Fig. 1

Fig. 1A

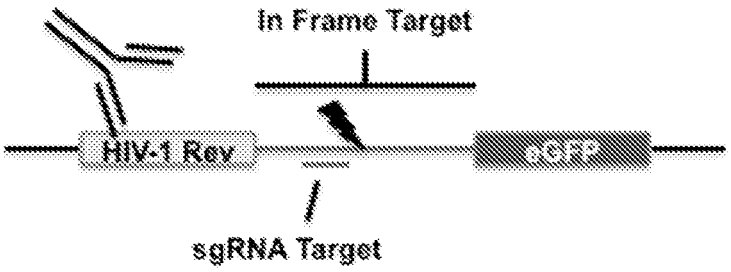


Fig. 1B

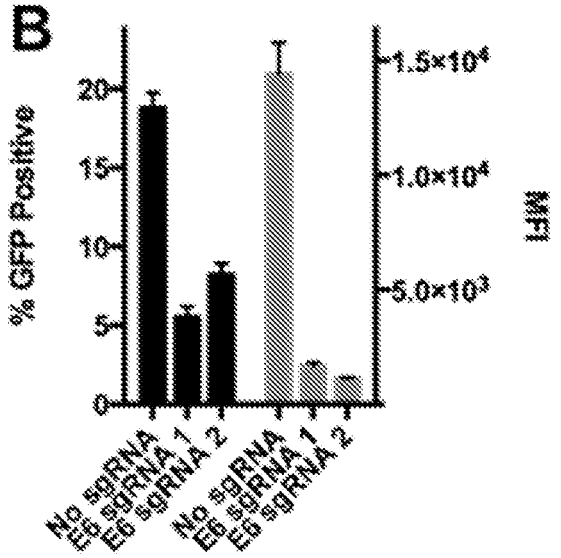


Fig. 1C

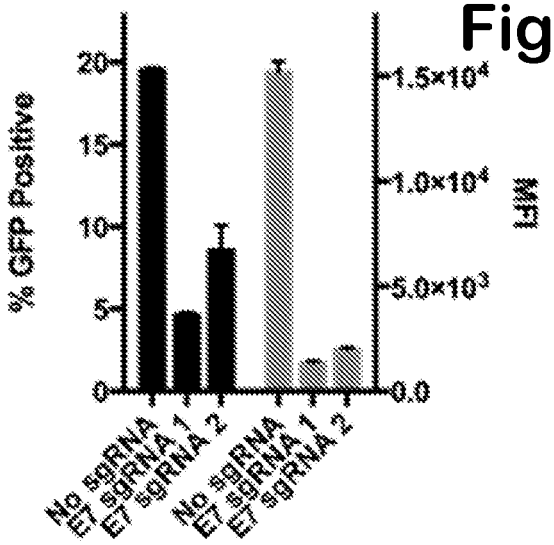


Fig. 1D

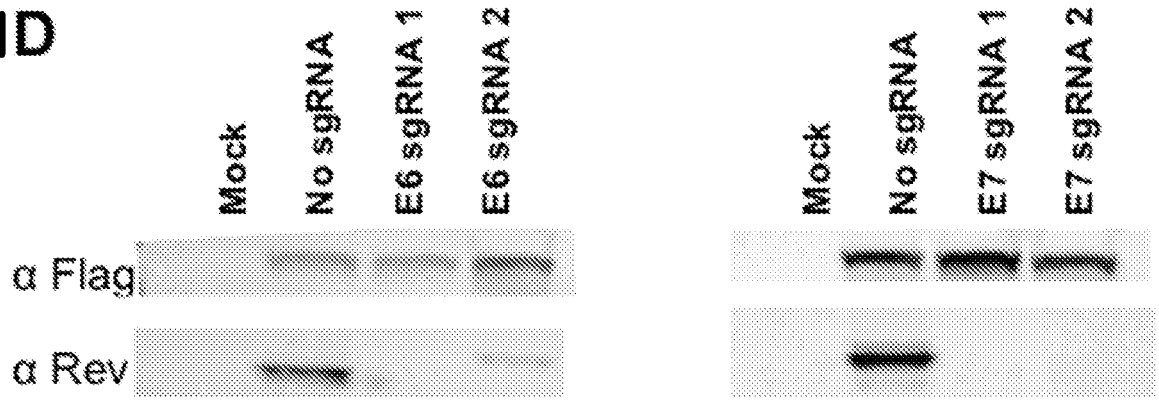


Fig. 2

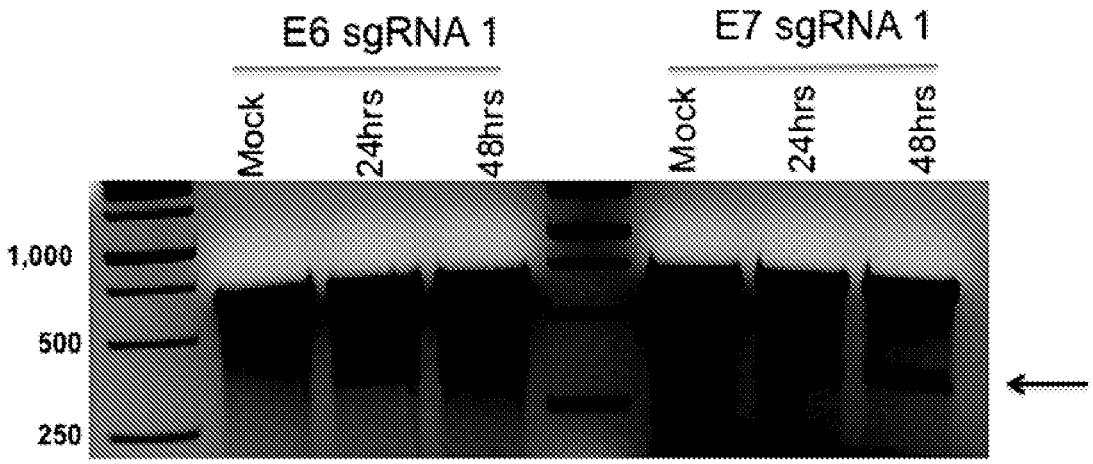


Fig. 3

Fig. 3A

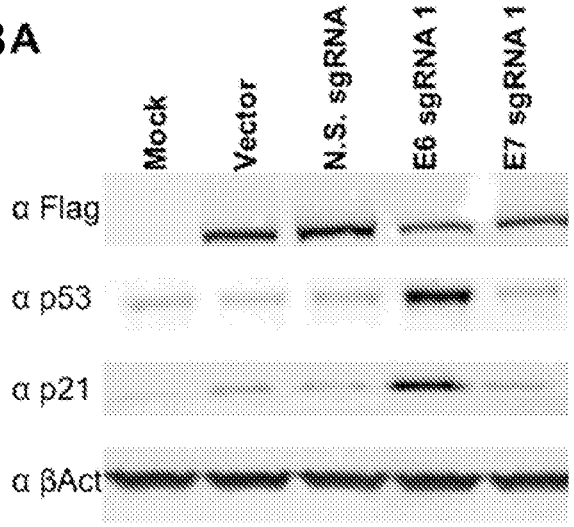


Fig. 3B

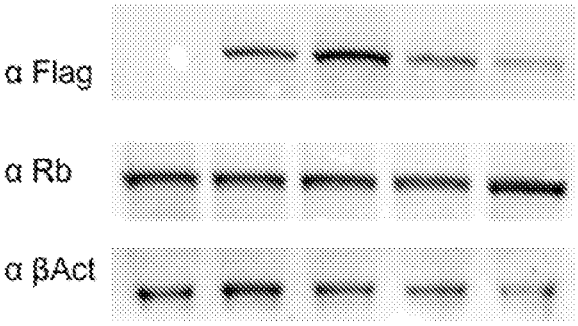


Fig. 3C

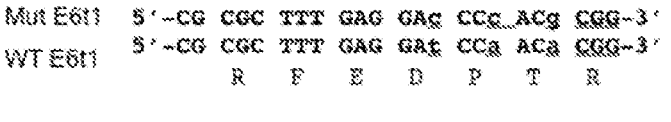


Fig. 3D

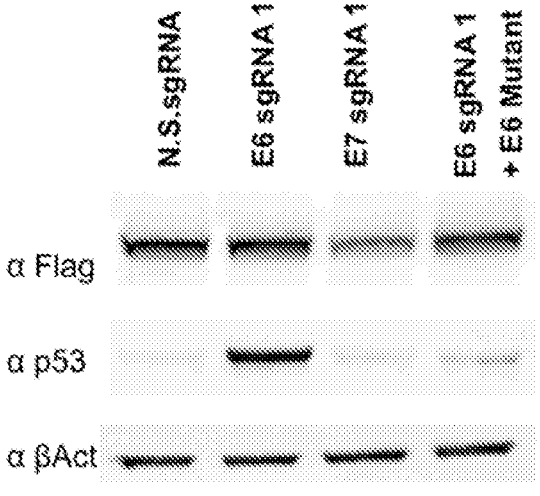


Fig. 4

Fig. 4A

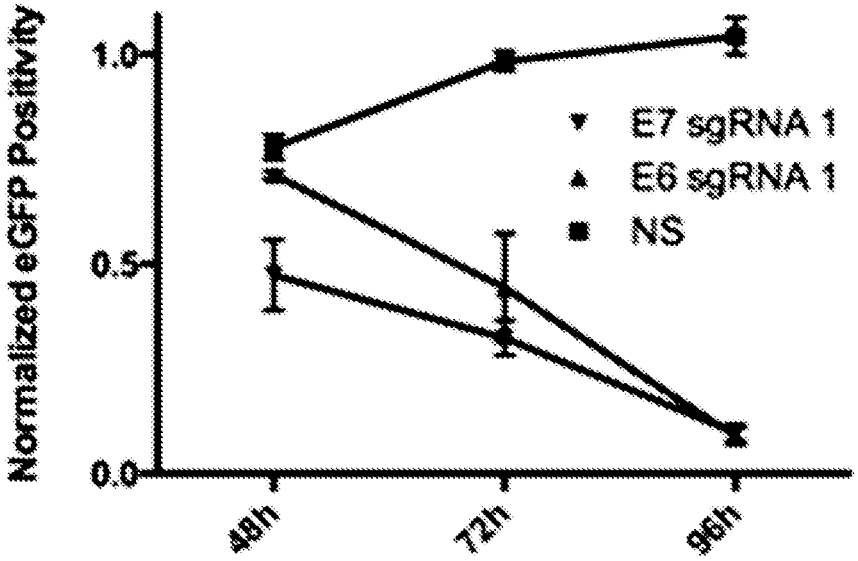


Fig. 4B

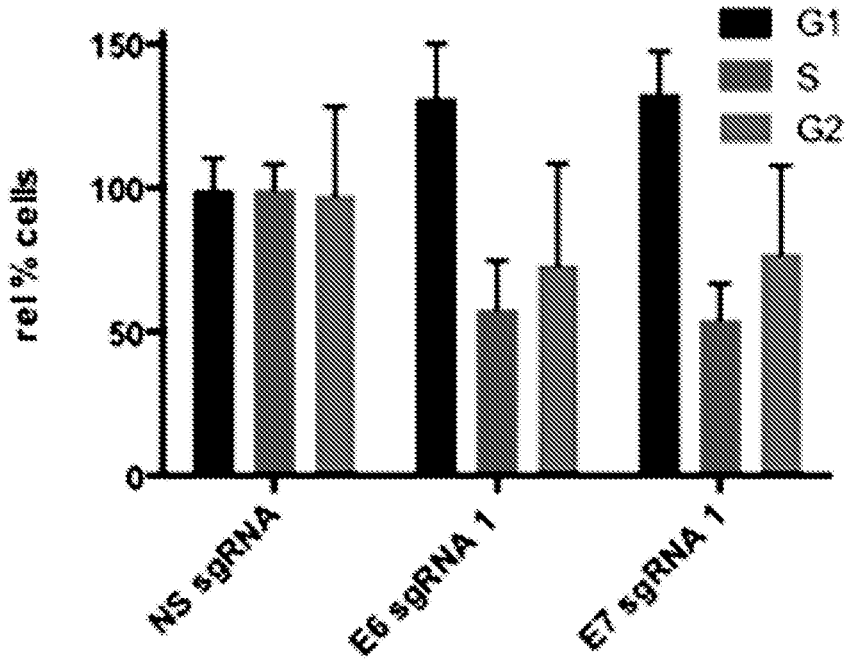


Fig. 4

Fig. 4C

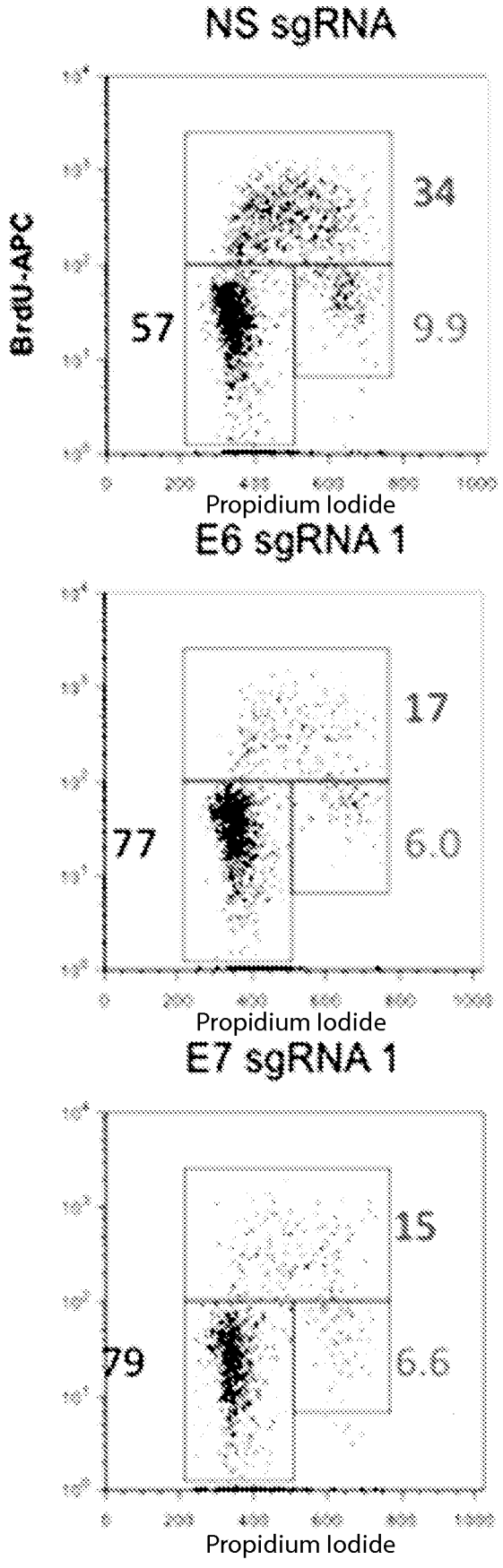

NS sgRNA
BrdU-APC
34
57
9.9
Propidium Iodide
E6 sgRNA 1
17
77
6.0
Propidium Iodide
E7 sgRNA 1
15
79
6.6
Propidium Iodide

Fig. 5

Fig. 5A

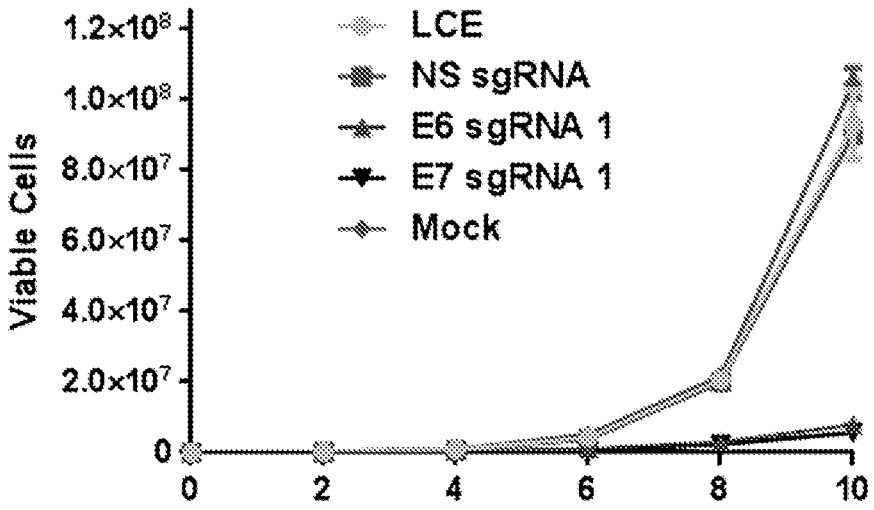


Fig. 5B

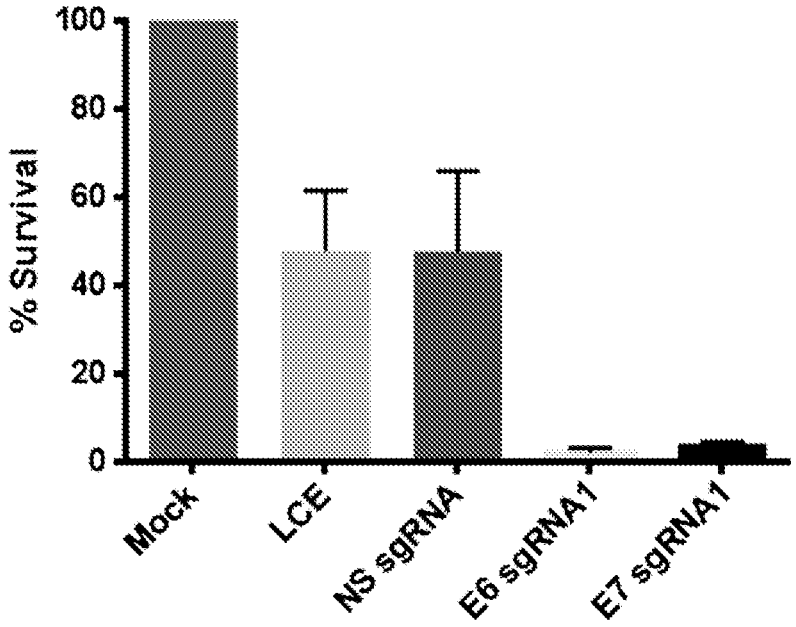


Fig. 6

Fig. 6A

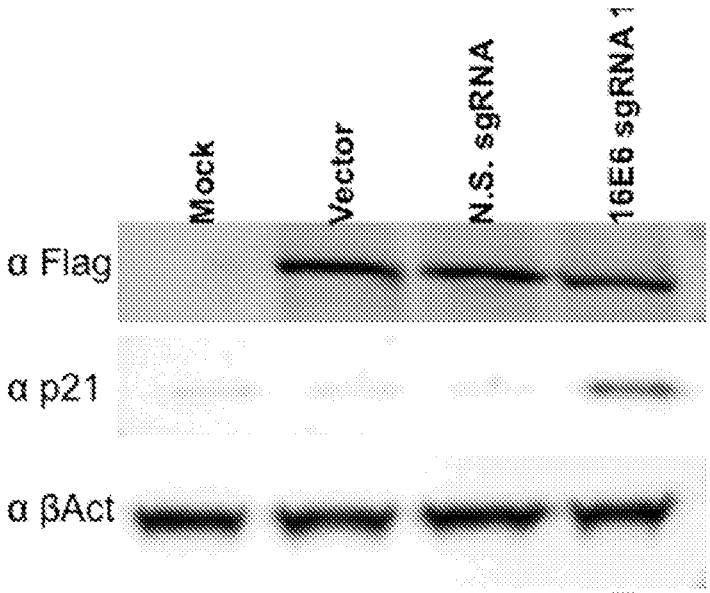


Fig. 6B

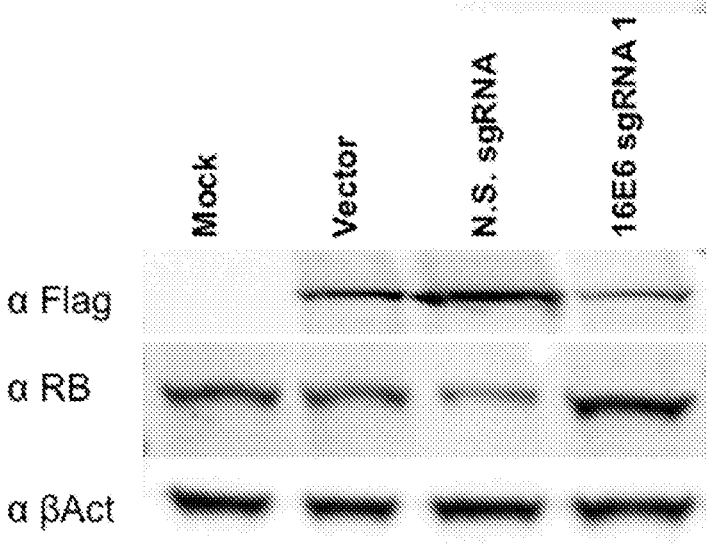


Fig. 7

Fig. 7A

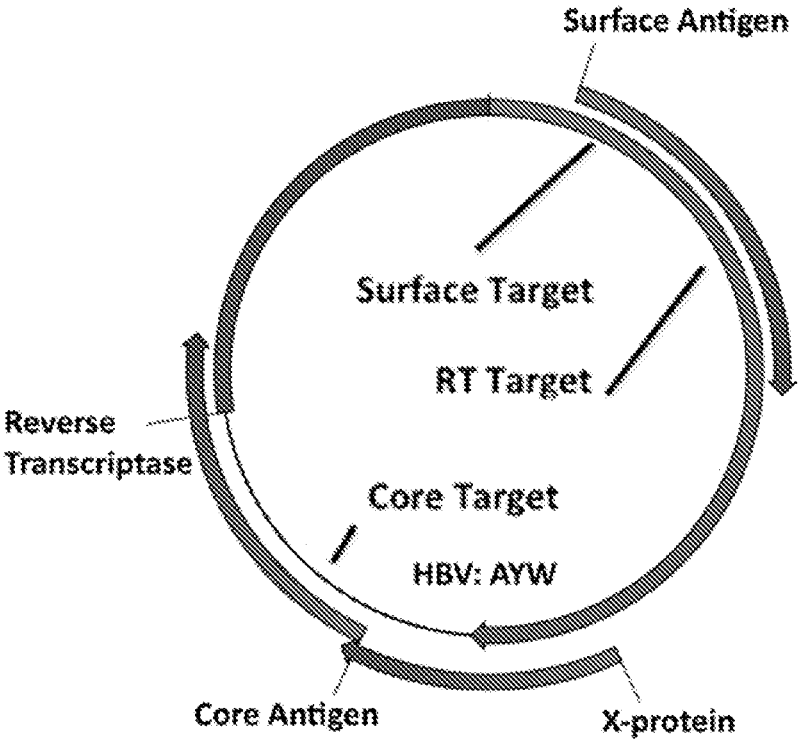


Fig. 7B

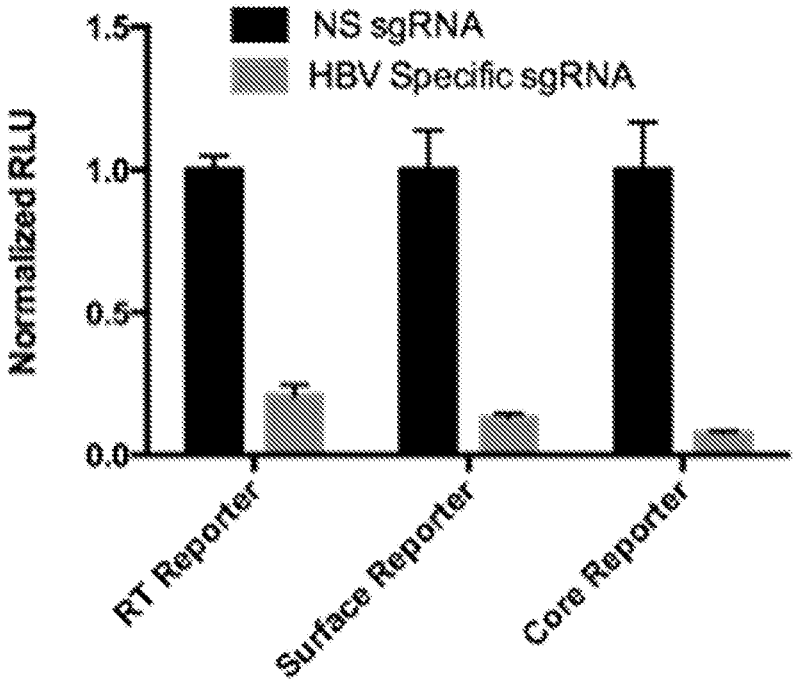


Fig. 7

Fig. 7C

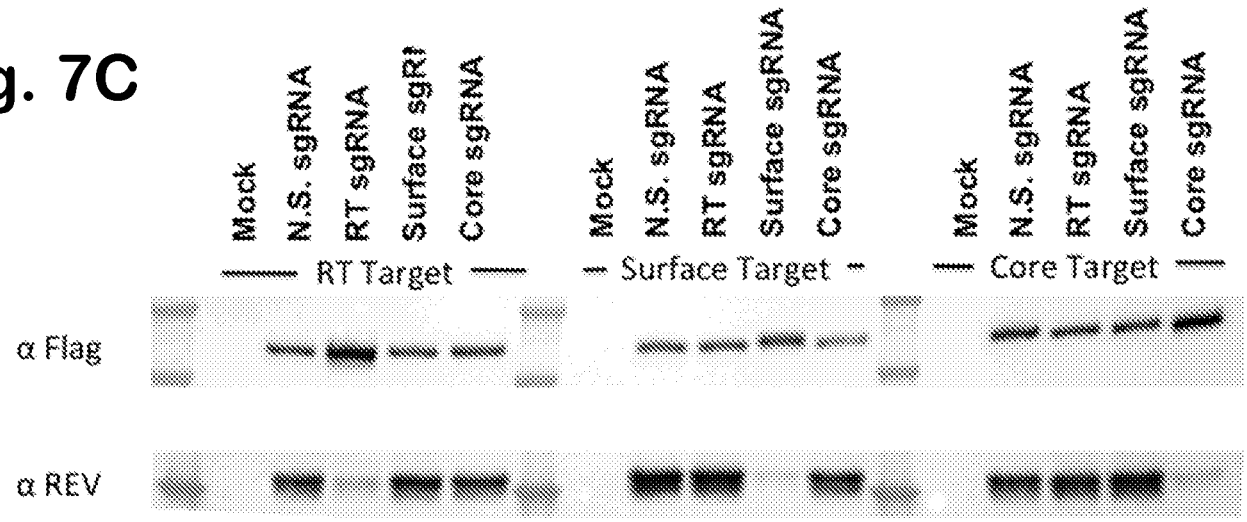

Mock
N.S. sgRNA
RT sgRNA
Surface sgRI
Core sgRNA
RT Target
Mock
N.S. sgRNA
RT sgRNA
Surface sgRNA
Core sgRNA
Surface Target
Mock
N.S. sgRNA
RT sgRNA
Surface sgRNA
Core sgRNA
Core Target
α Flag
α REV

Fig. 8

Fig. 8A

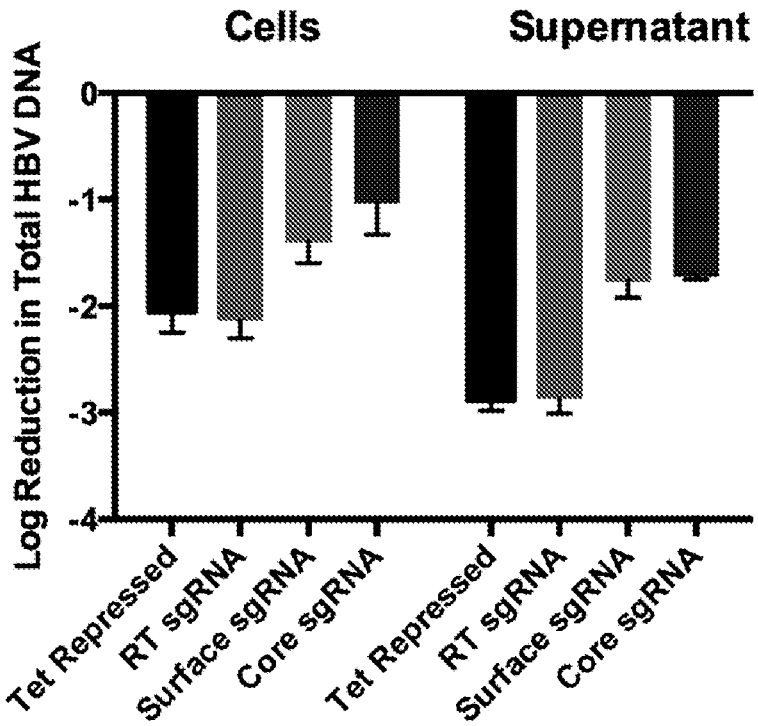


Fig. 8B

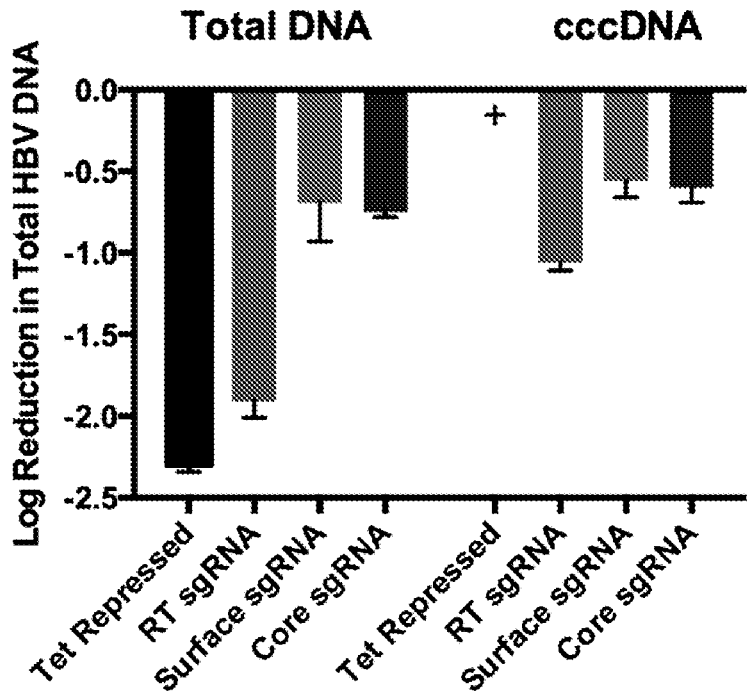


Fig. 8

Fig. 8C

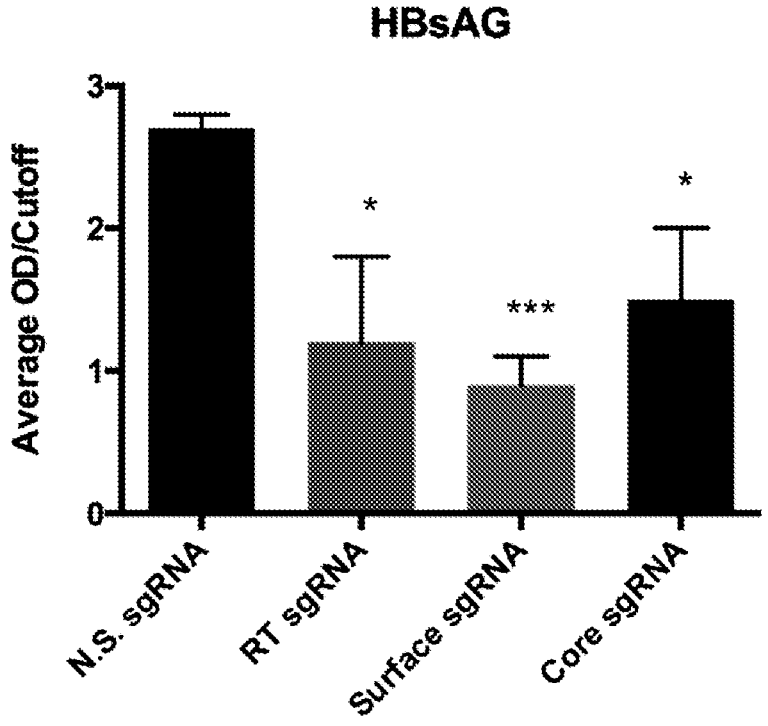


Fig. 8D

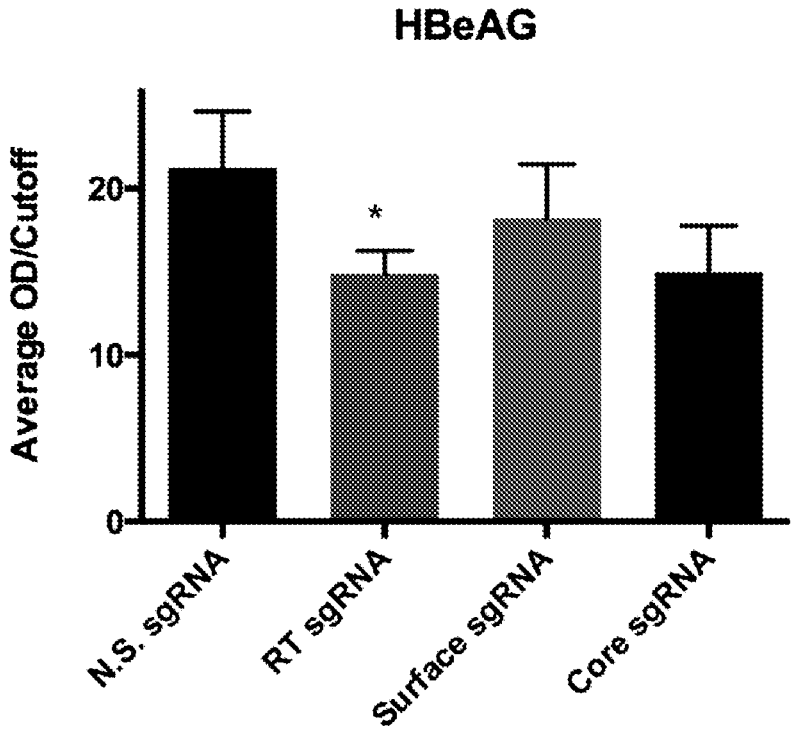


Fig. 9

Fig. 9A

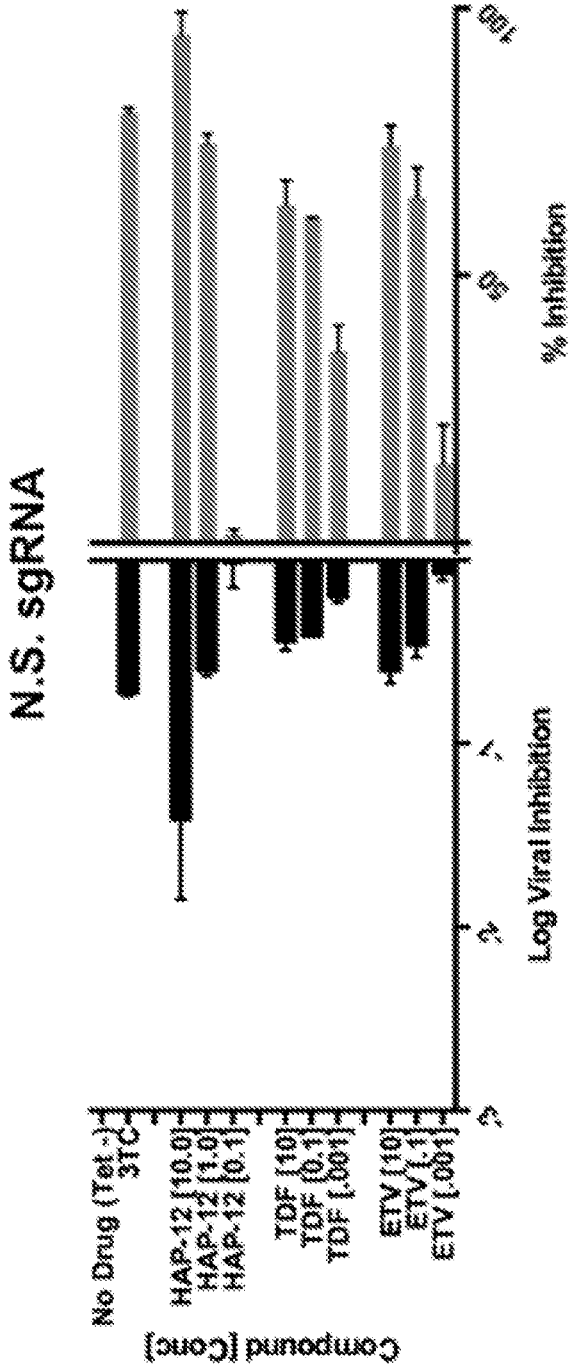


Fig. 9B

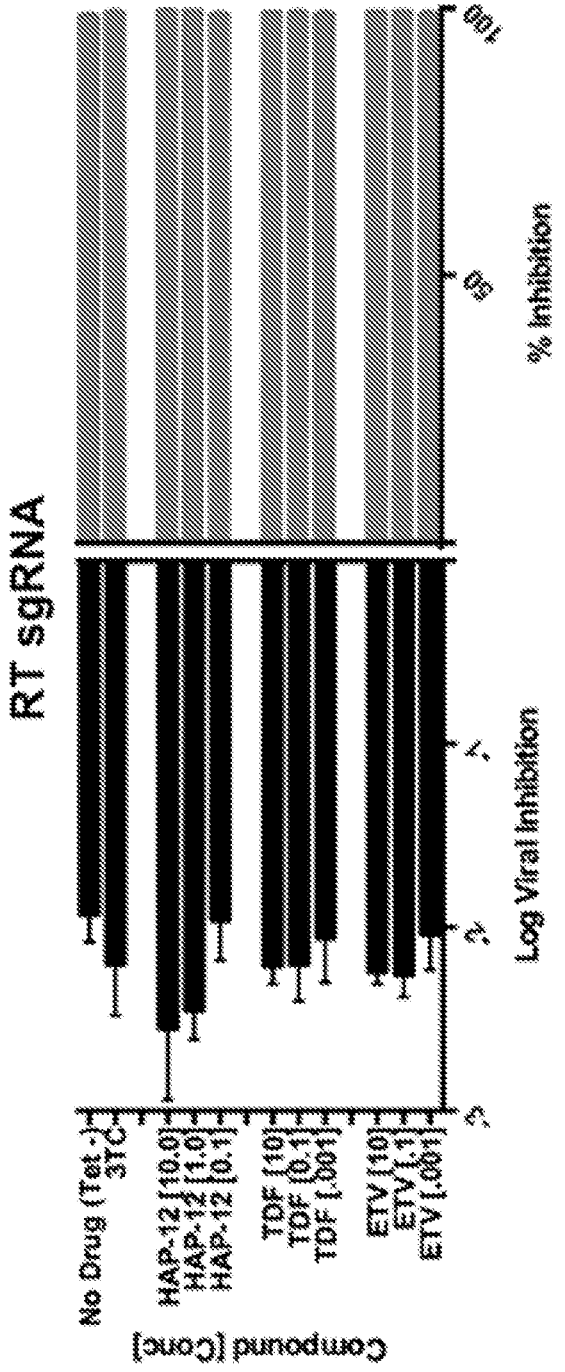


Fig. 9

Fig. 9C

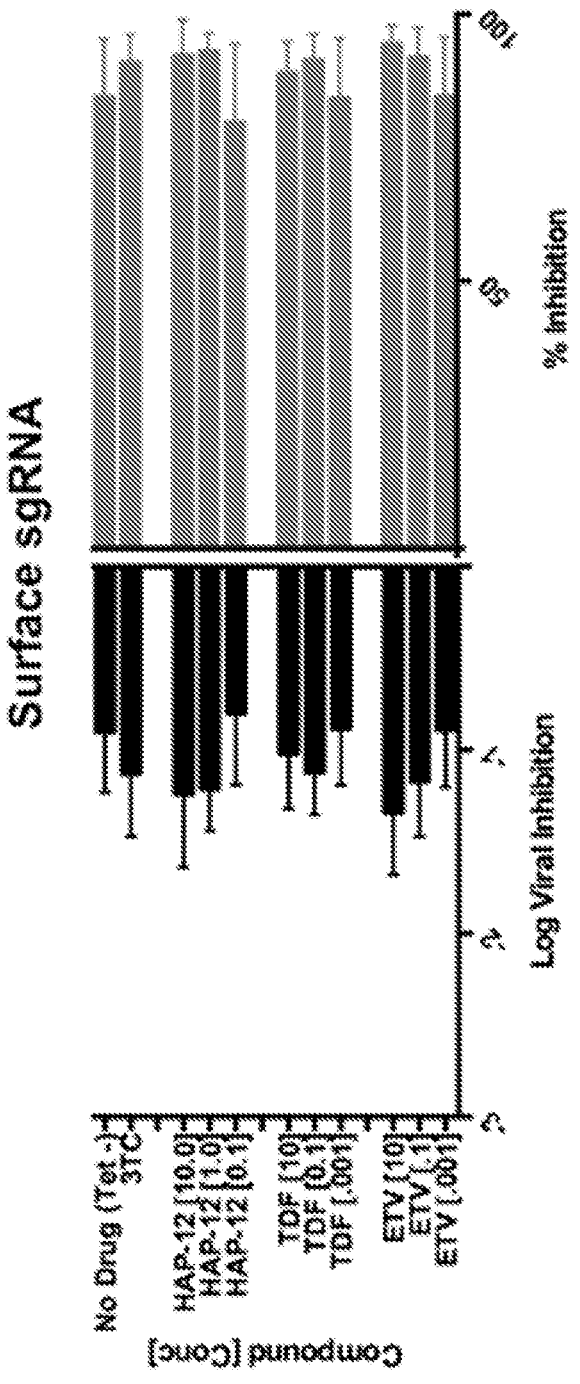


Fig. 9D

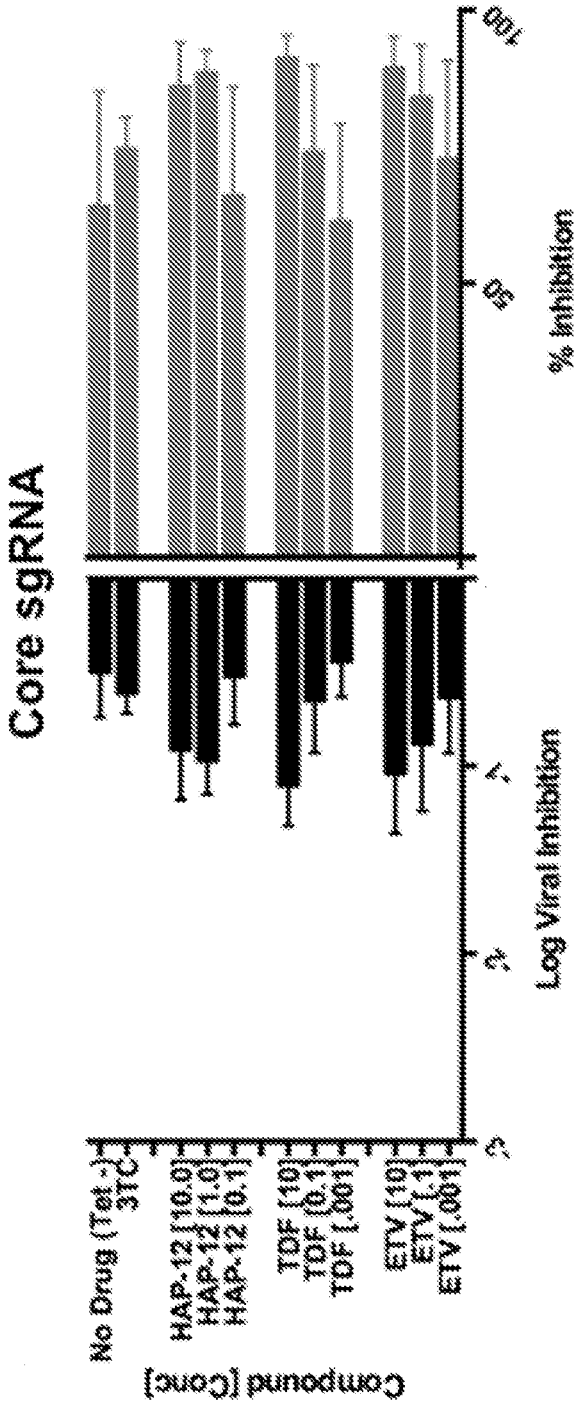


Fig. 10

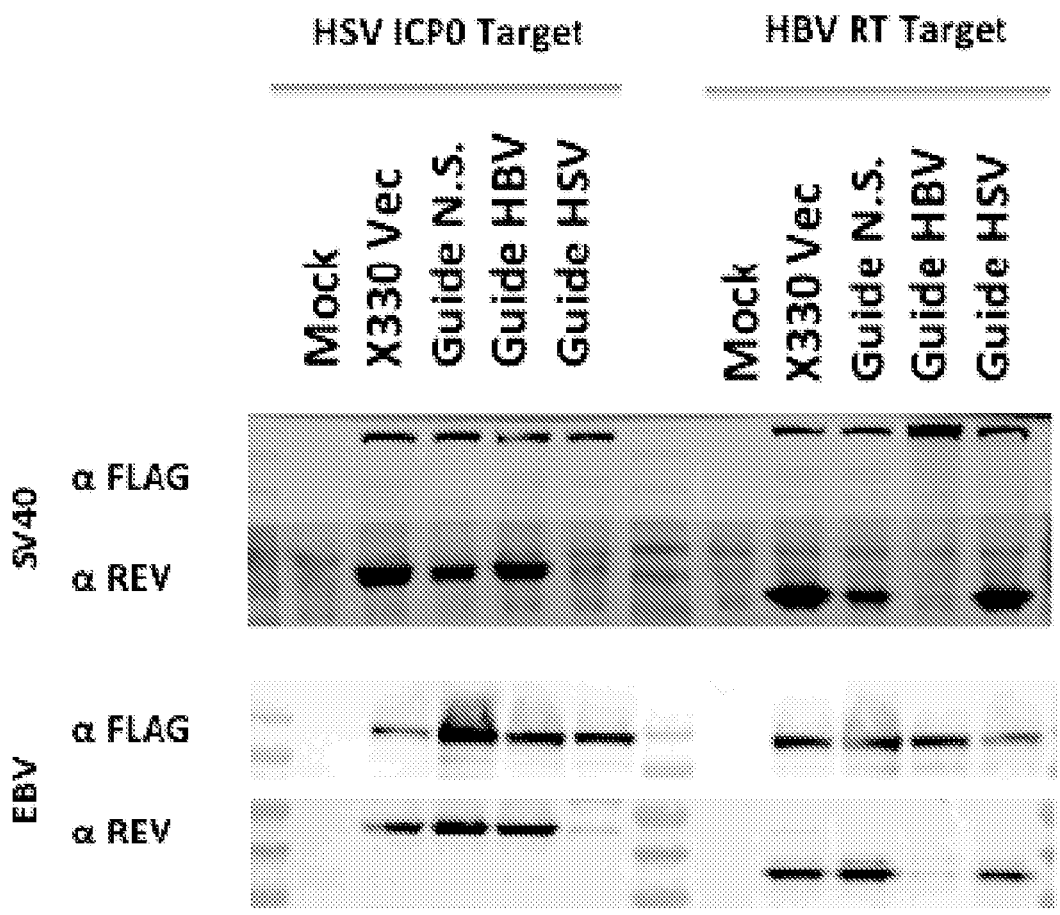

HSV ICP0 Target
HBV RT Target
Mock
X330 Vec
Guide N.S.
Guide HBV
Guide HSV
Mock
X330 Vec
Guide N.S.
Guide HBV
Guide HSV
SV40
α FLAG
α REV
EBV
α FLAG
α REV

Fig. 11

Fig. 11A

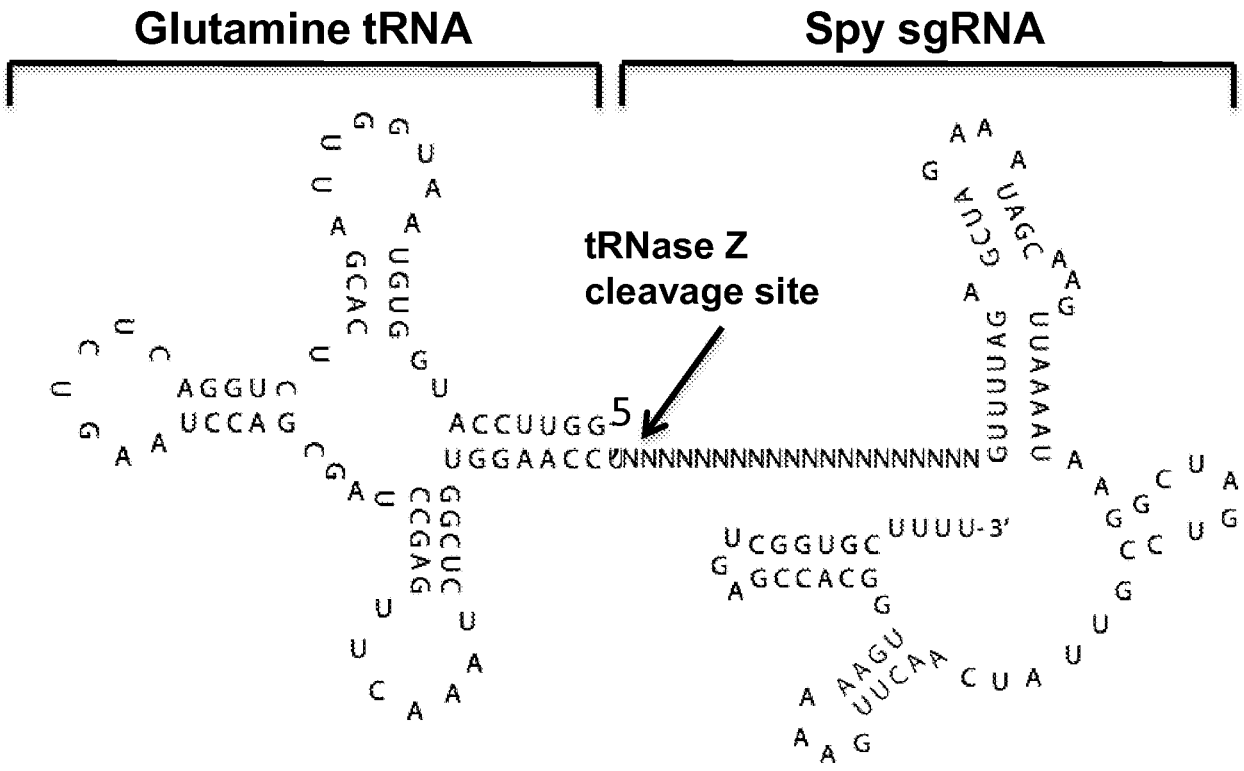


Fig. 11B

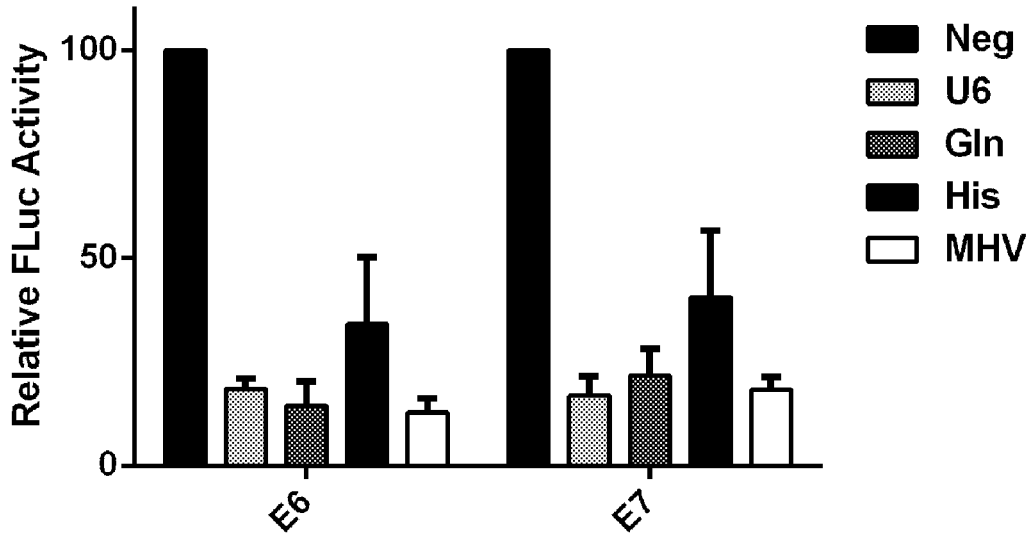


Fig. 11

Fig. 11C

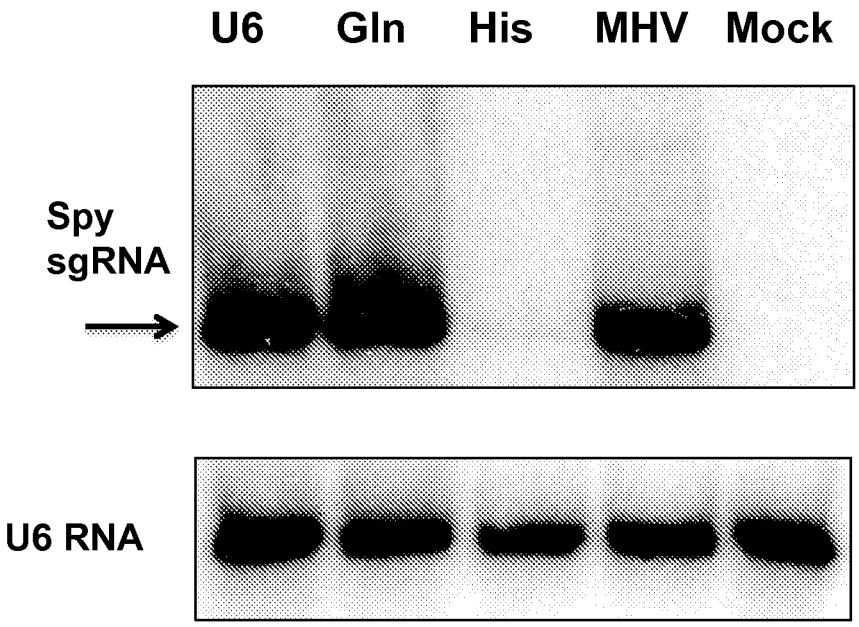


Fig. 12

Fig. 12A

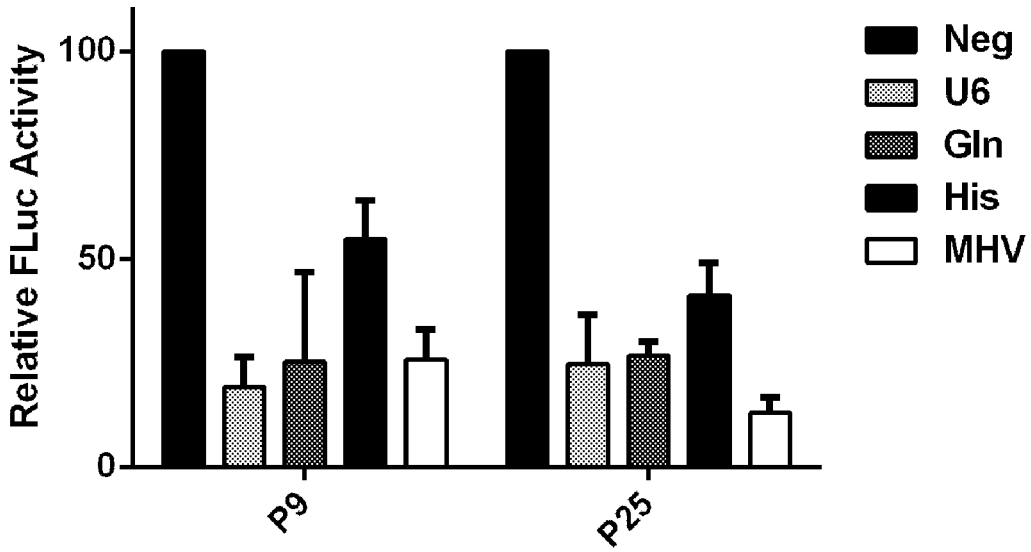


Fig. 12

Fig. 12B

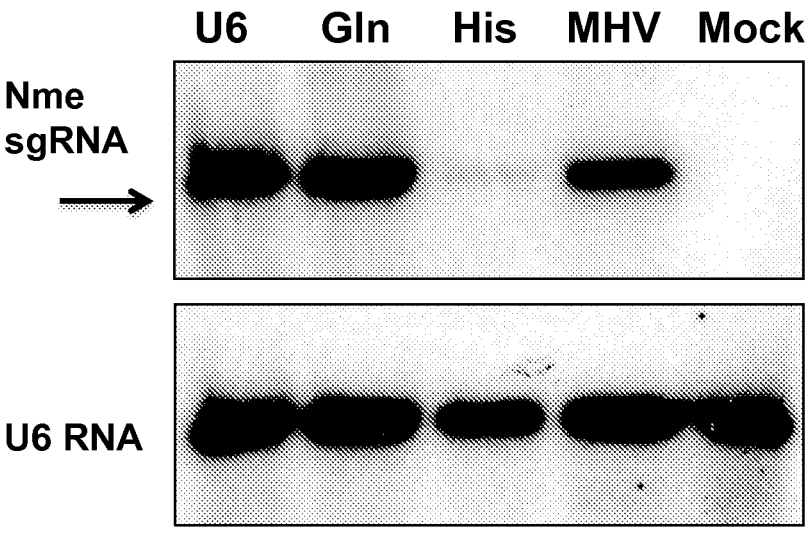


Fig. 12C

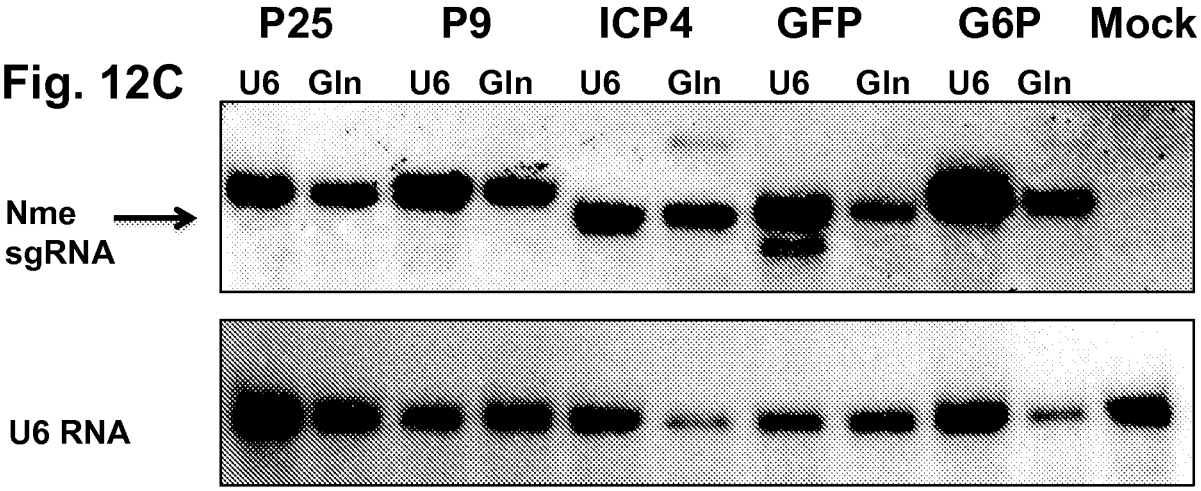


Fig. 13

Fig. 13A

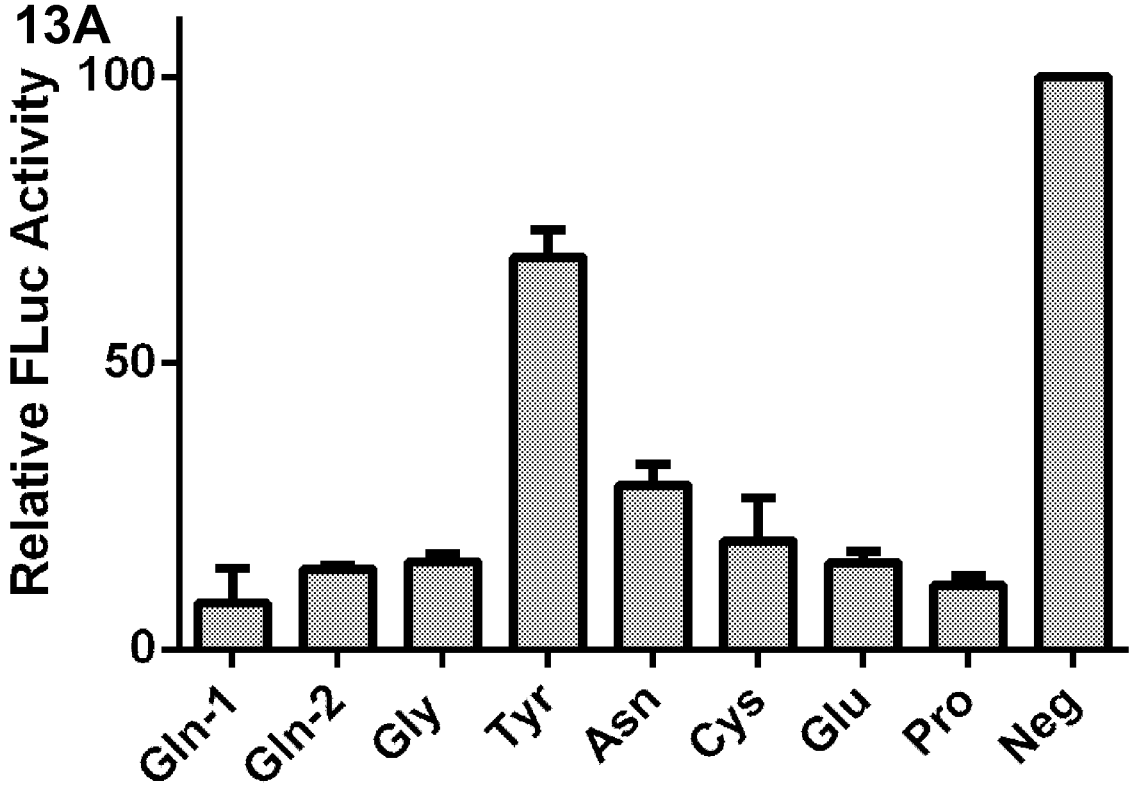


Fig. 13B

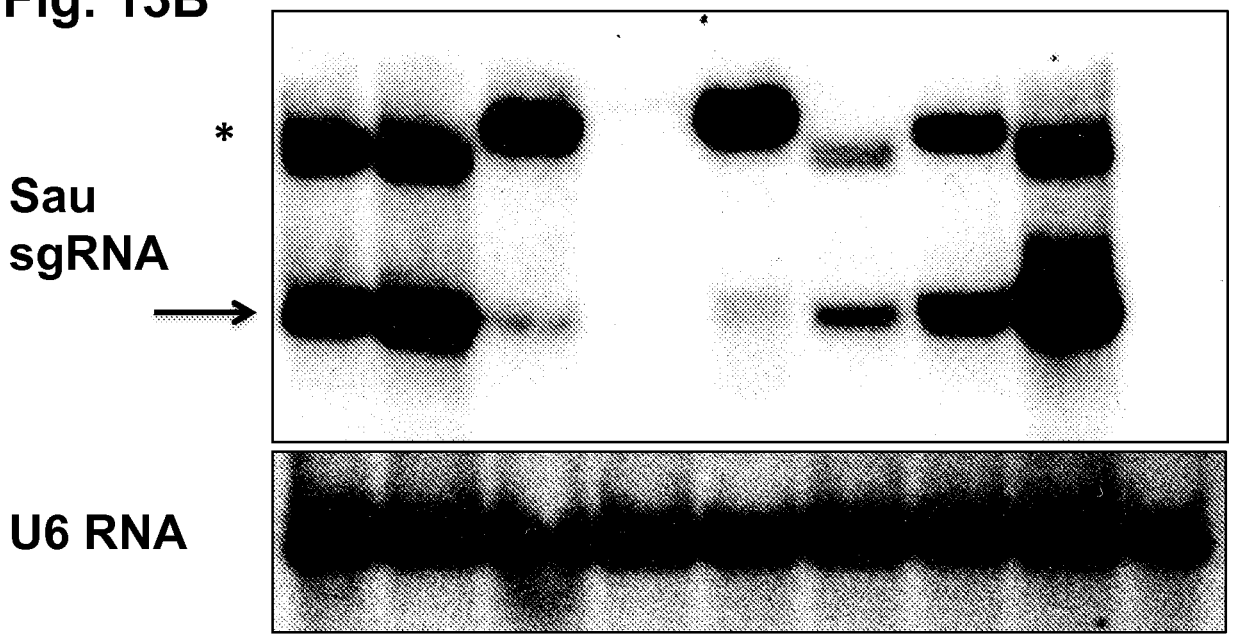


Fig. 14

Fig. 14A

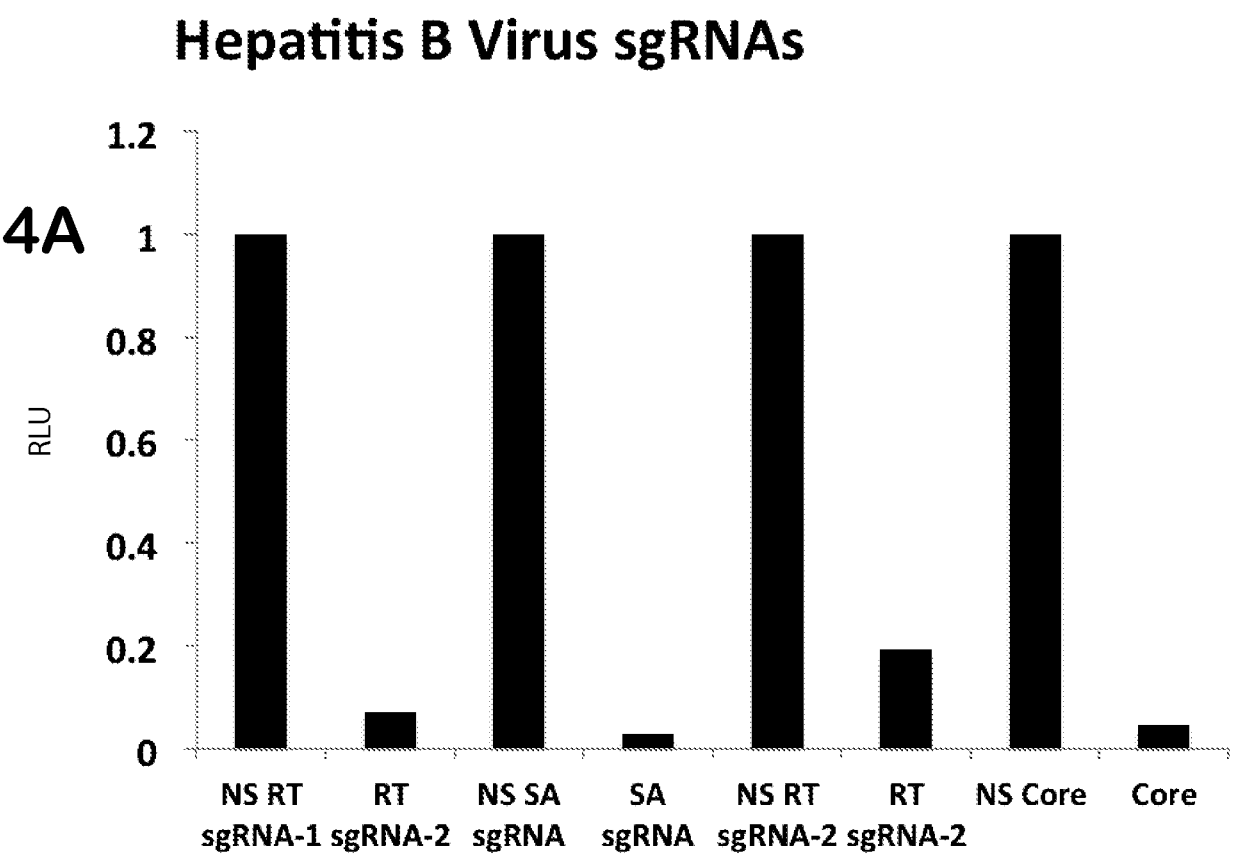


Fig. 14B

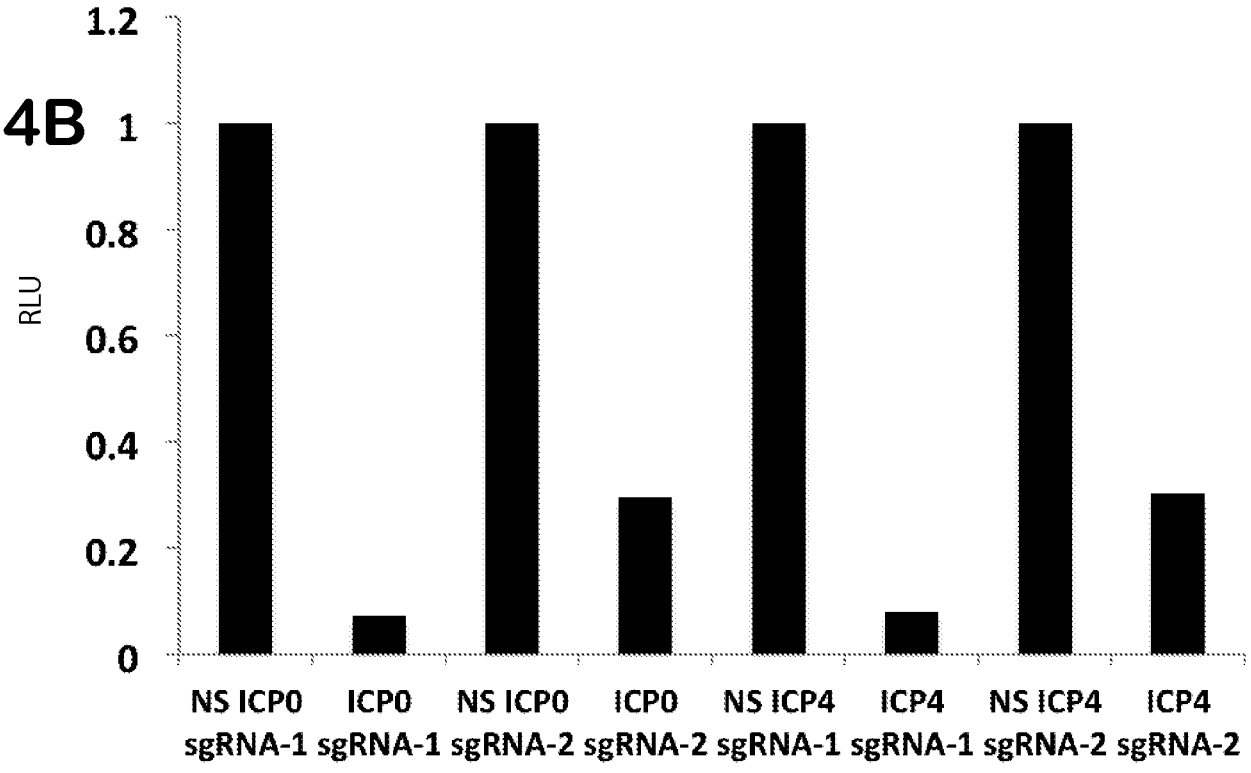


Fig. 14

Fig. 14C

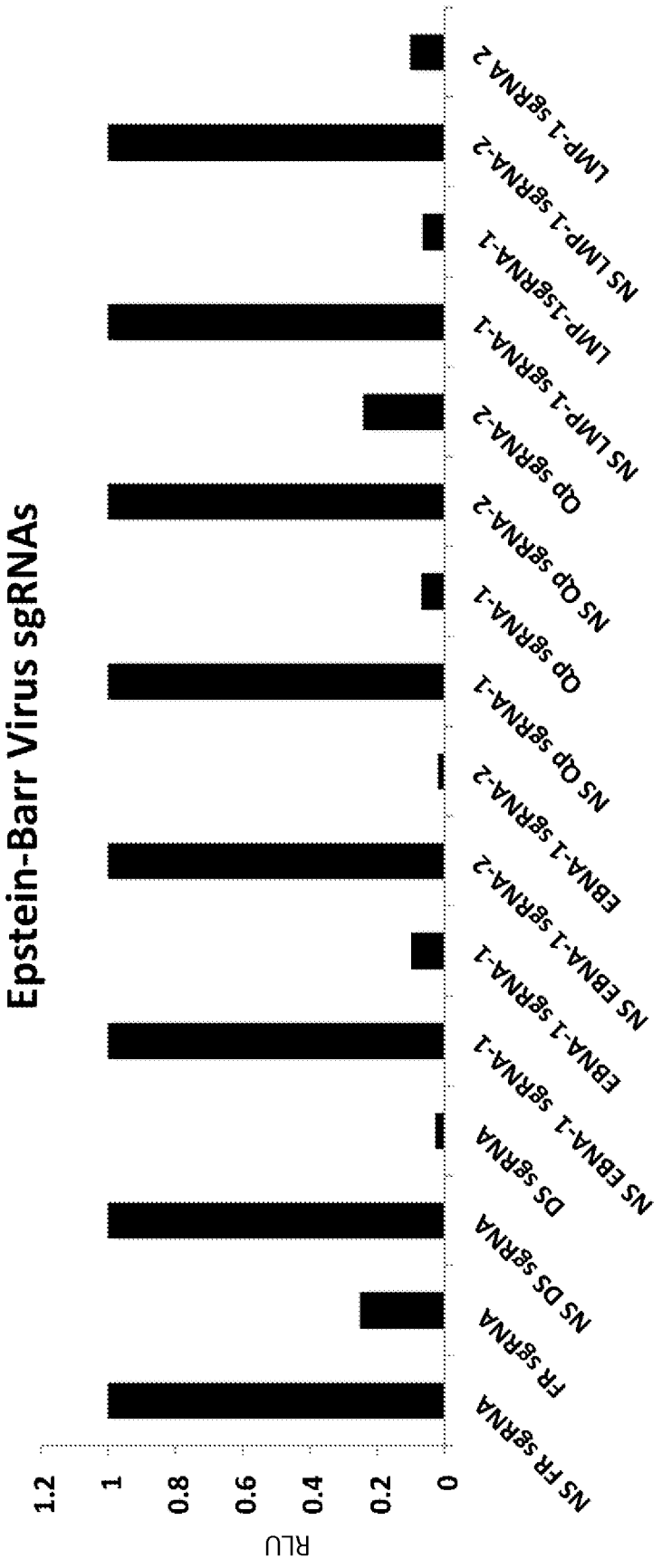


Fig. 14

Fig. 14D

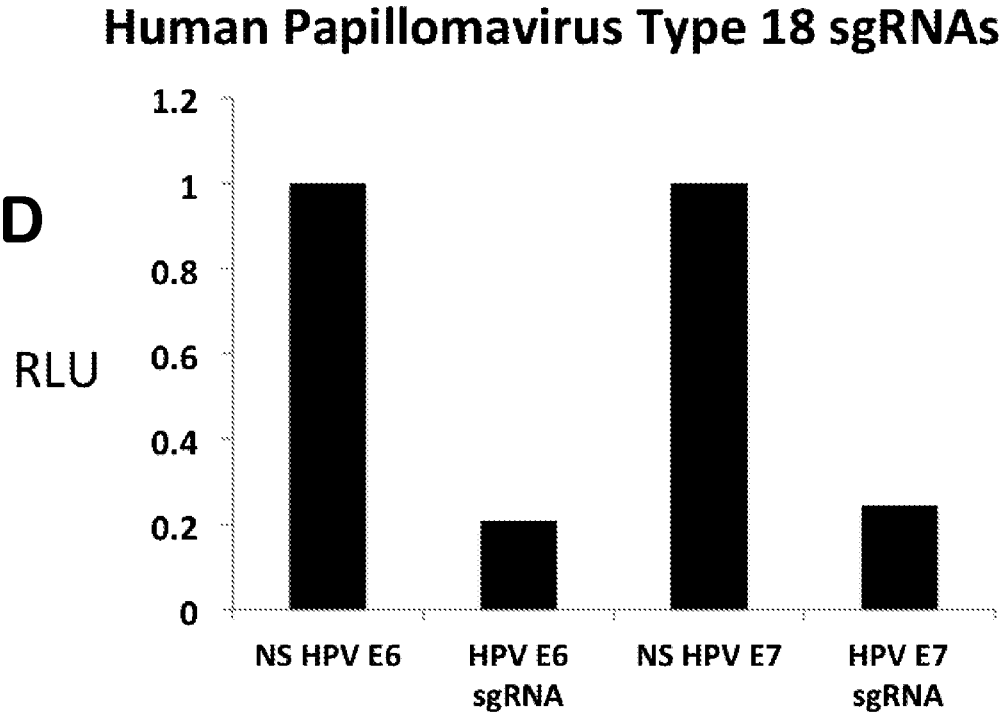


Fig. 14E

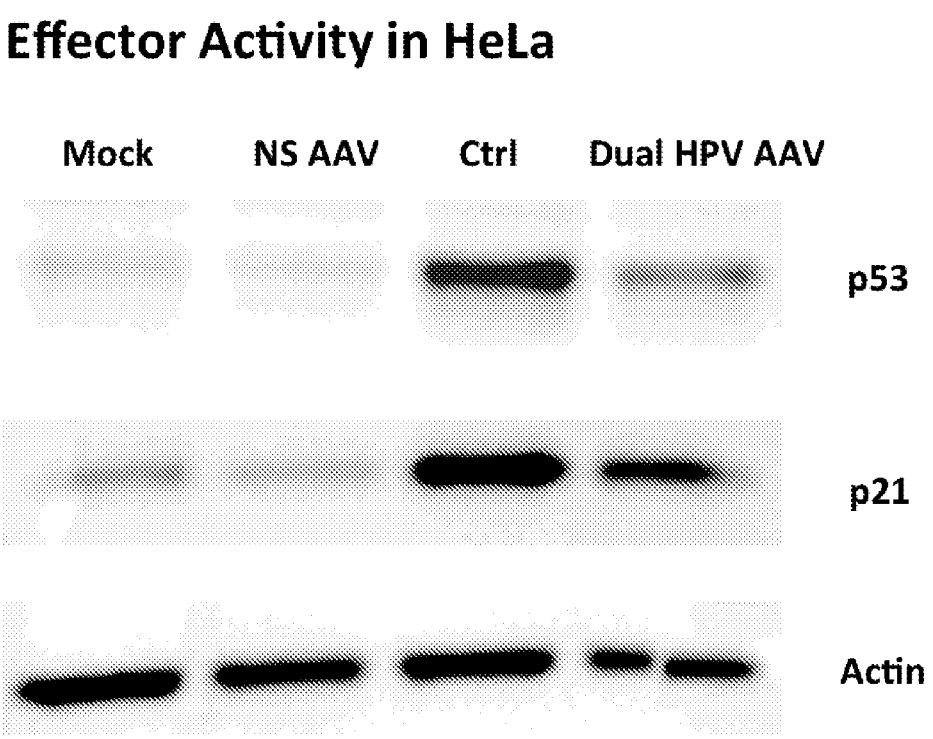


Fig. 15

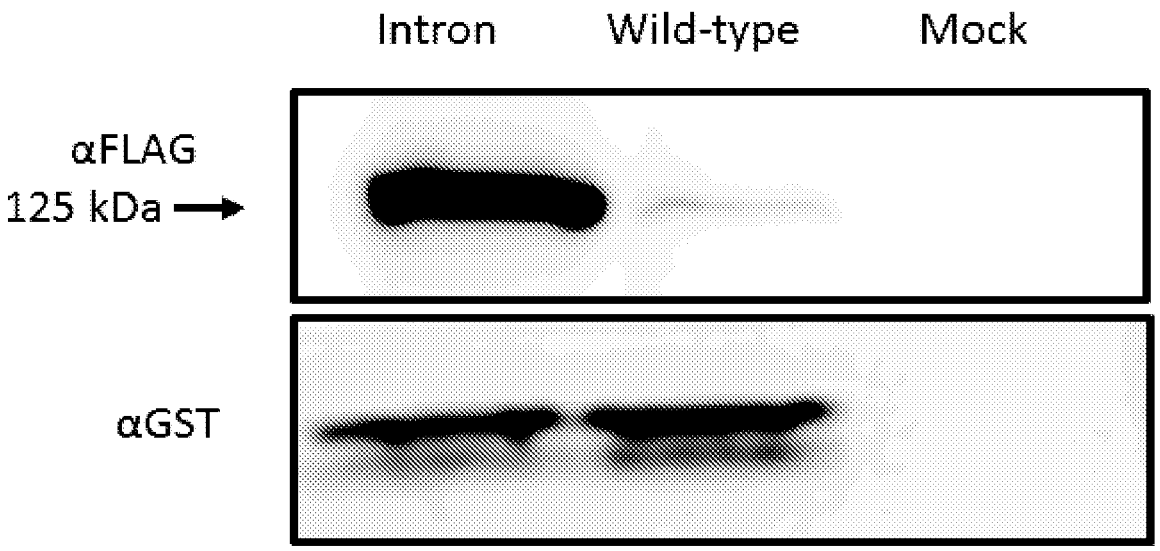


Fig. 16

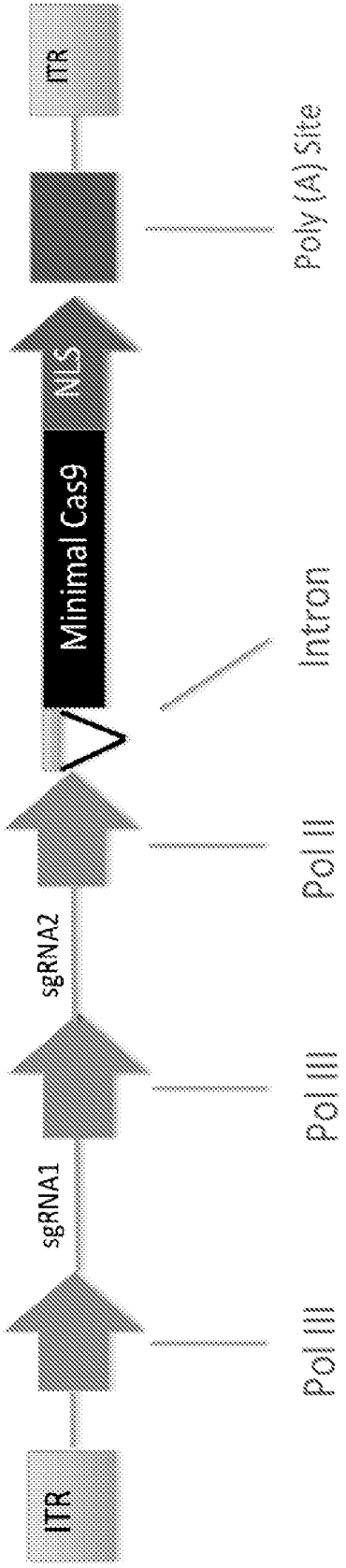

ITR
Poly (A) Site
NLS
Minimal Cas9
Intron
Pol III
sgRNA2
Pol III
sgRNA1
Pol III
ITR

Fig. 17

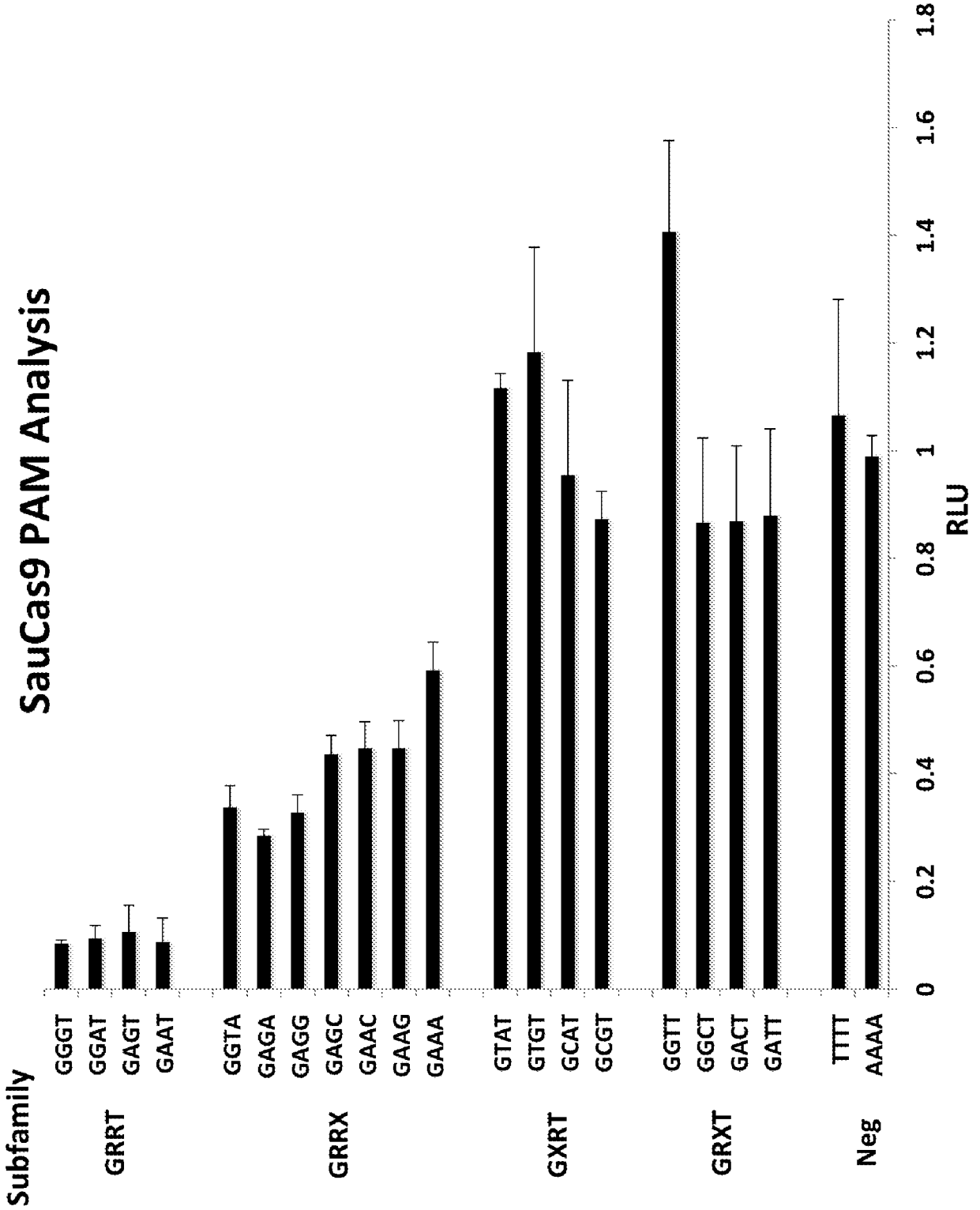

SauCas9 PAM Analysis
RLU
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
Subfamily
GRRT
GRRX
GXRT
GRXT
Neg
GGGT
GGAT
GAGT
GAAT
GGTA
GAGA
GAGG
GAGC
GAAC
GAAG
GAAA
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GTGT
GCAT
GCGT
GGTT
GGCT
GACT
GATT
TTTT
AAAA

Fig. 18

Fig. 18A

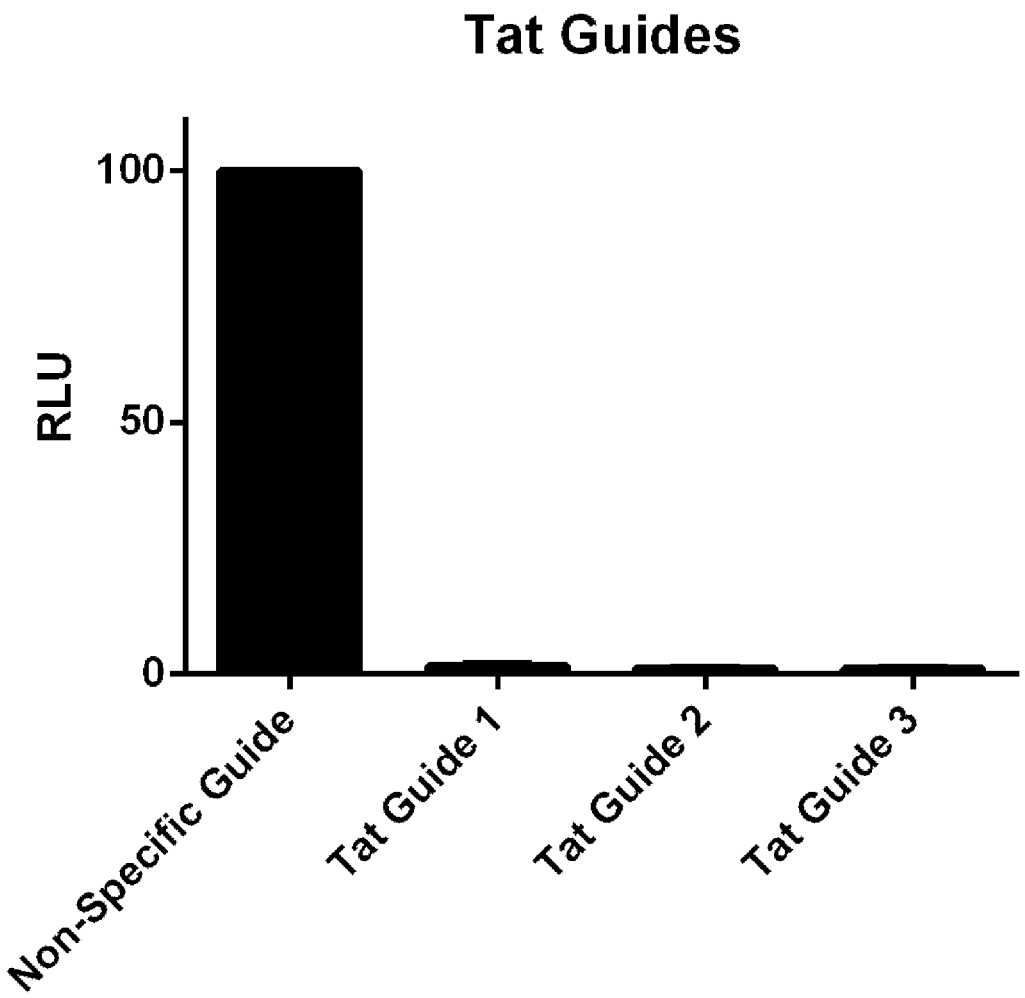


Fig. 18

Fig. 18B

