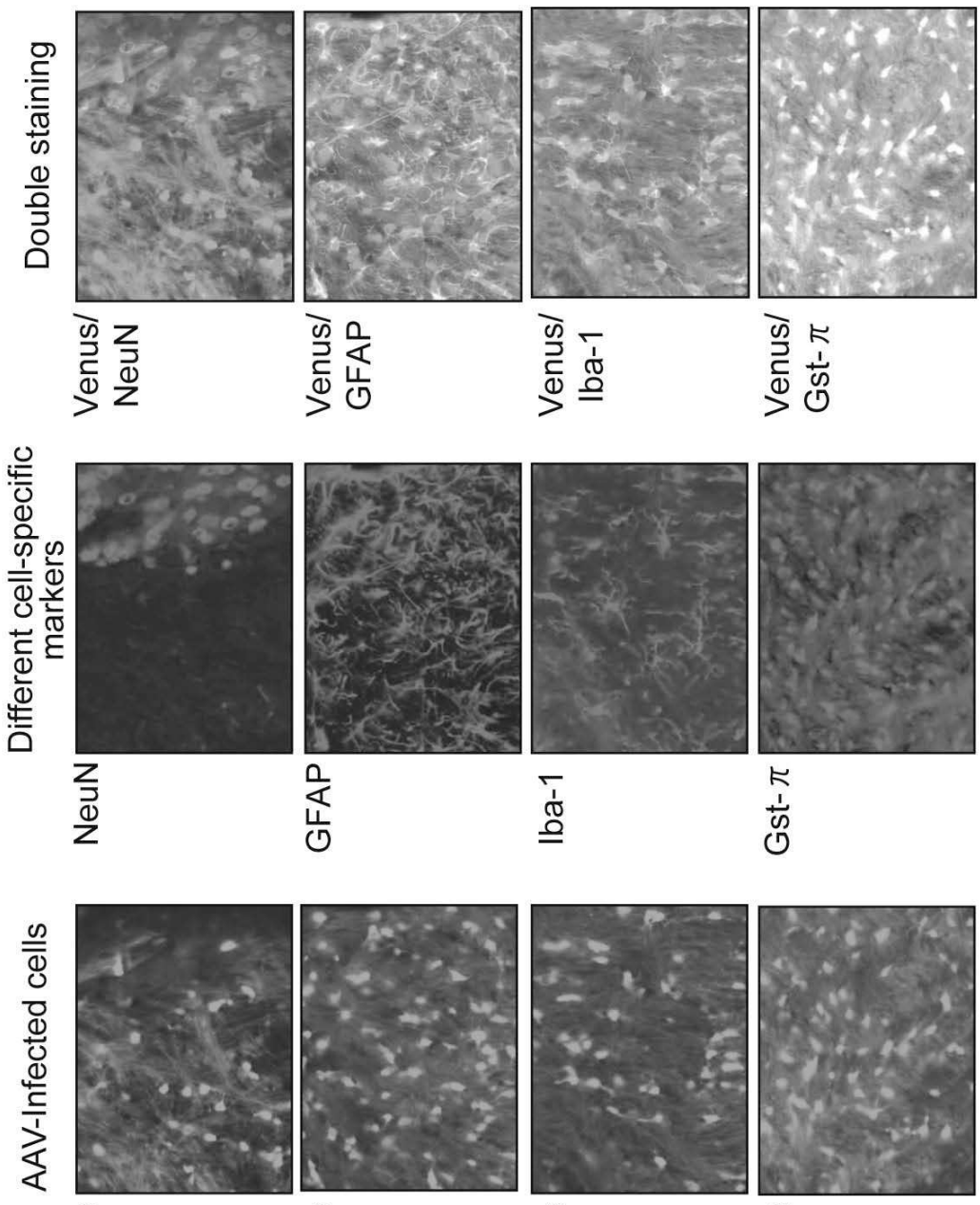

AAV-Infected cells
Different cell-specific markers
Double staining
Venus
NeuN
Venus/ NeuN
Venus
GFAP
Venus/ GFAP
Venus
Iba-1
Venus/ Iba-1
Venus
Gst-π
Venus/ Gst-π

Fig.3

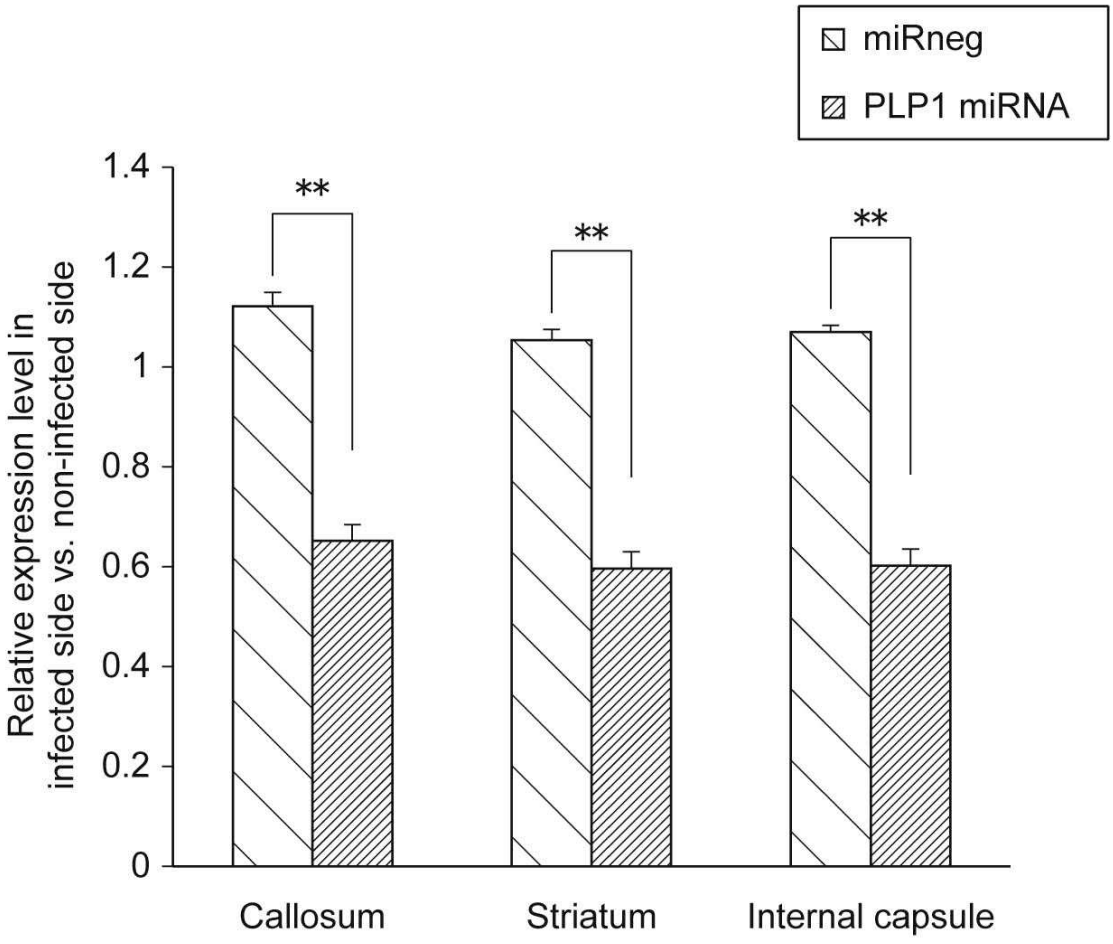
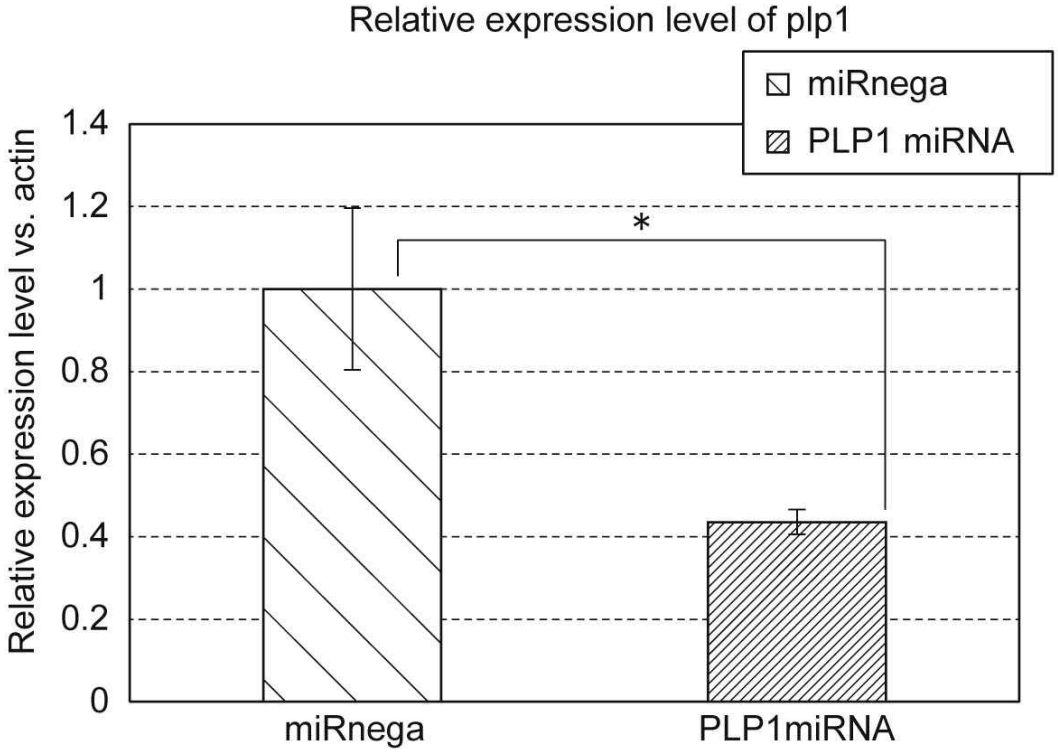

miRneg
PLP1 miRNA
Relative expression level in infected side vs. non-infected side
1.4
1.2
1
0.8
0.6
0.4
0.2
0
**
**
**
Callosum
Striatum
Internal capsule

Fig.4

(A)


Relative expression level of plp1
miRnega
PLP1 miRNA
Relative expression level vs. actin
1.4
1.2
1
0.8
0.6
0.4
0.2
0
*
miRnega
PLP1miRNA

(B)

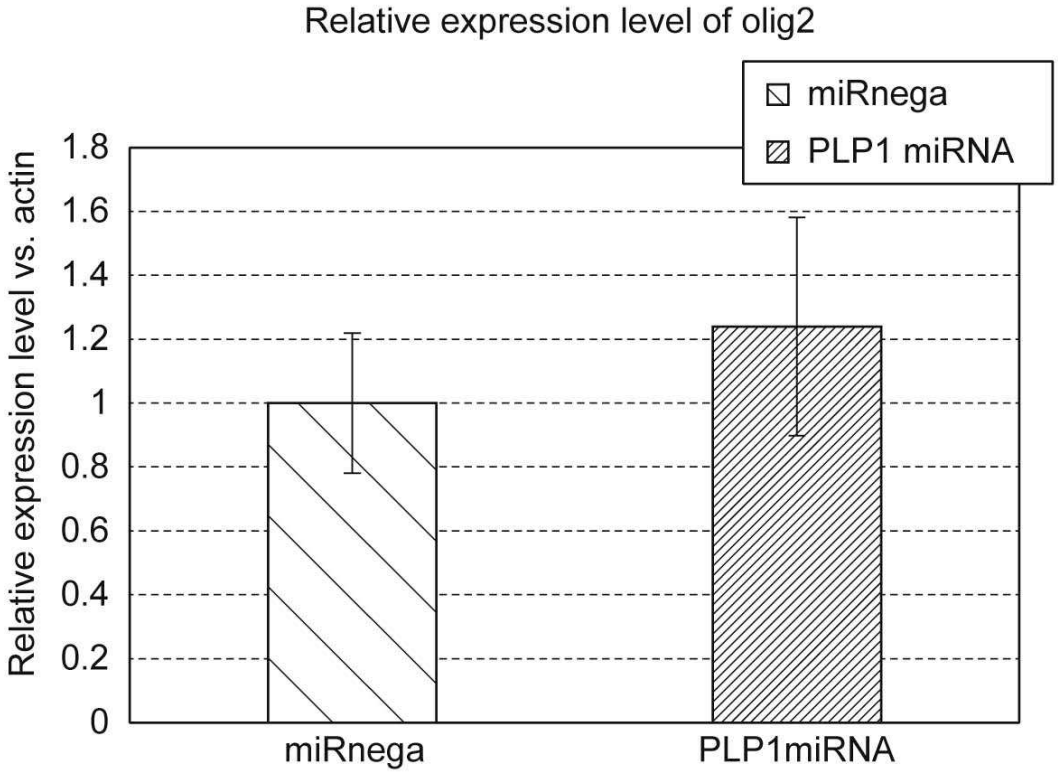

Relative expression level of olig2
miRnega
PLP1 miRNA
Relative expression level vs. actin
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
miRnega
PLP1miRNA

Fig.5

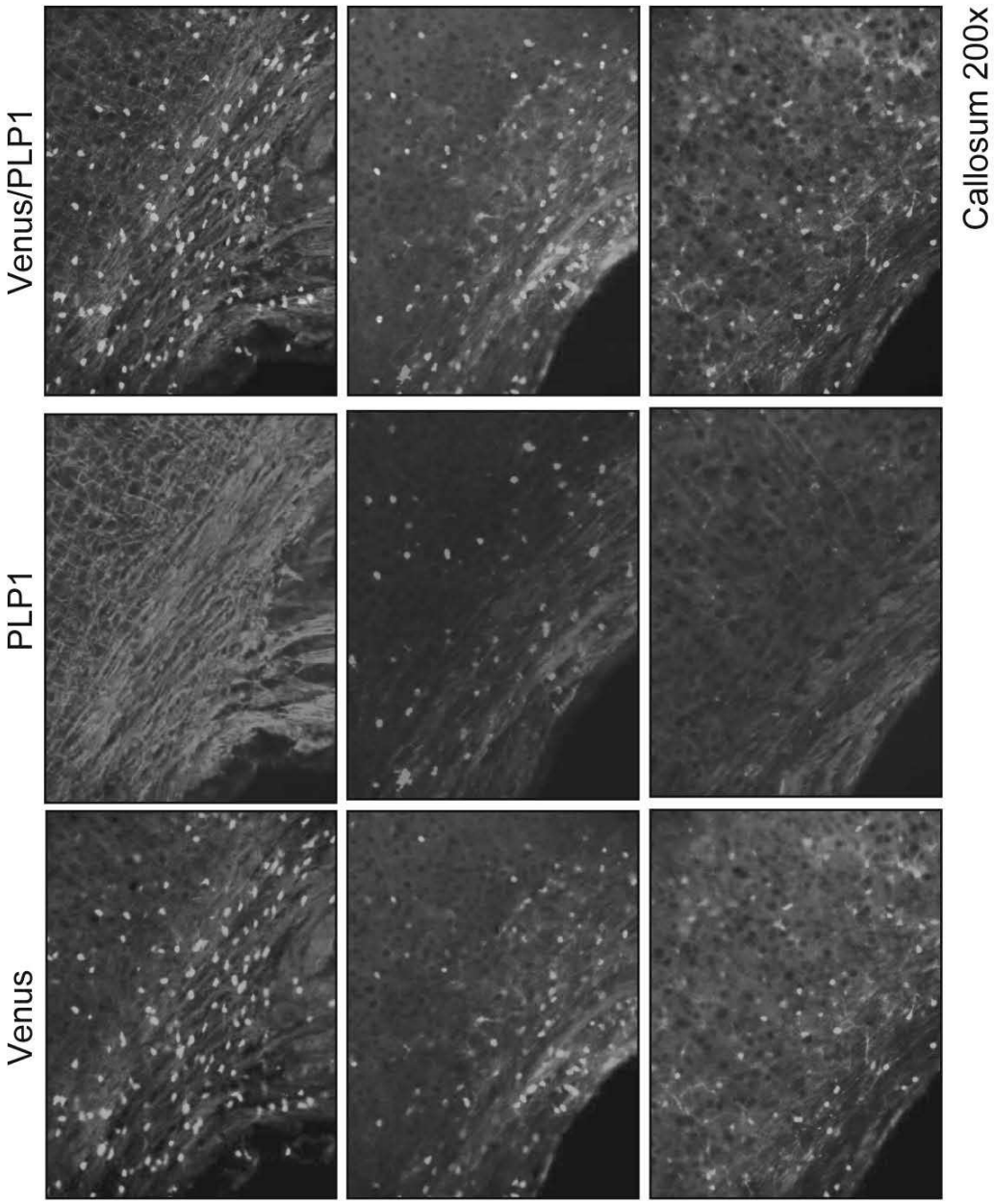

Venus
PLP1
Venus/PLP1
Wild-type with administration of miR-neg
PLP1-Tg with administration of miR-neg
PLP1-Tg with administration of PLP1-miRNA
Callosum 200x

Fig.6

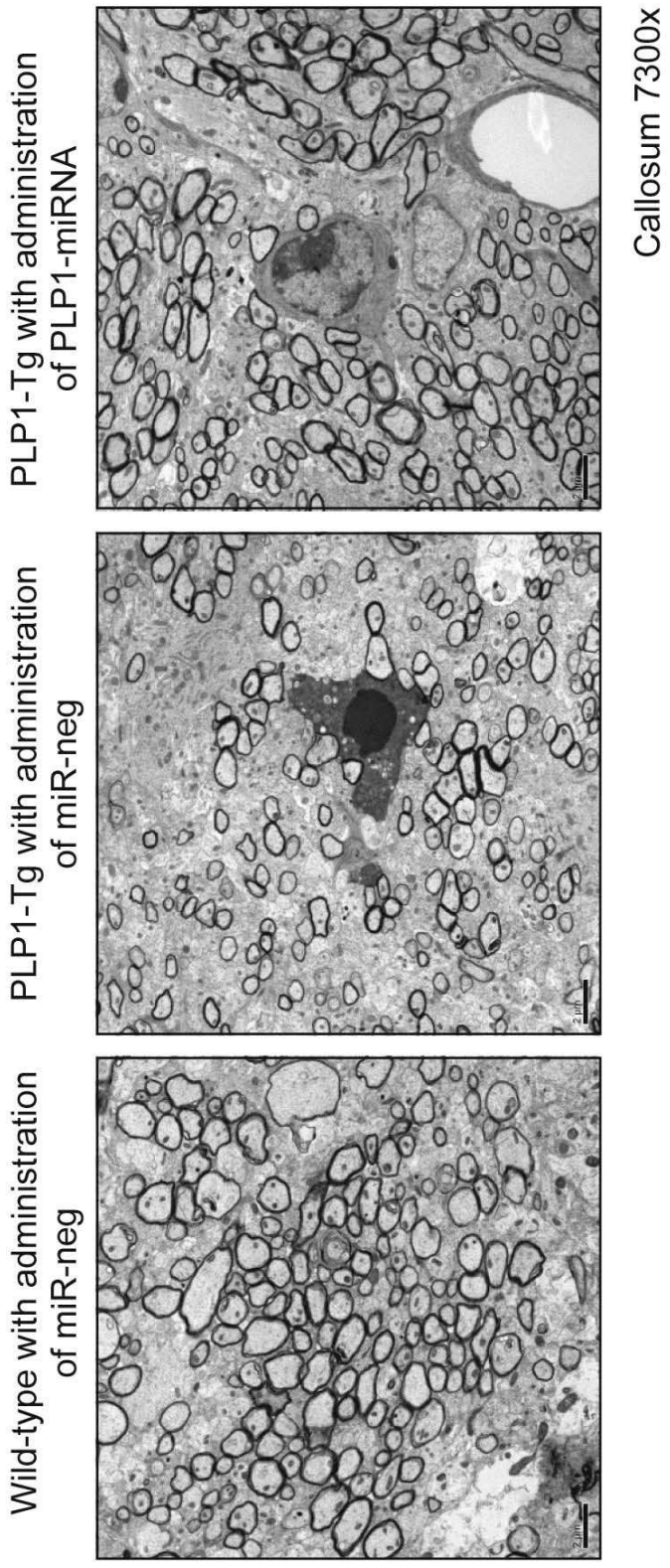

Wild-type with administration of miR-neg
PLP1-Tg with administration of miR-neg
PLP1-Tg with administration of PLP1-miRNA
Callosum 7300x

Fig.7

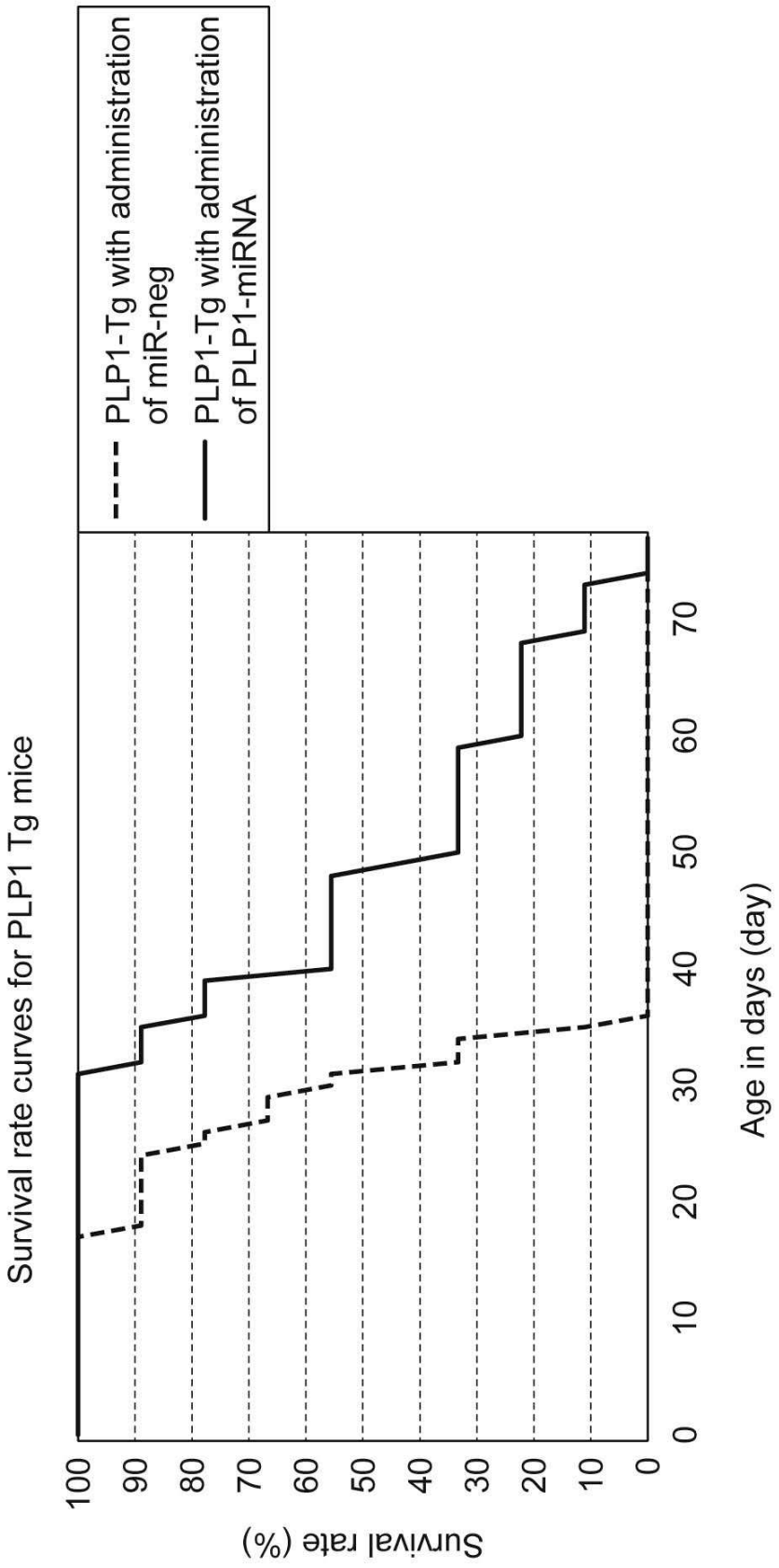

Survival rate curves for PLP1 Tg mice
PLP1-Tg with administration of miR-neg
PLP1-Tg with administration of PLP1-miRNA
Survival rate (%)
100
90
80
70
60
50
40
30
20
10
0
0
10
20
30
40
50
60
70
Age in days (day)

Fig.8

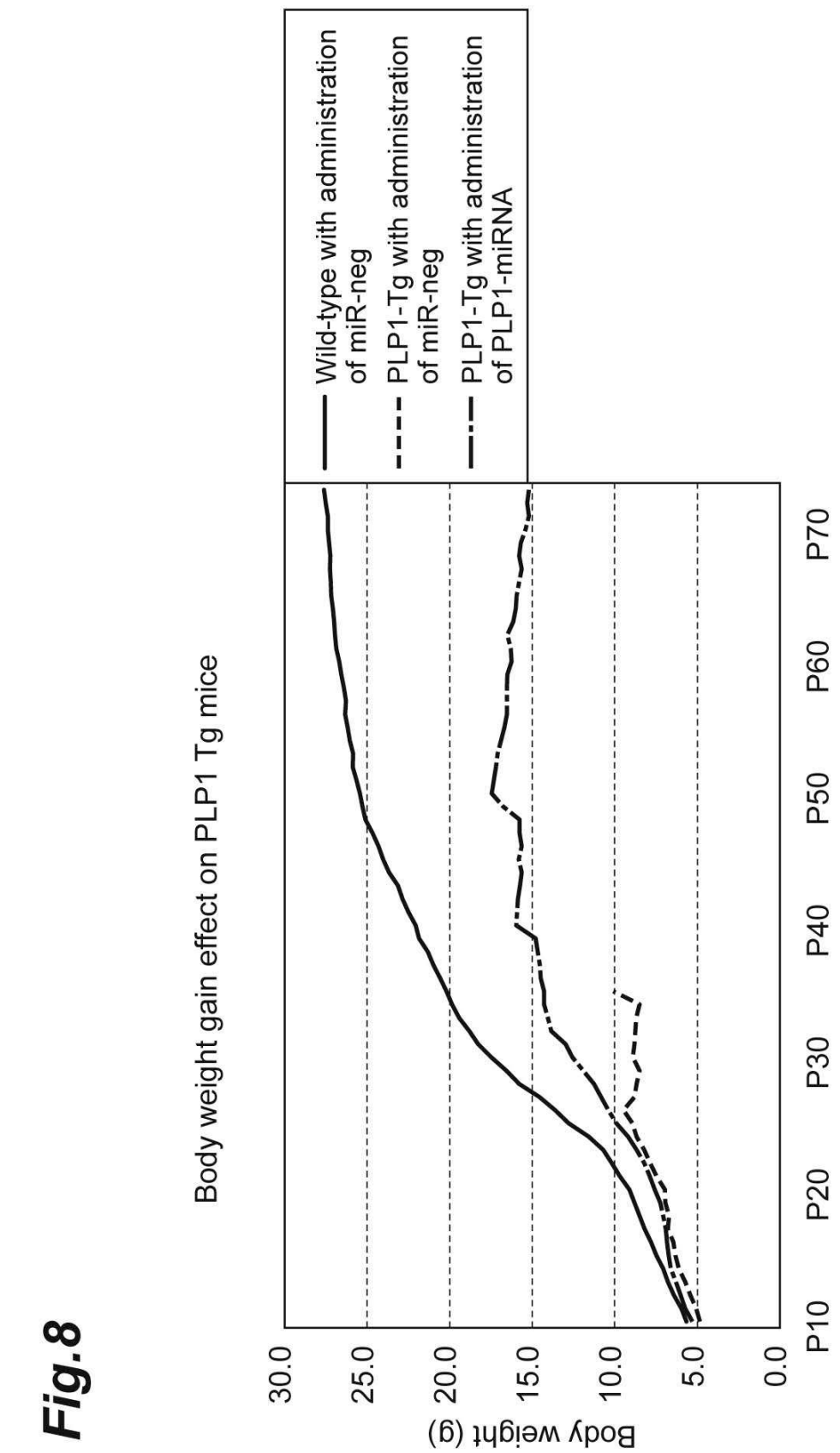

Body weight gain effect on PLP1 Tg mice
Wild-type with administration of miR-neg
PLP1-Tg with administration of miR-neg
PLP1-Tg with administration of PLP1-miRNA
Body weight (g)
30.0
25.0
20.0
15.0
10.0
5.0
0.0
P10
P20
P30
P40
P50
P60
P70
Days after birth (day)

Fig.9

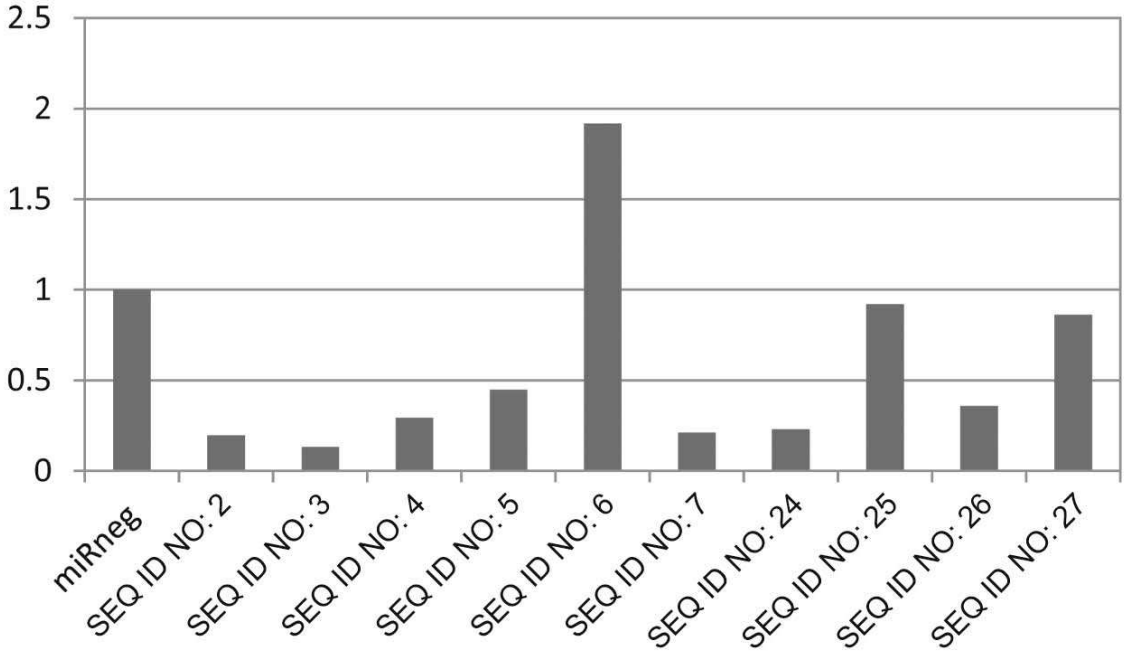

2.5
2
1.5
1
0.5
0
miRneg
SEQ ID NO: 2
SEQ ID NO: 3
SEQ ID NO: 4
SEQ ID NO: 5
SEQ ID NO: 6
SEQ ID NO: 7
SEQ ID NO: 24
SEQ ID NO: 25
SEQ ID NO: 26
SEQ ID NO: 27

Fig.10

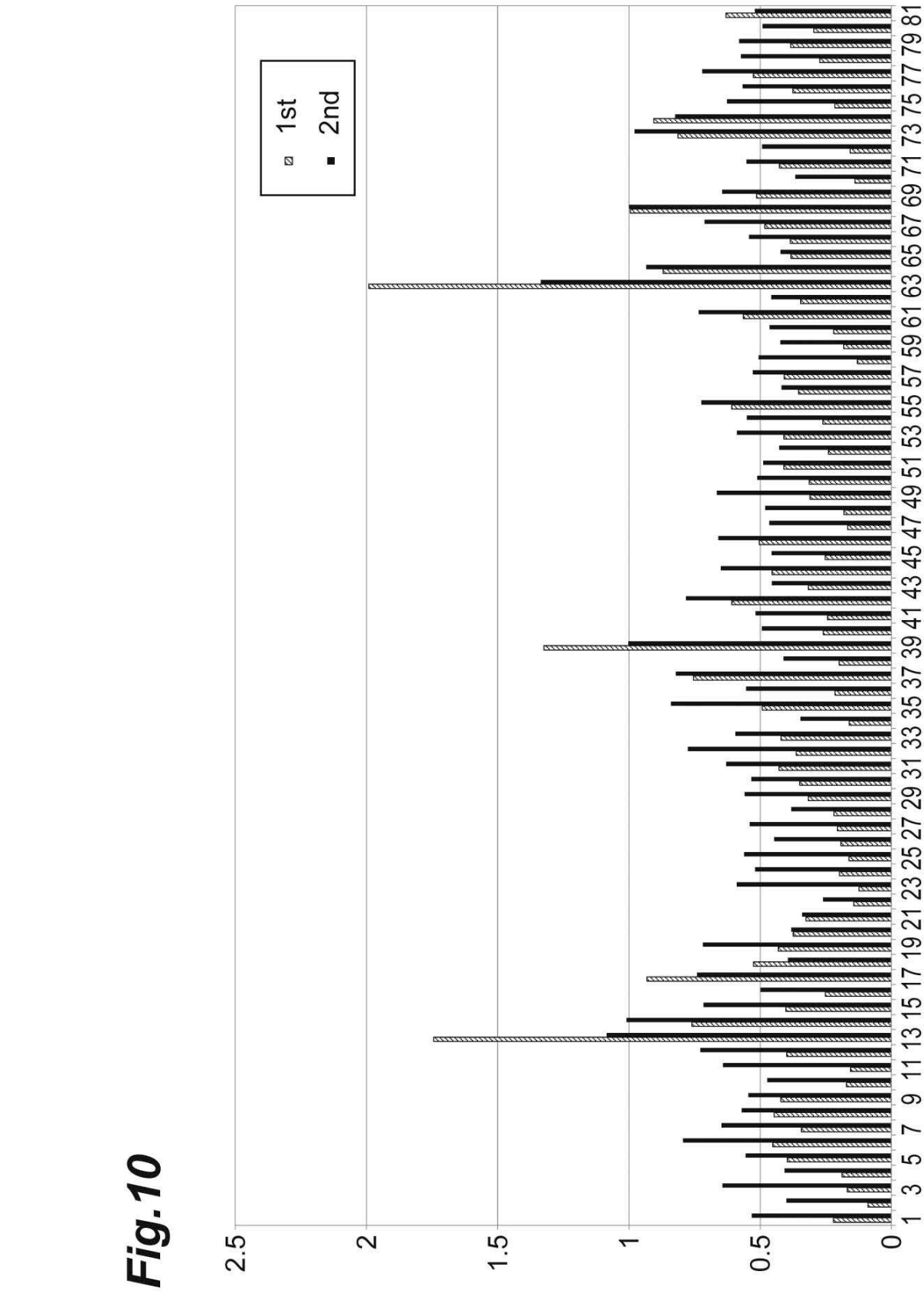

1st
2nd
2.5
2
1.5
1
0.5
0
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81

Fig.11

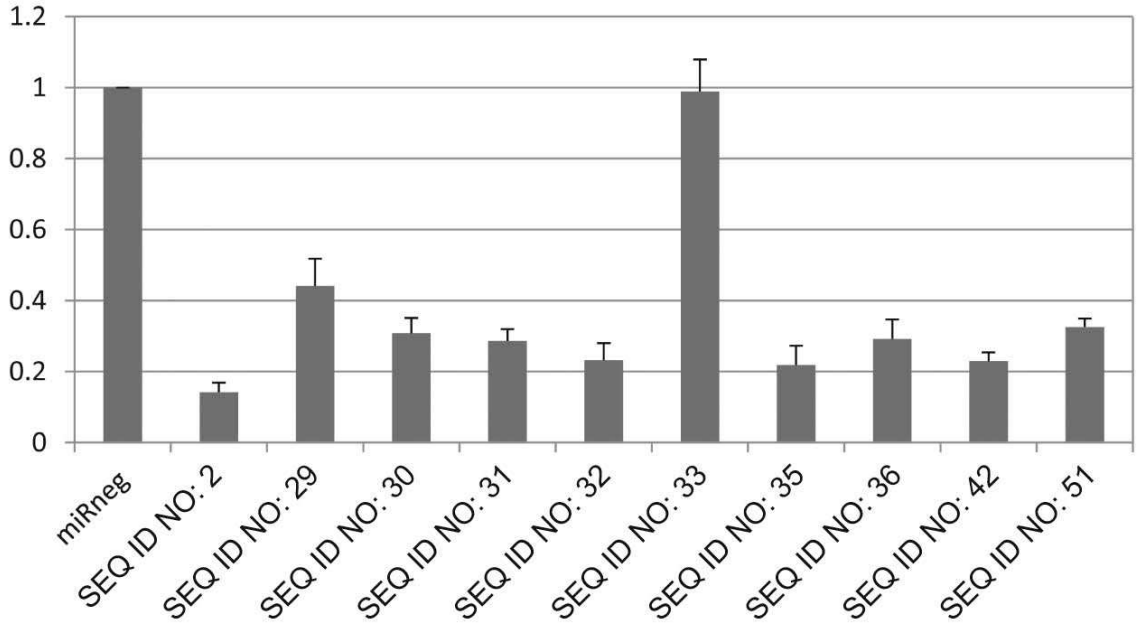

1.2
1
0.8
0.6
0.4
0.2
0
miRneg
SEQ ID NO: 2
SEQ ID NO: 29
SEQ ID NO: 30
SEQ ID NO: 31
SEQ ID NO: 32
SEQ ID NO: 33
SEQ ID NO: 35
SEQ ID NO: 36
SEQ ID NO: 42
SEQ ID NO: 51

Fig.12

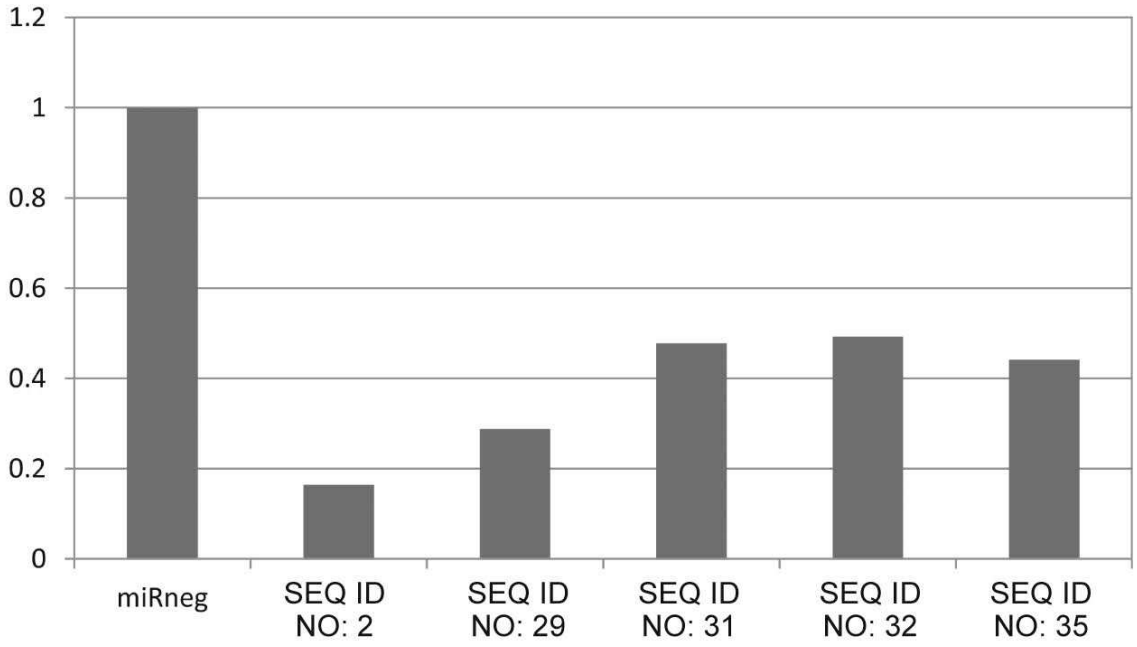
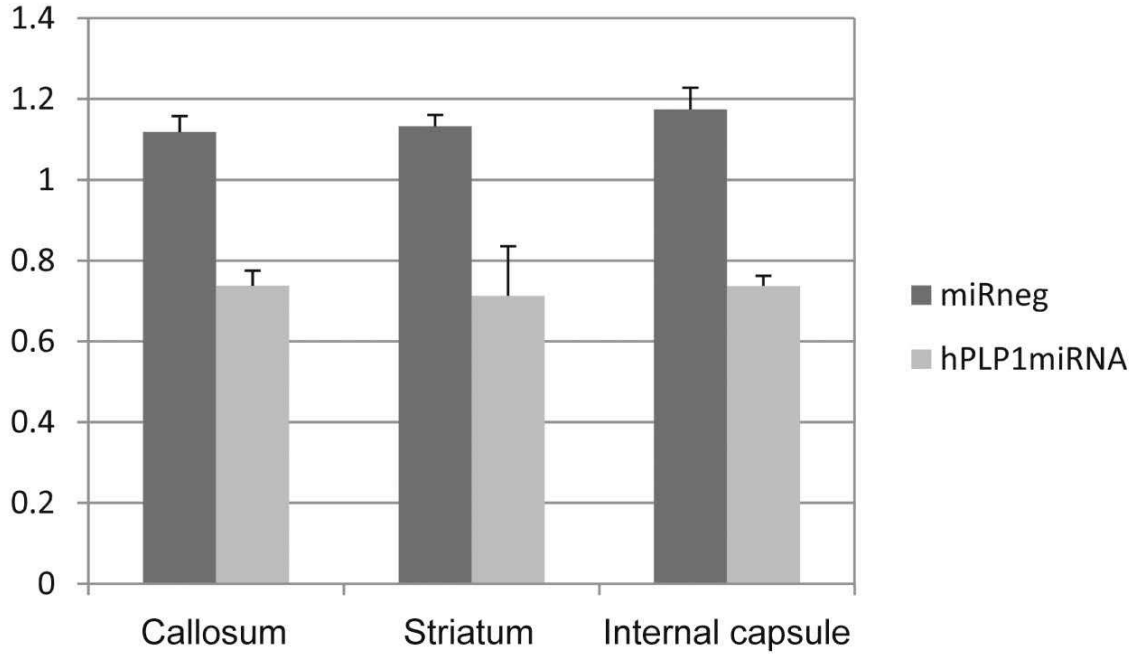

1.2
1
0.8
0.6
0.4
0.2
0
miRneg
SEQ ID NO: 2
SEQ ID NO: 29
SEQ ID NO: 31
SEQ ID NO: 32
SEQ ID NO: 35

Fig.13


1.4
1.2
1
0.8
0.6
0.4
0.2
0
Callosum
Striatum
Internal capsule
miRneg
hPLP1miRNA