Figure 1

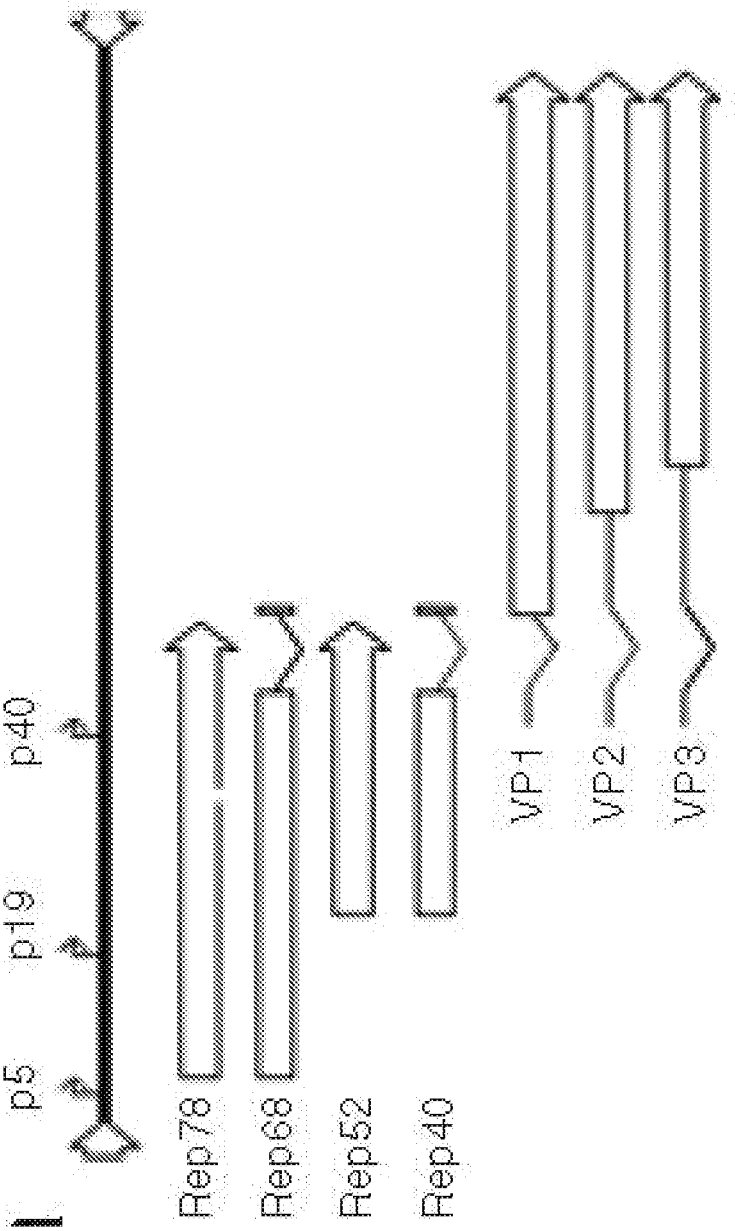


Figure 2A

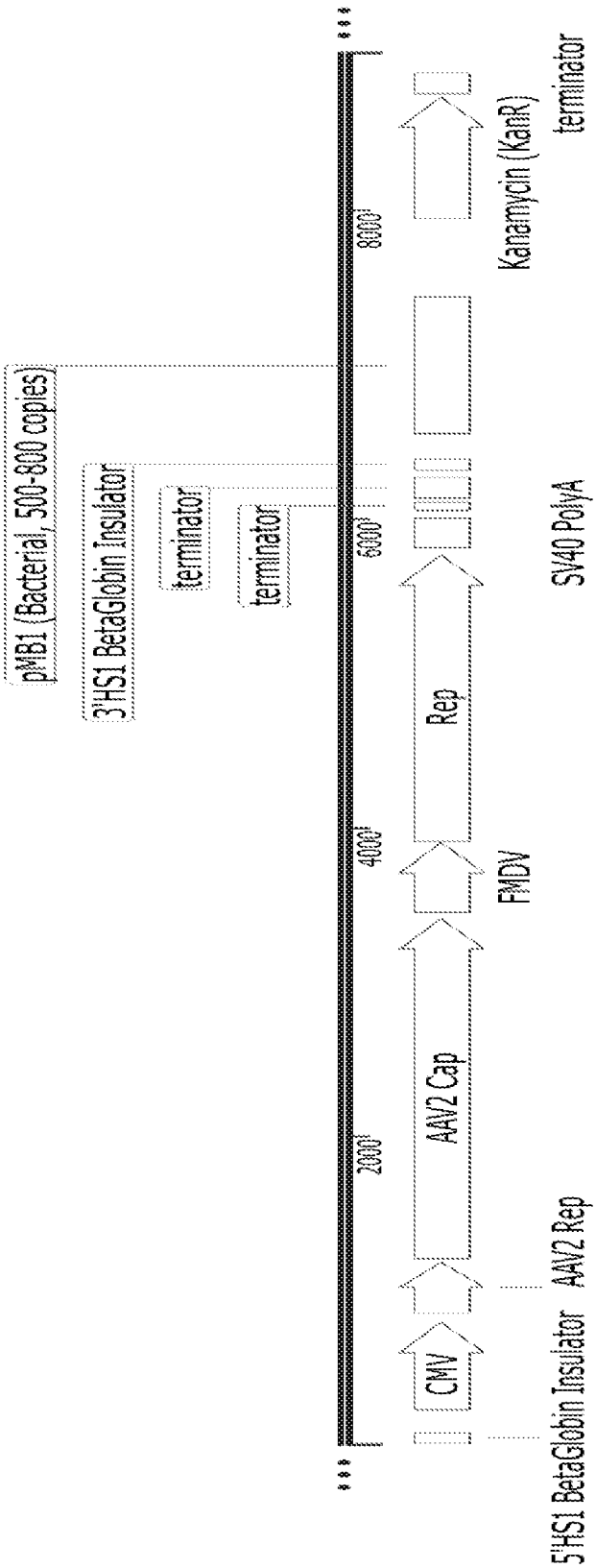

pMB1 (Bacterial, 500-800 copies)
3'HS1 BetaGlobin Insulator
terminator
terminator
2000
4000
6000
8000
CMV
AAV2 Cap
FMDV
Rep
SV40 PolyA
Kanamycin (KanR)
terminator
5'HS1 BetaGlobin Insulator
AAV2 Rep

Figure 2B

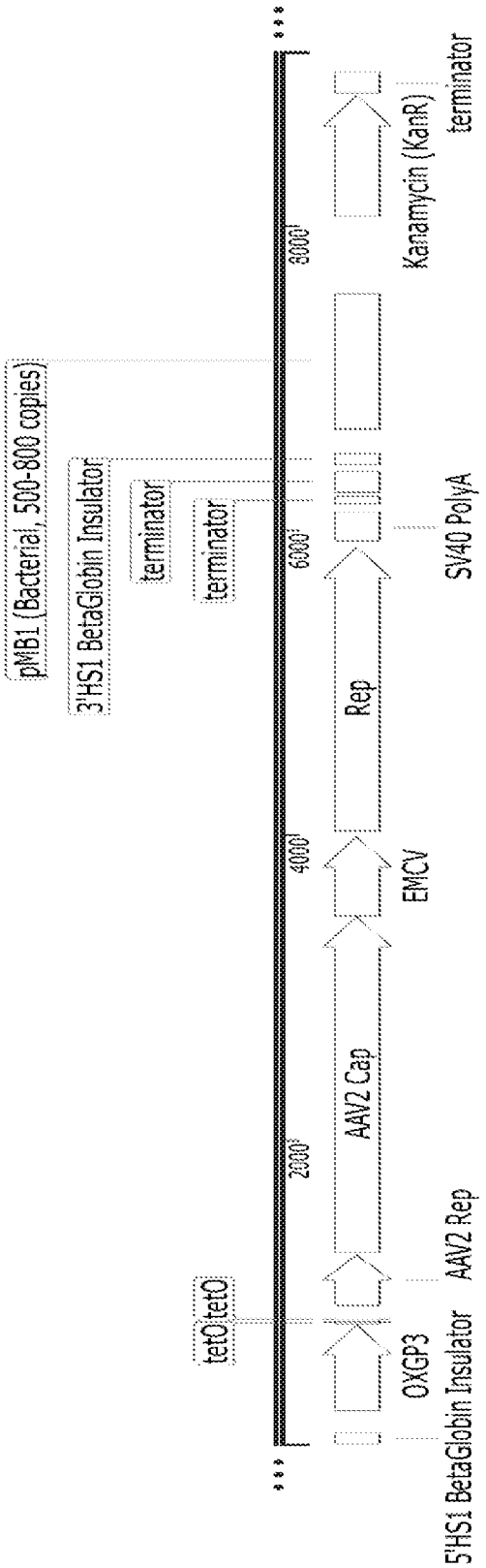

pMB1 (Bacterial, 500-800 copies)
3'HS1 BetaGlobin Insulator
terminator
terminator
tetO tetO
2000
4000
6000
8000
AAV2 Cap
Rep
Kanamycin (KanR)
terminator
EMCV
SV40 PolyA
OXGP3
AAV2 Rep
5'HS1 BetaGlobin Insulator

Figure 2C

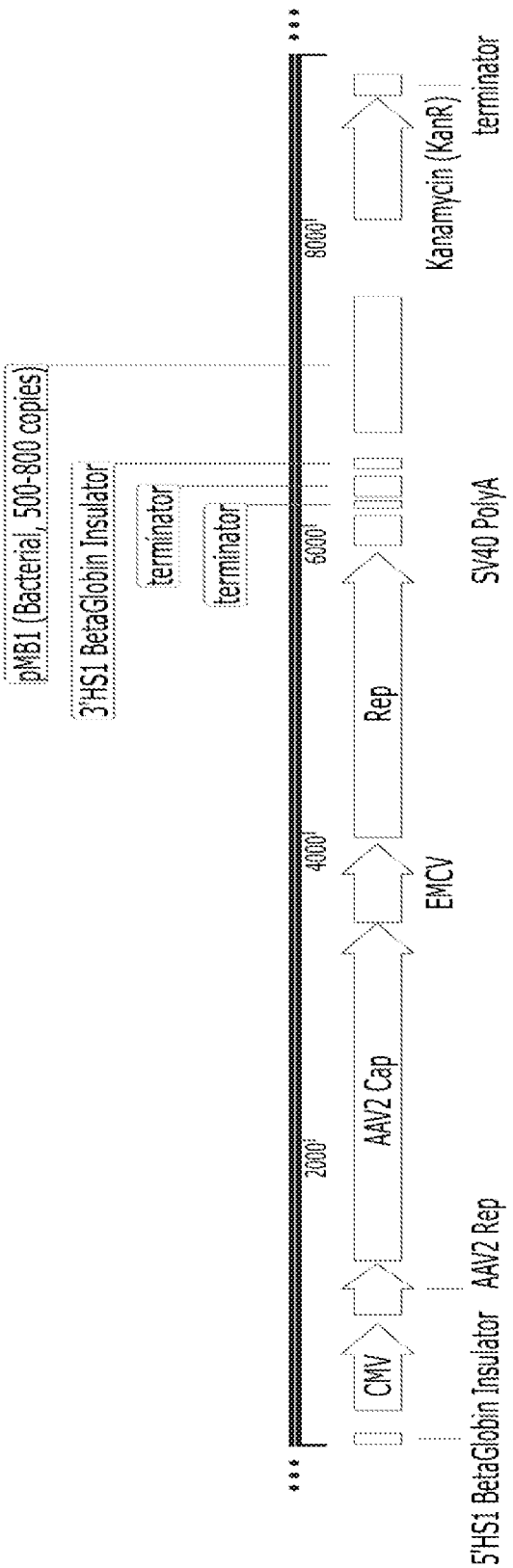

pMB1 (Bacterial, 500-800 copies)
3'HS1 BetaGlobin Insulator
terminator
terminator
2000
4000
6000
8000
CMV
AAV2 Cap
Rep
EMCV
SV40 PolyA
Kanamycin (KanR)
terminator
5'HS1 BetaGlobin Insulator
AAV2 Rep

Figure 3

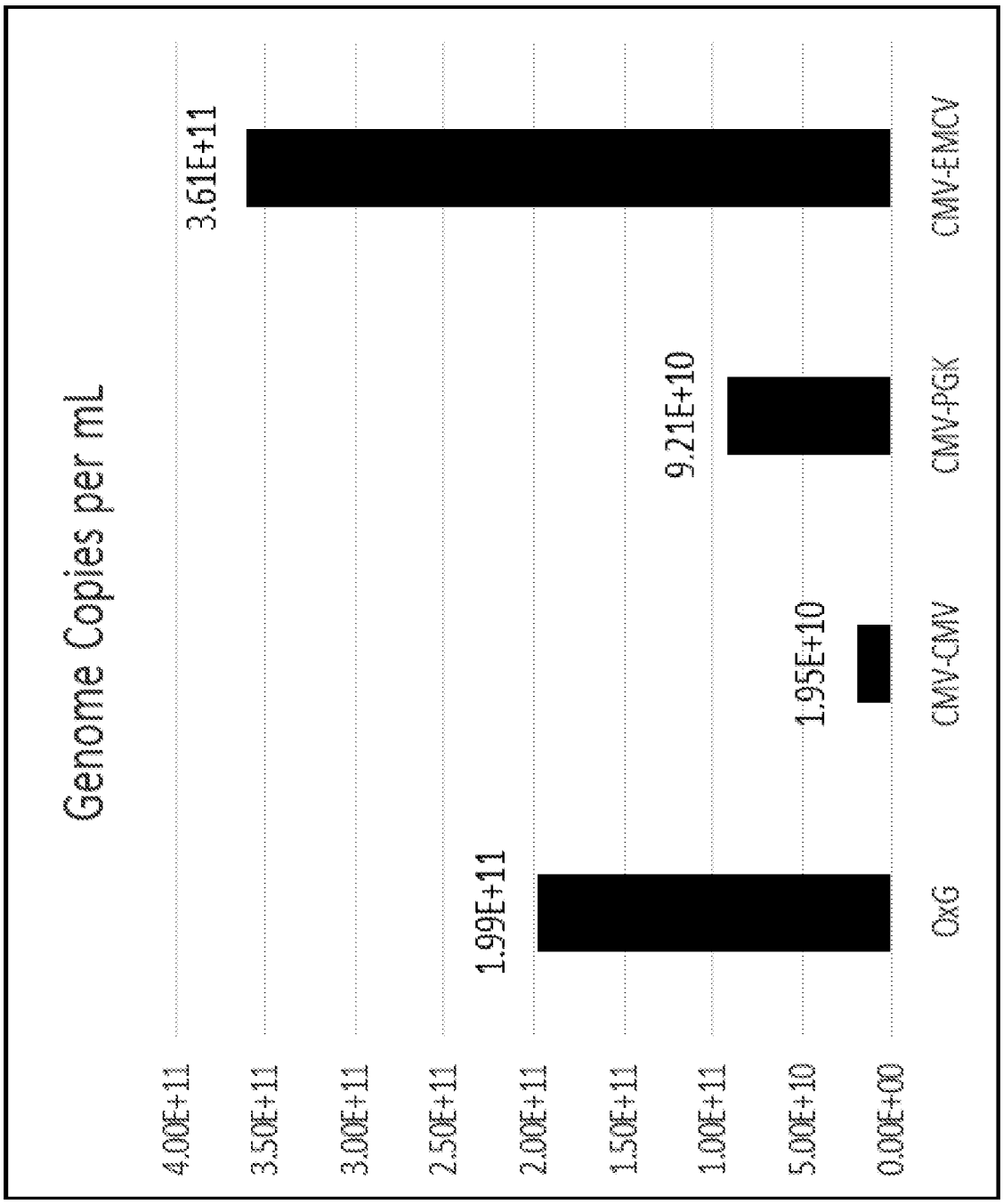

Genome Copies per mL
4.00E+11
3.50E+11
3.00E+11
2.50E+11
2.00E+11
1.50E+11
1.00E+11
5.00E+10
0.00E+00
1.99E+11
1.95E+10
9.21E+10
3.61E+11
OxG
CMV-CMV
CMV-PGK
CMV-EMCV

Figure 4

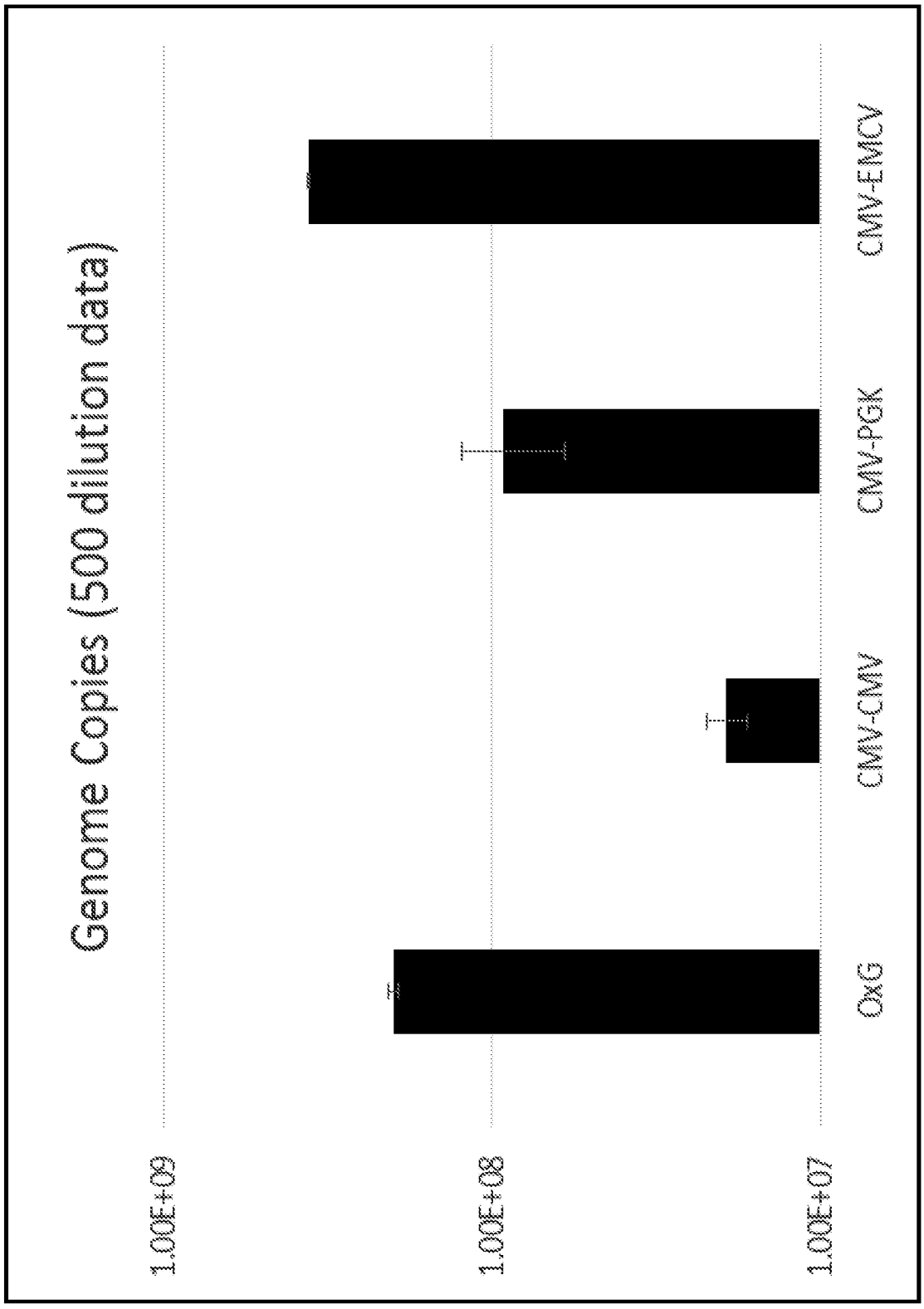

Genome Copies (500 dilution data)
1.00E+09
1.00E+08
1.00E+07
OxG
CMV-CMV
CMV-PGK
CMV-EMCV

Figure 5

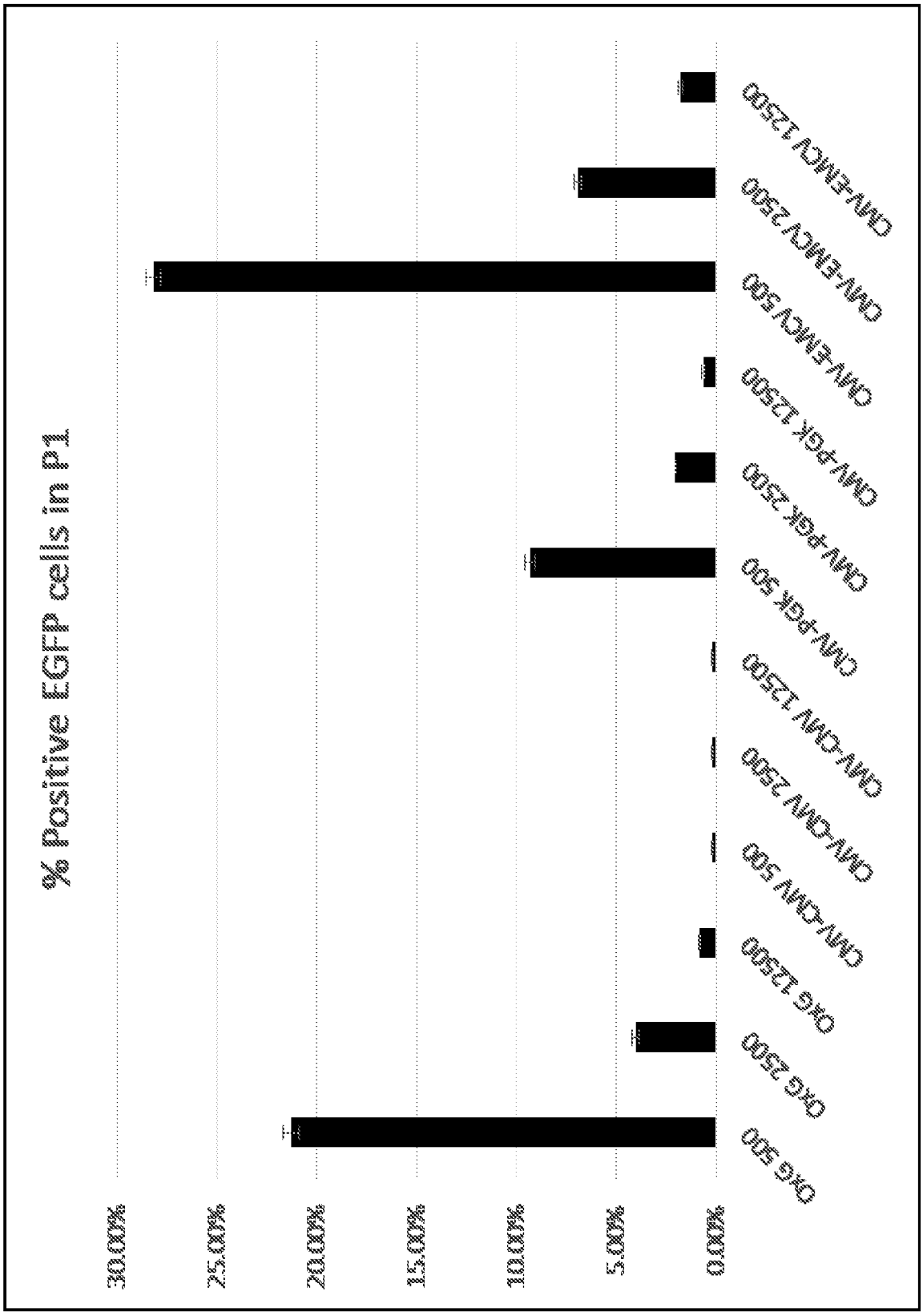

% Positive EGFP cells in P1
30.00%
25.00%
20.00%
15.00%
10.00%
5.00%
0.00%
DXG 500
DXG 2500
DXG 12500
CMV-CMV 500
CMV-CMV 2500
CMV-CMV 12500
CMV-PGK 500
CMV-PGK 2500
CMV-PGK 12500
CMV-EMCV 500
CMV-EMCV 2500
CMV-EMCV 12500

Figure 6

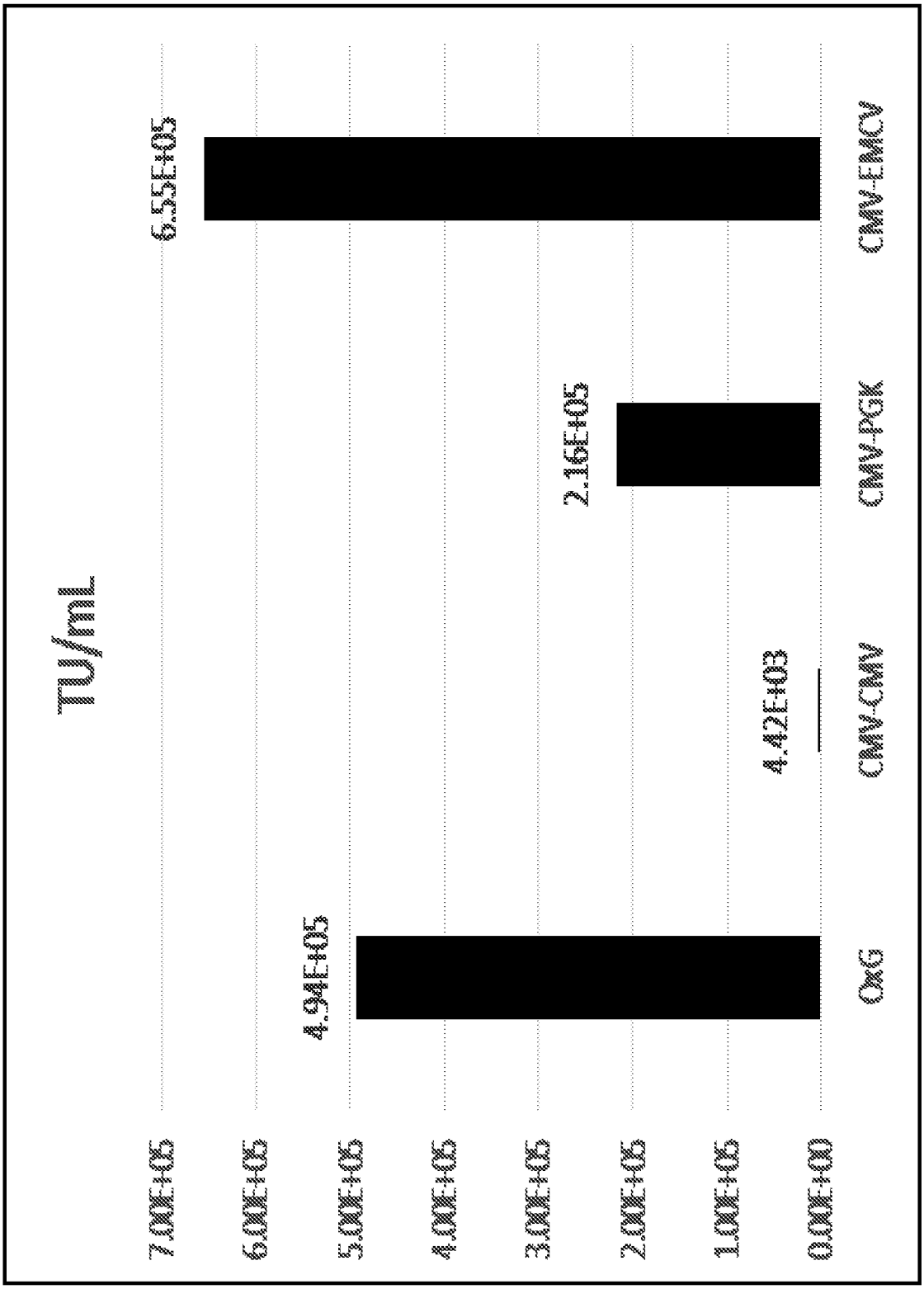

TU/mL
7.00E+06
6.00E+06
5.00E+06
4.00E+06
3.00E+06
2.00E+06
1.00E+06
0.00E+00
4.94E+05
4.42E+03
2.16E+05
6.55E+05
OxG
CMV-CMV
CMV-PGK
CMV-EMCV

Figure 7

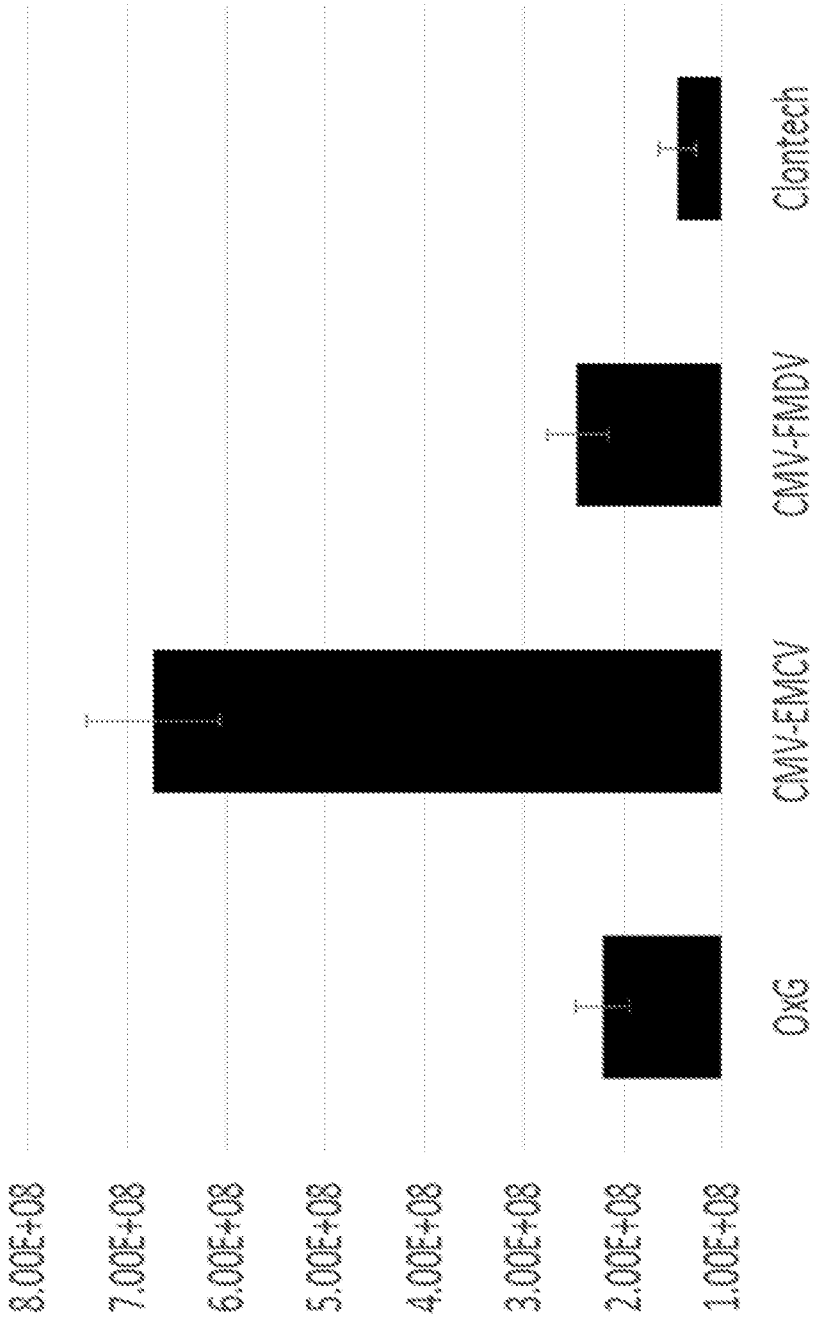

8.00E+08
7.00E+08
6.00E+08
5.00E+08
4.00E+08
3.00E+08
2.00E+08
1.00E+08
OxG
CMV-EMCV
CMV-FMDV
Clontech

Figure 8


GC/mL
5E+11
5E+10
5E+09
1.10E+11
8.56E+10
1.73E+11
1.30E+10
OxG Pro
E4Orf6/Pro
no E2A
no Ad5 Help