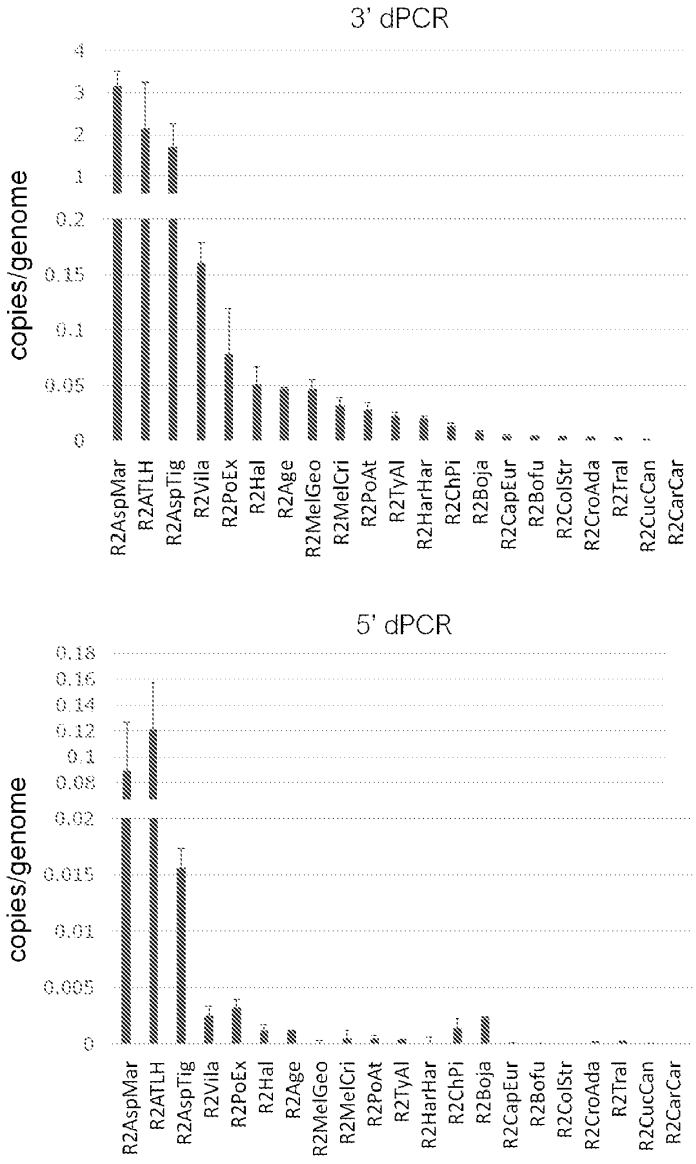

3' dPCR
copies/genome
4
3
2
1
0.2
0.15
0.1
0.05
0
R2AspMar
R2ATLH
R2AspTig
R2Vila
R2PoEx
R2Hal
R2Age
R2MelGeo
R2MelCri
R2PoAt
R2TyAl
R2HarHar
R2ChPi
R2Boja
R2CapEur
R2Bofu
R2ColStr
R2CroAda
R2Tral
R2CucCan
R2CarCar
5' dPCR
copies/genome
0.18
0.16
0.14
0.12
0.1
0.08
0.02
0.015
0.01
0.005
0
R2AspMar
R2ATLH
R2AspTig
R2Vila
R2PoEx
R2Hal
R2Age
R2MelGeo
R2MelCri
R2PoAt
R2TyAl
R2HarHar
R2ChPi
R2Boja
R2CapEur
R2Bofu
R2ColStr
R2CroAda
R2Tral
R2CucCan
R2CarCar

FIG. 1

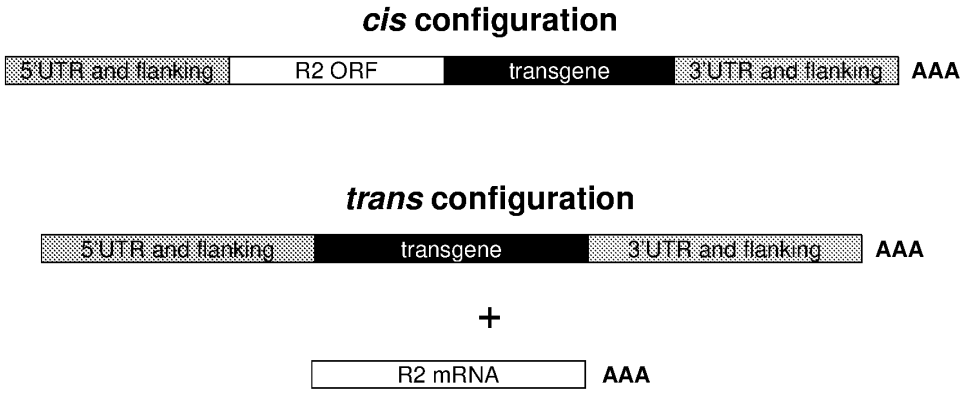

cis configuration
5'UTR and flanking
R2 ORF
transgene
3'UTR and flanking
AAA
trans configuration
5'UTR and flanking
transgene
3'UTR and flanking
AAA
+
R2 mRNA
AAA

FIG. 2

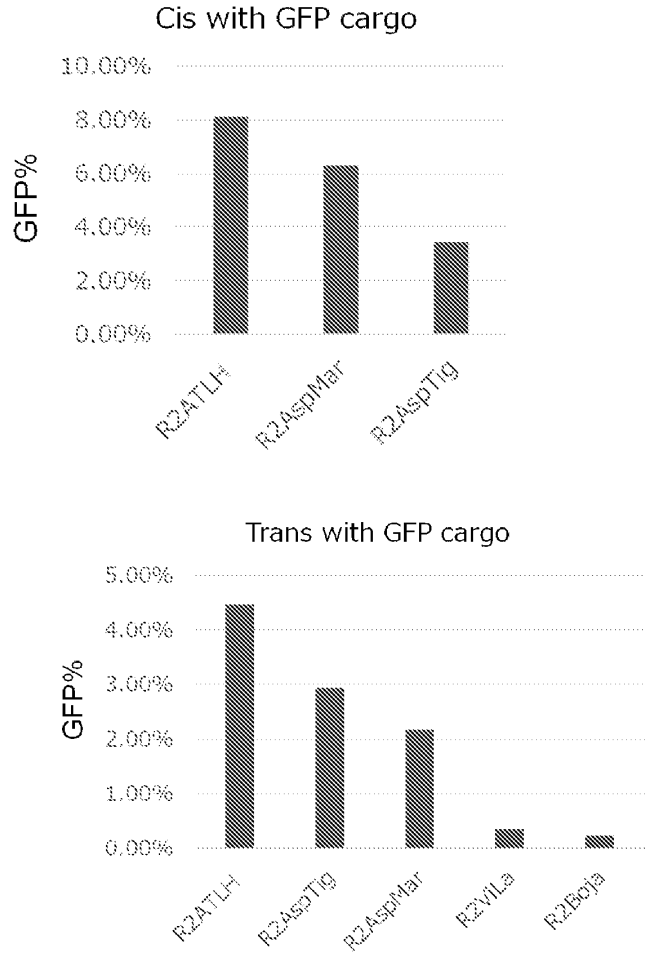

Cis with GFP cargo
GFP%
10.00%
8.00%
6.00%
4.00%
2.00%
0.00%
R2ATLH
R2AspMar
R2AspTig
Trans with GFP cargo
GFP%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
R2ATLH
R2AspTig
R2AspMar
R2ViLa
R2Boja

FIG. 3

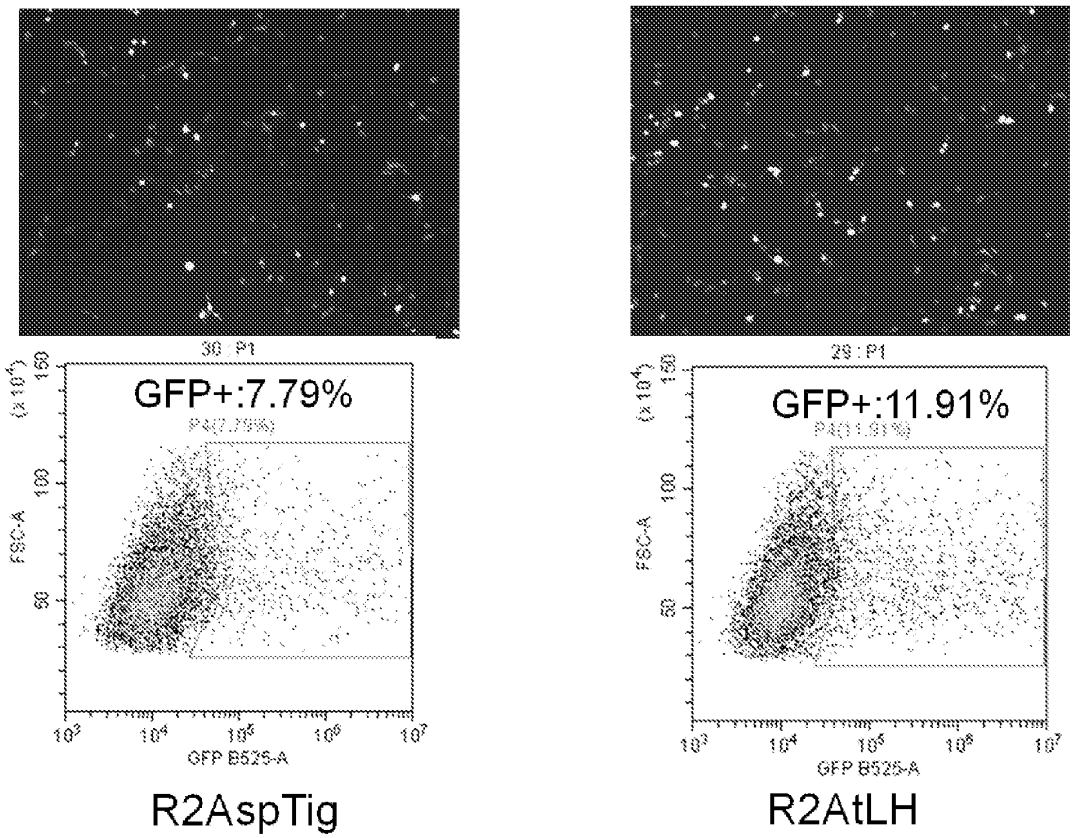

30 : P1
GFP+:7.79%
P4(7.79%)
FSC-A
GFP B525-A
R2AspTig
29 : P1
GFP+:11.91%
P4(11.91%)
FSC-A
GFP B525-A
R2AtLH

FIG. 4

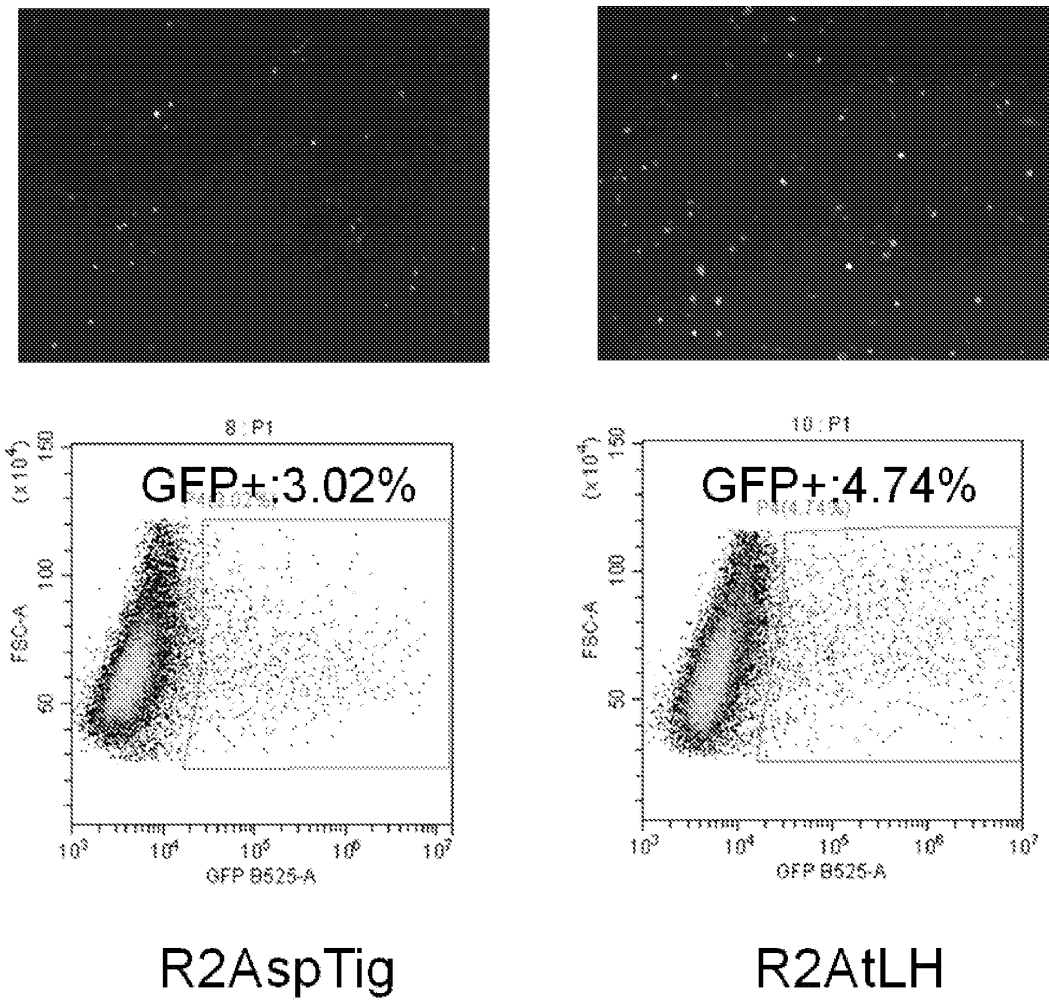

8 : P1
GFP+:3.02%
FSC-A
GFP B525-A
10 : P1
GFP+:4.74%
FSC-A
GFP B525-A
R2AspTig
R2AtLH

FIG. 5

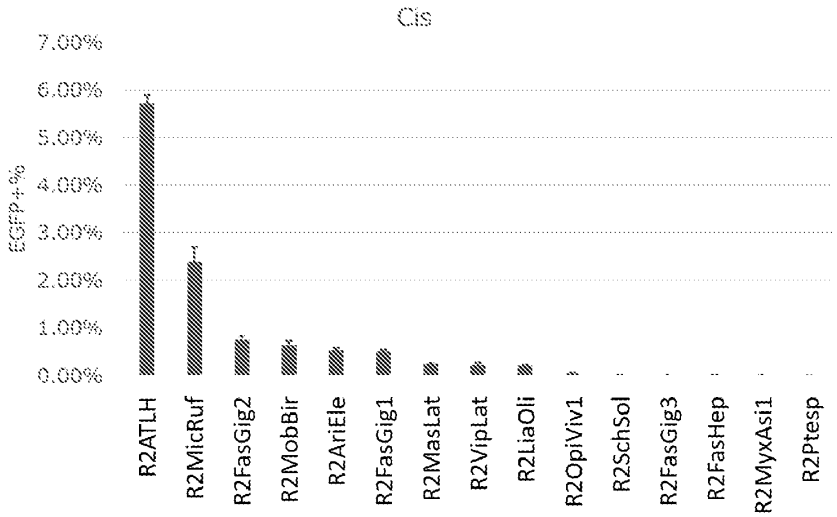

Cis
7.00%
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
EGFP+%
R2ATLH
R2MicRuf
R2FasGig2
R2MobBir
R2AriEle
R2FasGig1
R2MasLat
R2VipLat
R2LiaOli
R2OpiViv1
R2SchSol
R2FasGig3
R2FasHep
R2MyxAsi1
R2Ptesp

FIG. 6

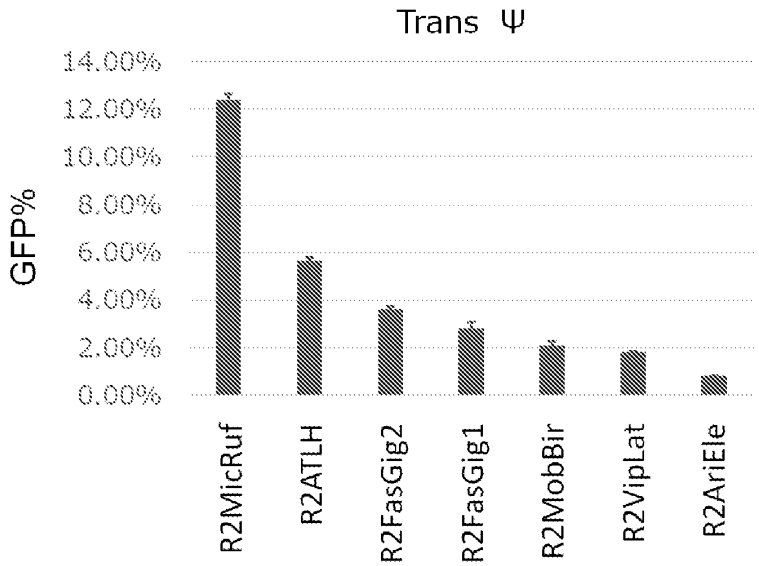

Trans Ψ
14.00%
12.00%
10.00%
8.00%
6.00%
4.00%
2.00%
0.00%
GFP%
R2MicRuf
R2ATLH
R2FasGig2
R2FasGig1
R2MobBir
R2VipLat
R2AriEle

FIG. 7