FIG. 1


mPBase
DSC
MGSSLDDEHILSALLQSDDELVGEDSDSEISDHVSEDDVQSDTEEAFIDEVHEVQPTSSGSEILDEQNVIEQPGSSLASNRIL
TLPQRTIRGKNKHCWSTSKSTRRSRVSALNIVRSQRGPTRMCRNIYDPLLCFKLFFTDEIISEIVKWTNAEISLKRRESMTGA
TFRDTNEDEIYAFFGILVMTAVRKDNHMSTDDLFDRSLSMVYVSVMSRDRFDFLIRCLRMDDKSIRPTLRENDVFTPVRKIWD
LFIHQCIQNYTPGAHLTIDEQLLGFRGRCPFRMYIPNKPSKYGIKILMMCDSGTKYMINGMPYLGRGTQTNGVPLGEYYVKEL
SKPVHGSCRNITCDNWFTSIPLAKNLLQEPYKLTIVGTVRSNKREIPEVLKNSRSRPVGTSMFCFDGPLTLVSYKPKPAKMVY
LLSSCDEDASINESTGKPQMVMYYNQTKGGVDTLDQMCSVMTCSRKTNRWPMALLYGMINIACINSFIIYSHNVSSKGEKVQS
RKKFMRNLYMSLTSSFMRKRLEAPTLKRYLRDNISNILPNEVPGTSDDSTEEPVMKKRTYCTYCPSKIRRKANASCKKCKKVI
CREHNIDMCQSCF

FIG. 2

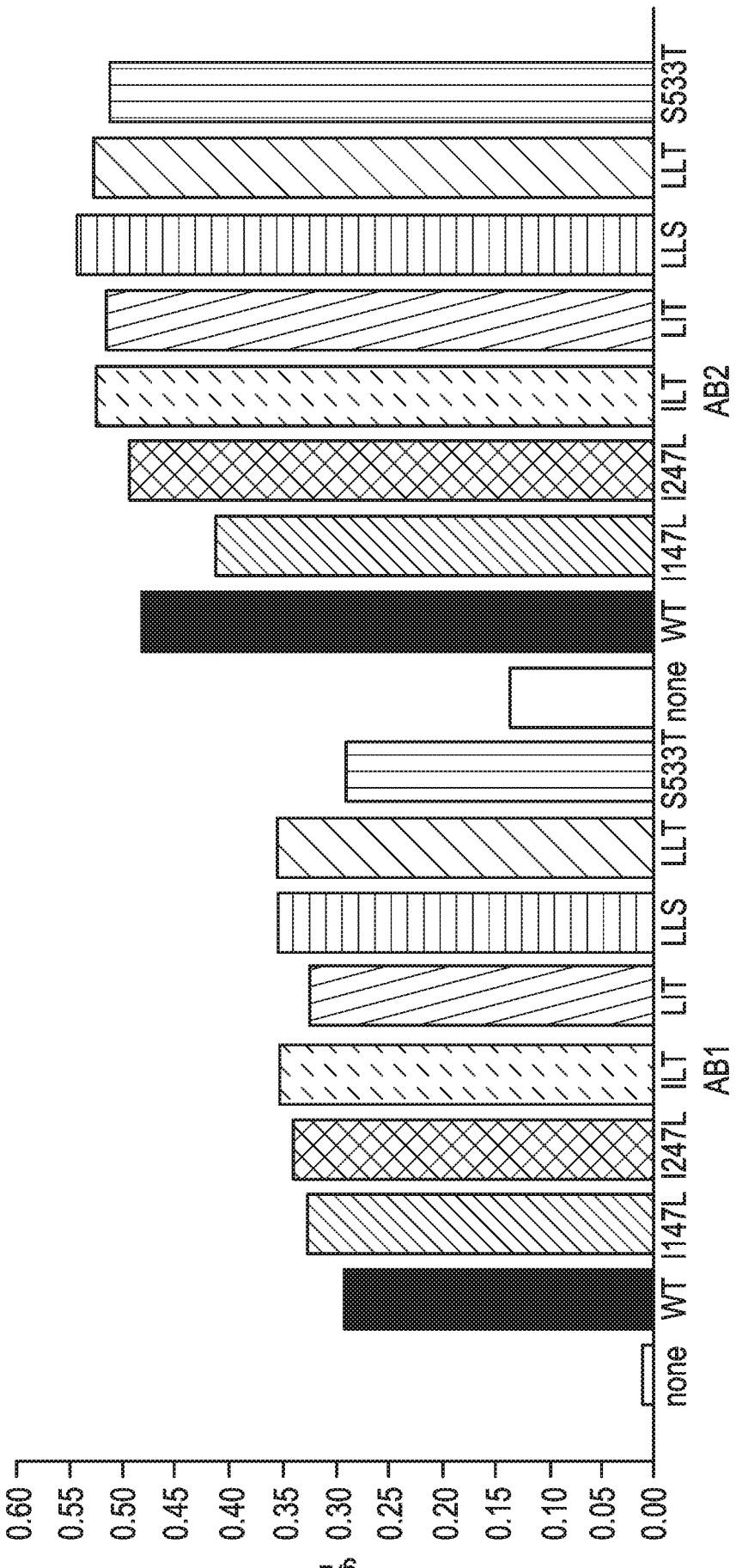

0.60
0.55
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
g/L
none
WT
I147L
I247L
ILT
LIT
LLS
LLT
S533T
AB1
none
WT
I147L
I247L
ILT
LIT
LLS
LLT
S533T
AB2

FIG. 3

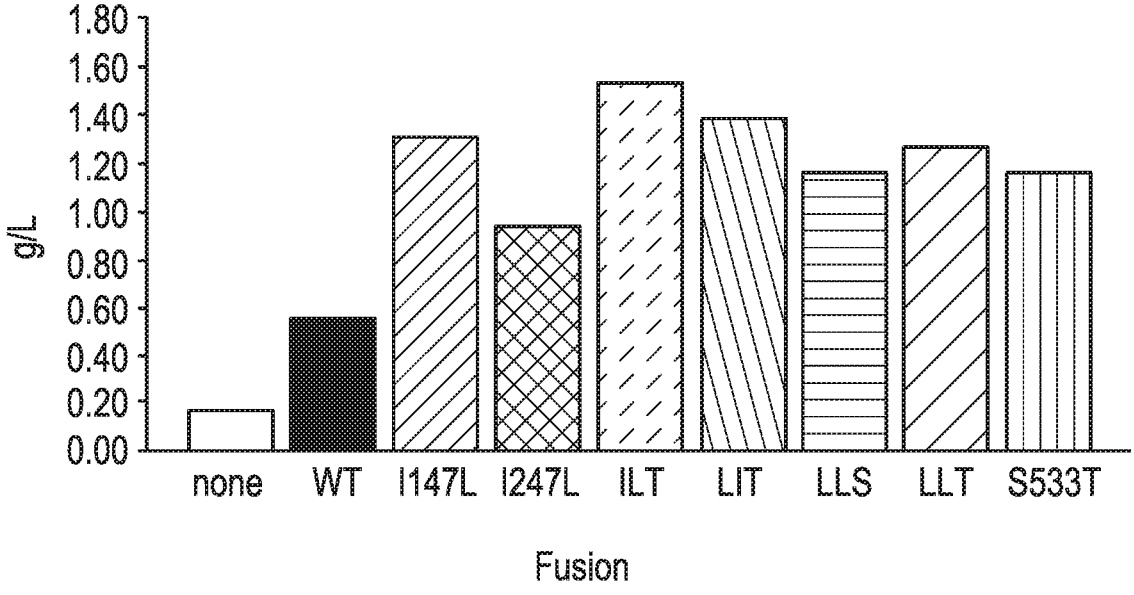

1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
g/L
none
WT
I147L
I247L
ILT
LIT
LLS
LLT
S533T
Fusion

FIG. 4

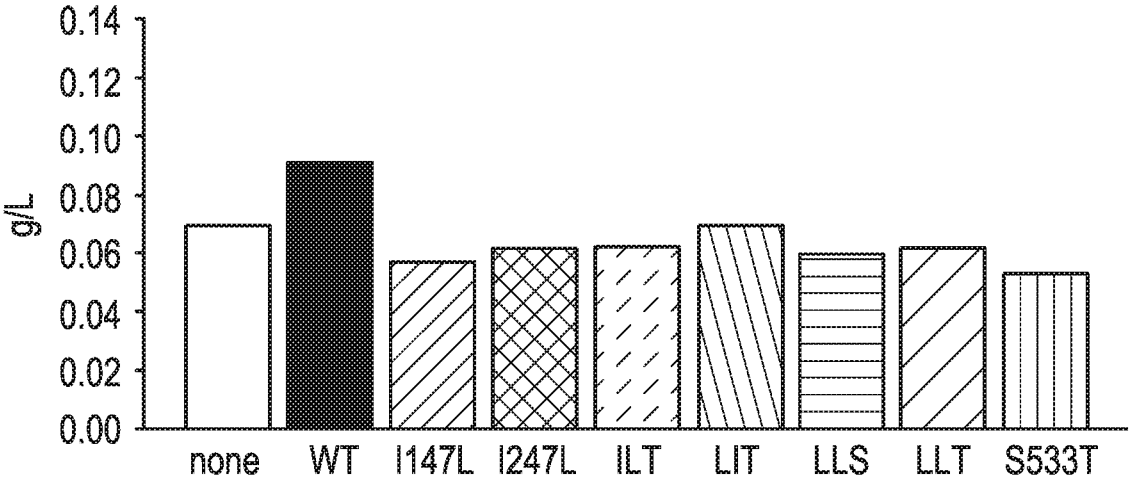

0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
g/L
none
WT
I147L
I247L
ILT
LIT
LLS
LLT
S533T

FIG. 5

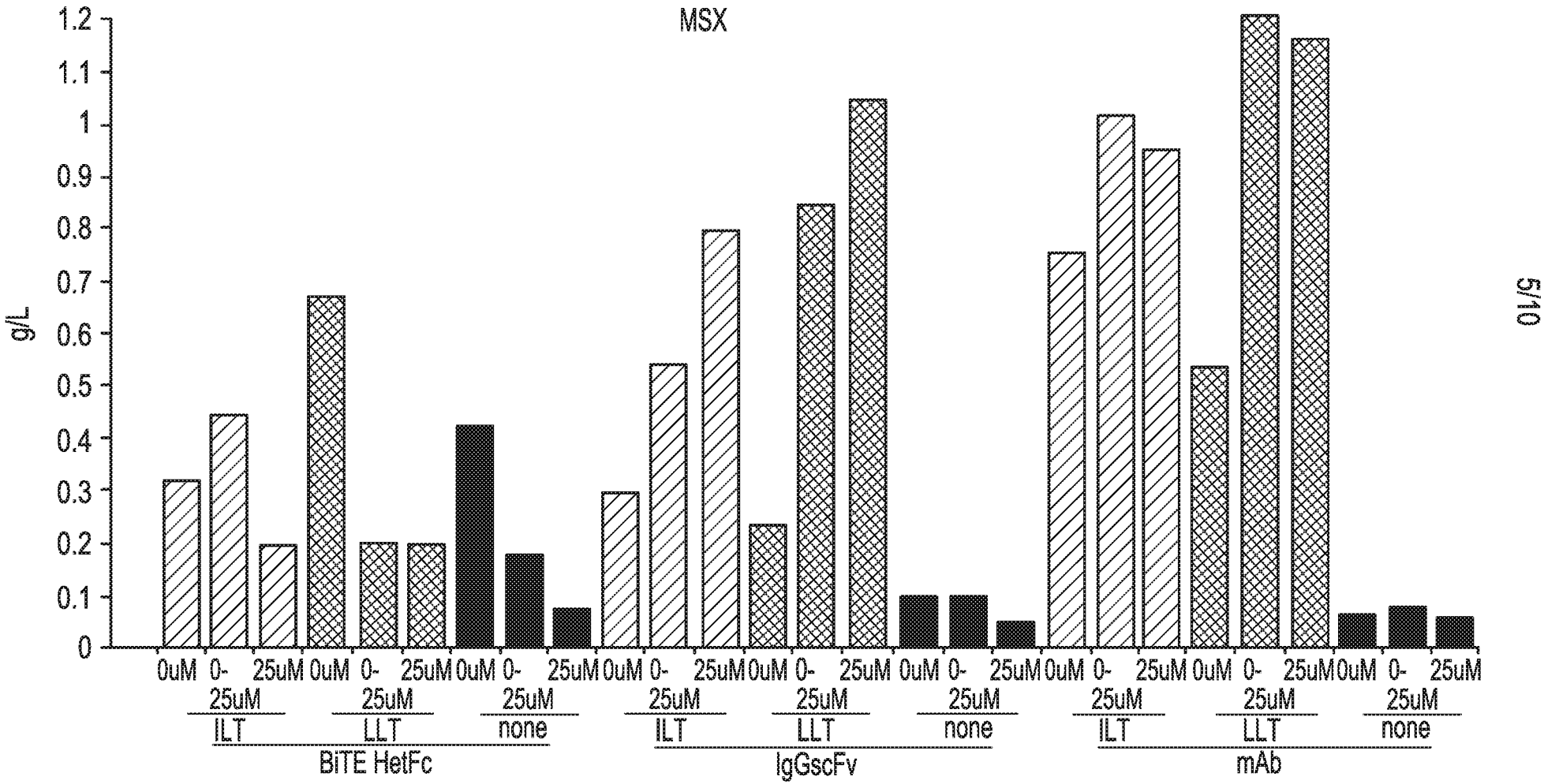

MSX
g/L
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0uM
0-25uM
25uM
ILT
LLT
none
BiTE HetFc
IgGscFv
mAb

FIG. 6A

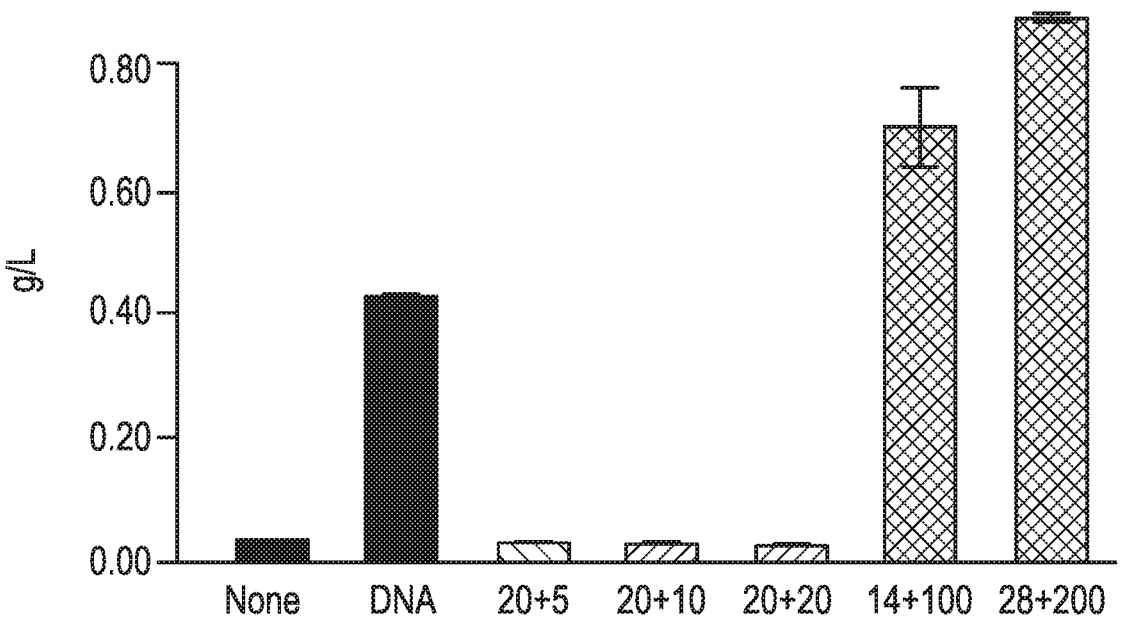

0.80
0.60
0.40
0.20
0.00
g/L
None
DNA
20+5
20+10
20+20
14+100
28+200

FIG. 6B

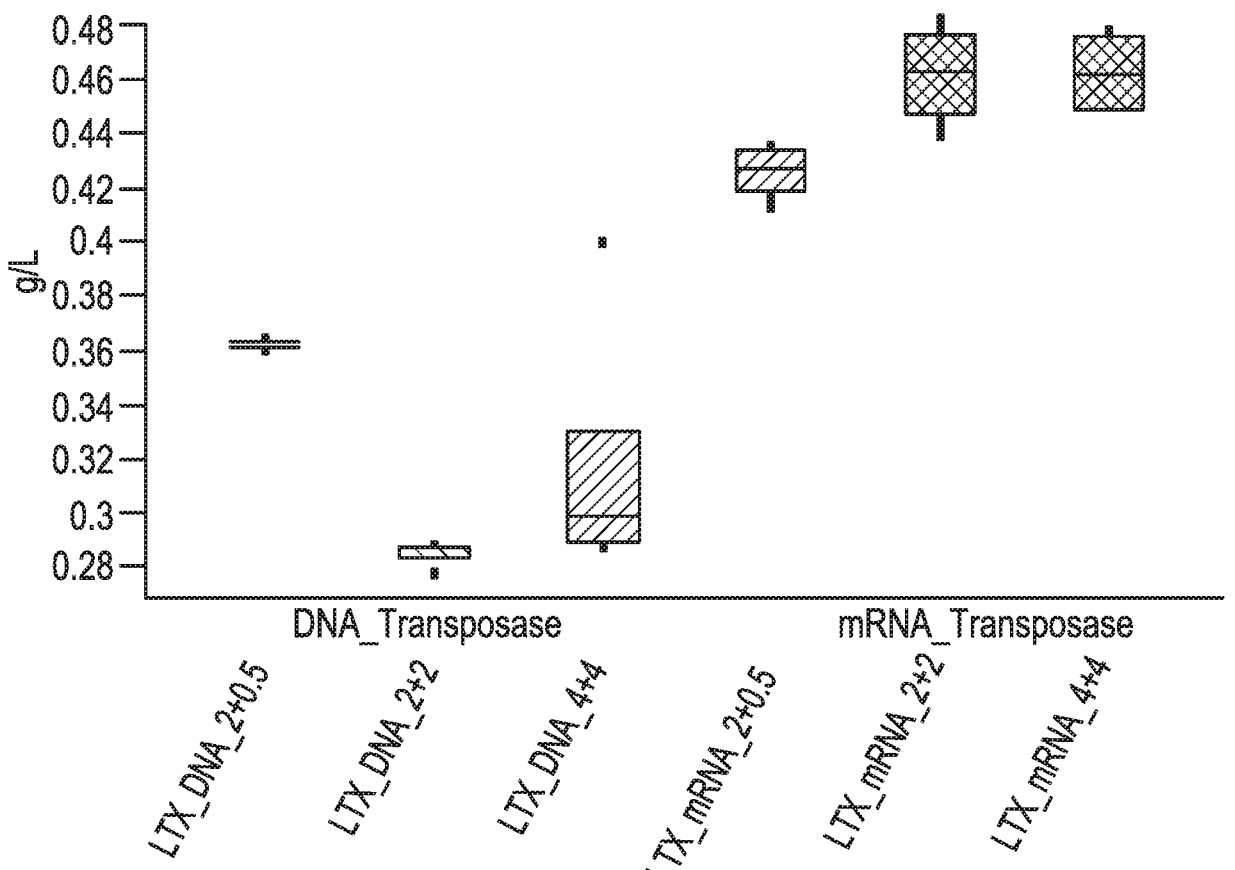

0.48
0.46
0.44
0.42
0.4
0.38
0.36
0.34
0.32
0.3
0.28
g/L
DNA_Transposase
mRNA_Transposase
LTX_DNA_2+0.5
LTX_DNA_2+2
LTX_DNA_4+4
LTX_mRNA_2+0.5
LTX_mRNA_2+2
LTX_mRNA_4+4

FIG. 7

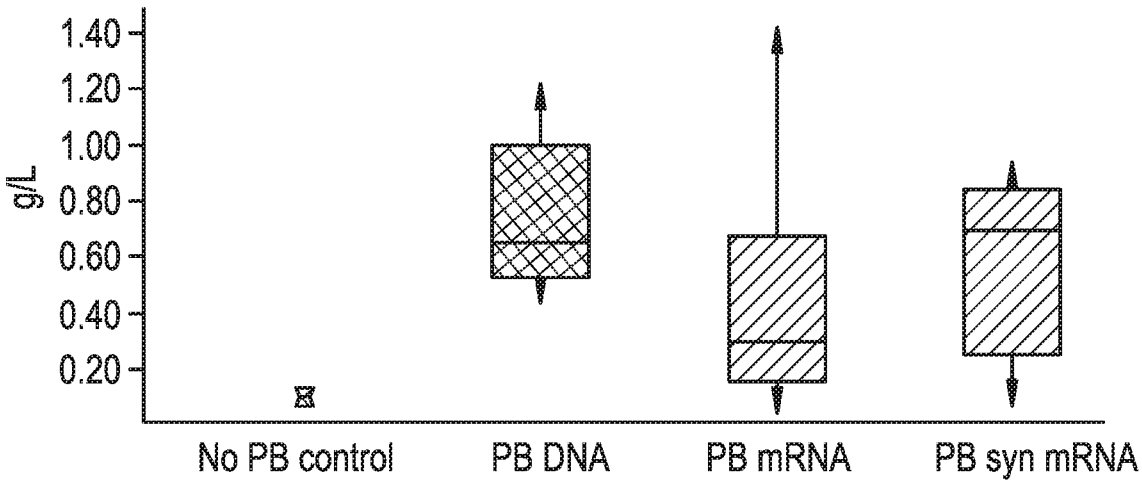

g/L
1.40
1.20
1.00
0.80
0.60
0.40
0.20
No PB control
PB DNA
PB mRNA
PB syn mRNA

FIG. 8A

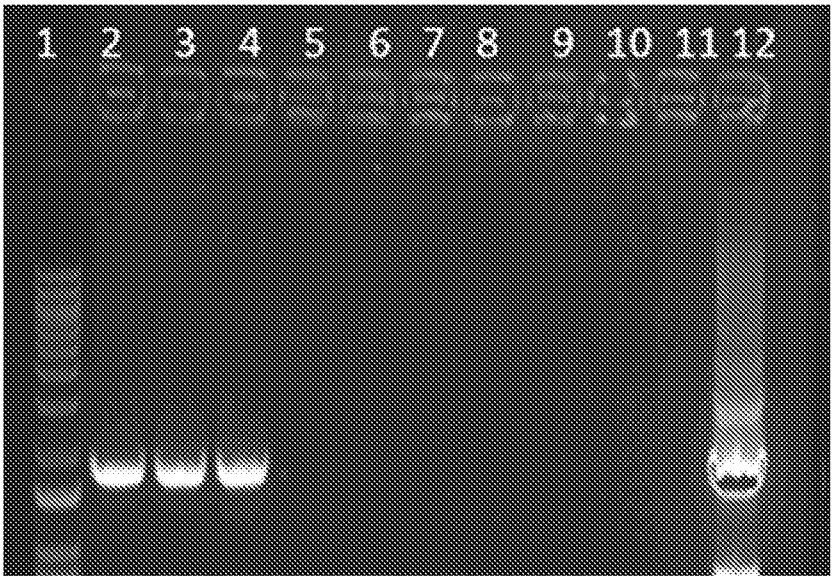


FIG. 8B

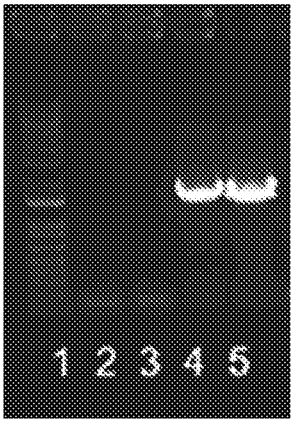


FIG. 9

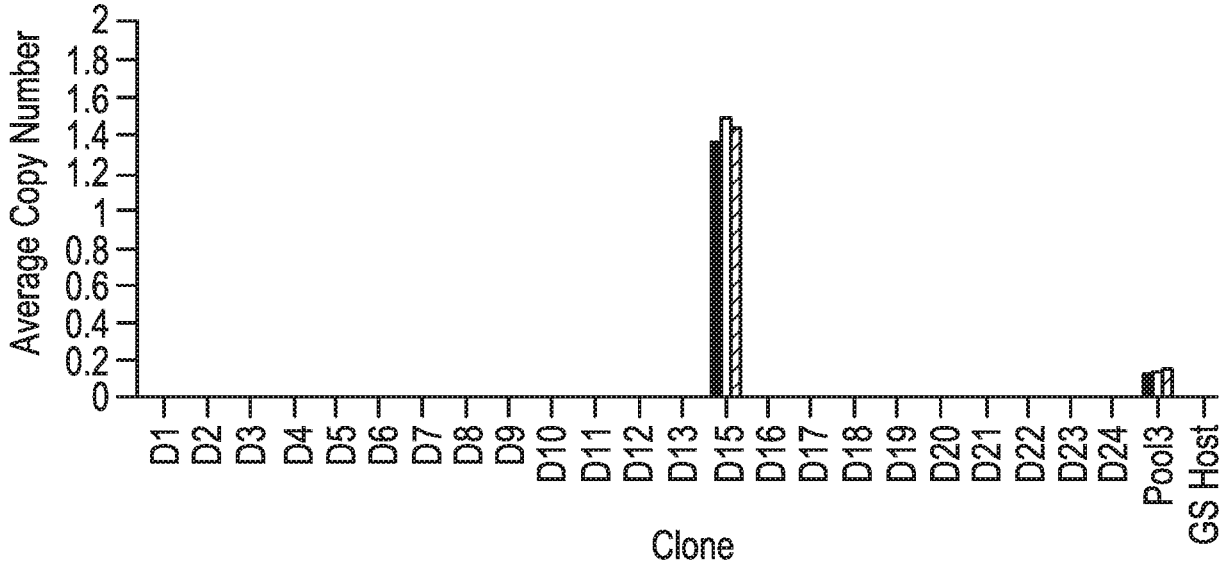

Average Copy Number
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D15
D16
D17
D18
D19
D20
D21
D22
D23
D24
Pool3
GS Host
Clone

FIG. 10A

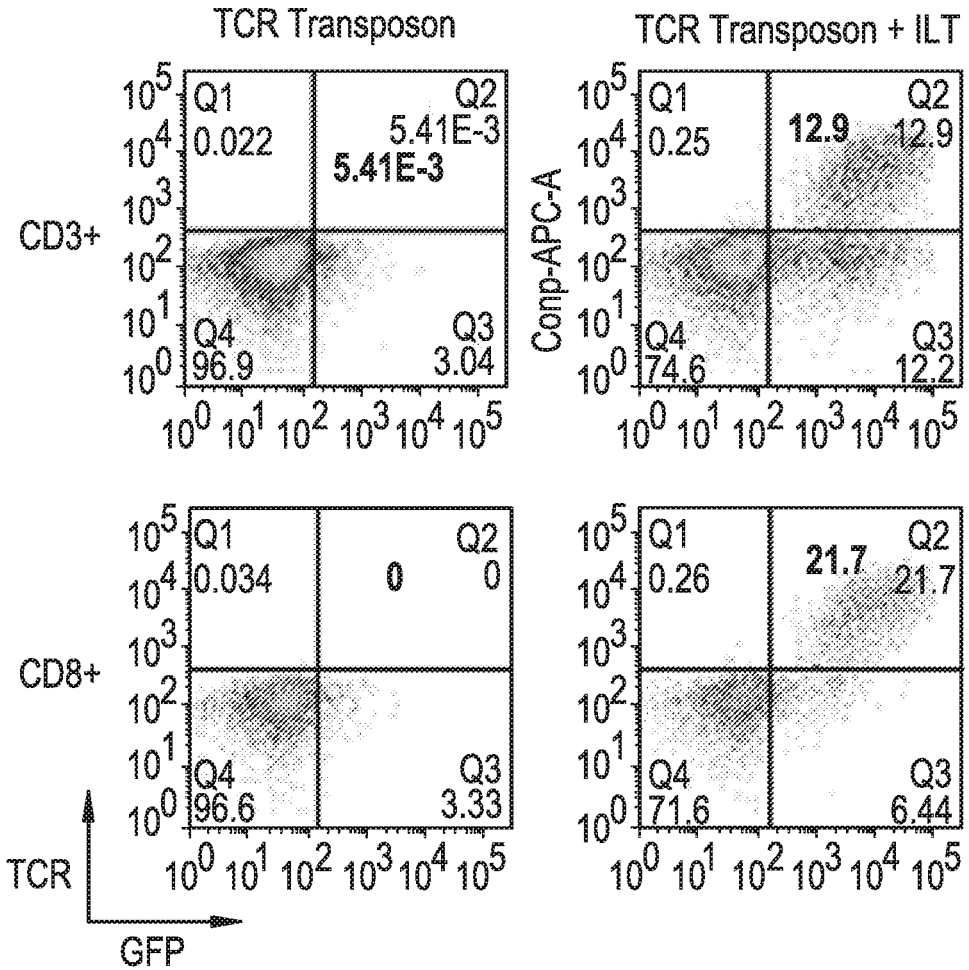


FIG. 10B

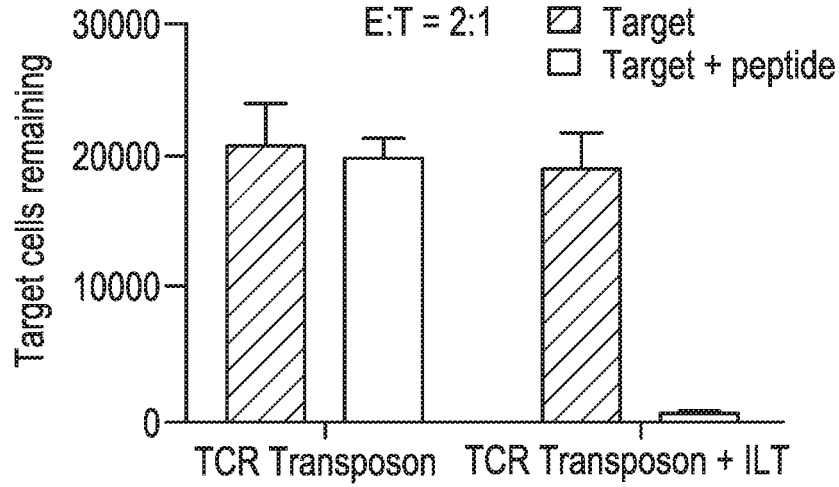


FIG. 10C

