rpl32 – PpLuc(GC) – A64 – C30 – histoneSL:

GGGGCGCTGCCTACGGAGGTGGCAGCCATCTCCTTCTCGGCATCAAGCTTGAGGATGGAG
GACGCCAAGAACATCAAGAAGGGCCCGGCGCCCTTCTACCCGCTGGAGGACGGGACCGCC
GGCGAGCAGCTCCACAAGGCCATGAAGCGGTACGCCCTGGTGCCGGGCACGATCGCCTTC
ACCGACGCCCACATCGAGGTCGACATCACCTACGCGGAGTACTTCGAGATGAGCGTGCGC
CTGGCCGAGGCCATGAAGCGGTACGGCCTGAACACCAACCACCGGATCGTGGTGTGCTCG
GAGAACAGCCTGCAGTTCTTCATGCCGGTGCTGGGCGCCCTCTTCATCGGCGTGGCCGTC
GCCCCGGCGAACGACATCTACAACGAGCGGGAGCTGCTGAACAGCATGGGGATCAGCCAG
CCGACCGTGGTGTTCGTGAGCAAGAAGGGCCTGCAGAAGATCCTGAACGTGCAGAAGAAG
CTGCCCATCATCCAGAAGATCATCATCATGGACAGCAAGACCGACTACCAGGGCTTCCAG
TCGATGTACACGTTCGTGACCAGCCACCTCCCGCCGGGCTTCAACGAGTACGACTTCGTC
CCGGAGAGCTTCGACCGGGACAAGACCATCGCCCTGATCATGAACAGCAGCGGCAGCACC
GGCCTGCCGAAGGGGGTGGCCCTGCCGCACCGGACCGCCTGCGTGCGCTTCTCGCACGCC
CGGGACCCCATCTTCGGCAACCAGATCATCCCGGACACCGCCATCCTGAGCGTGGTGCCG
TTCCACCACGGCTTCGGCATGTTCACGACCCTGGGCTACCTCATCTGCGGCTTCCGGGTG
GTCCTGATGTACCGGTTCGAGGAGGAGCTGTTCCTGCGGAGCCTGCAGGACTACAAGATC
CAGAGCGCGCTGCTCGTGCCGACCCTGTTCAGCTTCTTCGCCAAGAGCACCCTGATCGAC
AAGTACGACCTGTCGAACCTGCACGAGATCGCCAGCGGGGGCGCCCCGCTGAGCAAGGAG
GTGGGCGAGGCCGTGGCCAAGCGGTTCCACCTCCCGGGCATCCGCCAGGGCTACGGCCTG
ACCGAGACCACGAGCGCGATCCTGATCACCCCCGAGGGGGACGACAAGCCGGGCGCCGTG
GGCAAGGTGGTCCCGTTCTTCGAGGCCAAGGTGGTGGACCTGGACACCGGCAAGACCCTG
GGCGTGAACCAGCGGGGCGAGCTGTGCGTGCGGGGGCCGATGATCATGAGCGGCTACGTG
AACAACCCGGAGGCCACCAACGCCCTCATCGACAAGGACGGCTGGCTGCACAGCGGCGAC
ATCGCCTACTGGGACGAGGACGAGCACTTCTTCATCGTCGACCGGCTGAAGTCGCTGATC
AAGTACAAGGGCTACCAGGTGGCGCCGGCCGAGCTGGAGAGCATCCTGCTCCAGCACCCC
AACATCTTCGACGCCGGCGTGGCCGGGCTGCCGGACGACGACGCCGGCGAGCTGCCGGCC
GCGGTGGTGGTGCTGGAGCACGGCAAGACCATGACGGAGAAGGAGATCGTCGACTACGTG
GCCAGCCAGGTGACCACCGCCAAGAAGCTGCGGGGCGGCGTGGTGTTCGTGGACGAGGTC
CCGAAGGGCCTGACCGGGAAGCTCGACGCCCGGAAGATCCGCGAGATCCTGATCAAGGCC
AAGAAGGGCGGCAAGATCGCCGTGTAAGACTAGTAGATCTAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATGCATCCCCCCCCCC
CCCCCCCCCCCCCCCCCCCCAAAGGCTCTTTTCAGAGCCACCAGAATT

Fig. 1

rpl32 – PpLuc(GC) – ag – A64 – C30 – histoneSL:

GGGGCGCTGCCTACGGAGGTGGCAGCCATCTCCTTCTCGGCATCAAGCTTGAGGATGGAG
GACGCCAAGAACATCAAGAAGGGCCCGGCGCCCTTCTACCCGCTGGAGGACGGGACCGCC
GGCGAGCAGCTCCACAAGGCCATGAAGCGGTACGCCCTGGTGCCGGGCACGATCGCCTTC
ACCGACGCCCACATCGAGGTCGACATCACCTACGCGGAGTACTTCGAGATGAGCGTGCGC
CTGGCCGAGGCCATGAAGCGGTACGGCCTGAACACCAACCACCGGATCGTGGTGTGCTCG
GAGAACAGCCTGCAGTTCTTCATGCCGGTGCTGGGCGCCCTCTTCATCGGCGTGGCCGTC
GCCCCGGCGAACGACATCTACAACGAGCGGGAGCTGCTGAACAGCATGGGGATCAGCCAG
CCGACCGTGGTGTTCGTGAGCAAGAAGGGCCTGCAGAAGATCCTGAACGTGCAGAAGAAG
CTGCCCATCATCCAGAAGATCATCATCATGGACAGCAAGACCGACTACCAGGGCTTCCAG
TCGATGTACACGTTCGTGACCAGCCACCTCCCGCCGGGCTTCAACGAGTACGACTTCGTC
CCGGAGAGCTTCGACCGGGACAAGACCATCGCCCTGATCATGAACAGCAGCGGCAGCACC
GGCCTGCCGAAGGGGGTGGCCCTGCCGCACCGGACCGCCTGCGTGCGCTTCTCGCACGCC
CGGGACCCCATCTTCGGCAACCAGATCATCCCGGACACCGCCATCCTGAGCGTGGTGCCG
TTCCACCACGGCTTCGGCATGTTCACGACCCTGGGCTACCTCATCTGCGGCTTCCGGGTG
GTCCTGATGTACCGGTTCGAGGAGGAGCTGTTCCTGCGGAGCCTGCAGGACTACAAGATC
CAGAGCGCGCTGCTCGTGCCGACCCTGTTCAGCTTCTTCGCCAAGAGCACCCTGATCGAC
AAGTACGACCTGTCGAACCTGCACGAGATCGCCAGCGGGGGCGCCCCGCTGAGCAAGGAG
GTGGGCGAGGCCGTGGCCAAGCGGTTCCACCTCCCGGGCATCCGCCAGGGCTACGGCCTG
ACCGAGACCACGAGCGCGATCCTGATCACCCCCGAGGGGGACGACAAGCCGGGCGCCGTG
GGCAAGGTGGTCCCGTTCTTCGAGGCCAAGGTGGTGGACCTGGACACCGGCAAGACCCTG
GGCGTGAACCAGCGGGGCGAGCTGTGCGTGCGGGGGCCGATGATCATGAGCGGCTACGTG
AACAACCCGGAGGCCACCAACGCCCTCATCGACAAGGACGGCTGGCTGCACAGCGGCGAC
ATCGCCTACTGGGACGAGGACGAGCACTTCTTCATCGTCGACCGGCTGAAGTCGCTGATC
AAGTACAAGGGCTACCAGGTGGCGCCGGCCGAGCTGGAGAGCATCCTGCTCCAGCACCCC
AACATCTTCGACGCCGGCGTGGCCGGGCTGCCGGACGACGACGCCGGCGAGCTGCCGGCC
GCGGTGGTGGTGCTGGAGCACGGCAAGACCATGACGGAGAAGGAGATCGTCGACTACGTG
GCCAGCCAGGTGACCACCGCCAAGAAGCTGCGGGGCGGCGTGGTGTTCGTGGACGAGGTC
CCGAAGGGCCTGACCGGGAAGCTCGACGCCCGGAAGATCCGCGAGATCCTGATCAAGGCC
AAGAAGGGCGGCAAGATCGCCGTGTAAGACTAGTTATAAGACTGACTAGCCCGATGGGCC
TCCCAACGGGCCCTCCTCCCCTCCTTGCACCGAGATTAATAGATCTAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATGCATCCCCC
CCCCCCCCCCCCCCCCCCCCCCCCCCCAAAGGCTCTTTTCAGAGCCACCAGAATT

Fig. 2

rpl32 – PpLuc(GC) – rps9 – A64 – C30 – histoneSL ):

GGGGCGCTGCCTACGGAGGTGGCAGCCATCTCCTTCTCGGCATCAAGCTTGAGGATGGAG
GACGCCAAGAACATCAAGAAGGGCCCGGCGCCCTTCTACCCGCTGGAGGACGGGACCGCC
GGCGAGCAGCTCCACAAGGCCATGAAGCGGTACGCCCTGGTGCCGGGCACGATCGCCTTC
ACCGACGCCCACATCGAGGTCGACATCACCTACGCGGAGTACTTCGAGATGAGCGTGCGC
CTGGCCGAGGCCATGAAGCGGTACGGCCTGAACACCAACCACCGGATCGTGGTGTGCTCG
GAGAACAGCCTGCAGTTCTTCATGCCGGTGCTGGGCGCCCTCTTCATCGGCGTGGCCGTC
GCCCCGGCGAACGACATCTACAACGAGCGGGAGCTGCTGAACAGCATGGGGATCAGCCAG
CCGACCGTGGTGTTCGTGAGCAAGAAGGGCCTGCAGAAGATCCTGAACGTGCAGAAGAAG
CTGCCCATCATCCAGAAGATCATCATCATGGACAGCAAGACCGACTACCAGGGCTTCCAG
TCGATGTACACGTTCGTGACCAGCCACCTCCCGCCGGGCTTCAACGAGTACGACTTCGTC
CCGGAGAGCTTCGACCGGGACAAGACCATCGCCCTGATCATGAACAGCAGCGGCAGCACC
GGCCTGCCGAAGGGGGTGGCCCTGCCGCACCGGACCGCCTGCGTGCGCTTCTCGCACGCC
CGGGACCCCATCTTCGGCAACCAGATCATCCCGGACACCGCCATCCTGAGCGTGGTGCCG
TTCCACCACGGCTTCGGCATGTTCACGACCCTGGGCTACCTCATCTGCGGCTTCCGGGTG
GTCCTGATGTACCGGTTCGAGGAGGAGCTGTTCCTGCGGAGCCTGCAGGACTACAAGATC
CAGAGCGCGCTGCTCGTGCCGACCCTGTTCAGCTTCTTCGCCAAGAGCACCCTGATCGAC
AAGTACGACCTGTCGAACCTGCACGAGATCGCCAGCGGGGGCGCCCCGCTGAGCAAGGAG
GTGGGCGAGGCCGTGGCCAAGCGGTTCCACCTCCCGGGCATCCGCCAGGGCTACGGCCTG
ACCGAGACCACGAGCGCGATCCTGATCACCCCCGAGGGGGACGACAAGCCGGGCGCCGTG
GGCAAGGTGGTCCCGTTCTTCGAGGCCAAGGTGGTGGACCTGGACACCGGCAAGACCCTG
GGCGTGAACCAGCGGGGCGAGCTGTGCGTGCGGGGGCCGATGATCATGAGCGGCTACGTG
AACAACCCGGAGGCCACCAACGCCCTCATCGACAAGGACGGCTGGCTGCACAGCGGCGAC
ATCGCCTACTGGGACGAGGACGAGCACTTCTTCATCGTCGACCGGCTGAAGTCGCTGATC
AAGTACAAGGGCTACCAGGTGGCGCCGGCCGAGCTGGAGAGCATCCTGCTCCAGCACCCC
AACATCTTCGACGCCGGCGTGGCCGGGCTGCCGGACGACGACGCCGGCGAGCTGCCGGCC
GCGGTGGTGGTGCTGGAGCACGGCAAGACCATGACGGAGAAGGAGATCGTCGACTACGTG
GCCAGCCAGGTGACCACCGCCAAGAAGCTGCGGGGCGGCGTGGTGTTCGTGGACGAGGTC
CCGAAGGGCCTGACCGGGAAGCTCGACGCCCGGAAGATCCGCGAGATCCTGATCAAGGCC
AAGAAGGGCGGCAAGATCGCCGTGTAAGACTAGTGTCCACCTGTCCCTCCTGGGCTGCTG
GATTGTCTCGTTTTCCTGCCAAATAAACAGGATCAGCGCTTTACAGATCTAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATGCATC
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCAAAGGCTCTTTTCAGAGCCACCAGAATT

Fig. 3

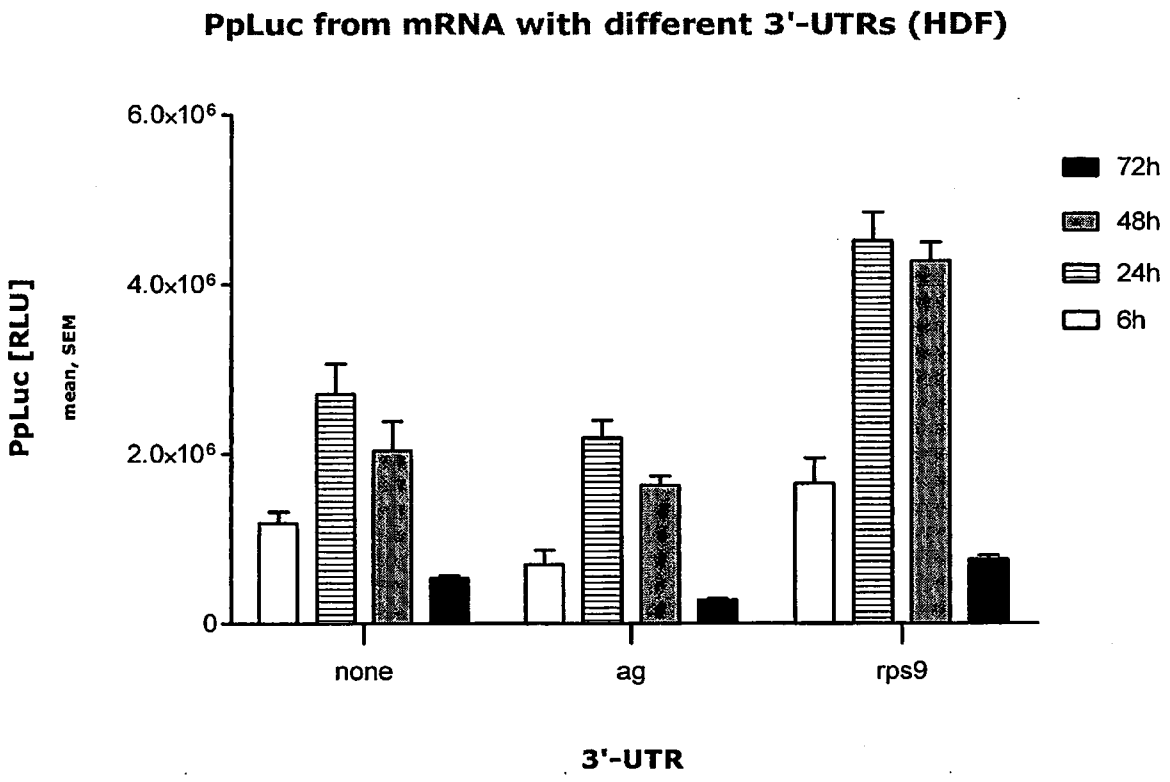

PpLuc from mRNA with different 3'-UTRs (HDF)
6.0x10⁶
4.0x10⁶
2.0x10⁶
0
PpLuc [RLU]
mean, SEM
72h
48h
24h
6h
none
ag
rps9
3'-UTR

Fig. 4

rpl32 – PpLuc(GC) – albumin7 – A64 – C30 – histoneSL

GGGGCGCTGCCTACGGAGGTGGCAGCCATCTCCTTCTCGGCATCAAGCTTGAGGATGGAG
GACGCCAAGAACATCAAGAAGGGCCCGGCGCCCTTCTACCCGCTGGAGGACGGGACCGCC
GGCGAGCAGCTCCACAAGGCCATGAAGCGGTACGCCCTGGTGCCGGGCACGATCGCCTTC
ACCGACGCCCACATCGAGGTCGACATCACCTACGCGGAGTACTTCGAGATGAGCGTGCGC
CTGGCCGAGGCCATGAAGCGGTACGGCCTGAACACCAACCACCGGATCGTGGTGTGCTCG
GAGAACAGCCTGCAGTTCTTCATGCCGGTGCTGGGCGCCCTCTTCATCGGCGTGGCCGTC
GCCCCGGCGAACGACATCTACAACGAGCGGGAGCTGCTGAACAGCATGGGGATCAGCCAG
CCGACCGTGGTGTTCGTGAGCAAGAAGGGCCTGCAGAAGATCCTGAACGTGCAGAAGAAG
CTGCCCATCATCCAGAAGATCATCATCATGGACAGCAAGACCGACTACCAGGGCTTCCAG
TCGATGTACACGTTCGTGACCAGCCACCTCCCGCCGGGCTTCAACGAGTACGACTTCGTC
CCGGAGAGCTTCGACCGGGACAAGACCATCGCCCTGATCATGAACAGCAGCGGCAGCACC
GGCCTGCCGAAGGGGGTGGCCCTGCCGCACCGGACCGCCTGCGTGCGCTTCTCGCACGCC
CGGGACCCCATCTTCGGCAACCAGATCATCCCGGACACCGCCATCCTGAGCGTGGTGCCG
TTCCACCACGGCTTCGGCATGTTCACGACCCTGGGCTACCTCATCTGCGGCTTCCGGGTG
GTCCTGATGTACCGGTTCGAGGAGGAGCTGTTCCTGCGGAGCCTGCAGGACTACAAGATC
CAGAGCGCGCTGCTCGTGCCGACCCTGTTCAGCTTCTTCGCCAAGAGCACCCTGATCGAC
AAGTACGACCTGTCGAACCTGCACGAGATCGCCAGCGGGGGCGCCCCGCTGAGCAAGGAG
GTGGGCGAGGCCGTGGCCAAGCGGTTCCACCTCCCGGGCATCCGCCAGGGCTACGGCCTG
ACCGAGACCACGAGCGCGATCCTGATCACCCCCGAGGGGGACGACAAGCCGGGCGCCGTG
GGCAAGGTGGTCCCGTTCTTCGAGGCCAAGGTGGTGGACCTGGACACCGGCAAGACCCTG
GGCGTGAACCAGCGGGGCGAGCTGTGCGTGCGGGGGCCGATGATCATGAGCGGCTACGTG
AACAACCCGGAGGCCACCAACGCCCTCATCGACAAGGACGGCTGGCTGCACAGCGGCGAC
ATCGCCTACTGGGACGAGGACGAGCACTTCTTCATCGTCGACCGGCTGAAGTCGCTGATC
AAGTACAAGGGCTACCAGGTGGCGCCGGCCGAGCTGGAGAGCATCCTGCTCCAGCACCCC
AACATCTTCGACGCCGGCGTGGCCGGGCTGCCGGACGACGACGCCGGCGAGCTGCCGGCC
GCGGTGGTGGTGCTGGAGCACGGCAAGACCATGACGGAGAAGGAGATCGTCGACTACGTG
GCCAGCCAGGTGACCACCGCCAAGAAGCTGCGGGGCGGCGTGGTGTTCGTGGACGAGGTC
CCGAAGGGCCTGACCGGGAAGCTCGACGCCCGGAAGATCCGCGAGATCCTGATCAAGGCC
AAGAAGGGCGGCAAGATCGCCGTGTAAGACTAGTGCATCACATTTAAAAGCATCTCAGCC
TACCATGAGAATAAGAGAAAGAAAATGAAGATCAATAGCTTATTCATCTCTTTTTCTTTT
TCGTTGGTGTAAAGCCAACACCCTGTCTAAAAAACATAAATTTCTTTAATCATTTTGCCT
CTTTTCTCTGTGCTTCAATTAATAAAAAATGGAAAGAACCTAGATCTAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATGCATCCCC
CCCCCCCCCCCCCCCCCCCCCCCCCCCCAAAGGCTCTTTTCAGAGCCACCAGAATT

Fig. 5

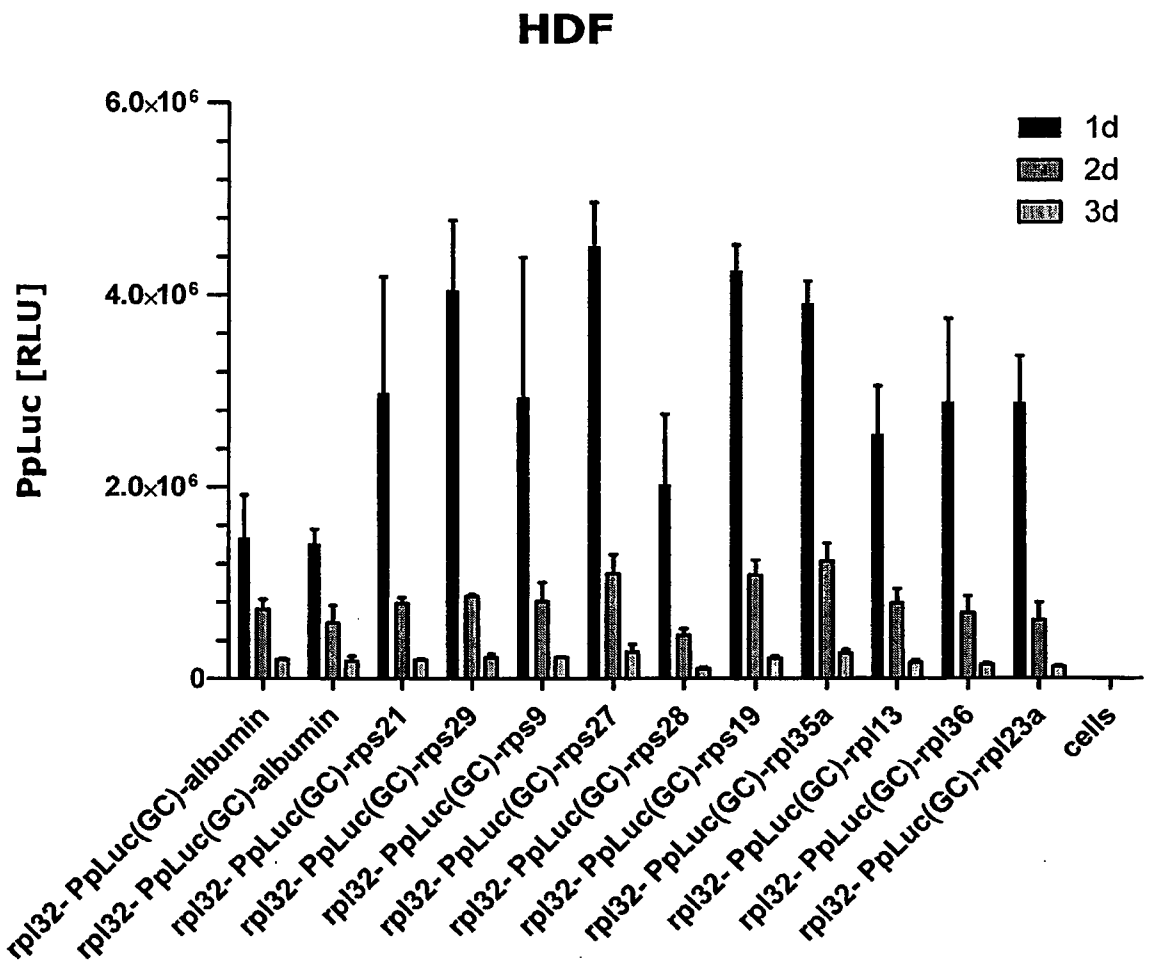

HDF
PpLuc [RLU]
6.0x10⁶
4.0x10⁶
2.0x10⁶
0
1d
2d
3d
rpl32- PpLuc(GC)-albumin
rpl32- PpLuc(GC)-albumin
rpl32- PpLuc(GC)-rps21
rpl32- PpLuc(GC)-rps29
rpl32- PpLuc(GC)-rps9
rpl32- PpLuc(GC)-rps27
rpl32- PpLuc(GC)-rps28
rpl32- PpLuc(GC)-rps19
rpl32- PpLuc(GC)-rpl35a
rpl32- PpLuc(GC)-rpl13
rpl32- PpLuc(GC)-rpl36
rpl32- PpLuc(GC)-rpl23a
cells

Fig. 6

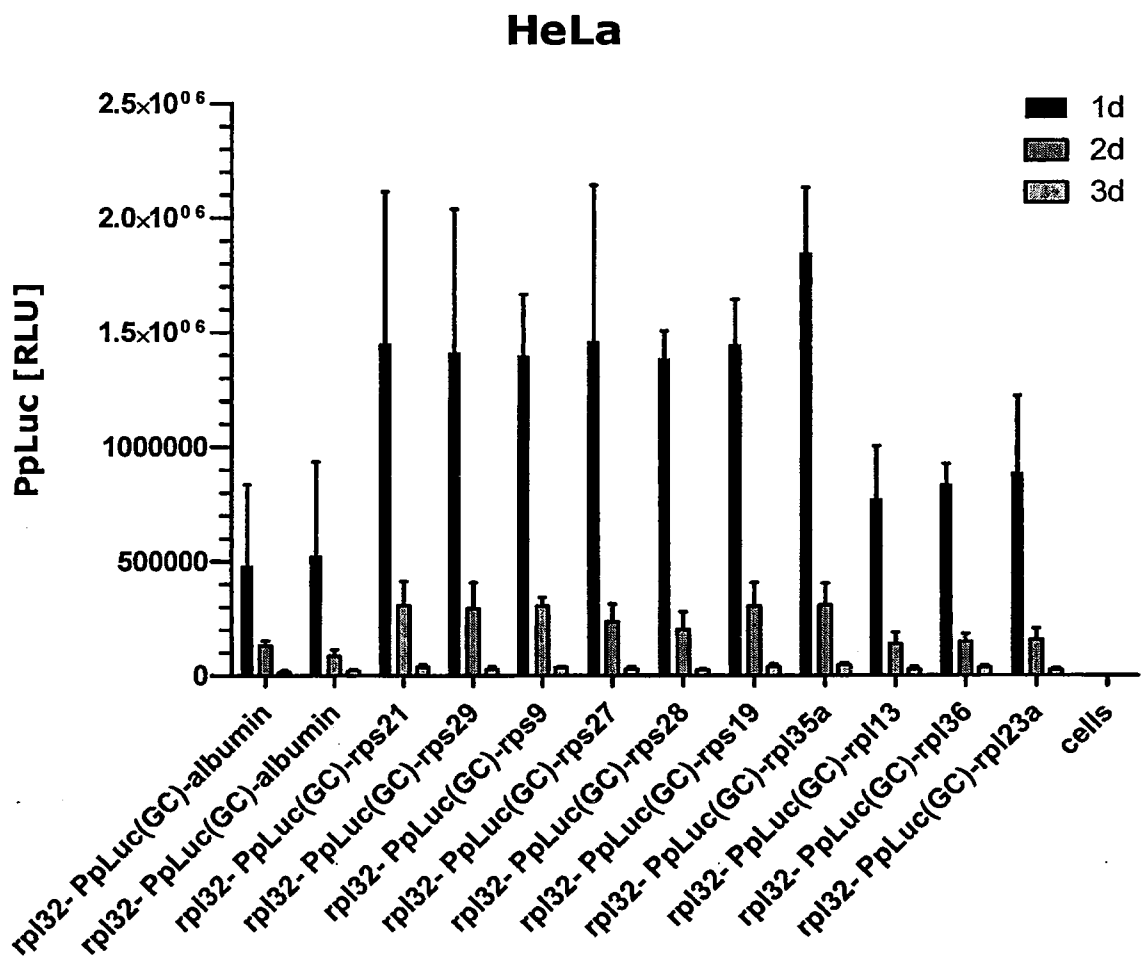

HeLa
PpLuc [RLU]
2.5x10^06
2.0x10^06
1.5x10^06
1000000
500000
0
1d
2d
3d
rpl32- PpLuc(GC)-albumin
rpl32- PpLuc(GC)-albumin
rpl32- PpLuc(GC)-rps21
rpl32- PpLuc(GC)-rps29
rpl32- PpLuc(GC)-rps9
rpl32- PpLuc(GC)-rps27
rpl32- PpLuc(GC)-rps28
rpl32- PpLuc(GC)-rps19
rpl32- PpLuc(GC)-rpl35a
rpl32- PpLuc(GC)-rpl13
rpl32- PpLuc(GC)-rpl36
rpl32- PpLuc(GC)-rpl23a
cells

Fig. 7

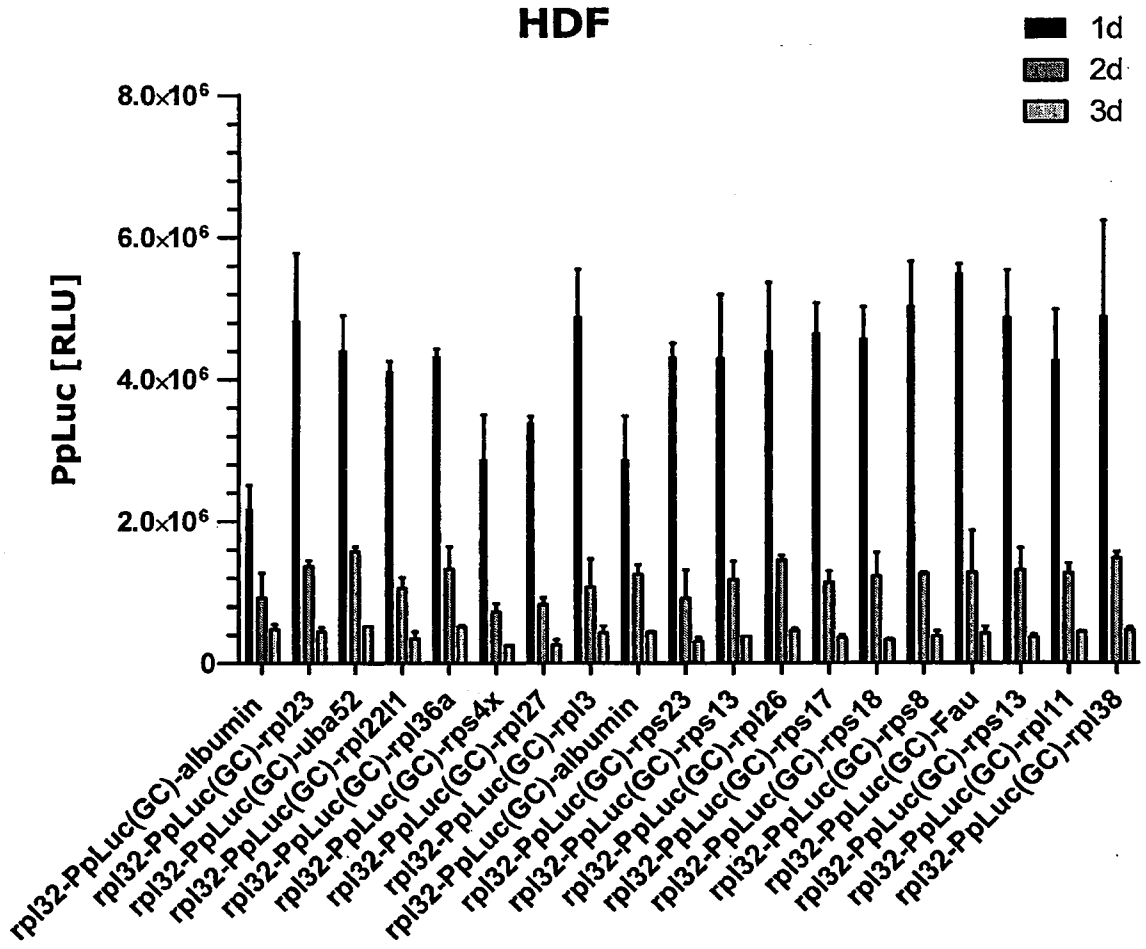

HDF
1d
2d
3d
PpLuc [RLU]
8.0x10⁶
6.0x10⁶
4.0x10⁶
2.0x10⁶
0
rpl32-PpLuc(GC)-albumin
rpl32-PpLuc(GC)-rpl23
rpl32-PpLuc(GC)-uba52
rpl32-PpLuc(GC)-rpl22l1
rpl32-PpLuc(GC)-rpl36a
rpl32-PpLuc(GC)-rps4x
rpl32-PpLuc(GC)-rpl27
rpl32-PpLuc(GC)-rpl3
rpl32-PpLuc(GC)-albumin
rpl32-PpLuc(GC)-rps23
rpl32-PpLuc(GC)-rps13
rpl32-PpLuc(GC)-rpl26
rpl32-PpLuc(GC)-rps17
rpl32-PpLuc(GC)-rps18
rpl32-PpLuc(GC)-rps8
rpl32-PpLuc(GC)-Fau
rpl32-PpLuc(GC)-rps13
rpl32-PpLuc(GC)-rpl11
rpl32-PpLuc(GC)-rpl38

Fig. 8

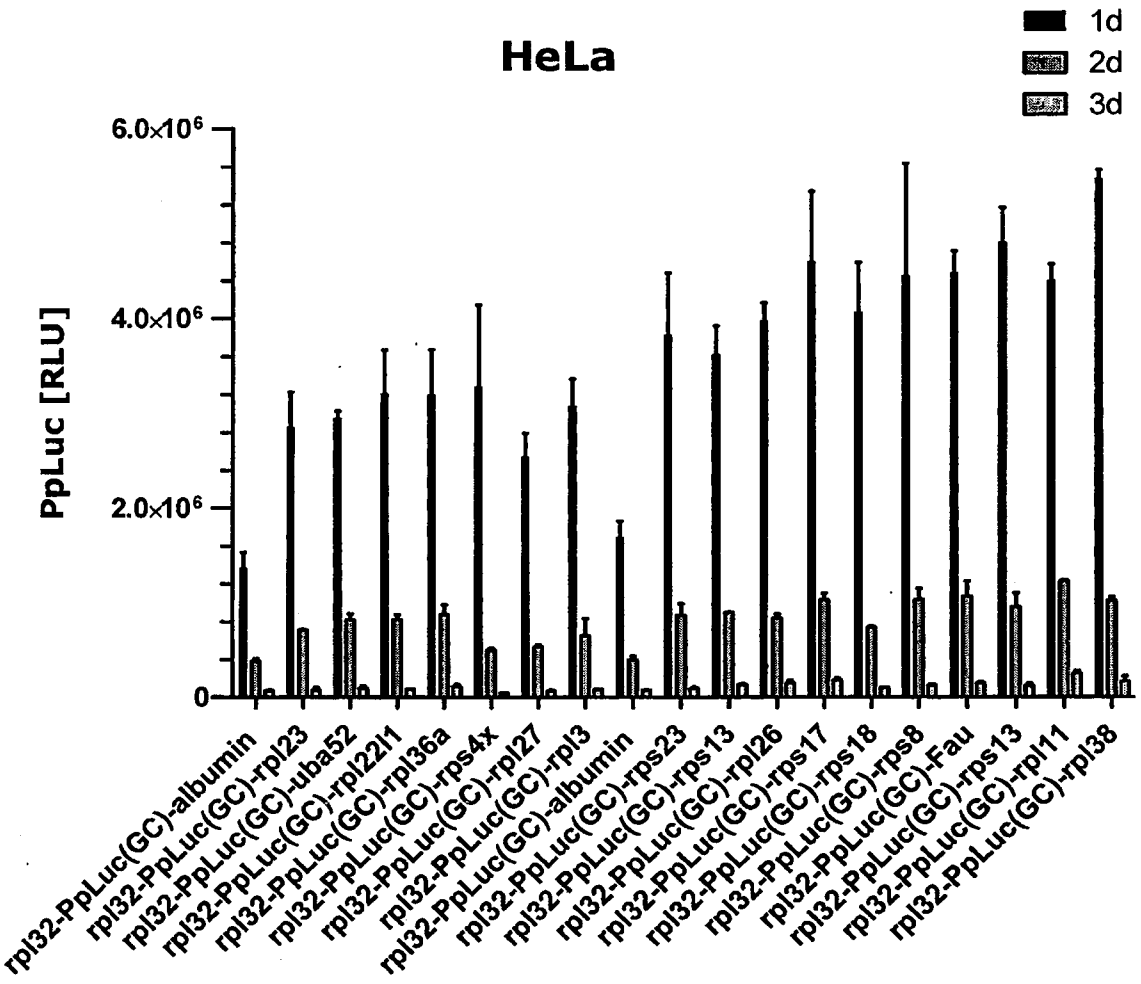

HeLa
1d
2d
3d
PpLuc [RLU]
6.0x10⁶
4.0x10⁶
2.0x10⁶
0
rpl32-PpLuc(GC)-albumin
rpl32-PpLuc(GC)-rpl23
rpl32-PpLuc(GC)-uba52
rpl32-PpLuc(GC)-rpl22l1
rpl32-PpLuc(GC)-rpl36a
rpl32-PpLuc(GC)-rps4x
rpl32-PpLuc(GC)-rpl27
rpl32-PpLuc(GC)-rpl3
rpl32-PpLuc(GC)-albumin
rpl32-PpLuc(GC)-rps23
rpl32-PpLuc(GC)-rps13
rpl32-PpLuc(GC)-rpl26
rpl32-PpLuc(GC)-rps17
rpl32-PpLuc(GC)-rps18
rpl32-PpLuc(GC)-rps8
rpl32-PpLuc(GC)-Fau
rpl32-PpLuc(GC)-rps13
rpl32-PpLuc(GC)-rpl11
rpl32-PpLuc(GC)-rpl38

Fig. 9