Figure 1

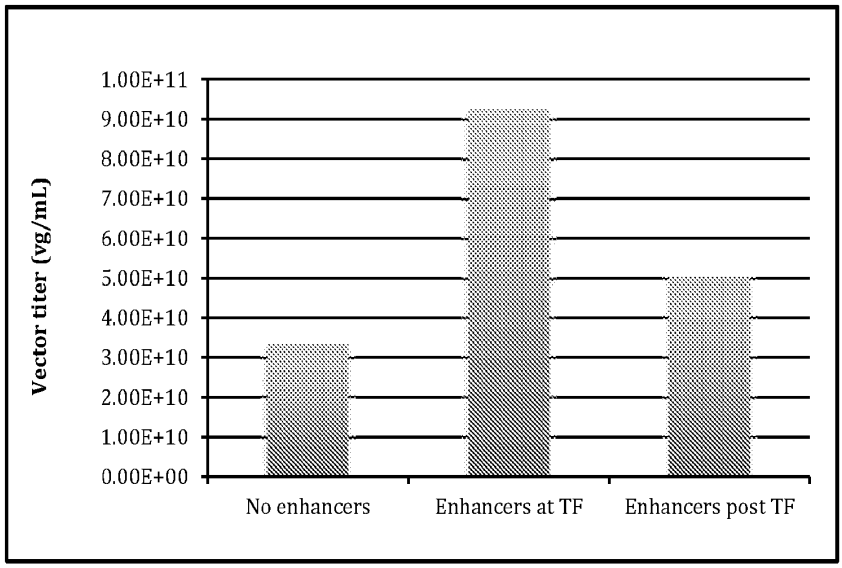

Vector titer (vg/mL)
1.00E+11
9.00E+10
8.00E+10
7.00E+10
6.00E+10
5.00E+10
4.00E+10
3.00E+10
2.00E+10
1.00E+10
0.00E+00
No enhancers
Enhancers at TF
Enhancers post TF

Figure 2

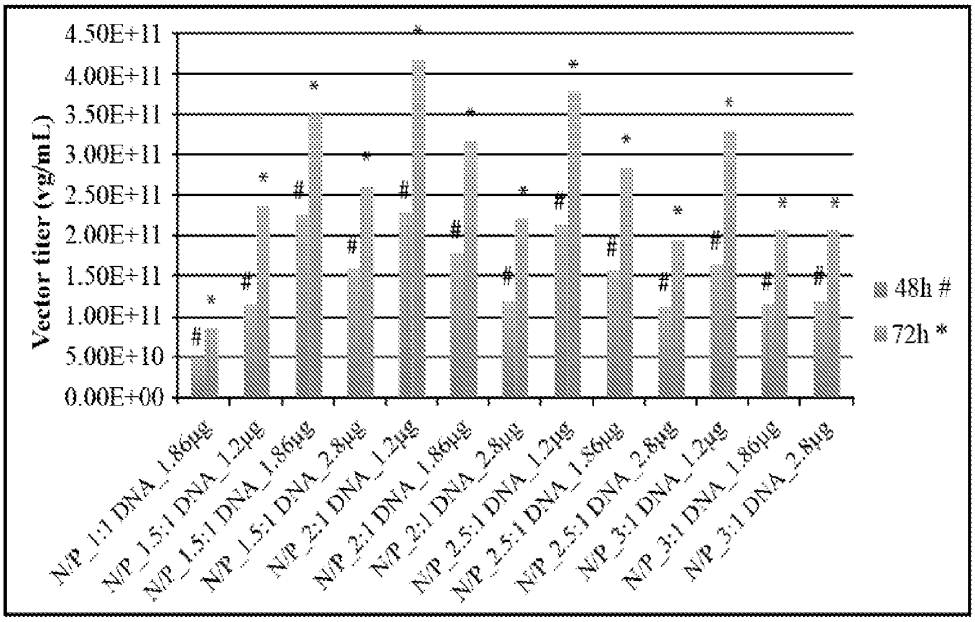

Vector titer (vg/mL)
4.50E+11
4.00E+11
3.50E+11
3.00E+11
2.50E+11
2.00E+11
1.50E+11
1.00E+11
5.00E+10
0.00E+00
48h #
72h *
N/P_1:1 DNA_1.86μg
N/P_1.5:1 DNA_1.2μg
N/P_1.5:1 DNA_1.86μg
N/P_1.5:1 DNA_2.8μg
N/P_2:1 DNA_1.2μg
N/P_2:1 DNA_1.86μg
N/P_2:1 DNA_2.8μg
N/P_2.5:1 DNA_1.2μg
N/P_2.5:1 DNA_1.86μg
N/P_2.5:1 DNA_2.8μg
N/P_3:1 DNA_1.2μg
N/P_3:1 DNA_1.86μg
N/P_3:1 DNA_2.8μg

Figure 3

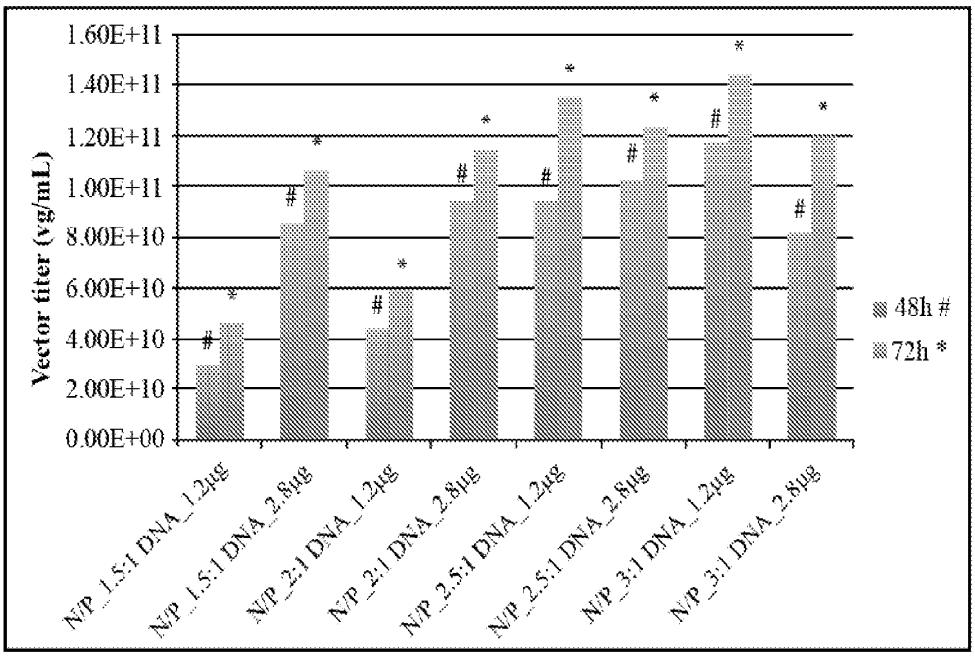

Vector titer (vg/mL)
1.60E+11
1.40E+11
1.20E+11
1.00E+11
8.00E+10
6.00E+10
4.00E+10
2.00E+10
0.00E+00
48h #
72h *
N/P_1.5:1 DNA_1.2µg
N/P_1.5:1 DNA_2.8µg
N/P_2:1 DNA_1.2µg
N/P_2:1 DNA_2.8µg
N/P_2.5:1 DNA_1.2µg
N/P_2.5:1 DNA_2.8µg
N/P_3:1 DNA_1.2µg
N/P_3:1 DNA_2.8µg

Figure 4

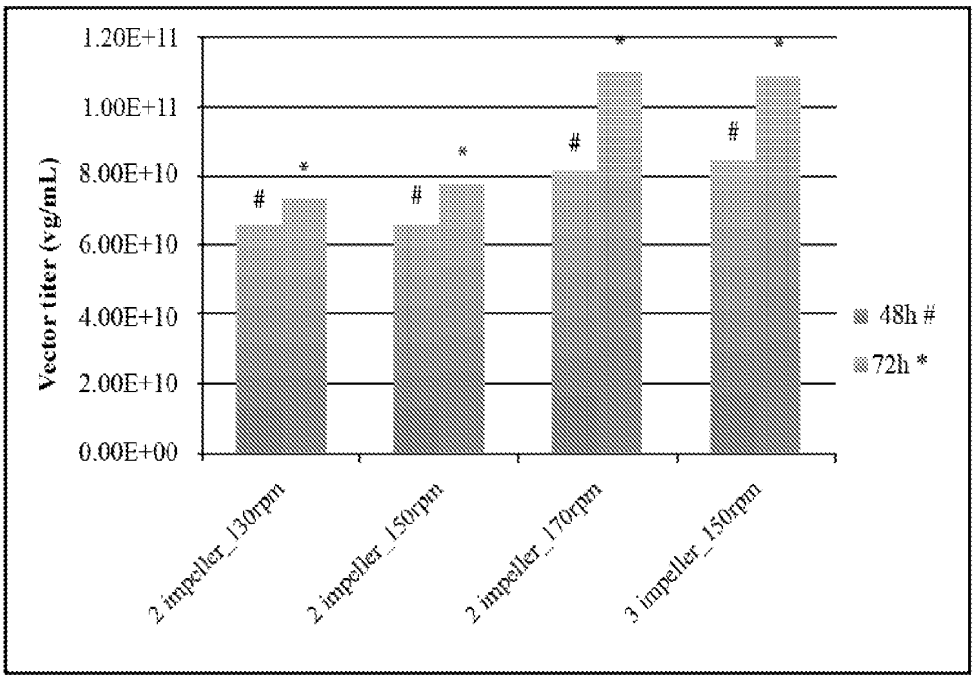

1.20E+11
1.00E+11
8.00E+10
6.00E+10
4.00E+10
2.00E+10
0.00E+00
Vector titer (vg/mL)
#
*
#
*
#
*
#
*
48h #
72h *
2 impeller_130rpm
2 impeller_150rpm
2 impeller_170rpm
3 impeller_150rpm

Figure 5

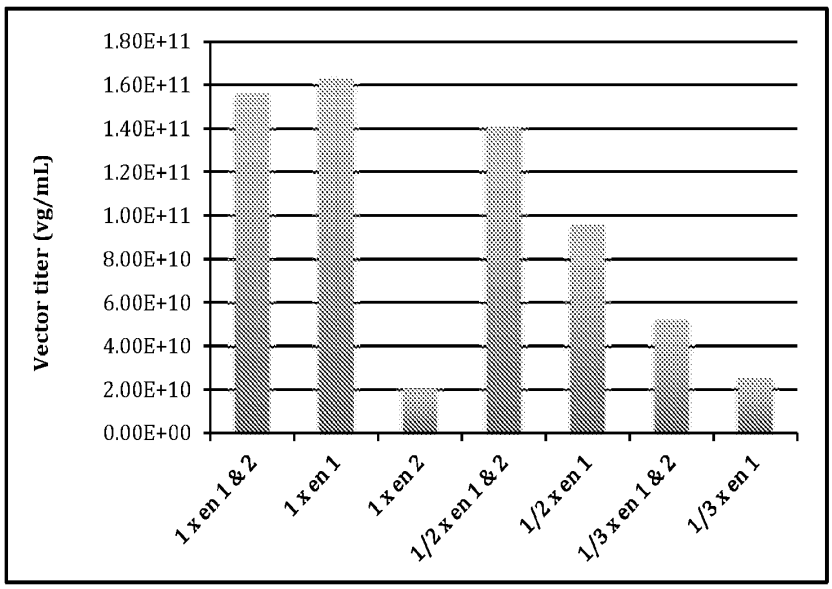

Vector titer (vg/mL)
1.80E+11
1.60E+11
1.40E+11
1.20E+11
1.00E+11
8.00E+10
6.00E+10
4.00E+10
2.00E+10
0.00E+00
1 x en 1 & 2
1 x en 1
1 x en 2
1/2 x en 1 & 2
1/2 x en 1
1/3 x en 1 & 2
1/3 x en 1

Figure 6

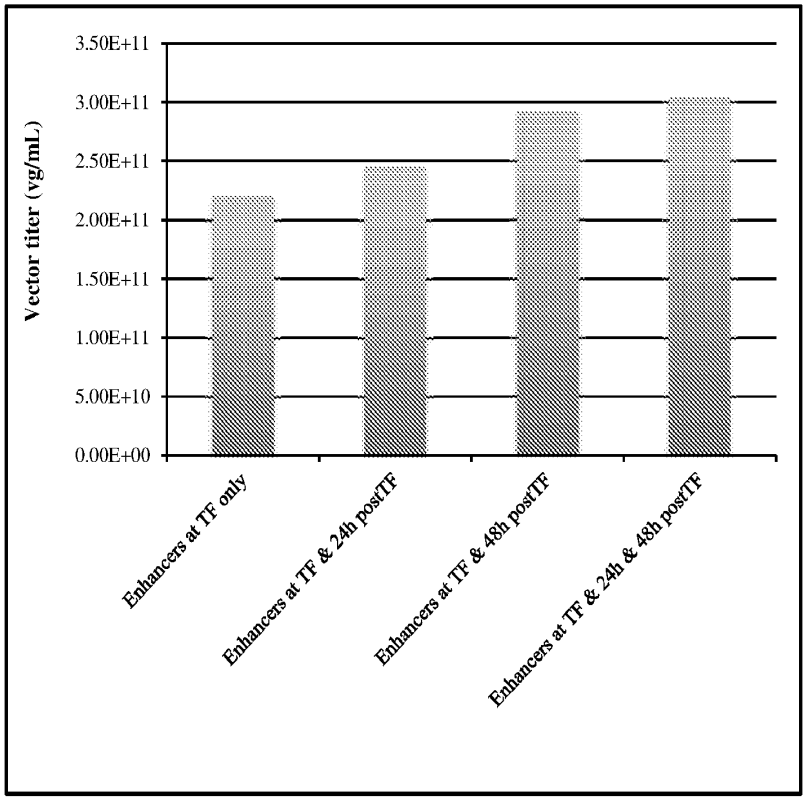

Vector titer (vg/mL)
3.50E+11
3.00E+11
2.50E+11
2.00E+11
1.50E+11
1.00E+11
5.00E+10
0.00E+00
Enhancers at TF only
Enhancers at TF & 24h postTF
Enhancers at TF & 48h postTF
Enhancers at TF & 24h & 48h postTF

Figure 7

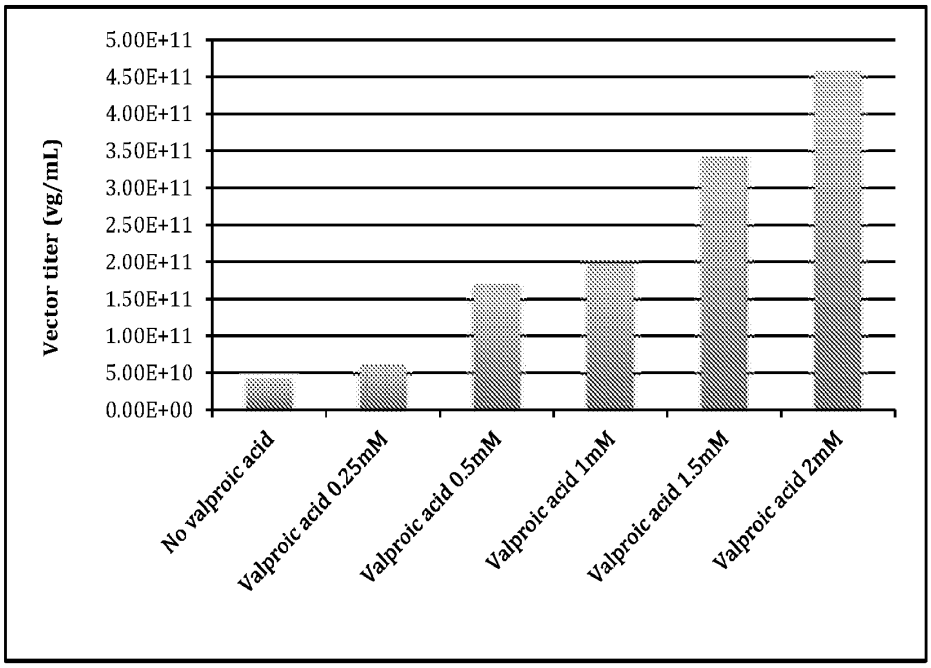
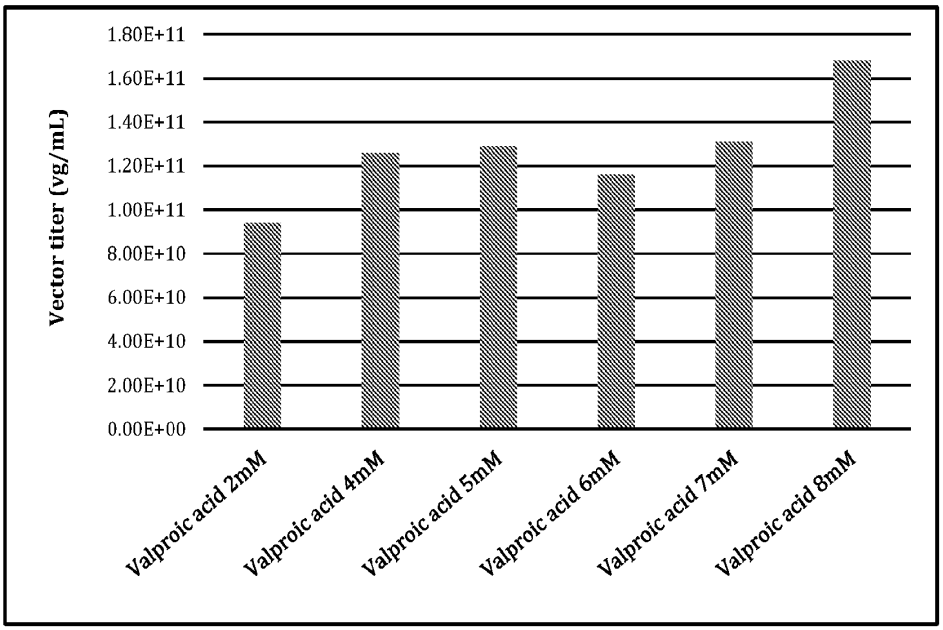

Vector titer (vg/mL)
5.00E+11
4.50E+11
4.00E+11
3.50E+11
3.00E+11
2.50E+11
2.00E+11
1.50E+11
1.00E+11
5.00E+10
0.00E+00
No valproic acid
Valproic acid 0.25mM
Valproic acid 0.5mM
Valproic acid 1mM
Valproic acid 1.5mM
Valproic acid 2mM

Figure 8


Vector titer (vg/mL)
1.80E+11
1.60E+11
1.40E+11
1.20E+11
1.00E+11
8.00E+10
6.00E+10
4.00E+10
2.00E+10
0.00E+00
Valproic acid 2mM
Valproic acid 4mM
Valproic acid 5mM
Valproic acid 6mM
Valproic acid 7mM
Valproic acid 8mM