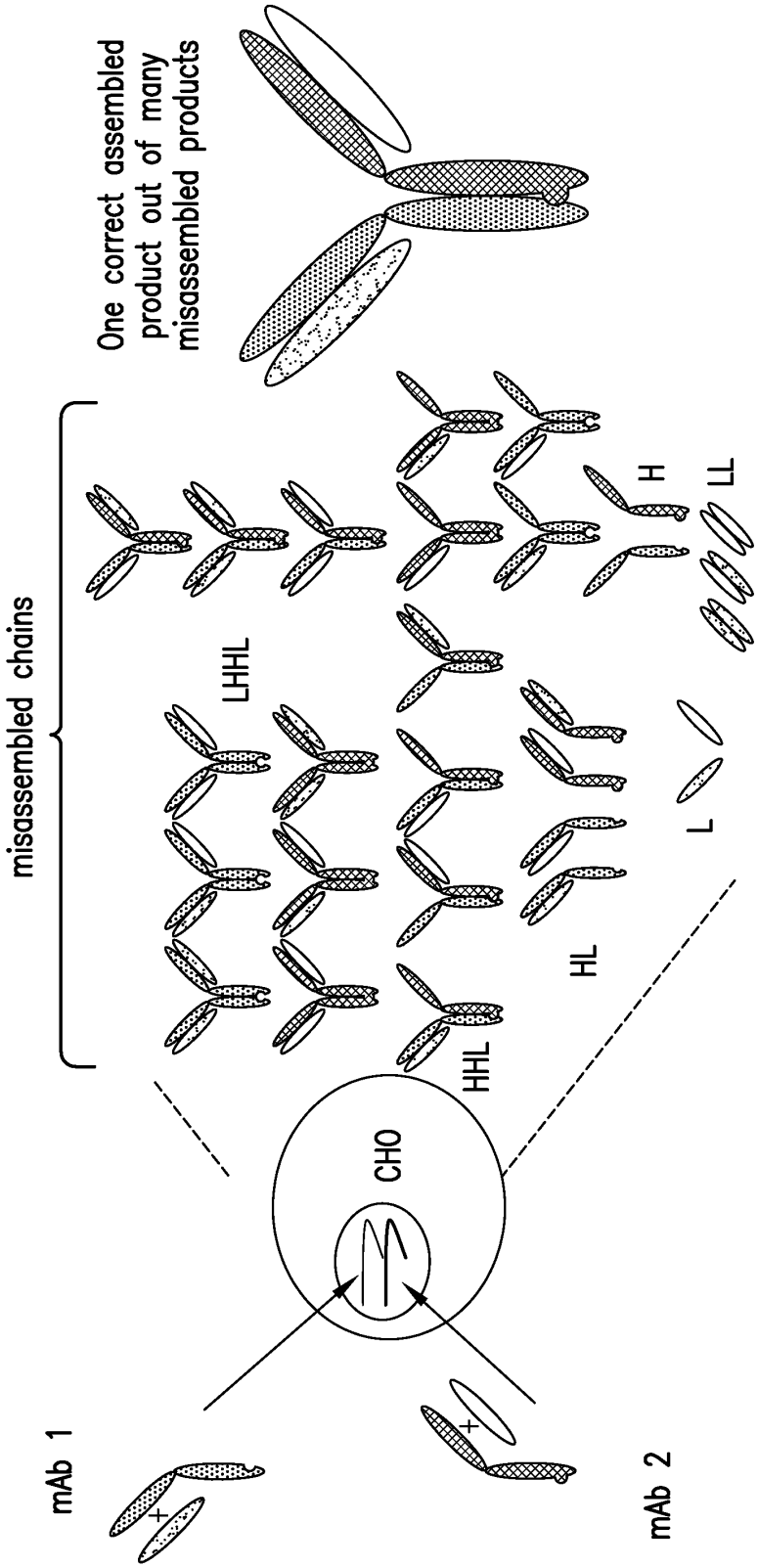
One correct assembled product out of many misassembled products
misassembled chains
LHHL
HHL
HL
L
H
LL
CHO
mAb 1
mAb 2

FIG.1

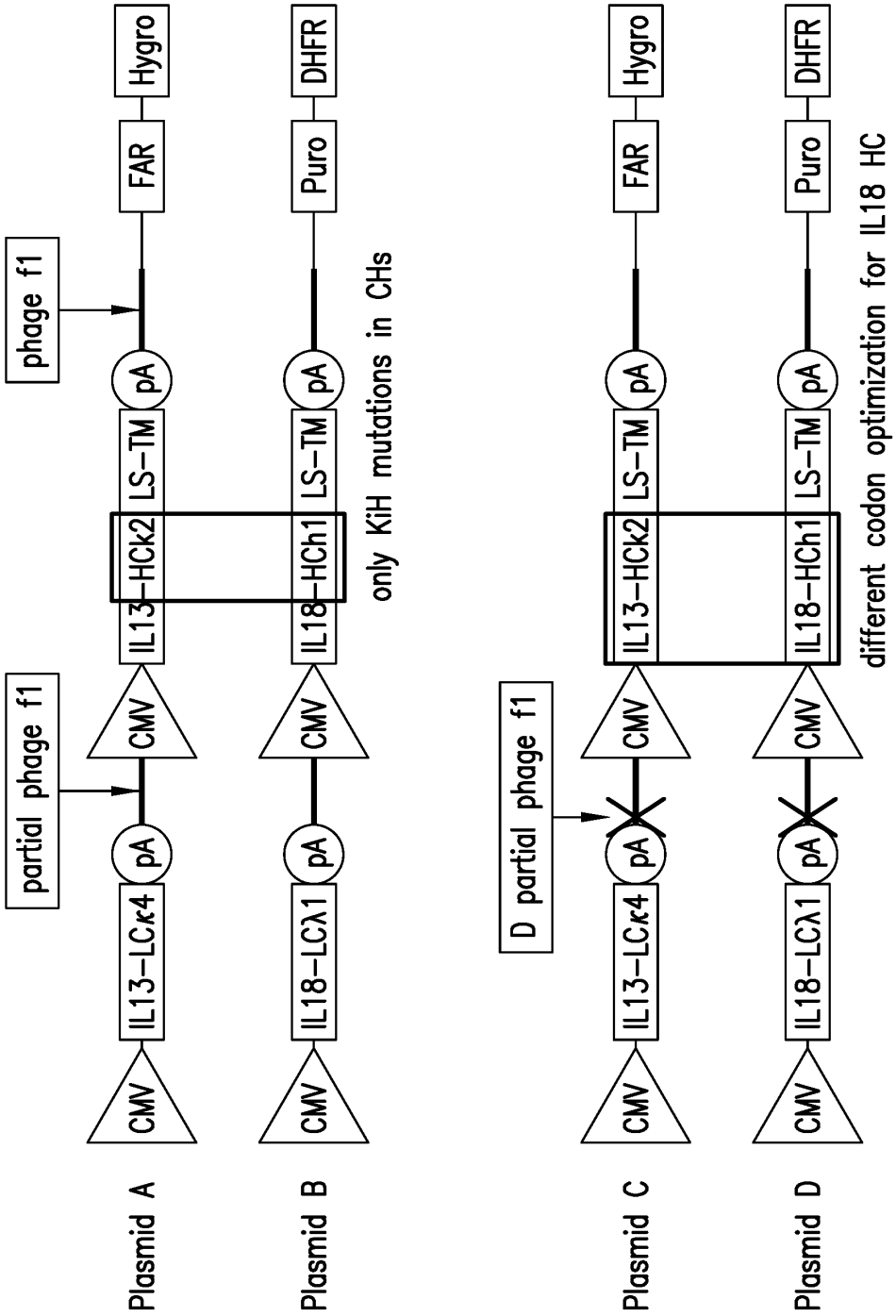
Plasmid A
CMV
IL13–LCκ4
pA
partial phage f1
CMV
IL13–HCk2
LS–TM
pA
phage f1
FAR
Hygro
Plasmid B
CMV
IL18–LCλ1
pA
CMV
IL18–HCh1
LS–TM
pA
Puro
DHFR
only KiH mutations in CHs
Plasmid C
CMV
IL13–LCκ4
pA
D partial phage f1
CMV
IL13–HCk2
LS–TM
pA
FAR
Hygro
Plasmid D
CMV
IL18–LCλ1
pA
CMV
IL18–HCh1
LS–TM
pA
Puro
DHFR
different codon optimization for IL18 HC

FIG.2

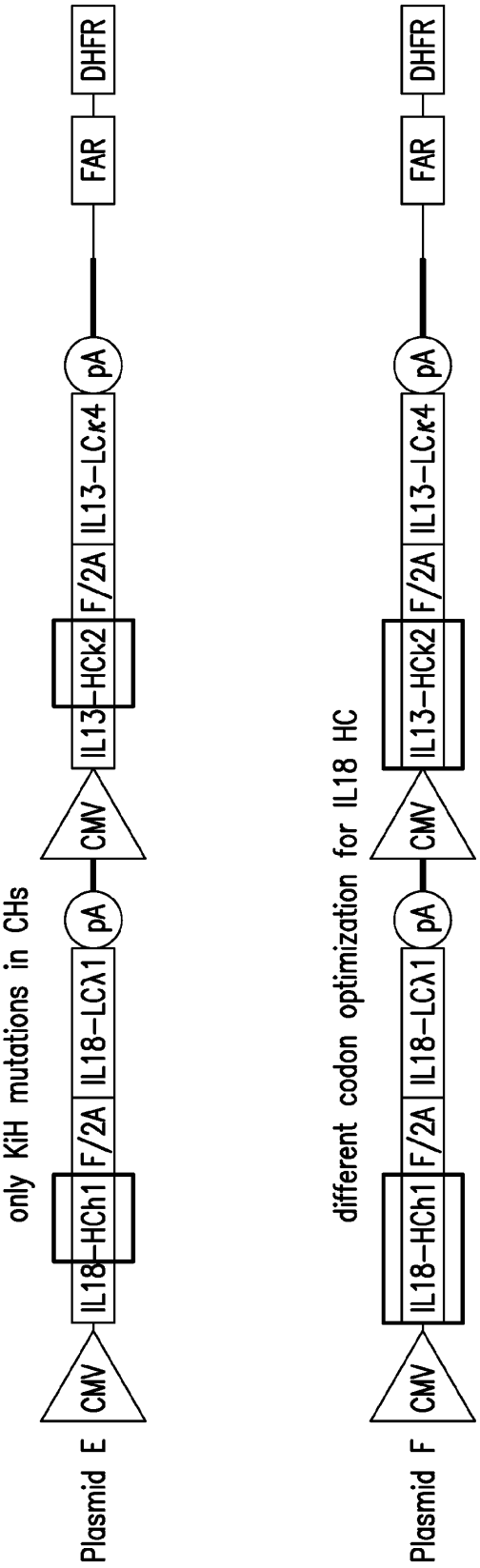
Plasmid E
CMV
IL18–HCh1
F/2A
IL18–LCλ1
pA
CMV
IL13–HCk2
F/2A
IL13–LCκ4
pA
FAR
DHFR
only KiH mutations in CHs
Plasmid F
CMV
IL18–HCh1
F/2A
IL18–LCλ1
pA
CMV
IL13–HCk2
F/2A
IL13–LCκ4
pA
FAR
DHFR
different codon optimization for IL18 HC

FIG.3

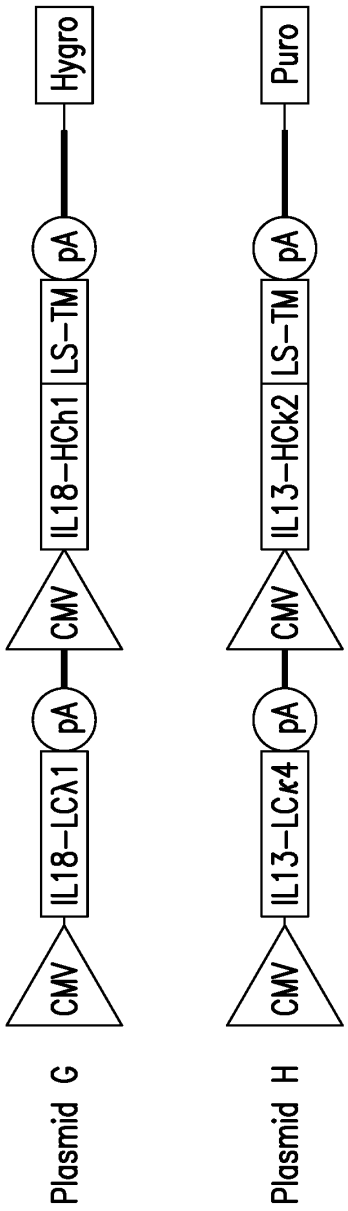
Plasmid G
CMV
IL18–LCλ1
pA
CMV
IL18–HCh1
LS–TM
pA
Hygro
Plasmid H
CMV
IL13–LCκ4
pA
CMV
IL13–HCk2
LS–TM
pA
Puro

FIG.4

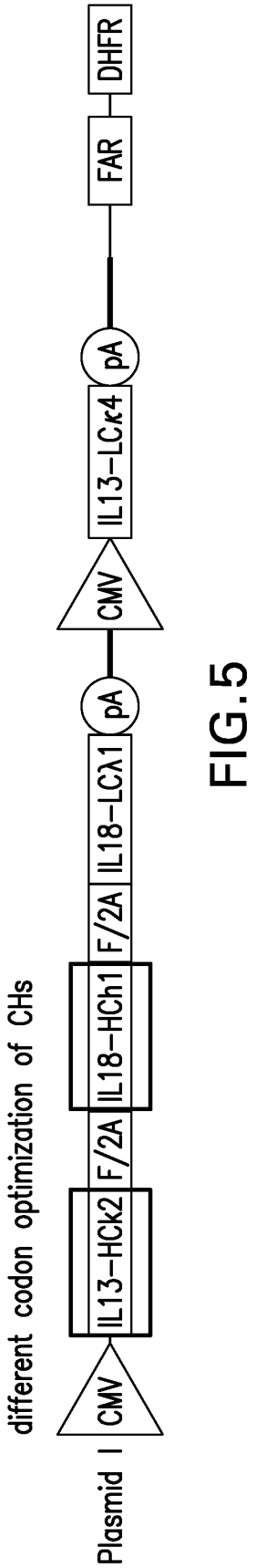
Plasmid I
different codon optimization of CHs
CMV
IL13–HCk2
F/2A
IL18–HCh1
F/2A
IL18–LCλ1
pA
CMV
IL13–LCκ4
pA
FAR
DHFR

FIG.5

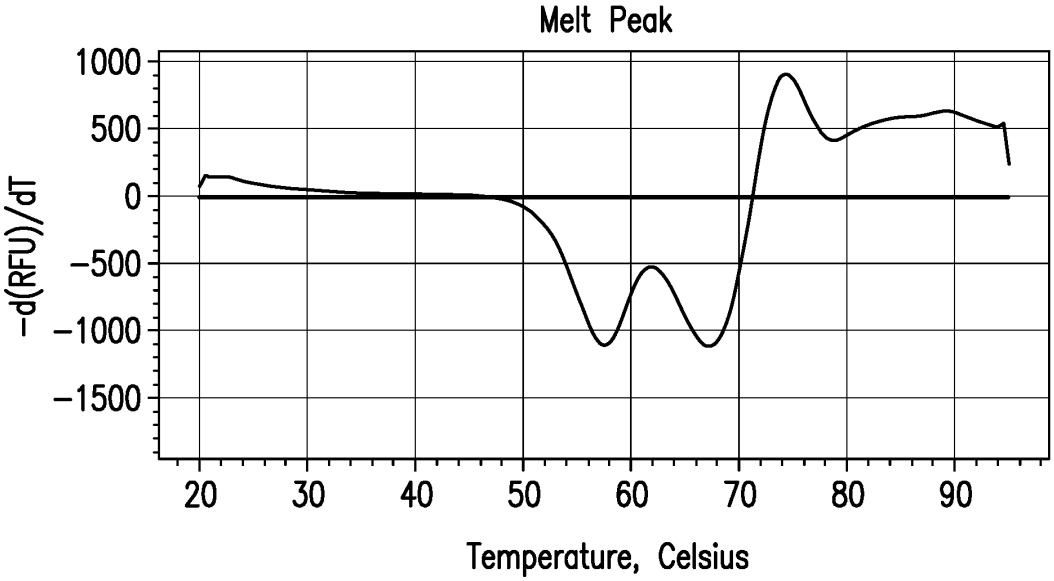
Melt Peak
1000
500
0
−500
−1000
−1500
−d(RFU)/dT
20
30
40
50
60
70
80
90
Temperature, Celsius

FIG.6A

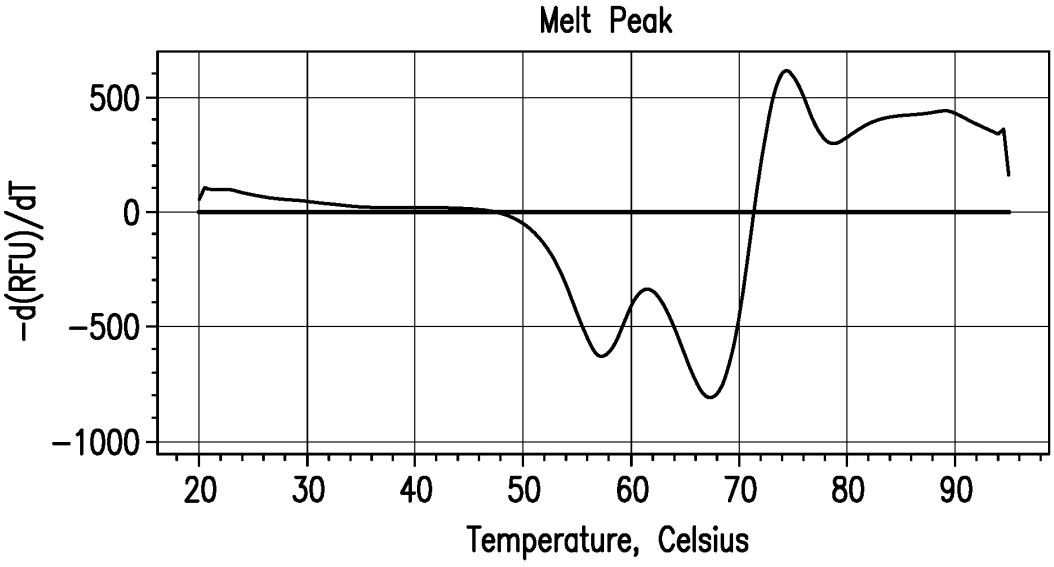
Melt Peak
500
0
−500
−1000
−d(RFU)/dT
20
30
40
50
60
70
80
90
Temperature, Celsius

FIG.6B

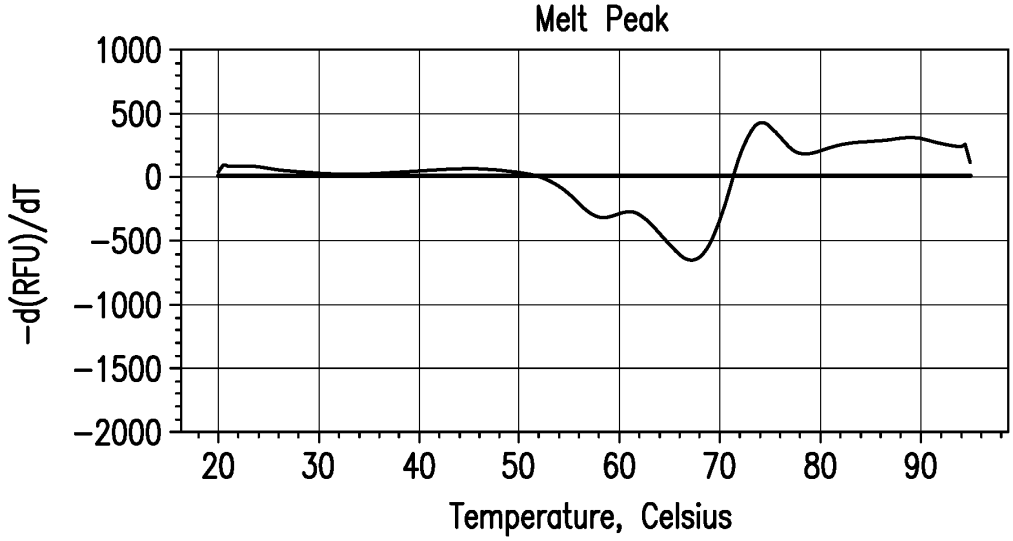
Melt Peak
1000
500
0
−500
−1000
−1500
−2000
−d(RFU)/dT
20
30
40
50
60
70
80
90
Temperature, Celsius

FIG.6C

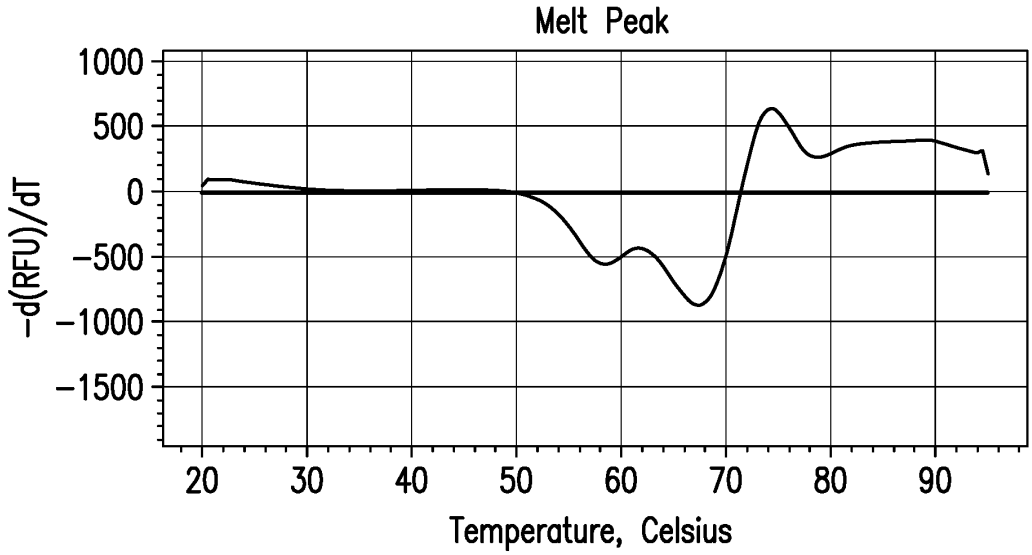
Melt Peak
1000
500
0
−500
−1000
−1500
−d(RFU)/dT
20
30
40
50
60
70
80
90
Temperature, Celsius

FIG.6D

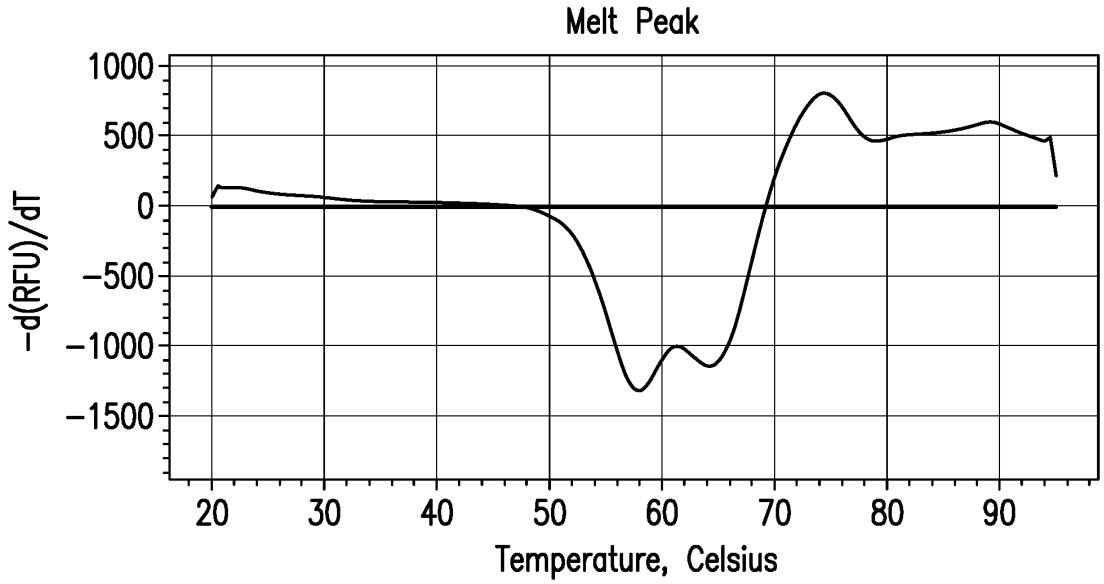
Melt Peak
1000
500
0
−500
−1000
−1500
−d(RFU)/dT
20
30
40
50
60
70
80
90
Temperature, Celsius

FIG.6E

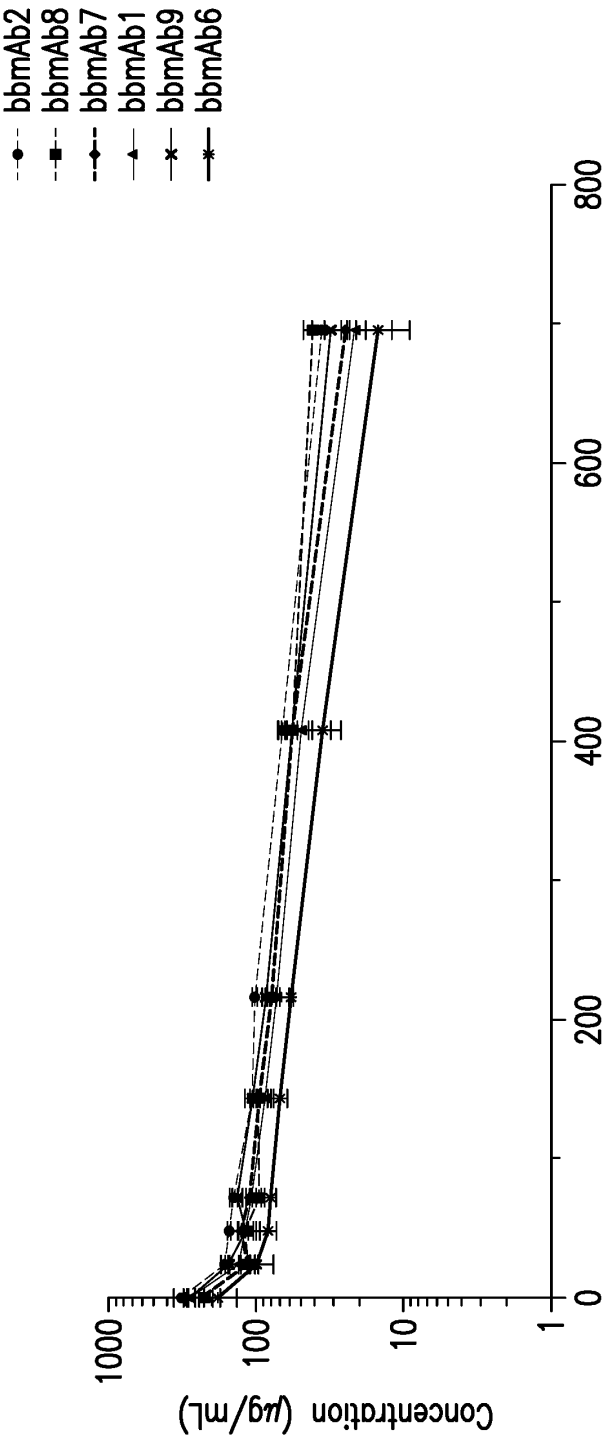
bbmAb2
bbmAb8
bbmAb7
bbmAb1
bbmAb9
bbmAb6
Concentration (µg/mL)
1000
100
10
1
0
200
400
600
800
Time (h)

FIG. 7

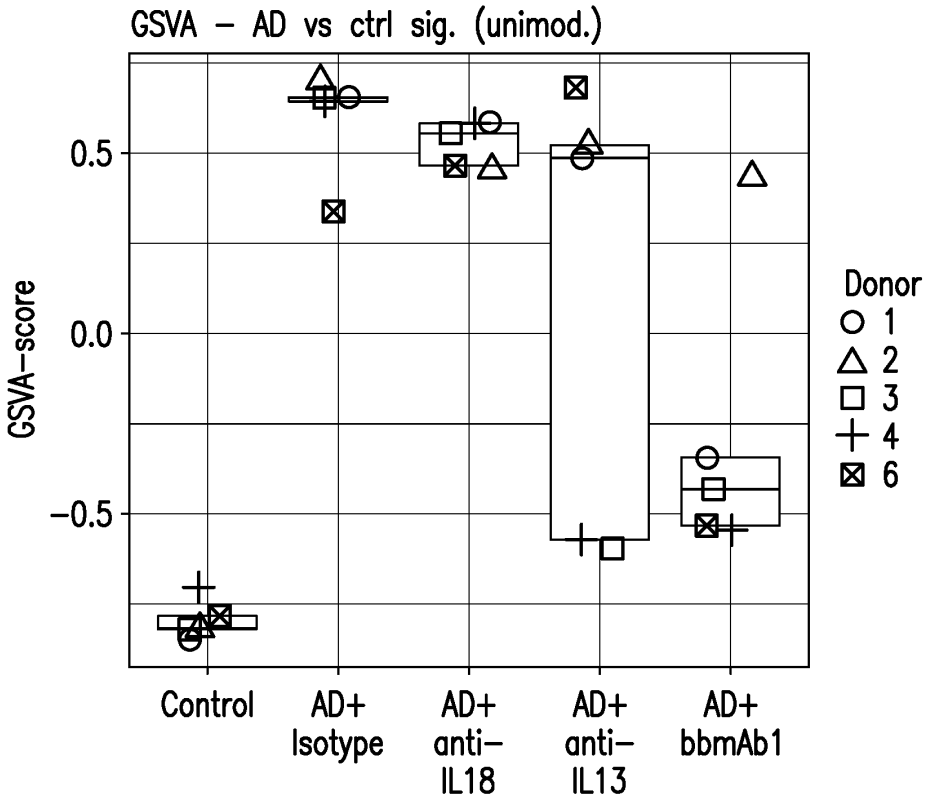
GSVA – AD vs ctrl sig. (unimod.)
GSVA-score
0.5
0.0
−0.5
Control
AD+ Isotype
AD+ anti-IL18
AD+ anti-IL13
AD+ bbmAb1
Donor
1
2
3
4
6

FIG.8

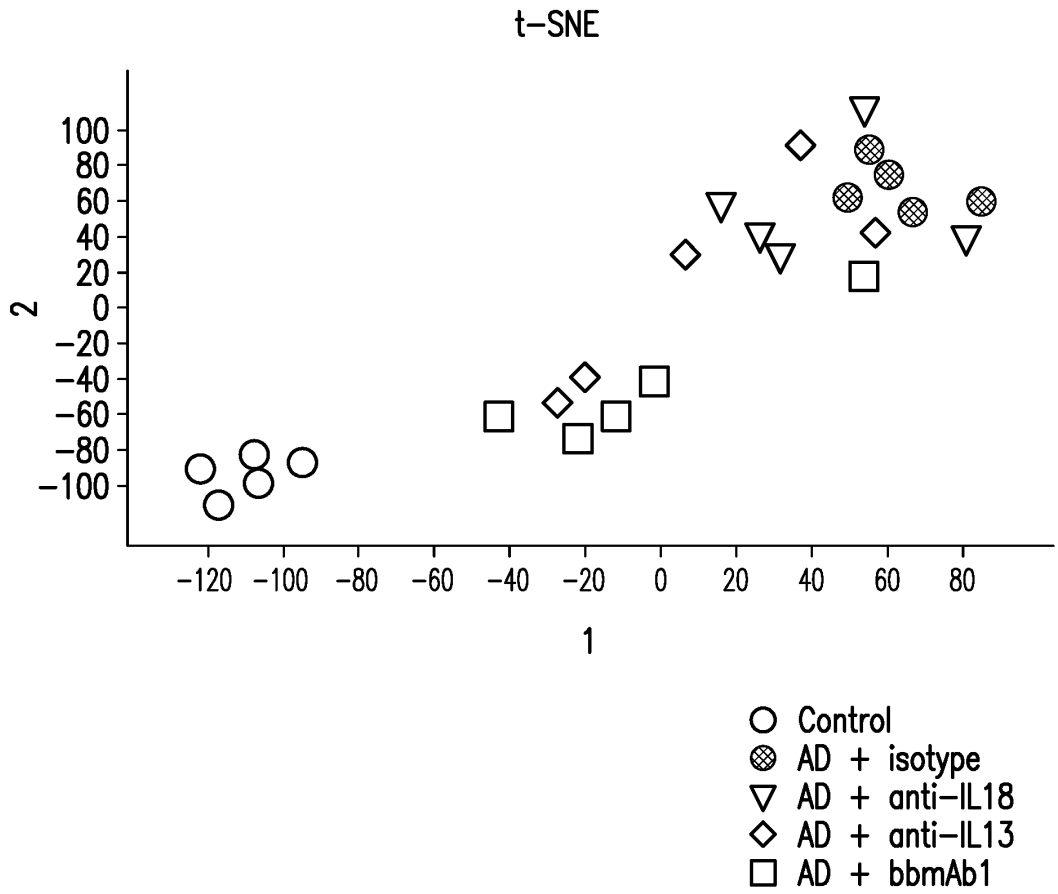
t-SNE
100
80
60
40
20
0
−20
−40
−60
−80
−100
2
−120 −100 −80 −60 −40 −20 0 20 40 60 80
1
Control
AD + isotype
AD + anti-IL18
AD + anti-IL13
AD + bbmAb1

FIG.9

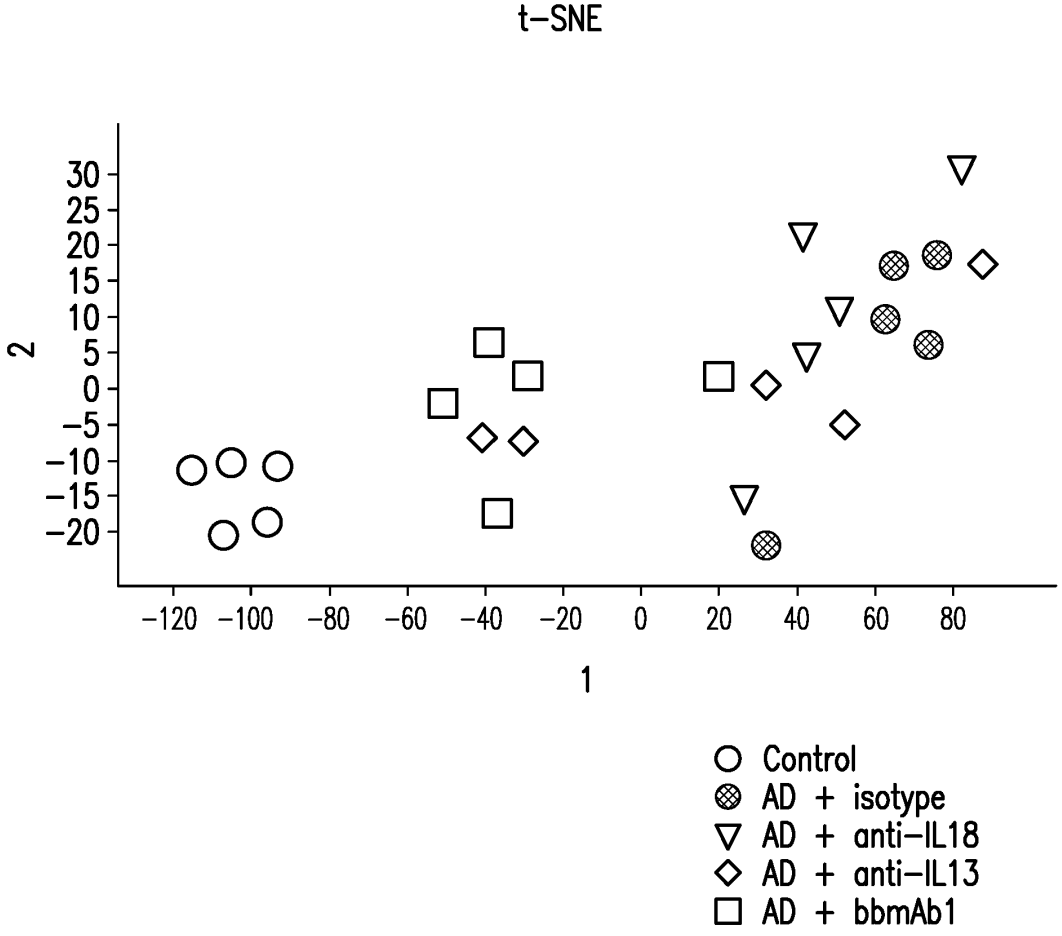
t-SNE
2
30
25
20
15
10
5
0
−5
−10
−15
−20
−120 −100 −80 −60 −40 −20 0 20 40 60 80
1
Control
AD + isotype
AD + anti-IL18
AD + anti-IL13
AD + bbmAb1

FIG.10