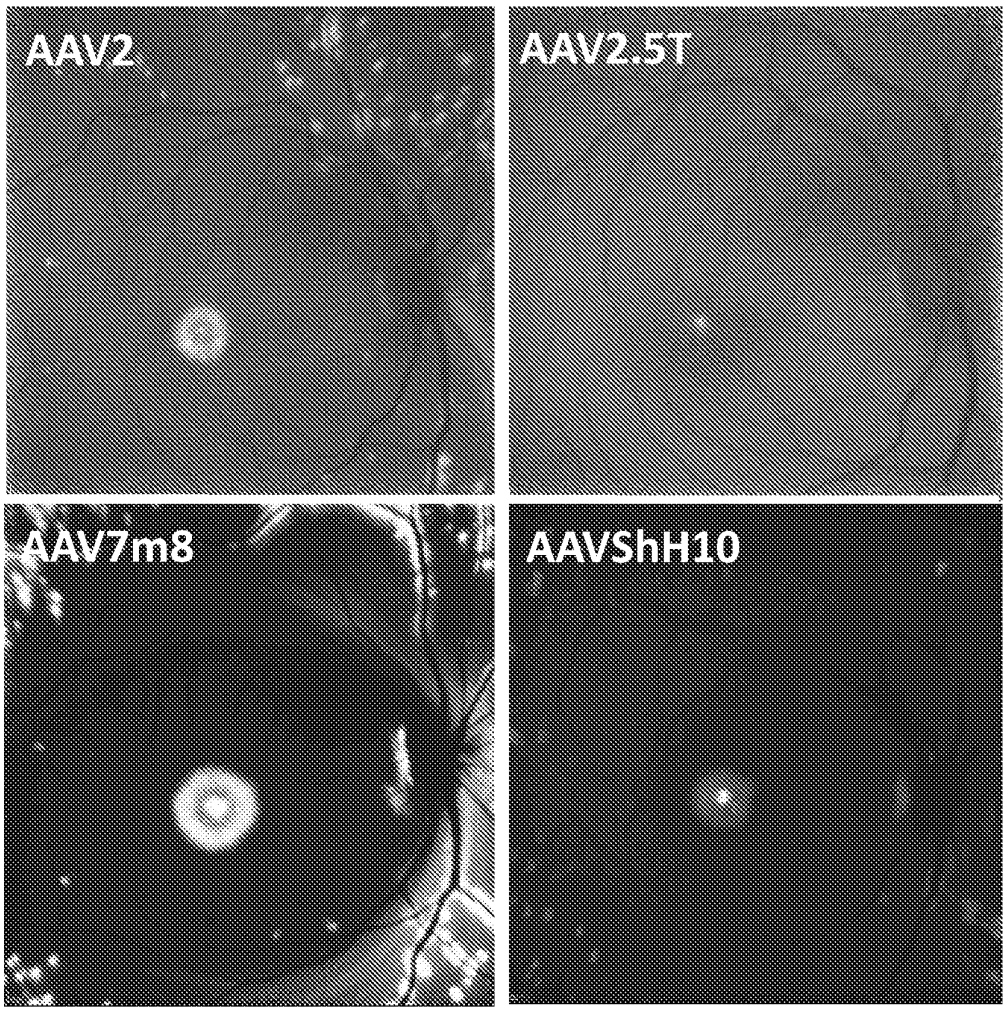


FIG. 1

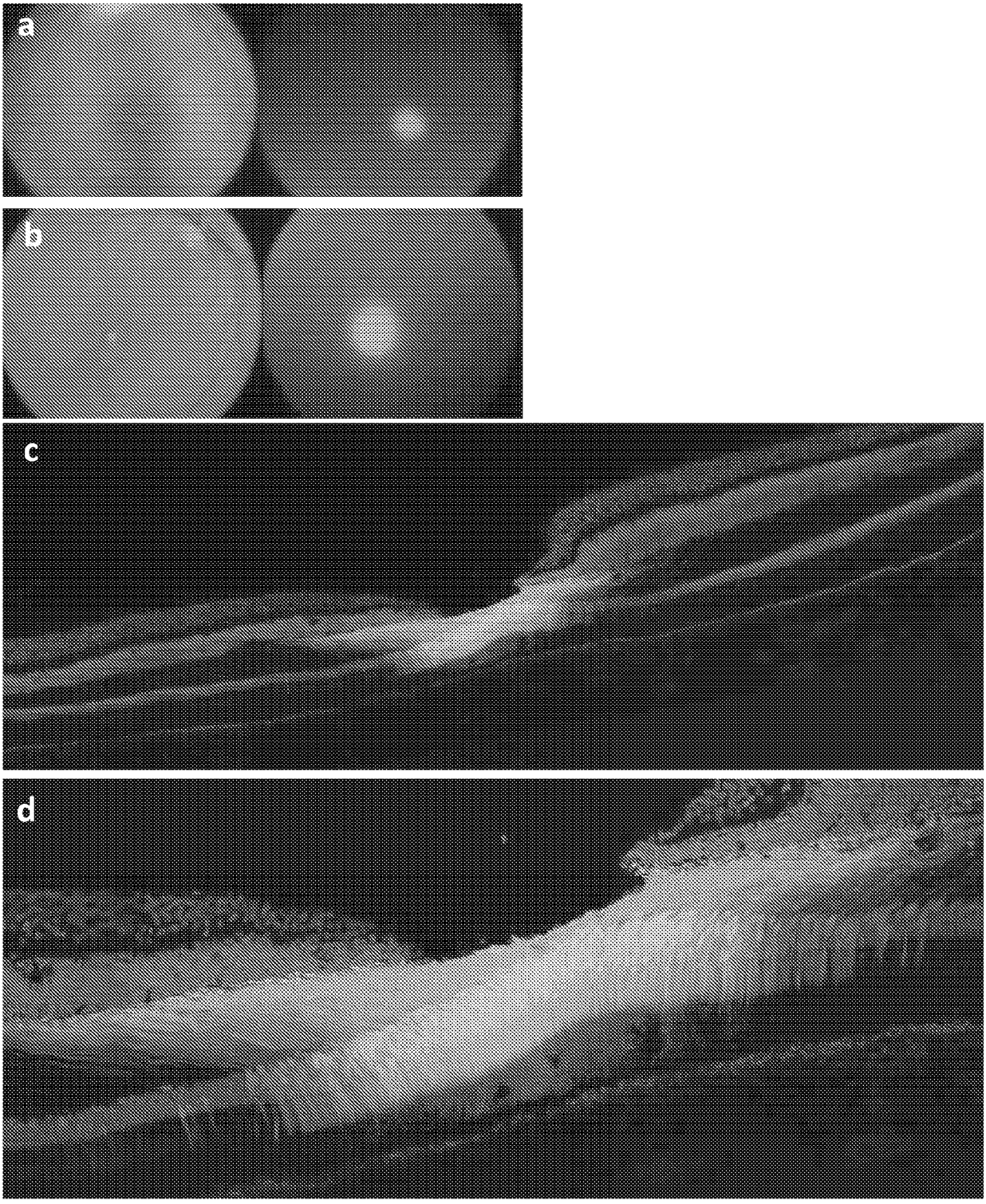


FIG. 2

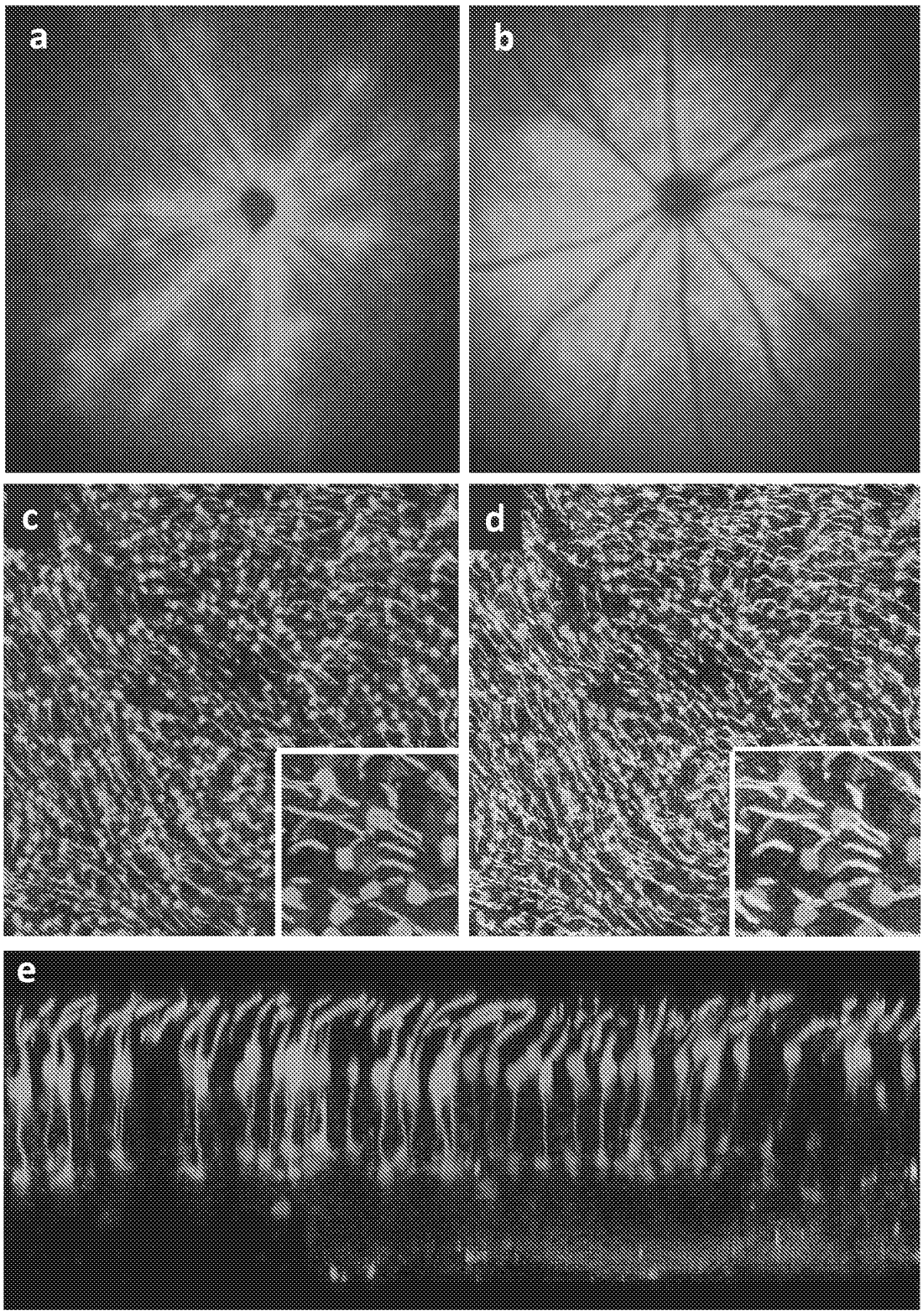


FIG. 3

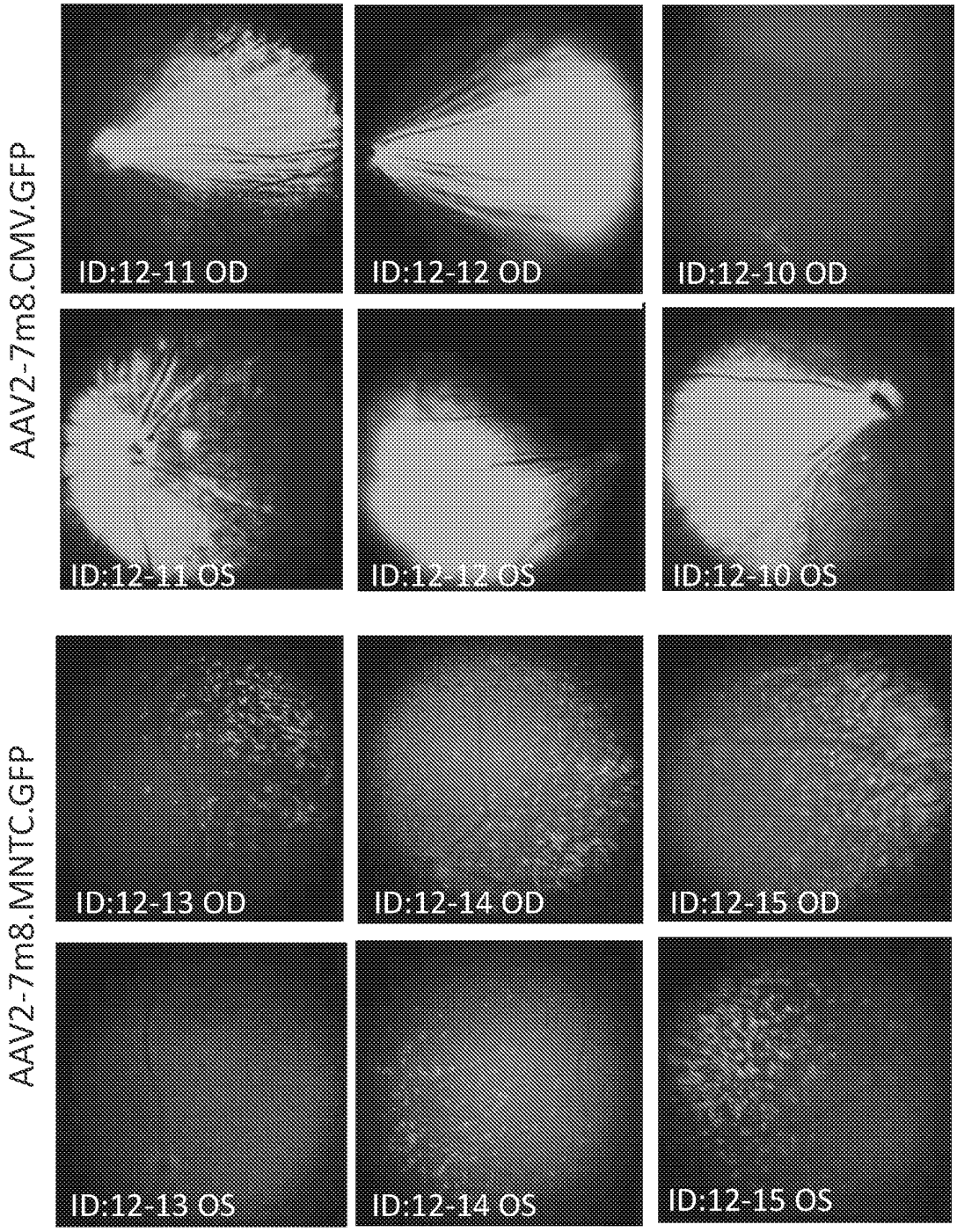

AAV2-7m8.CMV.GFP
ID:12-11 OD
ID:12-12 OD
ID:12-10 OD
ID:12-11 OS
ID:12-12 OS
ID:12-10 OS
AAV2-7m8.MNTC.GFP
ID:12-13 OD
ID:12-14 OD
ID:12-15 OD
ID:12-13 OS
ID:12-14 OS
ID:12-15 OS

FIG. 4A

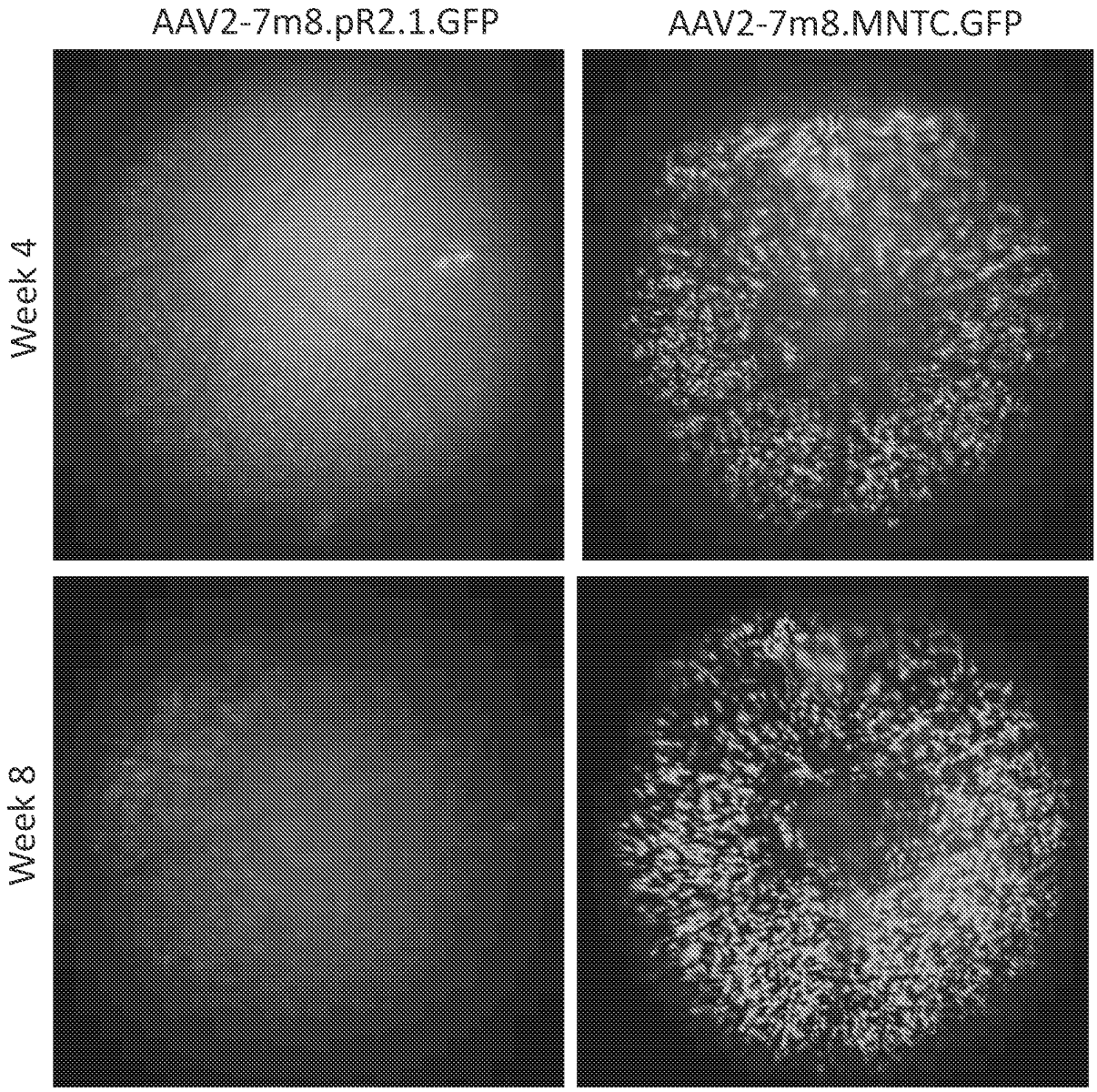


FIG. 4B

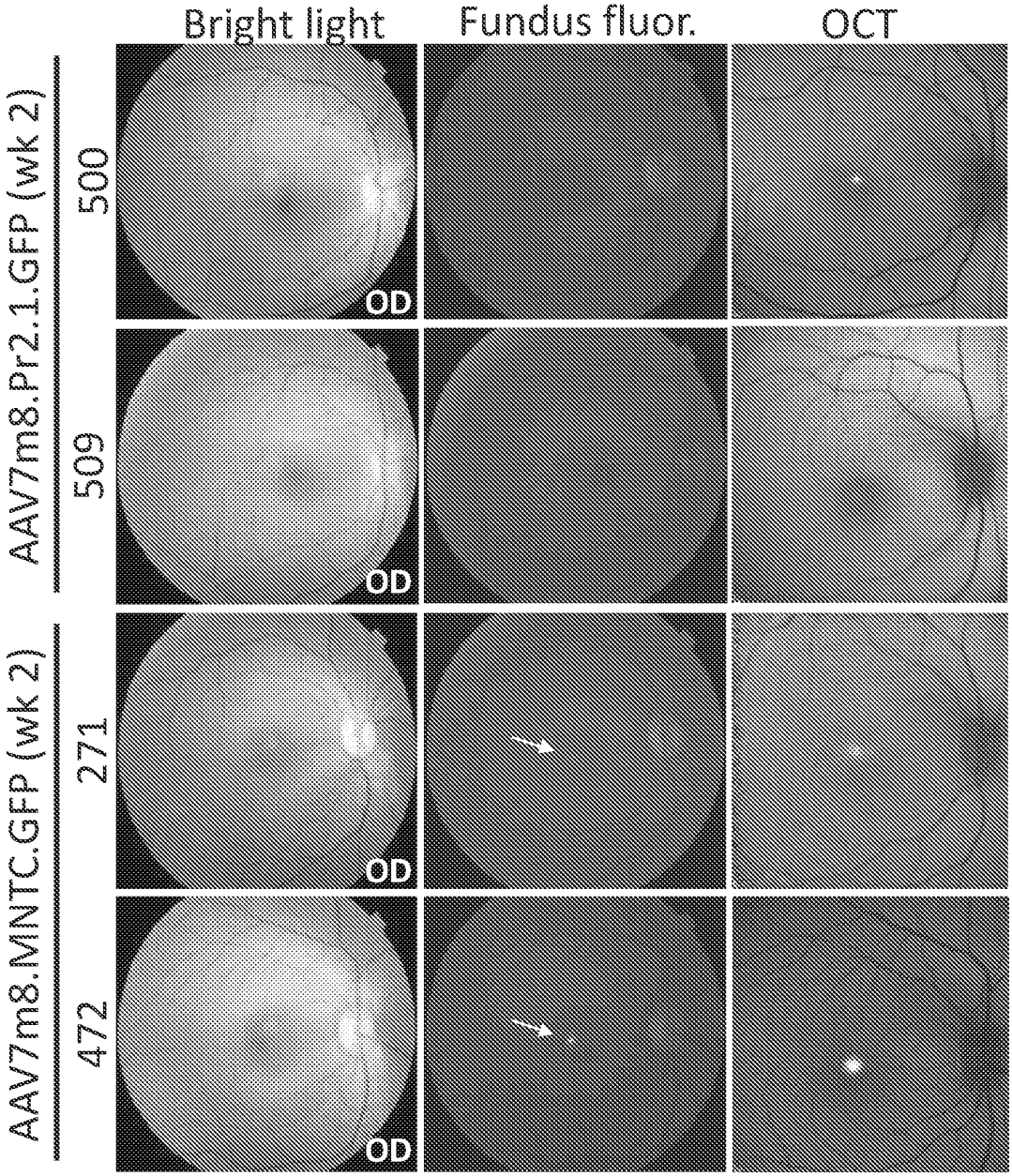

Bright light
Fundus fluor.
OCT
AAV7m8.Pr2.1.GFP (wk 2)
500
509
AAV7m8.MNTC.GFP (wk 2)
271
472
OD
OD
OD
OD

FIG. 5A

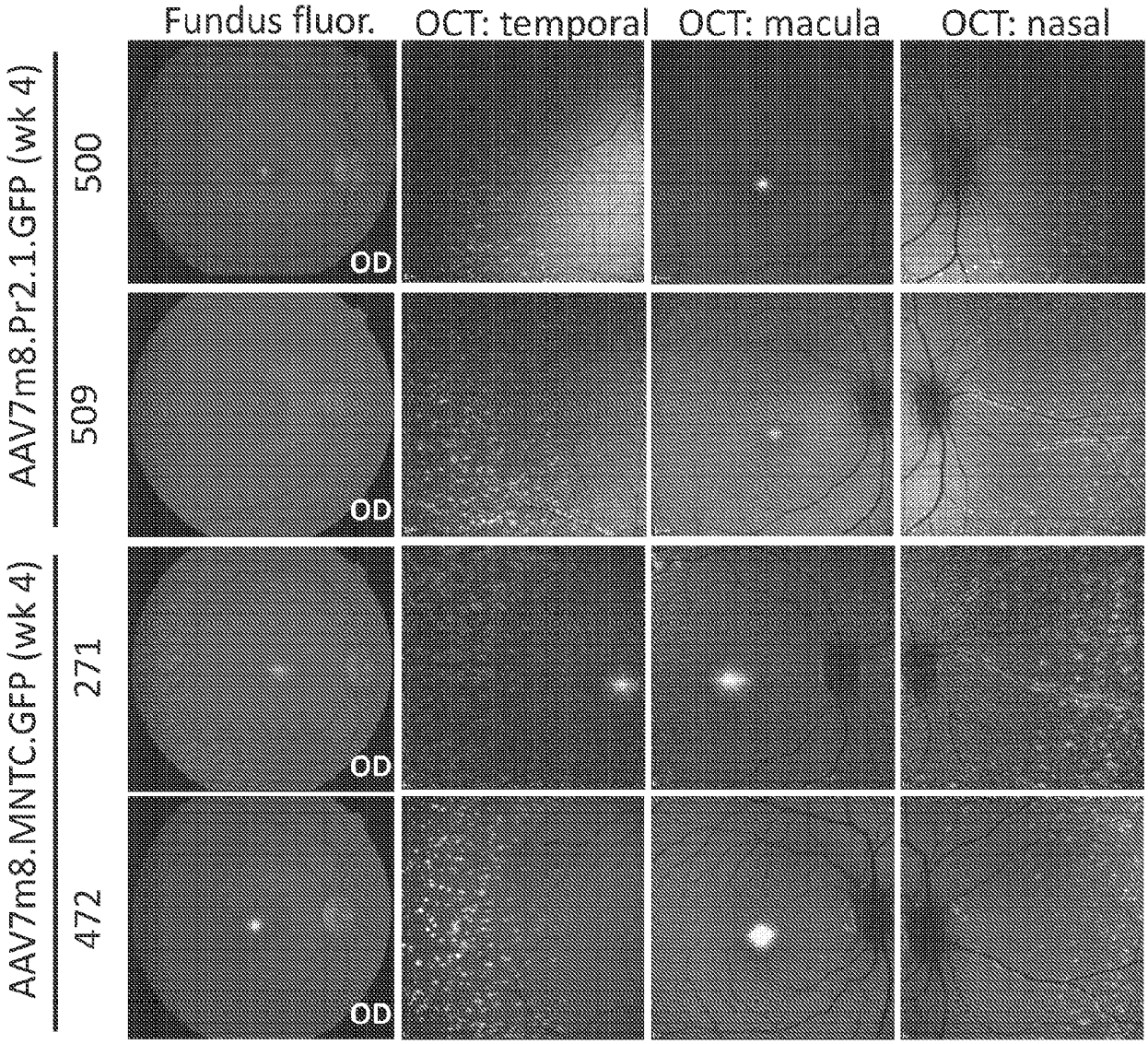

Fundus fluor.
OCT: temporal
OCT: macula
OCT: nasal
AAV7m8.Pr2.1.GFP (wk 4)
500
509
AAV7m8.MNTC.GFP (wk 4)
271
472
OD
OD
OD
OD

FIG. 5B

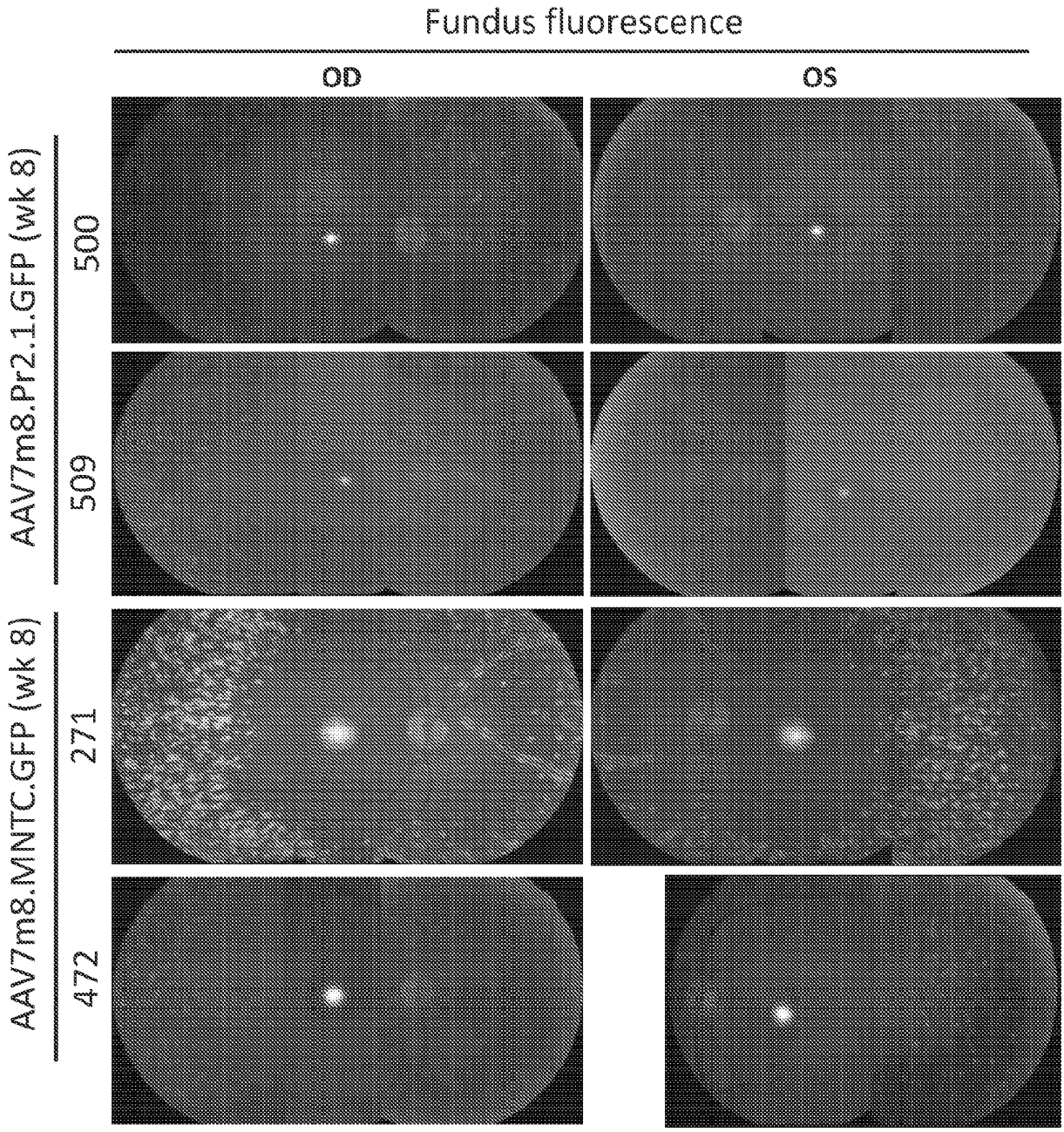

Fundus fluorescence
OD
OS
AAV7m8.Pr2.1.GFP (wk 8)
500
509
AAV7m8.MNTC.GFP (wk 8)
271
472

FIG. 5C

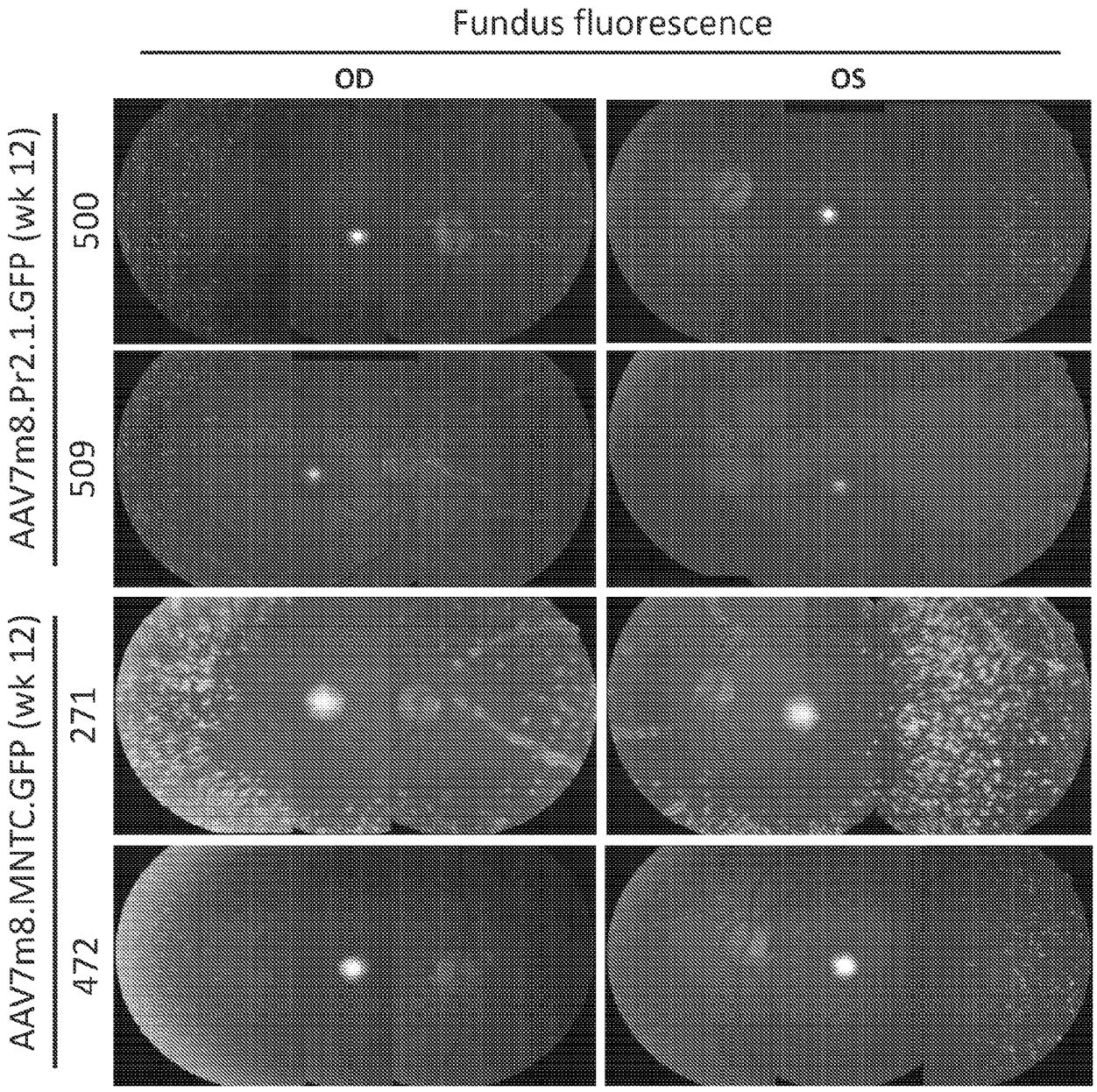

Fundus fluorescence
OD
OS
AAV7m8.Pr2.1.GFP (wk 12)
500
509
AAV7m8.MNTC.GFP (wk 12)
271
472

FIG. 5D

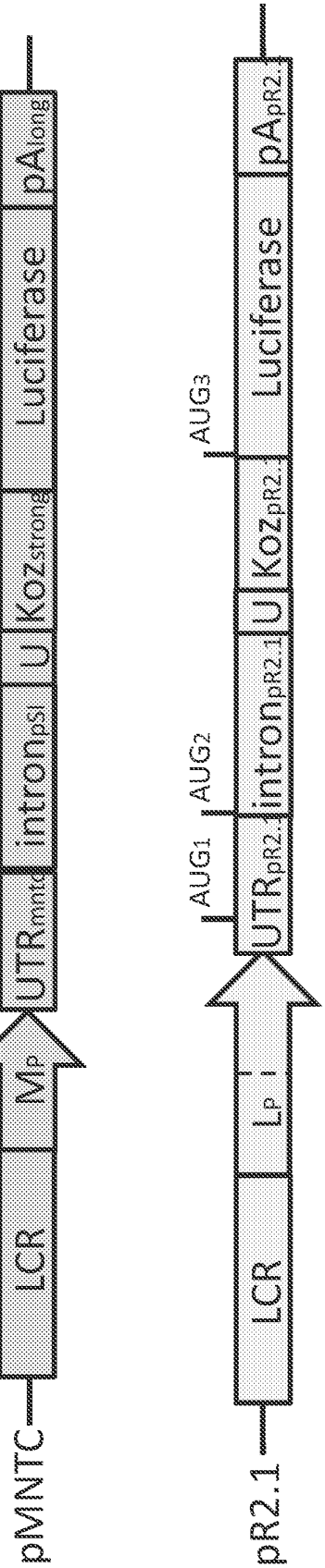

pMNTC
LCR
MP
UTRmnt
intronpSI
U
Kozstrong
AUG3
Luciferase
pAlong
pR2.1
LCR
LP
UTRpR2.1
AUG1
AUG2
intronpR2.1
U
KozpR2.1
AUG3
Luciferase
pApR2.1

FIG. 6A

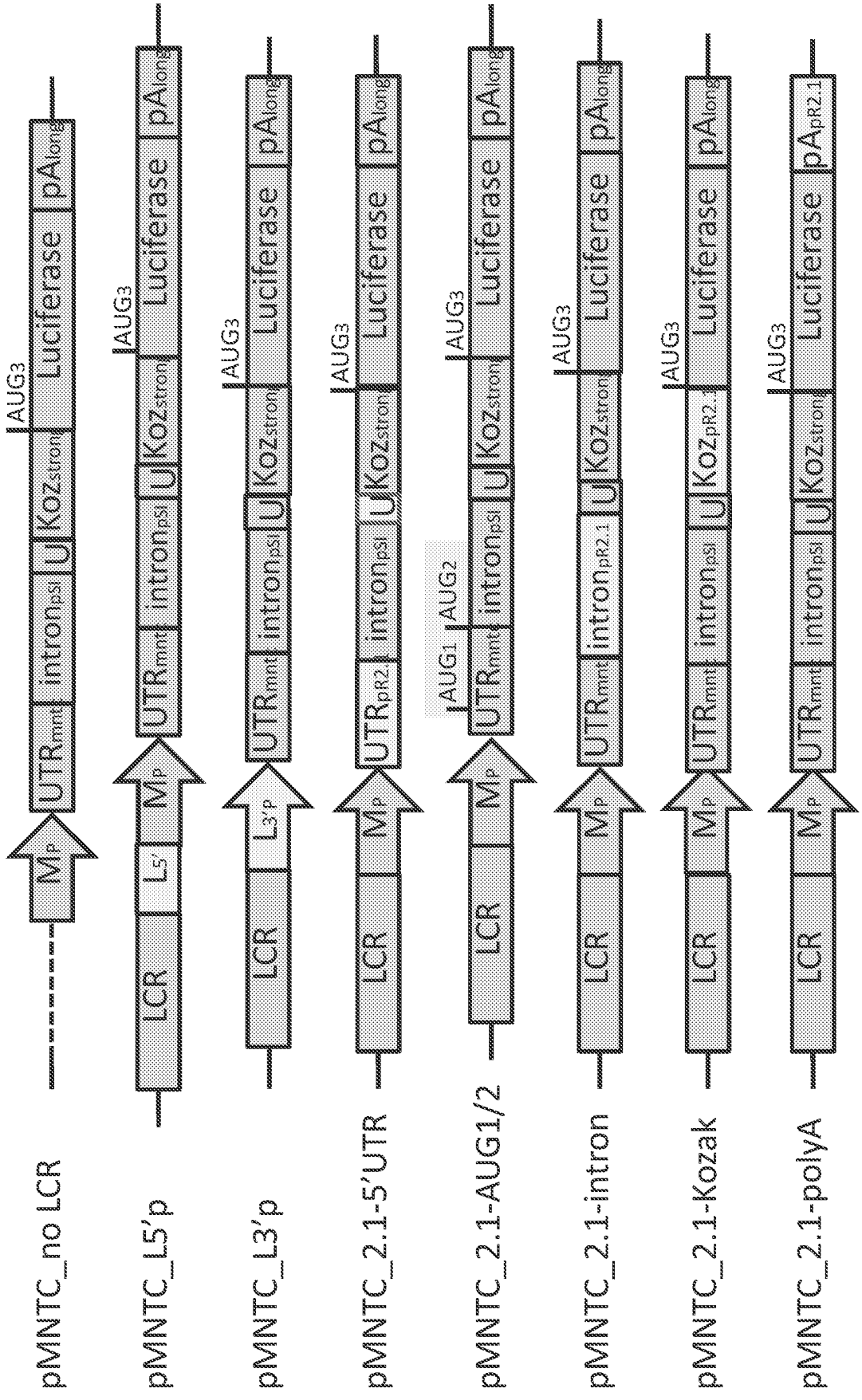

pMNTC_no LCR
pMNTC_L5'p
pMNTC_L3'p
pMNTC_2.1-5'UTR
pMNTC_2.1-AUG1/2
pMNTC_2.1-intron
pMNTC_2.1-Kozak
pMNTC_2.1-polyA
LCR
L5'
L3'p
Mp
UTRmnt
intronpsi
U
Kozstron
KozpR2.1
AUG1
AUG2
AUG3
Luciferase
pAlong
pApR2.1

FIG. 6B

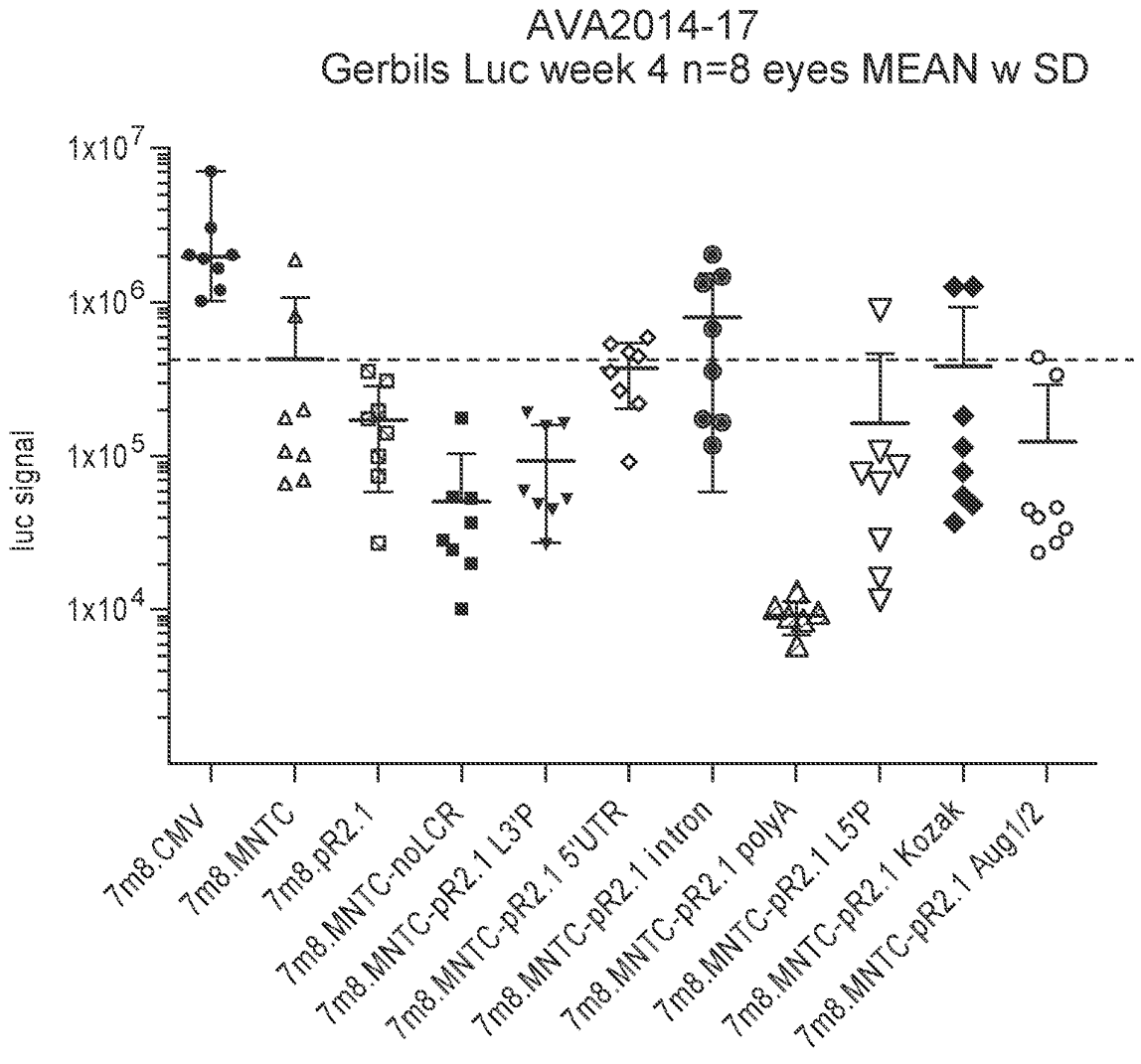

AVA2014-17
Gerbils Luc week 4 n=8 eyes MEAN w SD
luc signal
1x10^7
1x10^6
1x10^5
1x10^4
7m8.CMV
7m8.MNTC
7m8.pR2.1
7m8.MNTC-noLCR
7m8.MNTC-pR2.1 L3'P
7m8.MNTC-pR2.1 5'UTR
7m8.MNTC-pR2.1 intron
7m8.MNTC-pR2.1 polyA
7m8.MNTC-pR2.1 L5'P
7m8.MNTC-pR2.1 Kozak
7m8.MNTC-pR2.1 Aug1/2

FIG. 6C

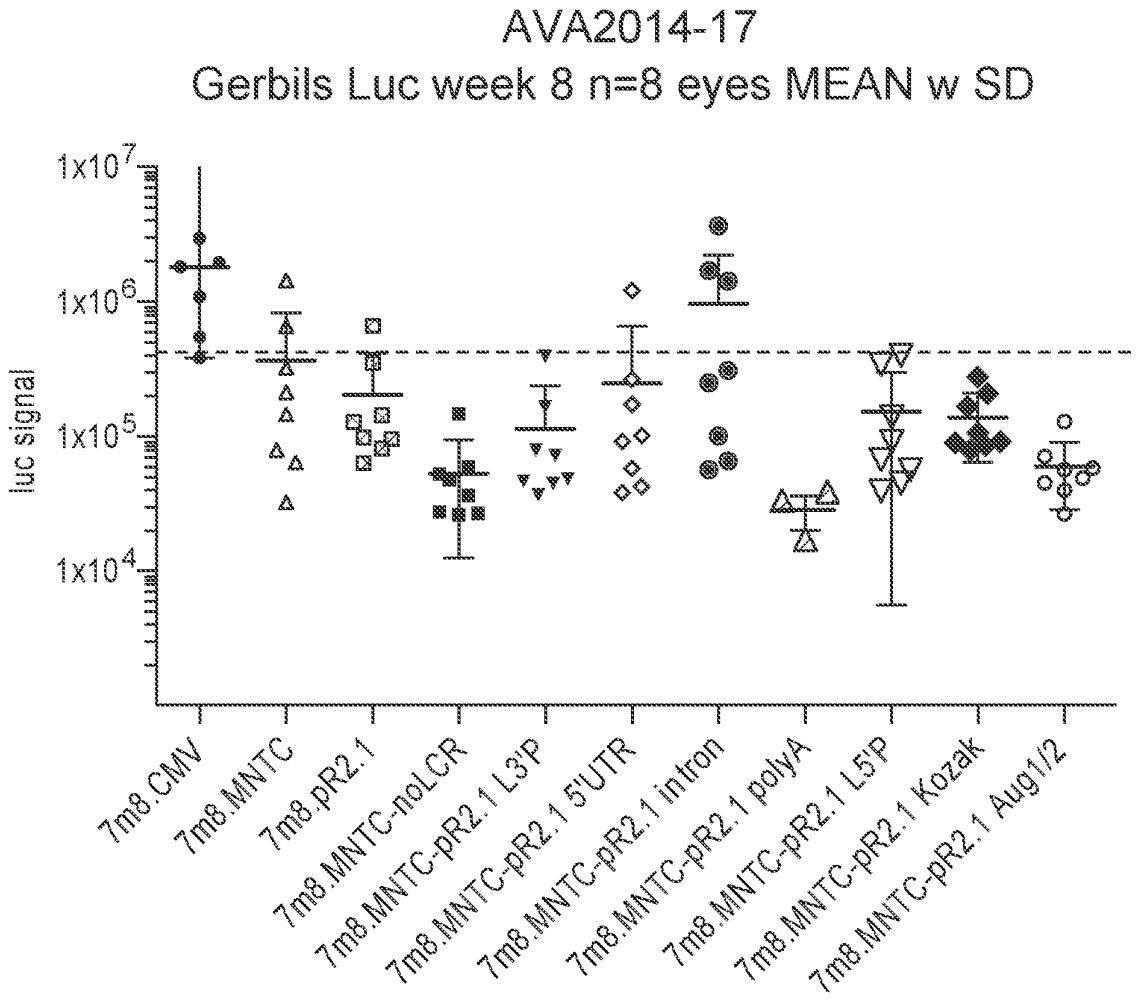

AVA2014-17
Gerbils Luc week 8 n=8 eyes MEAN w SD
luc signal
1x10^7
1x10^6
1x10^5
1x10^4
7m8.CMV
7m8.MNTC
7m8.pR2.1
7m8.MNTC-noLCR
7m8.MNTC-pR2.1 L3'P
7m8.MNTC-pR2.1 5'UTR
7m8.MNTC-pR2.1 intron
7m8.MNTC-pR2.1 polyA
7m8.MNTC-pR2.1 L5'P
7m8.MNTC-pR2.1 Kozak
7m8.MNTC-pR2.1 Aug1/2

FIG. 6D

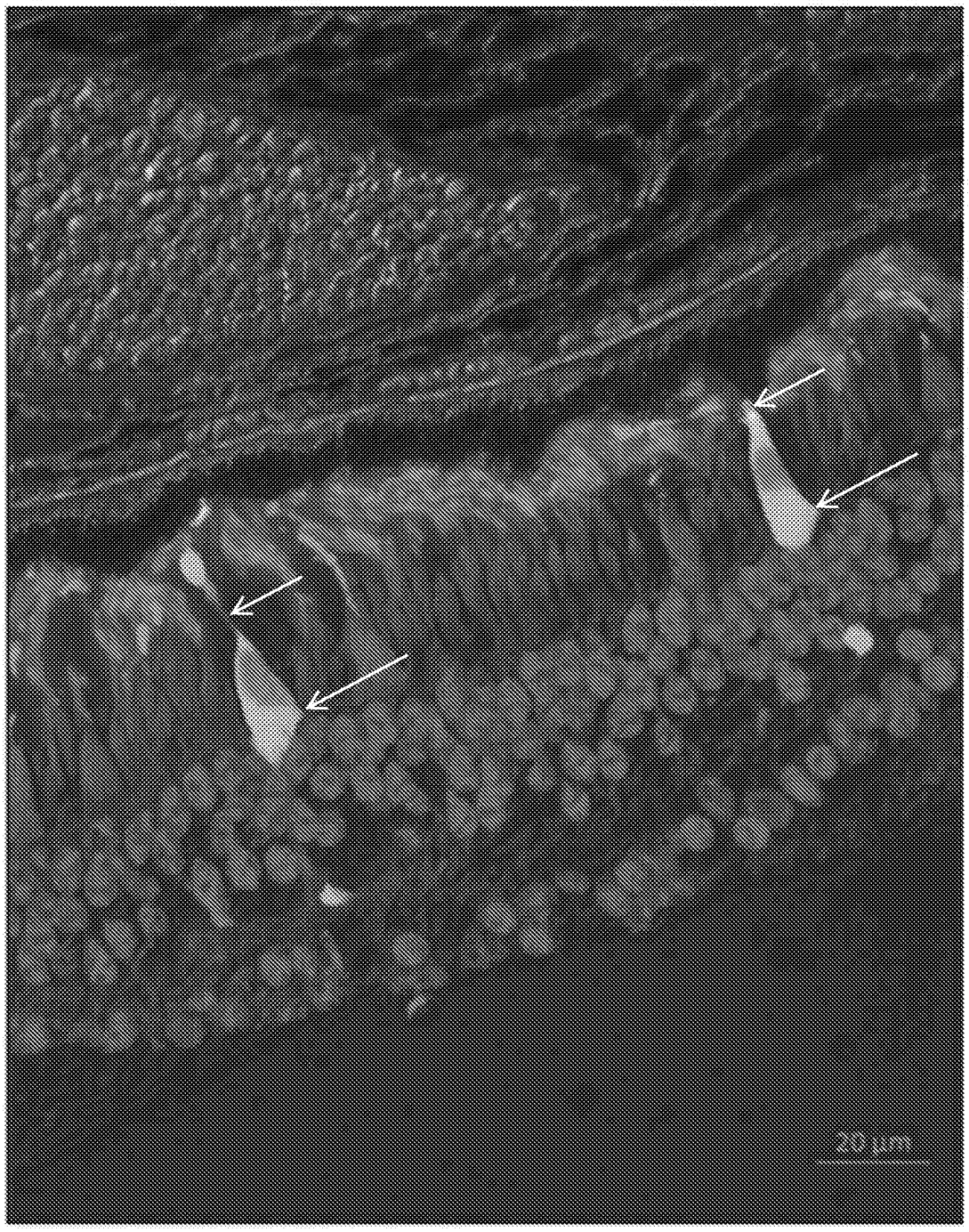


FIG. 7