SHEET 1/29

FIG. 1

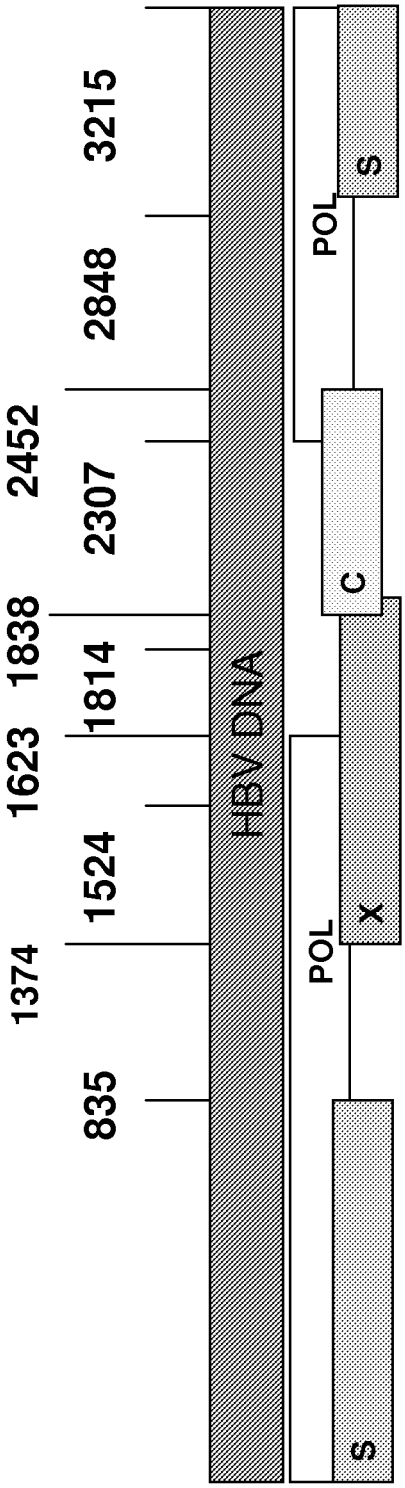


FIG. 2

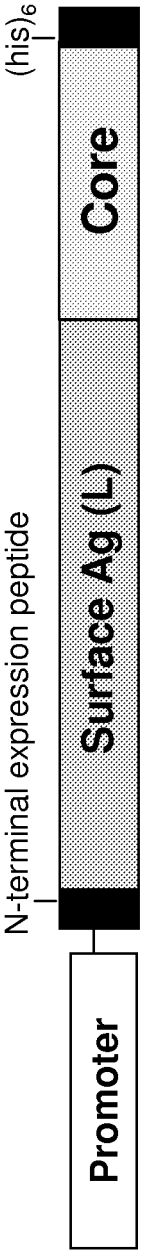


FIG. 3

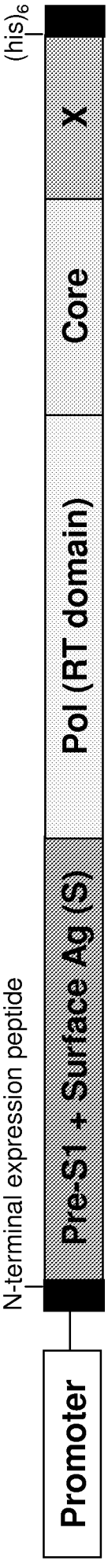


FIG. 4

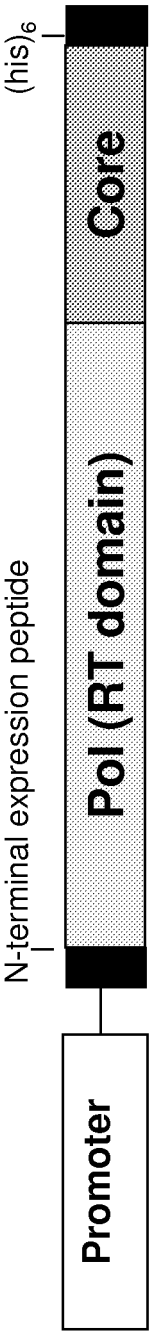


FIG. 5

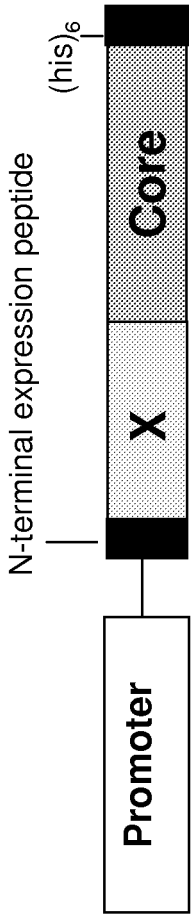


FIG. 6

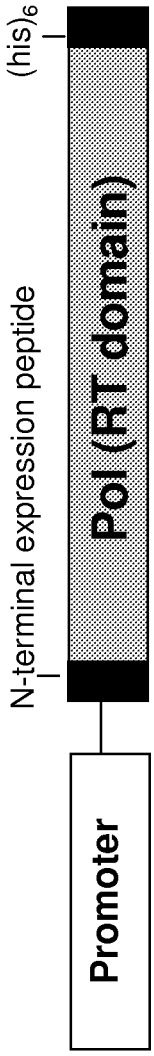


FIG. 7

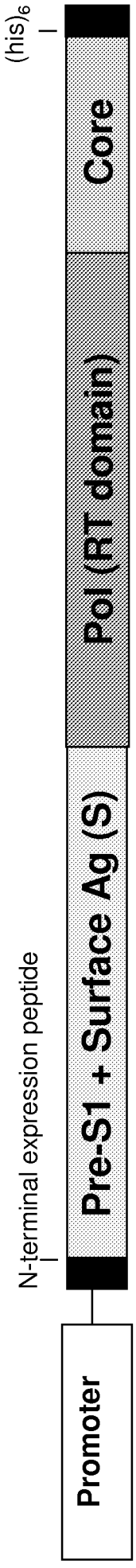


FIG. 8

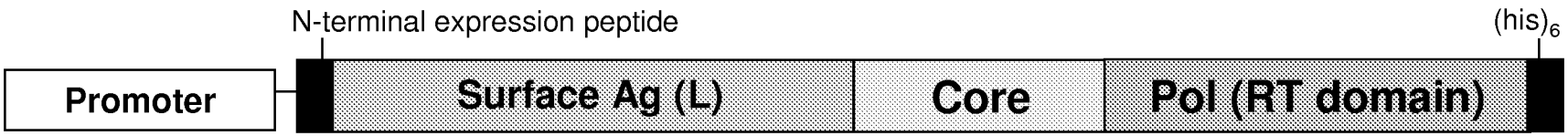


FIG. 9

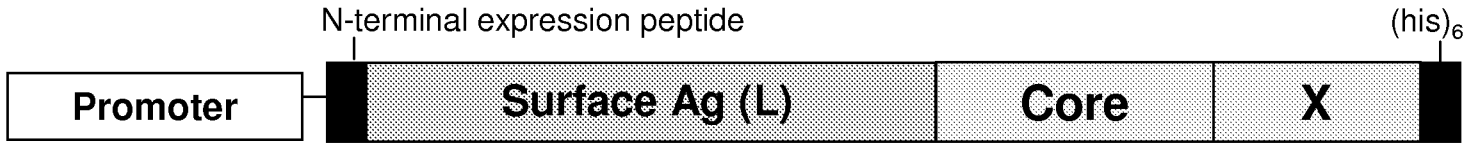


FIG. 10

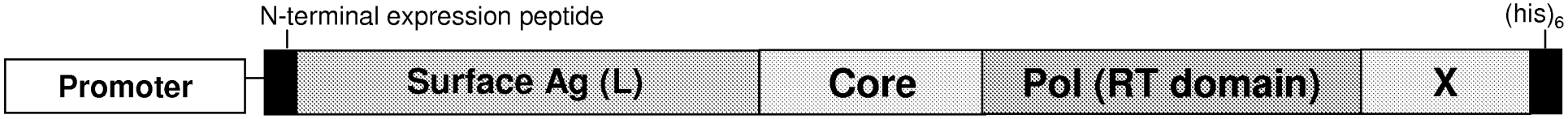
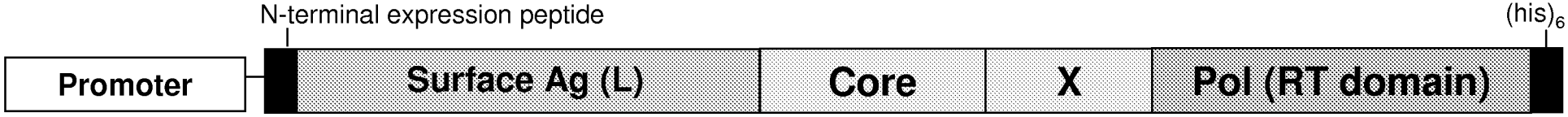


FIG. 11



WO 2012/109404
PCT/US2012/024409

FIG. 12

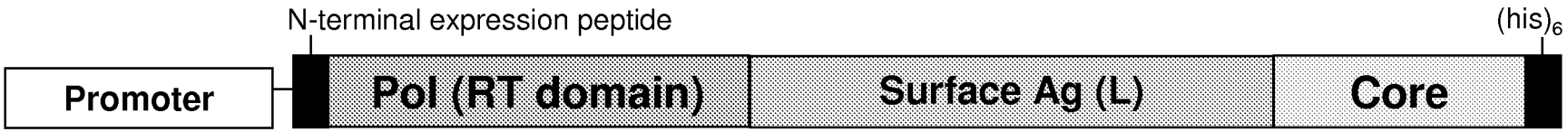


FIG. 13

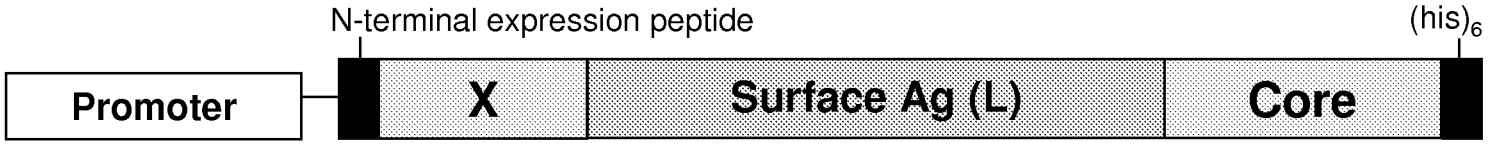


FIG. 14

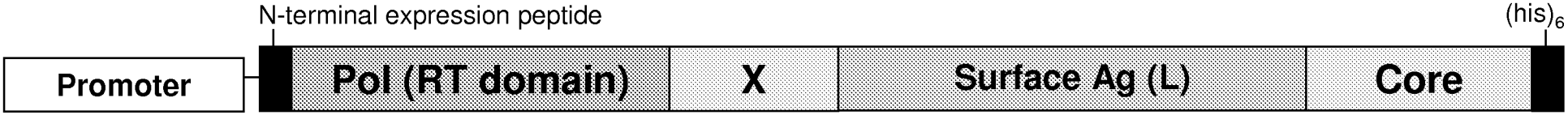
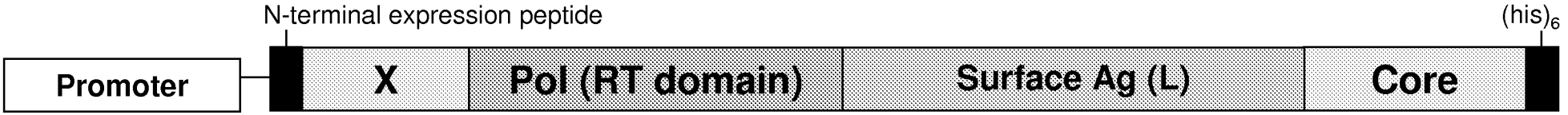


FIG. 15



WO 2012/109404
PCT/US2012/024409

FIG. 16

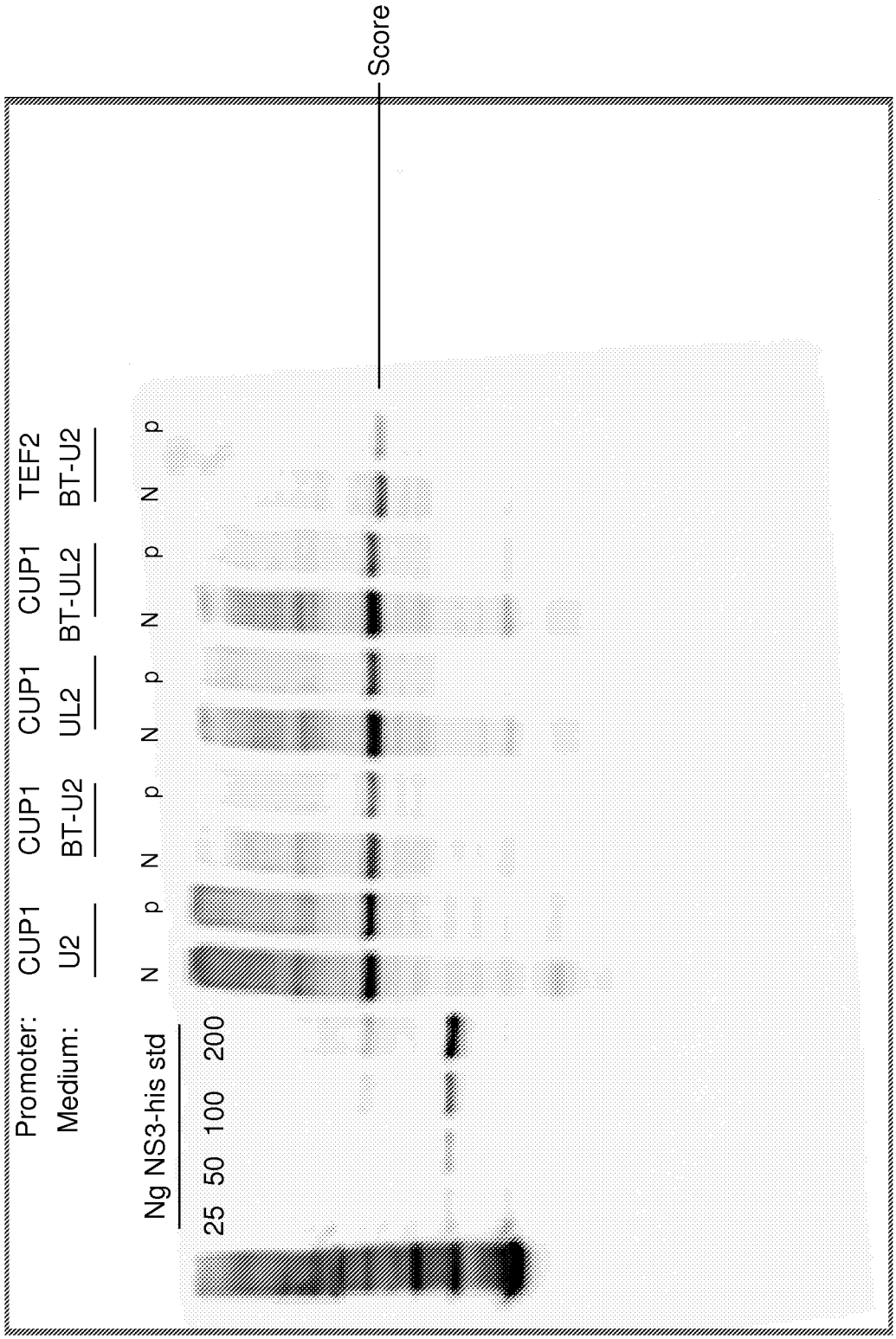

Score
Promoter: CUP1 CUP1 CUP1 CUP1 TEF2
Medium: U2 BT-U2 UL2 BT-UL2 BT-U2
N p N p N p N p N p
Ng NS3-his std
25 50 100 200

FIG. 17

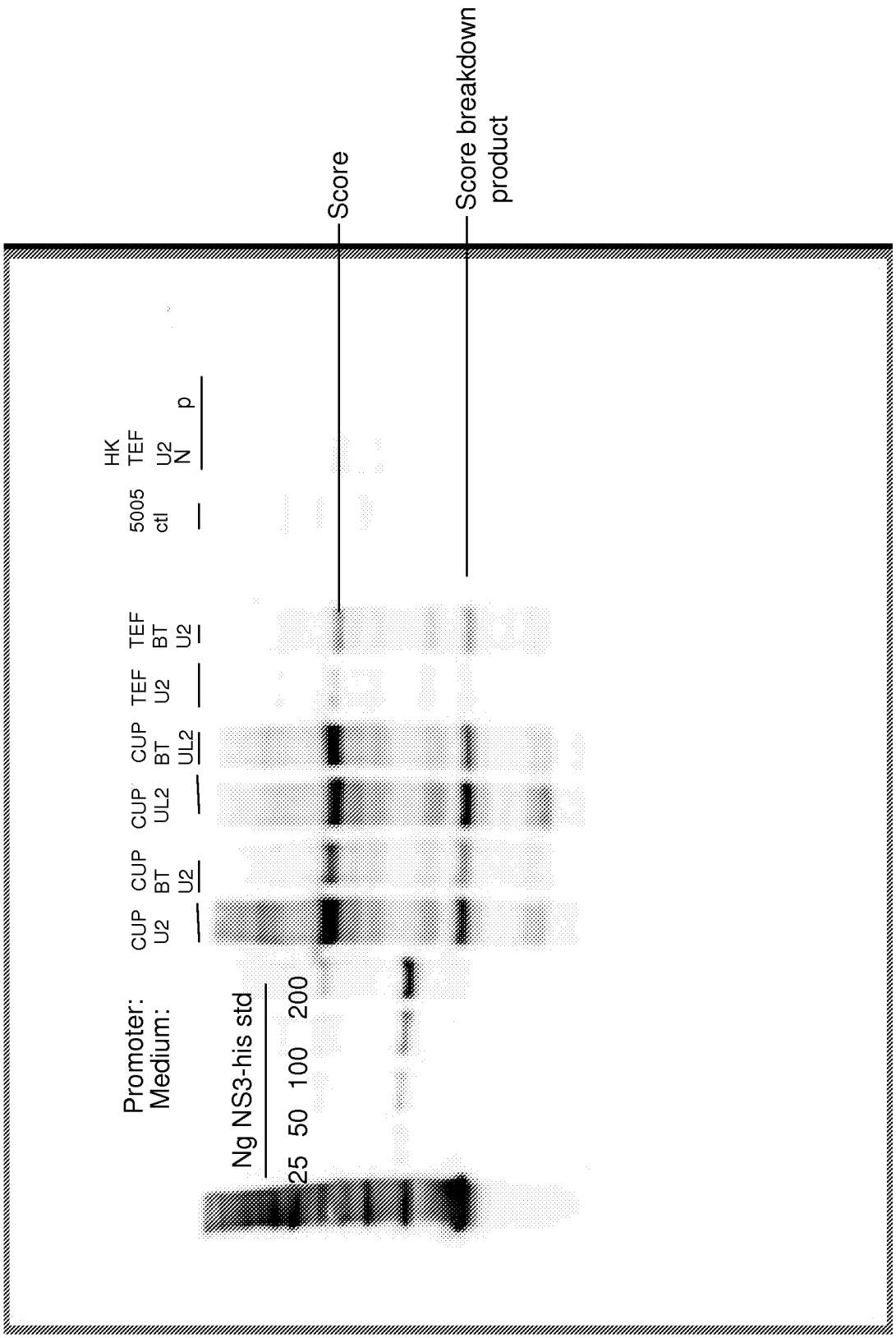

Score
Score breakdown product
Promoter:
Medium:
CUP U2
CUP BT U2
CUP UL2
CUP BT UL2
TEF U2
TEF BT U2
HK 5005 ctl
HK TEF U2N p
Ng NS3-his std
25 50 100 200

FIG. 18

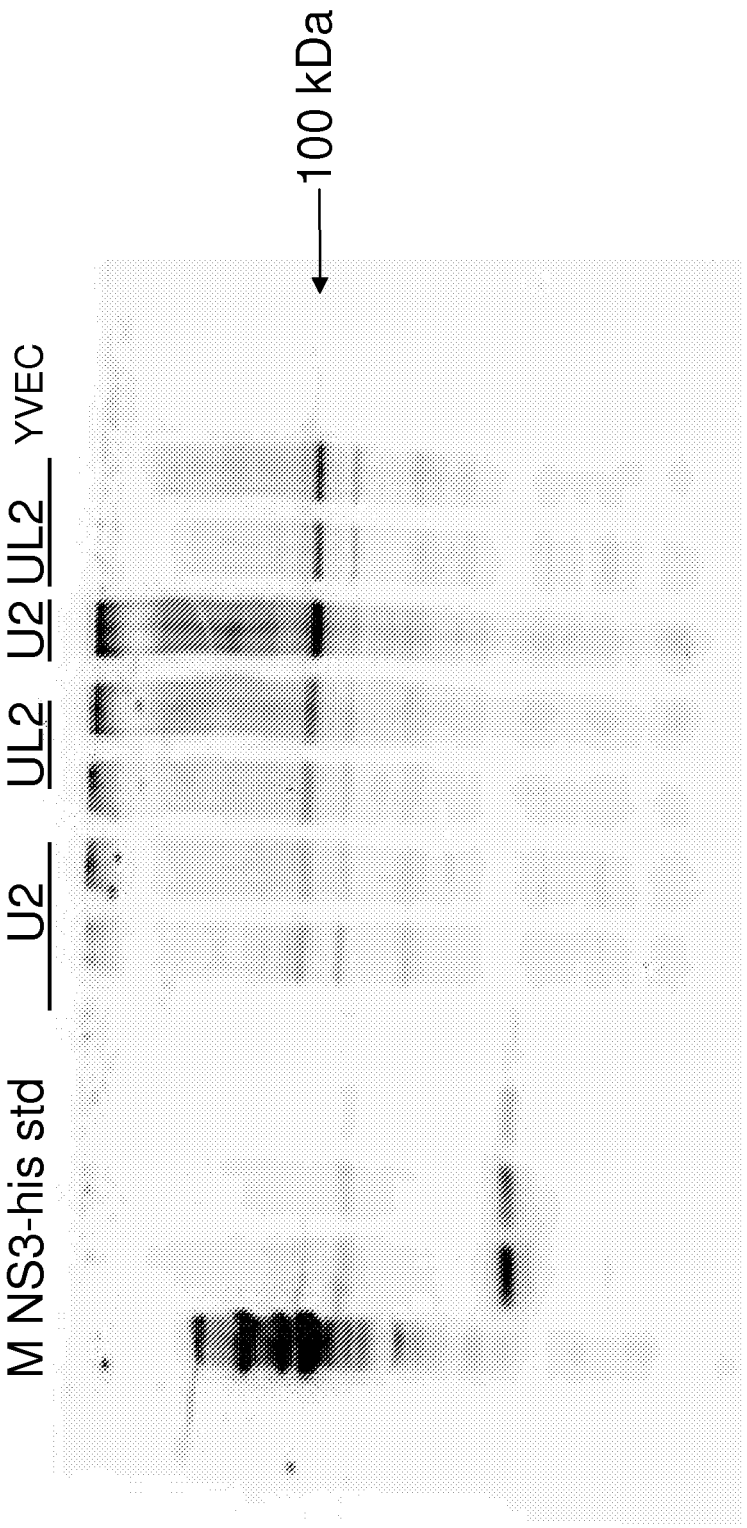


FIG. 19

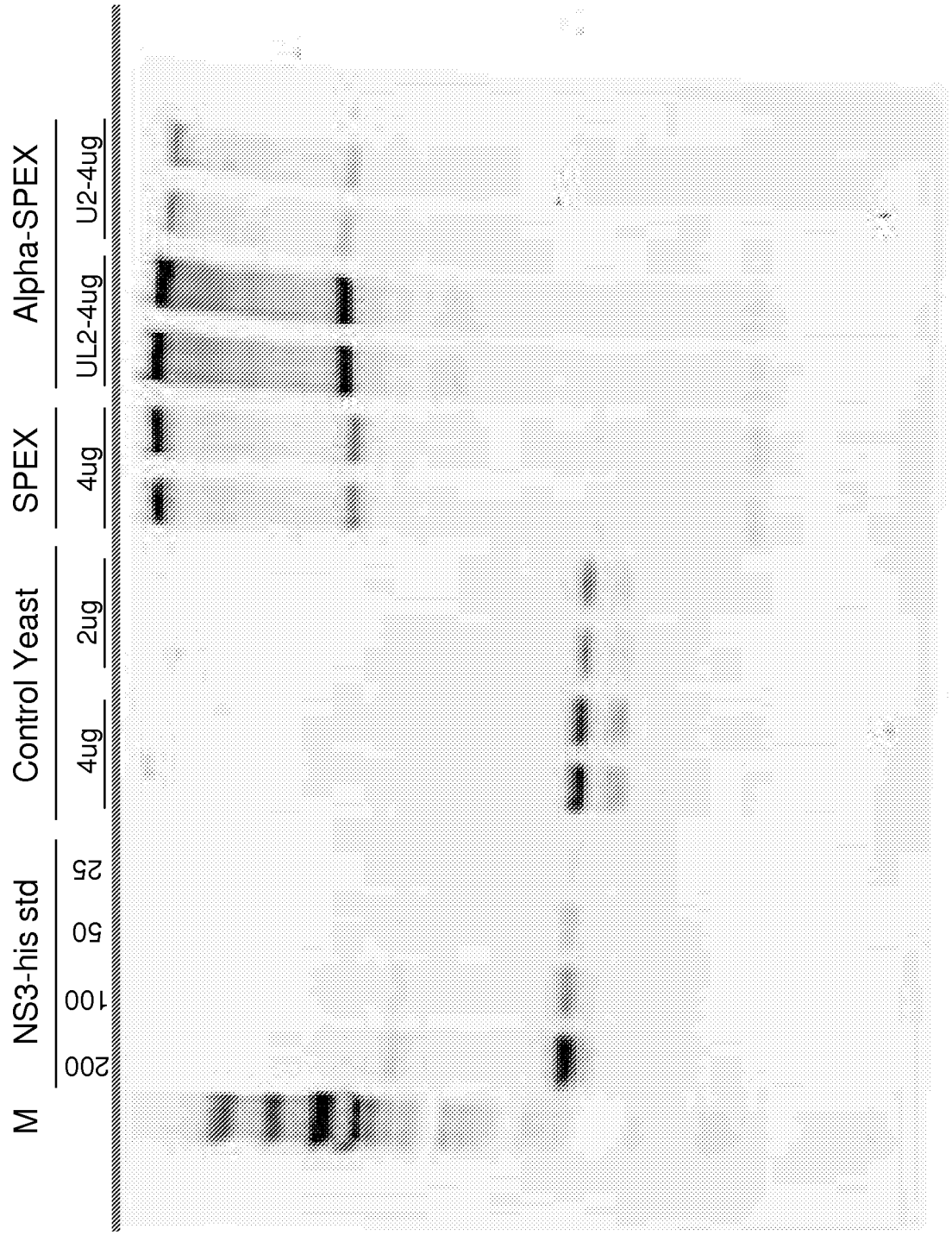
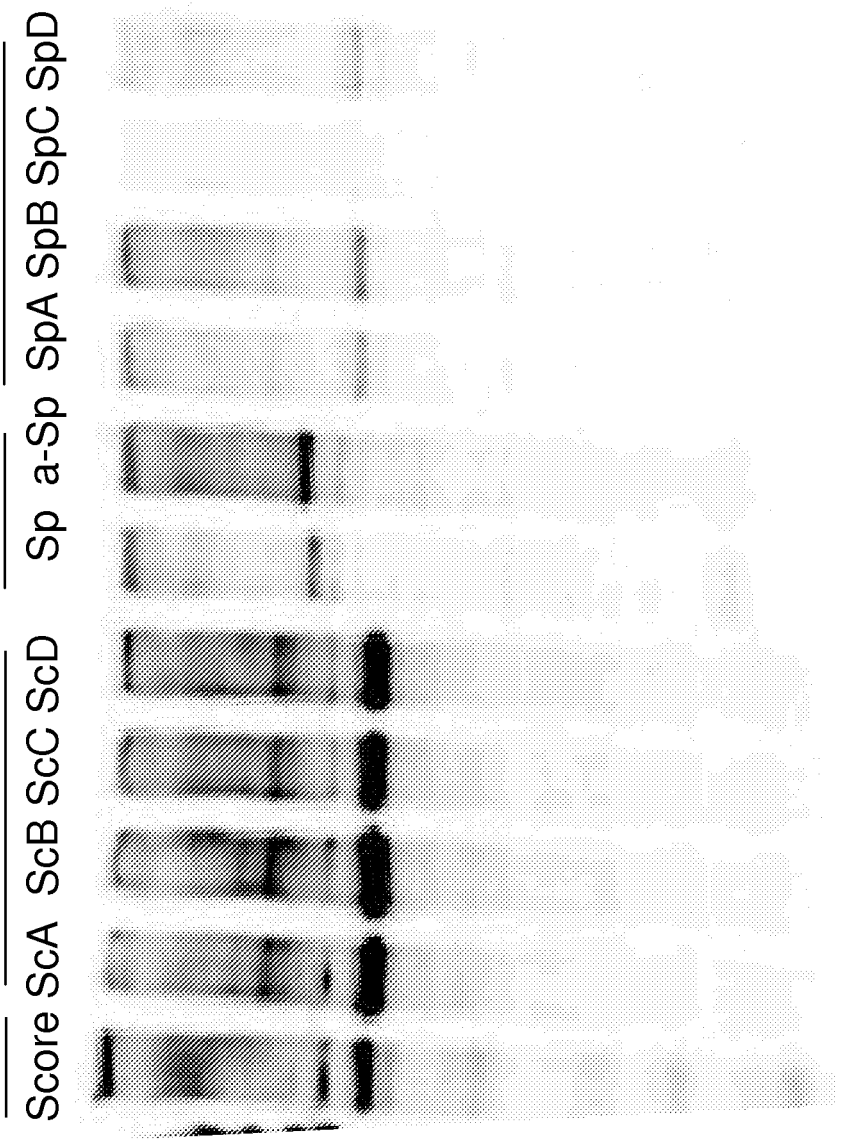
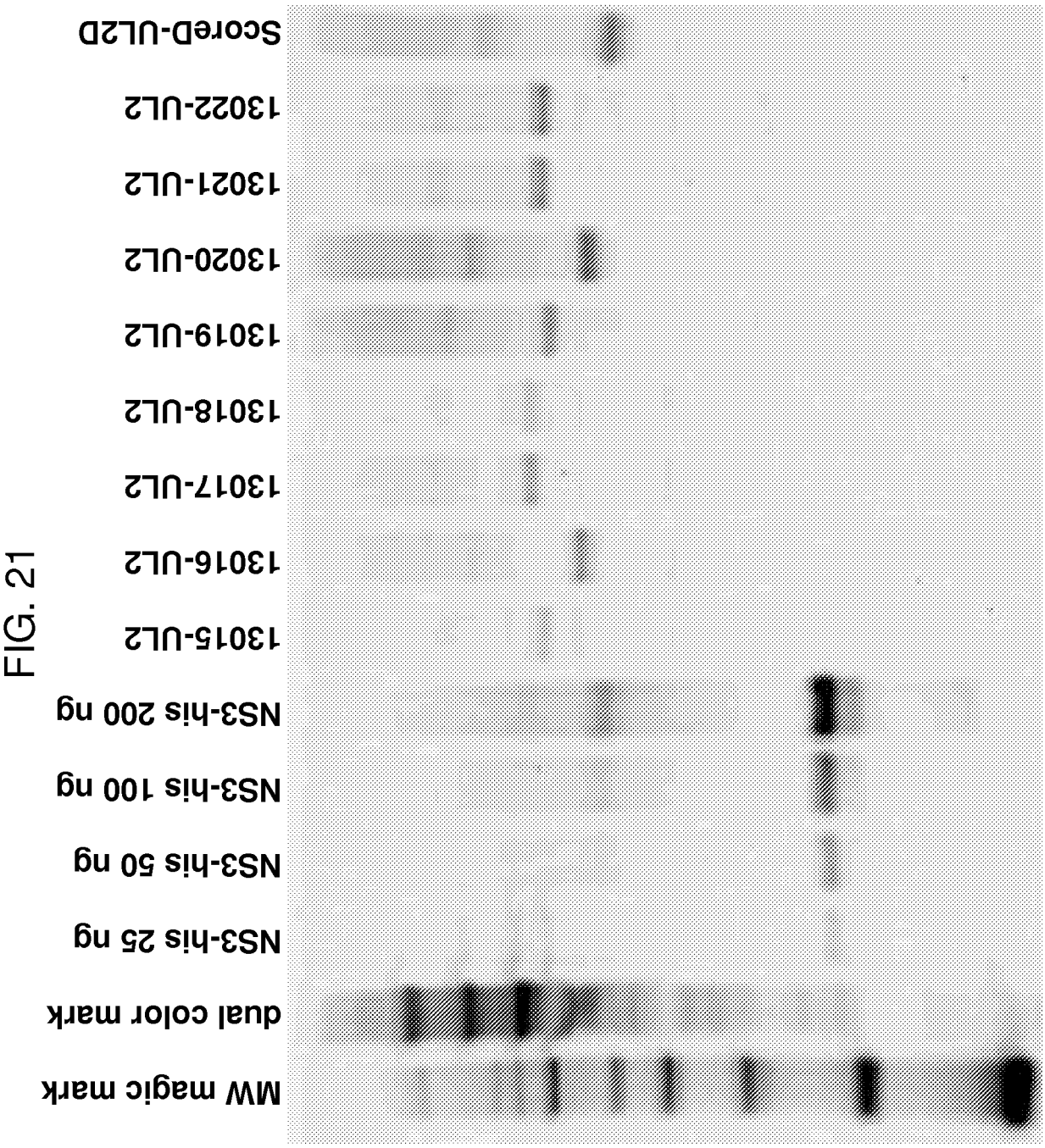

M
NS3-his std
200
100
50
25
Control Yeast
4ug
2ug
SPEX
4ug
Alpha-SPEX
UL2-4ug
U2-4ug

FIG. 20



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FIG. 21



SHEET 12/29

FIG. 22

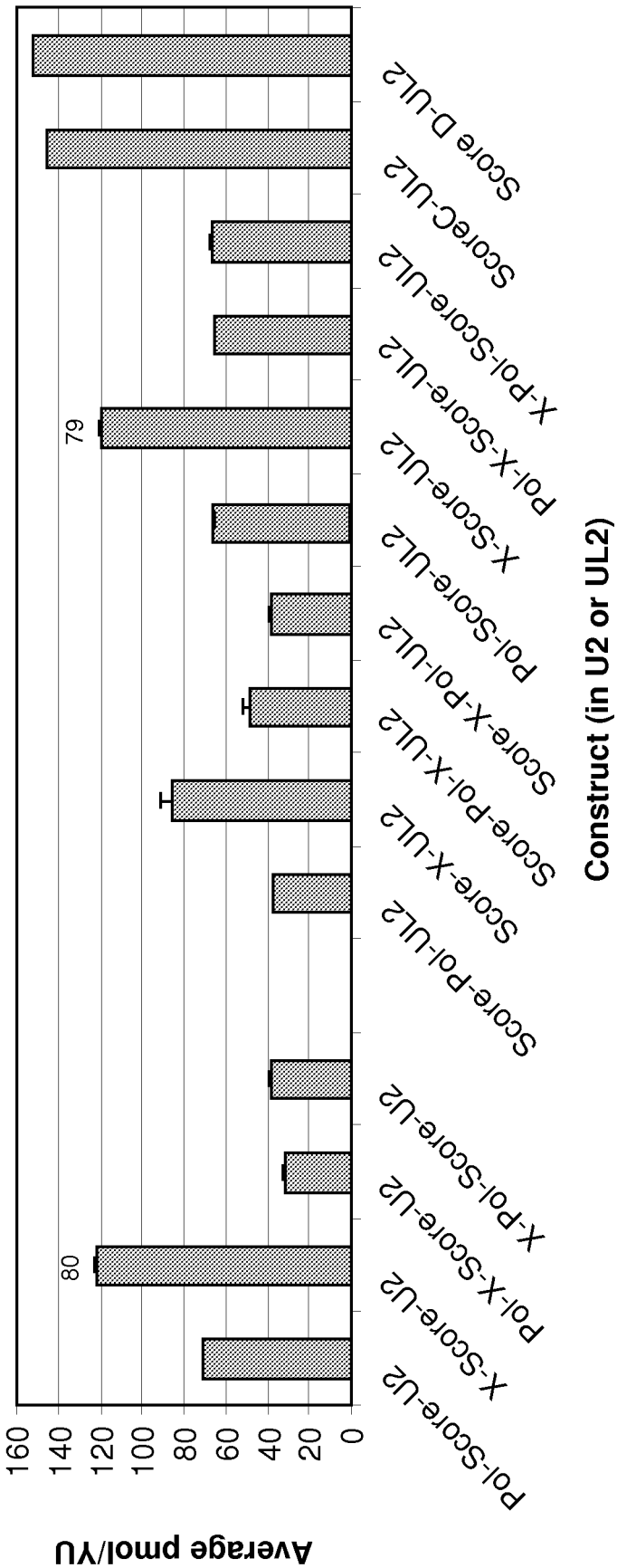


FIG. 23

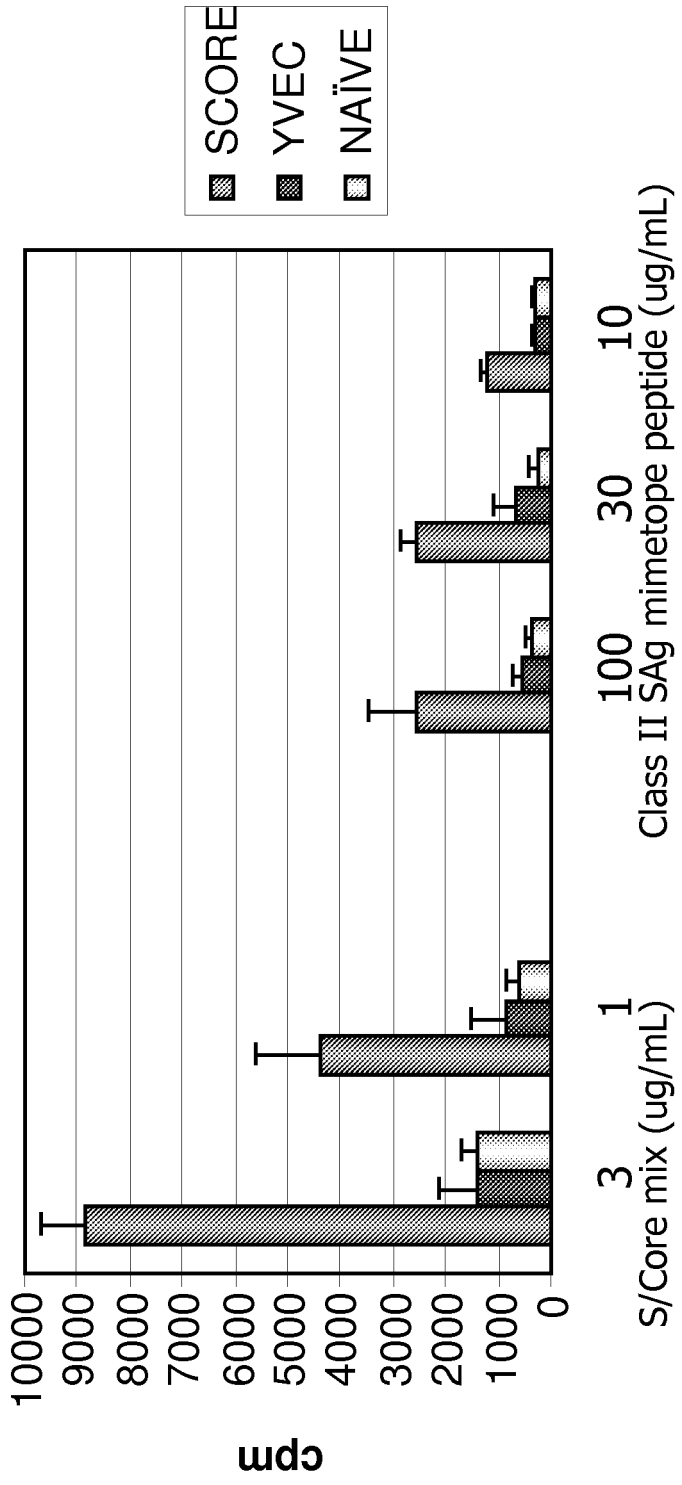

SCORE
YVEC
NAÏVE
cpm
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
3
1
100
30
10
S/Core mix (ug/mL)
Class II SAg mimetope peptide (ug/mL)

FIG. 24

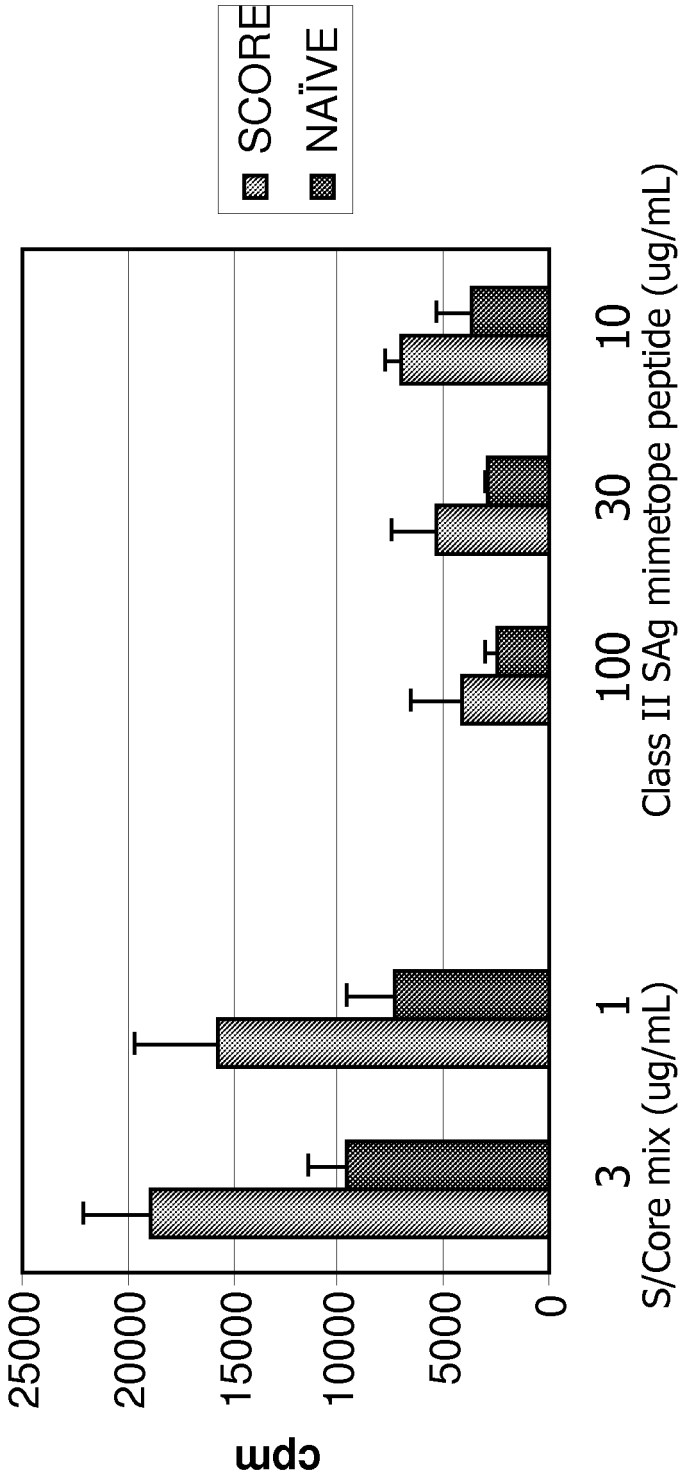

SCORE
NAÏVE
cpm
25000
20000
15000
10000
5000
0
3
1
100
30
10
S/Core mix (ug/mL)
Class II SAg mimetope peptide (ug/mL)

FIG. 25

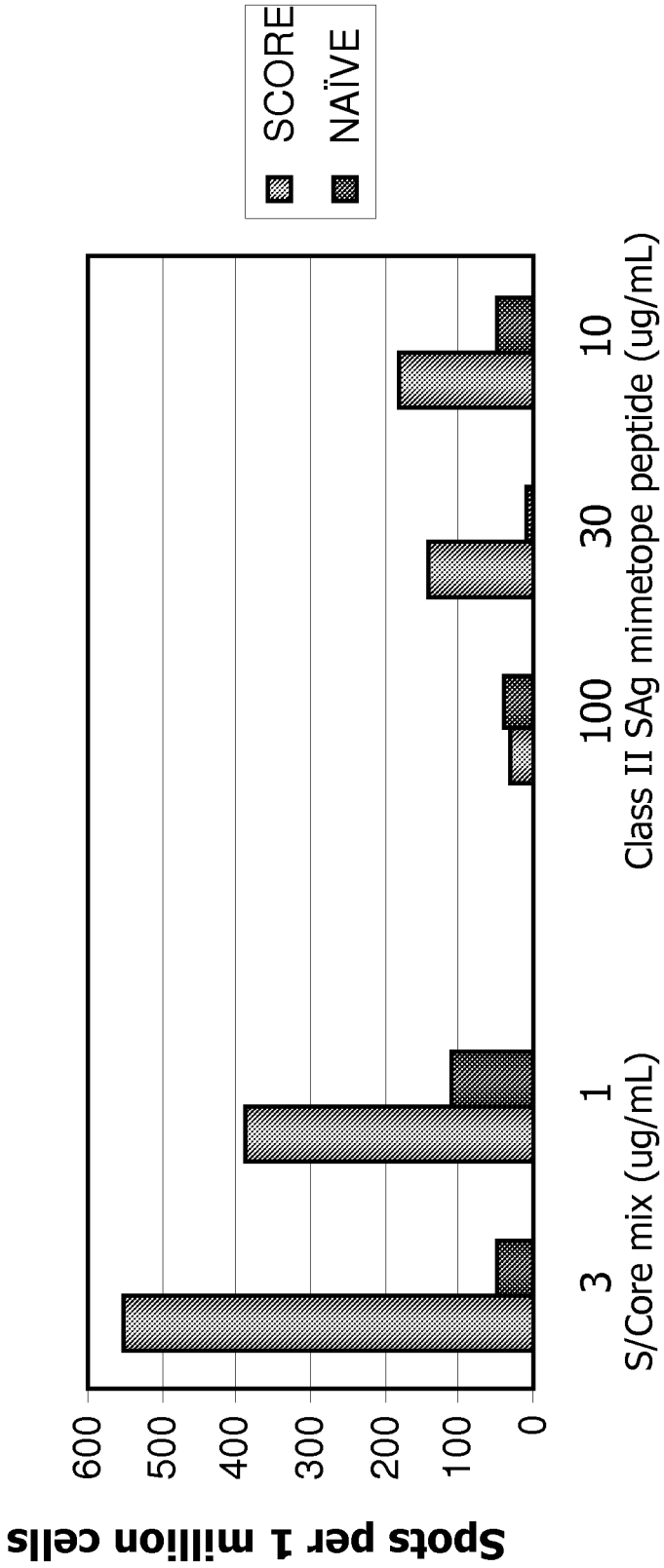

SCORE
NAÏVE
Spots per 1 million cells
600
500
400
300
200
100
0
3
1
100
30
10
S/Core mix (ug/mL)
Class II SAg mimetope peptide (ug/mL)

FIG. 26

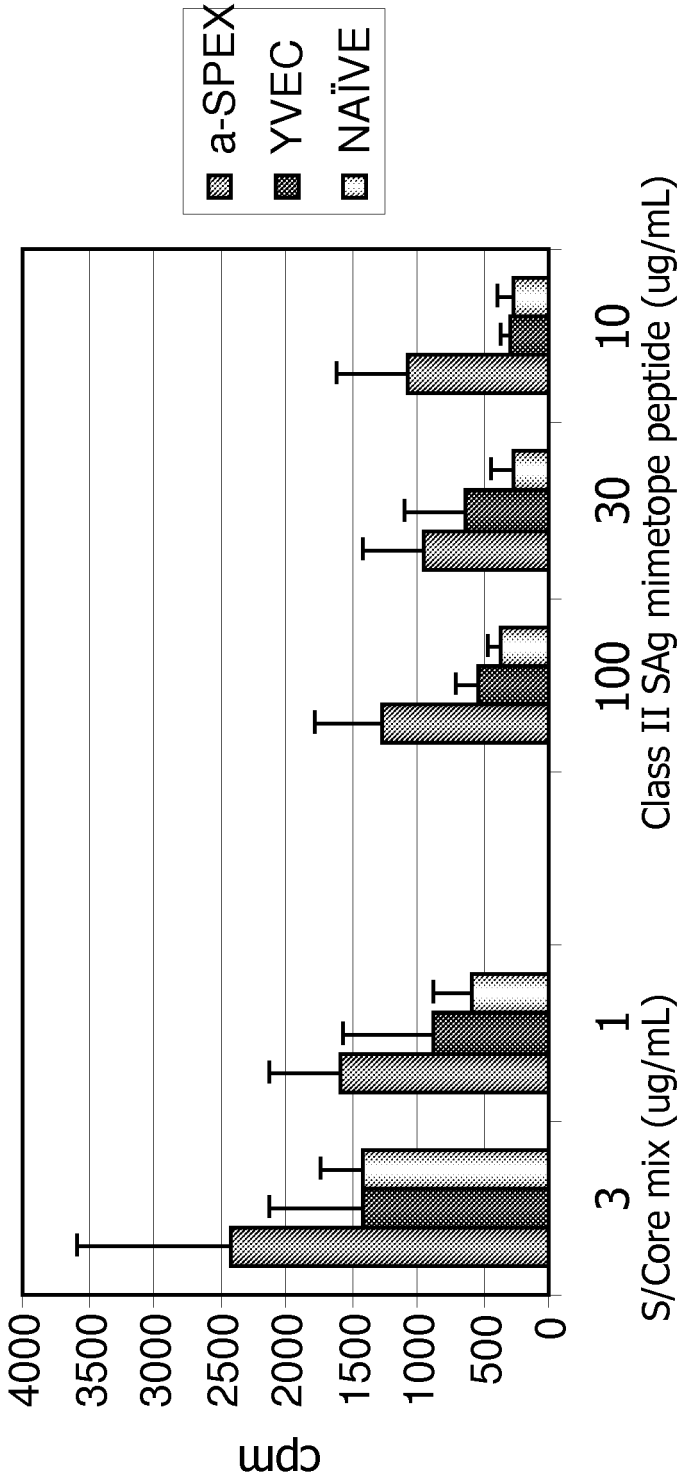
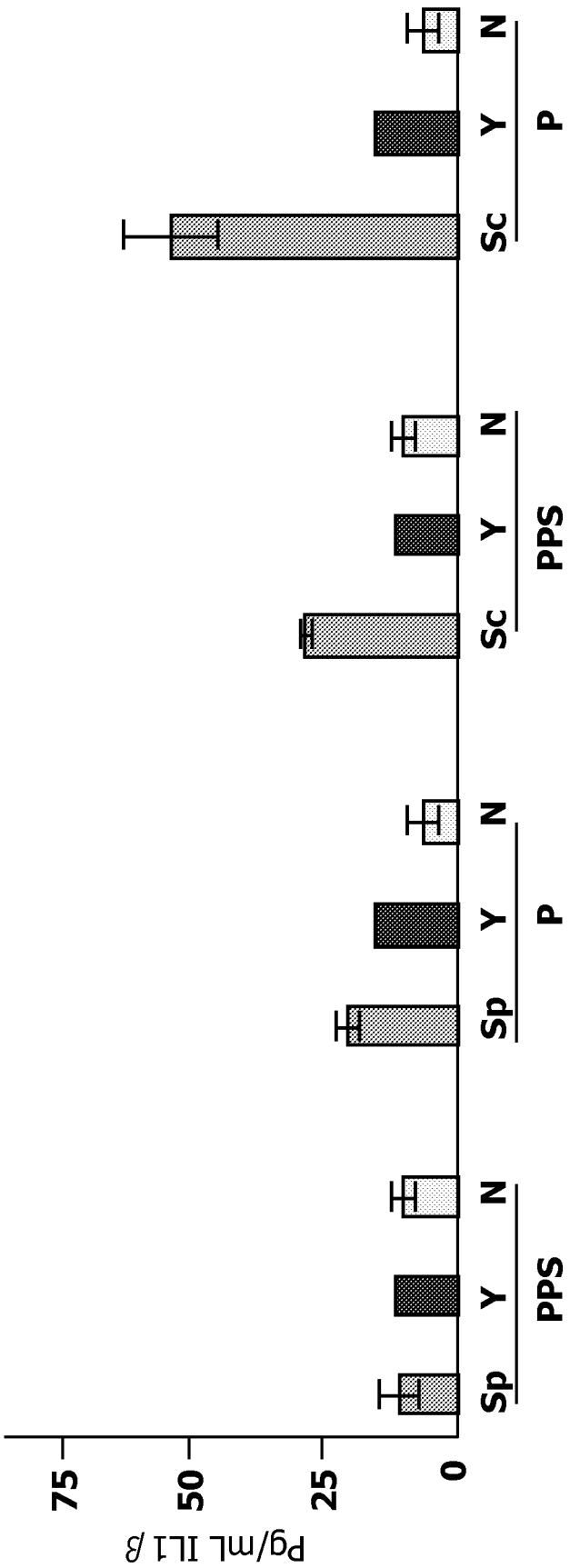

a-SPEX
YVEC
NAÏVE
cpm
4000
3500
3000
2500
2000
1500
1000
500
0
3
1
100
30
10
S/Core mix (ug/mL)
Class II SAg mimetope peptide (ug/mL)

FIG. 27



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FIG. 28

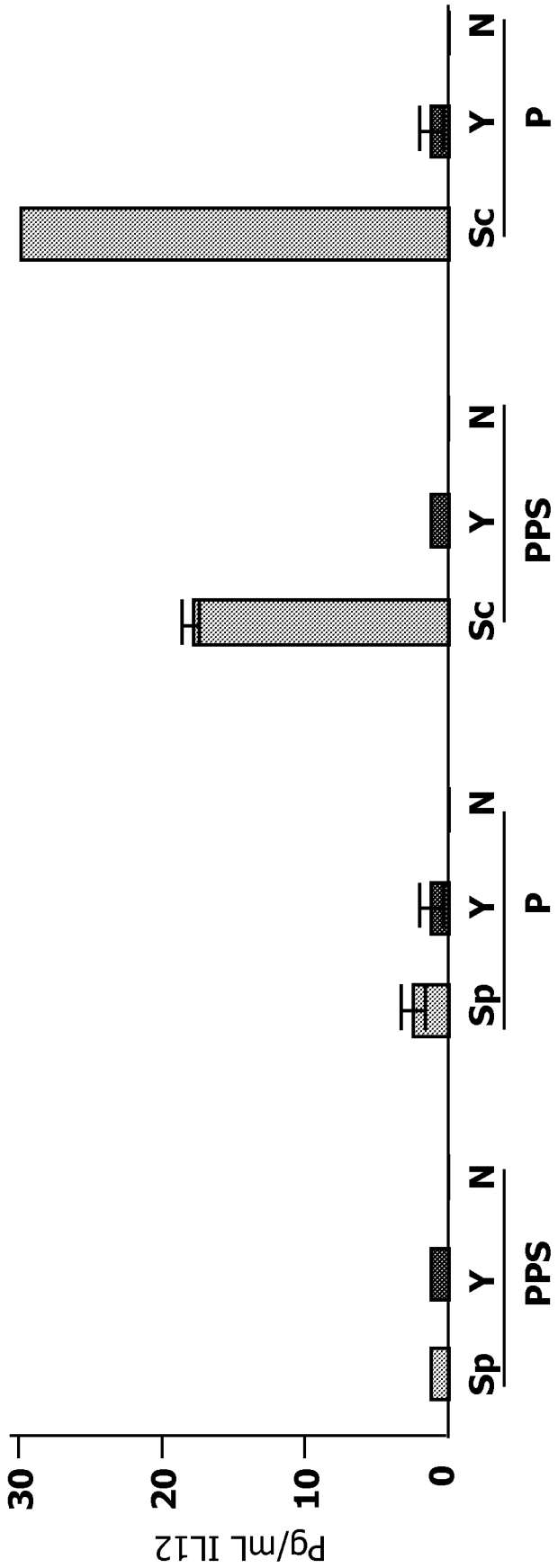


FIG. 29A

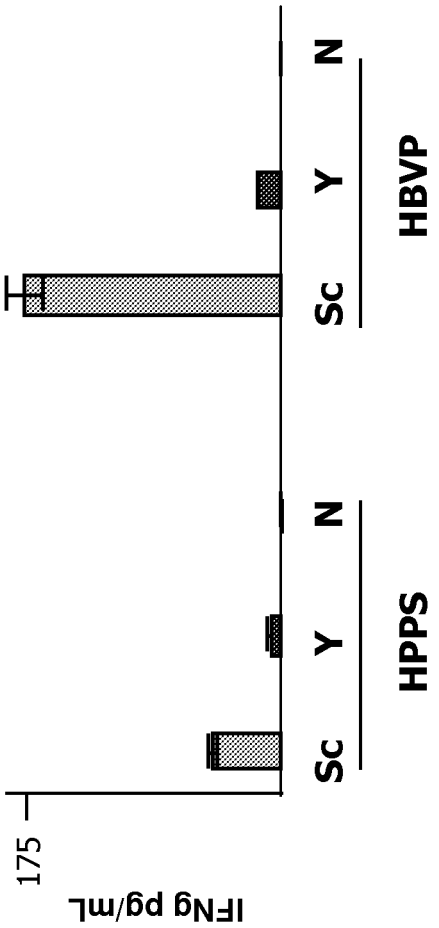


FIG. 29B

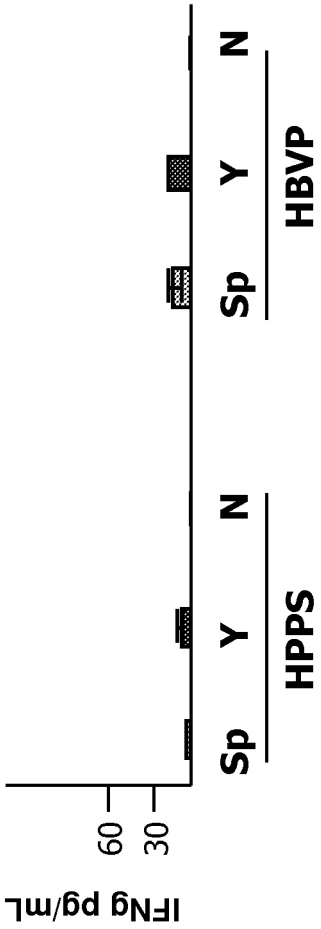


FIG. 30A

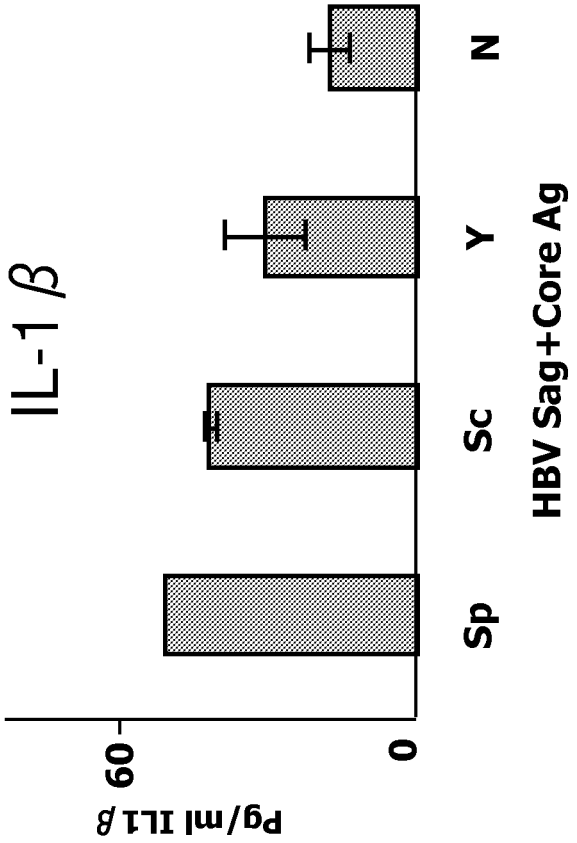


FIG. 30B

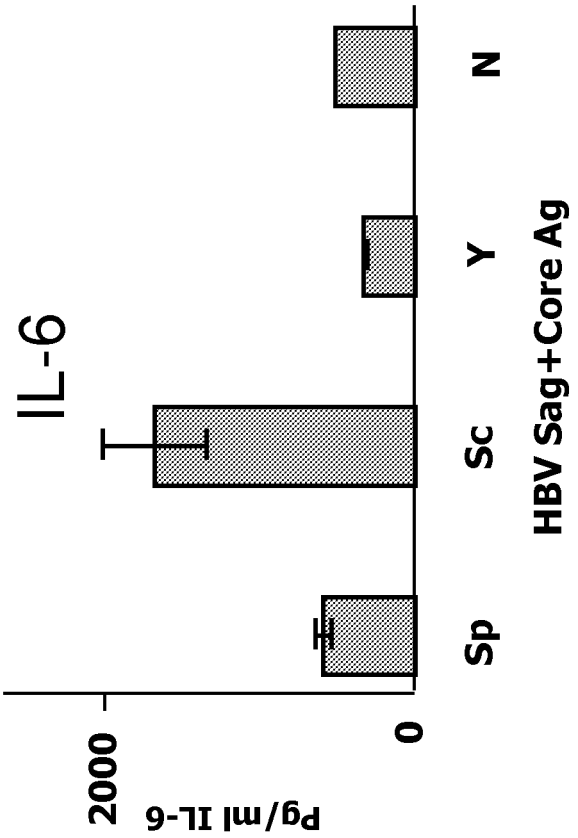


FIG. 30C

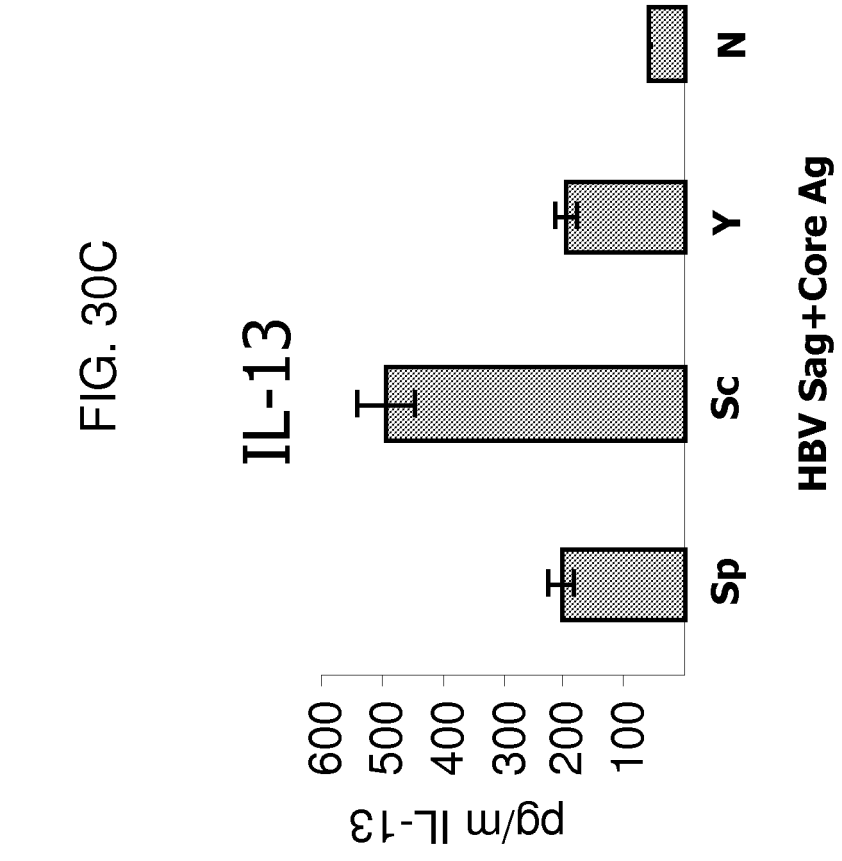


FIG. 30D

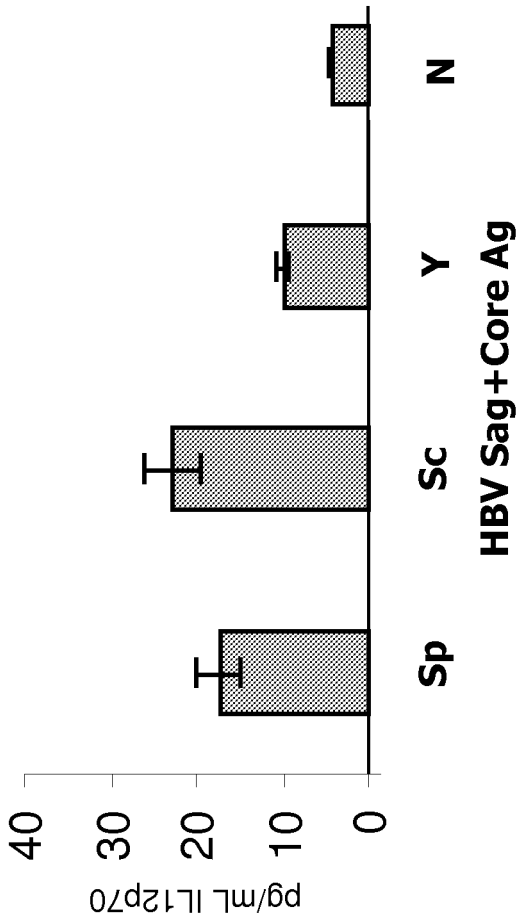


FIG. 31

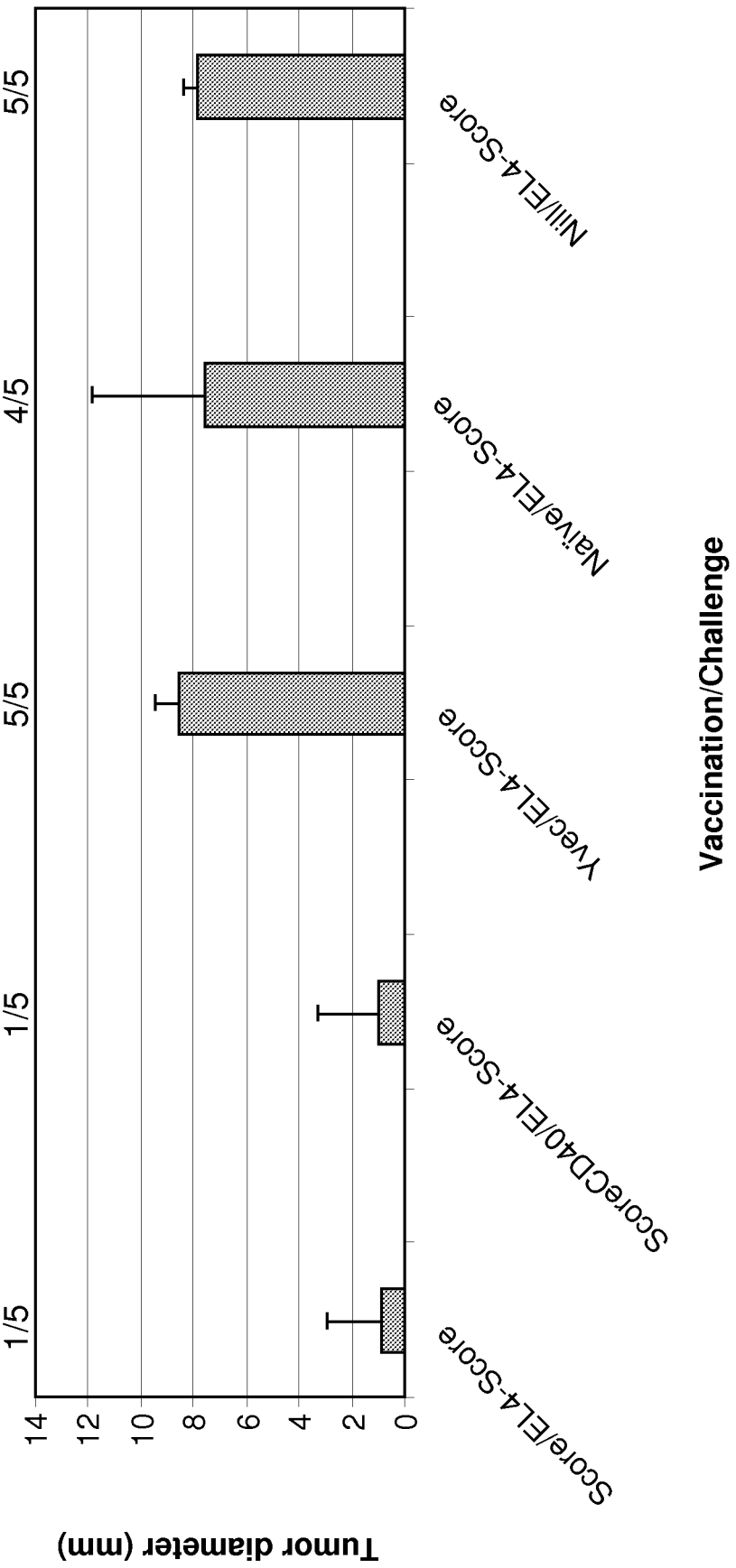

Tumor diameter (mm)
0
2
4
6
8
10
12
14
1/5
1/5
5/5
4/5
5/5
Score/ELA-Score
ScoreCD40/ELA-Score
Yvec/ELA-Score
Naïve/ELA-Score
NIII/ELA-Score
Vaccination/Challenge

FIG. 32

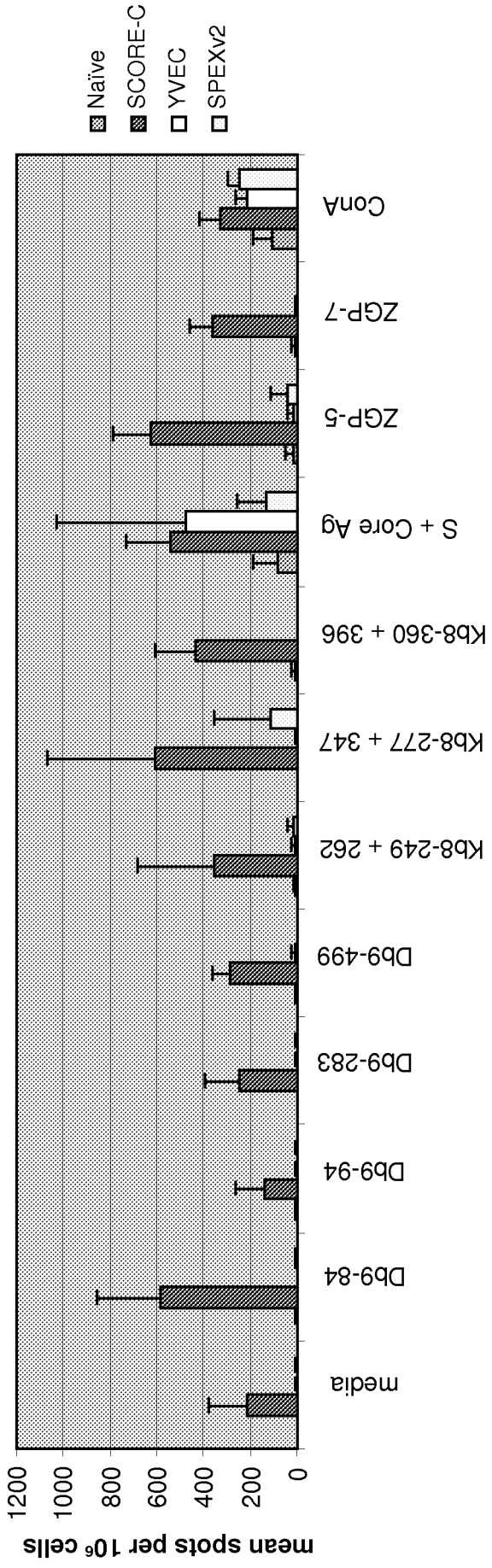

Naïve
SCORE-C
YVEC
SPEXv2
mean spots per 10^6 cells
0
200
400
600
800
1000
1200
media
Db9-84
Db9-94
Db9-283
Db9-499
Kb8-249 + 262
Kb8-277 + 347
Kb8-360 + 396
S + Core Ag
ZGP-5
ZGP-7
ConA

FIG. 33

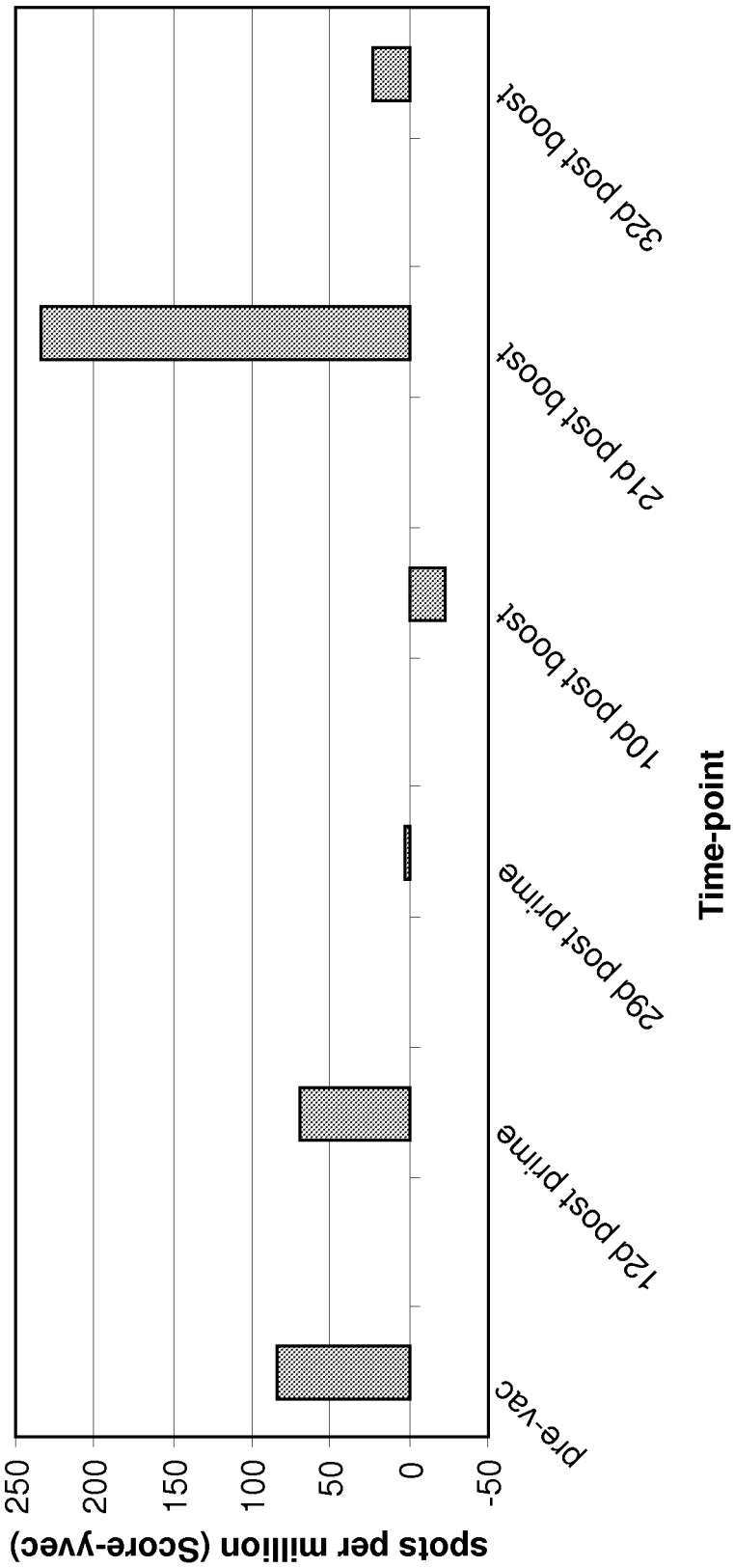

spots per million (Score-yvec)
250
200
150
100
50
0
-50
pre-vac
12d post prime
29d post prime
10d post boost
21d post boost
32d post boost
Time-point

FIG. 34

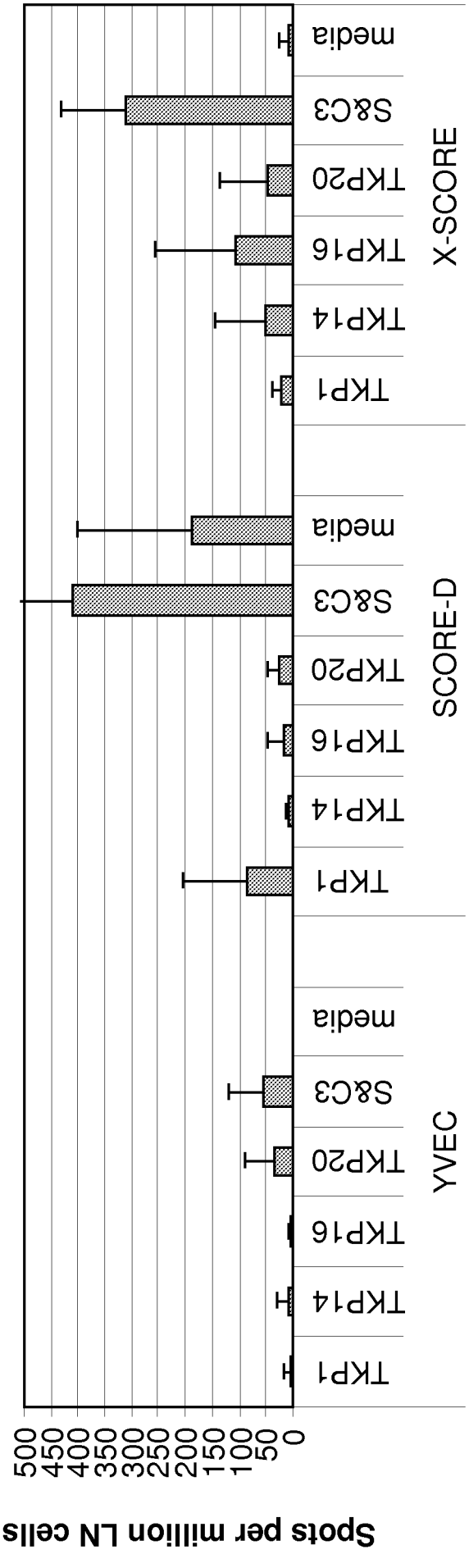

Spots per million LN cells
500
450
400
350
300
250
200
150
100
50
0
YVEC
TKP1
TKP14
TKP16
TKP20
S&C3
media
SCORE-D
TKP1
TKP14
TKP16
TKP20
S&C3
media
X-SCORE
TKP1
TKP14
TKP16
TKP20
S&C3
media

FIG. 35

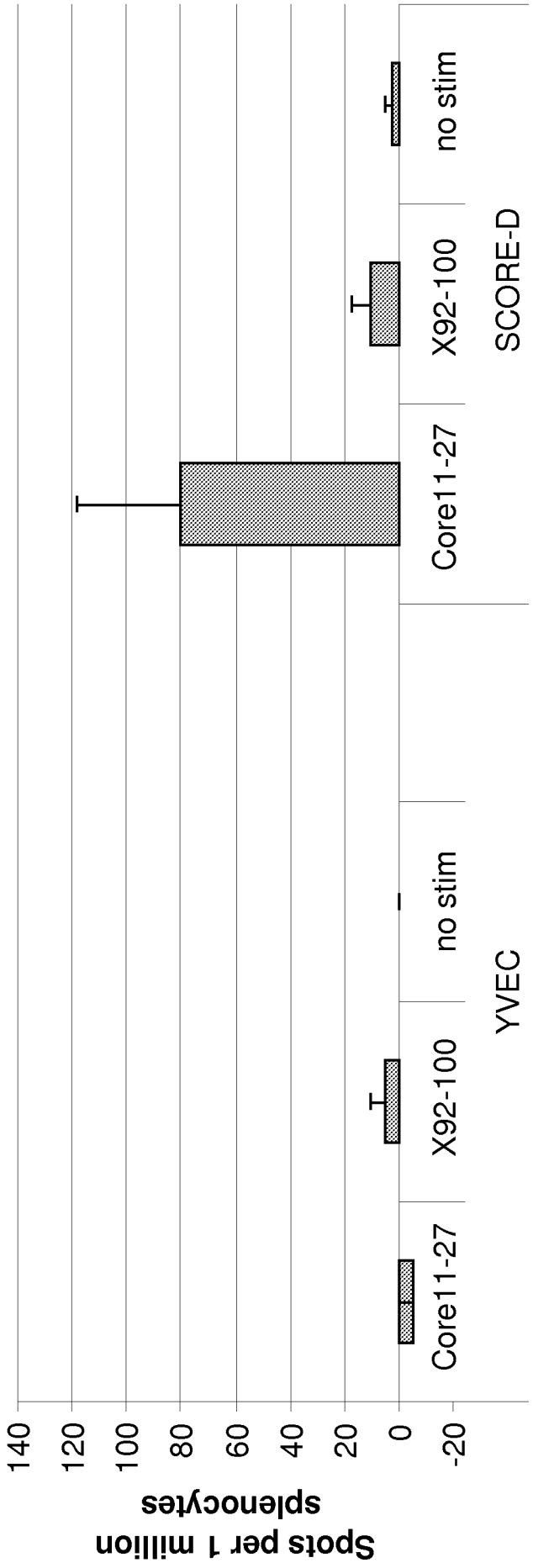

Spots per 1 million splenocytes
140
120
100
80
60
40
20
0
-20
Core11-27
X92-100
no stim
YVEC
Core11-27
X92-100
no stim
SCORE-D

FIG. 36

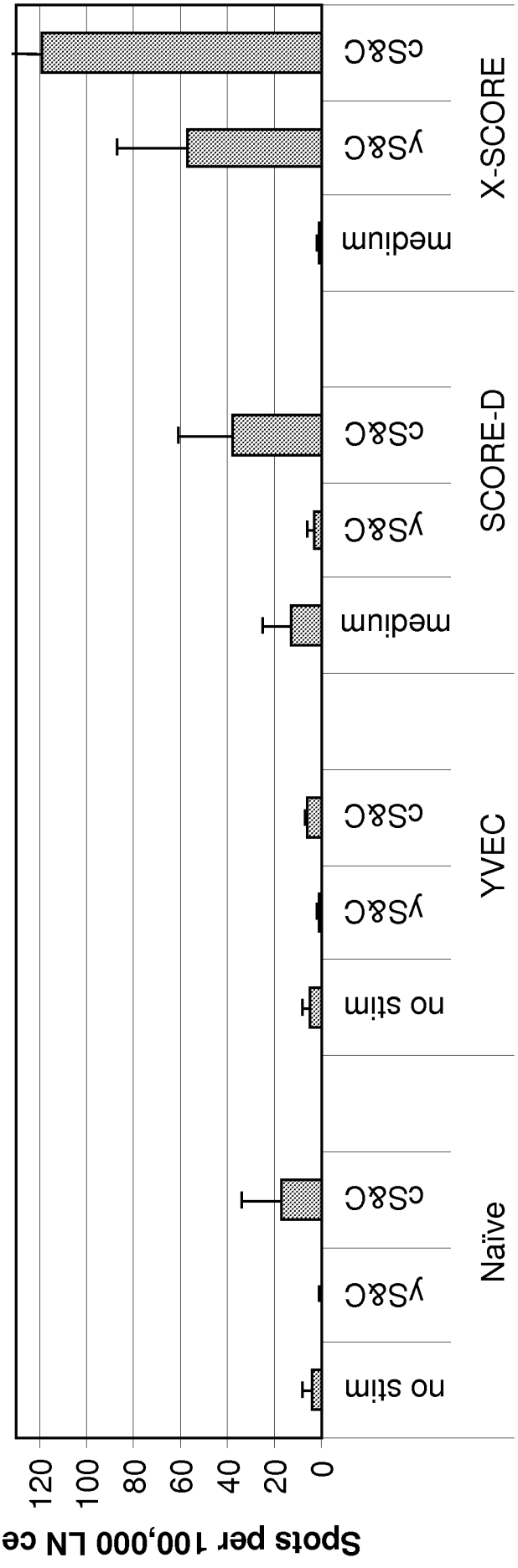

Spots per 100,000 LN cells
120
100
80
60
40
20
0
Naïve
YVEC
SCORE-D
X-SCORE
no stim
γS&C
cS&C
no stim
γS&C
cS&C
medium
γS&C
cS&C
medium
γS&C
cS&C

FIG. 37

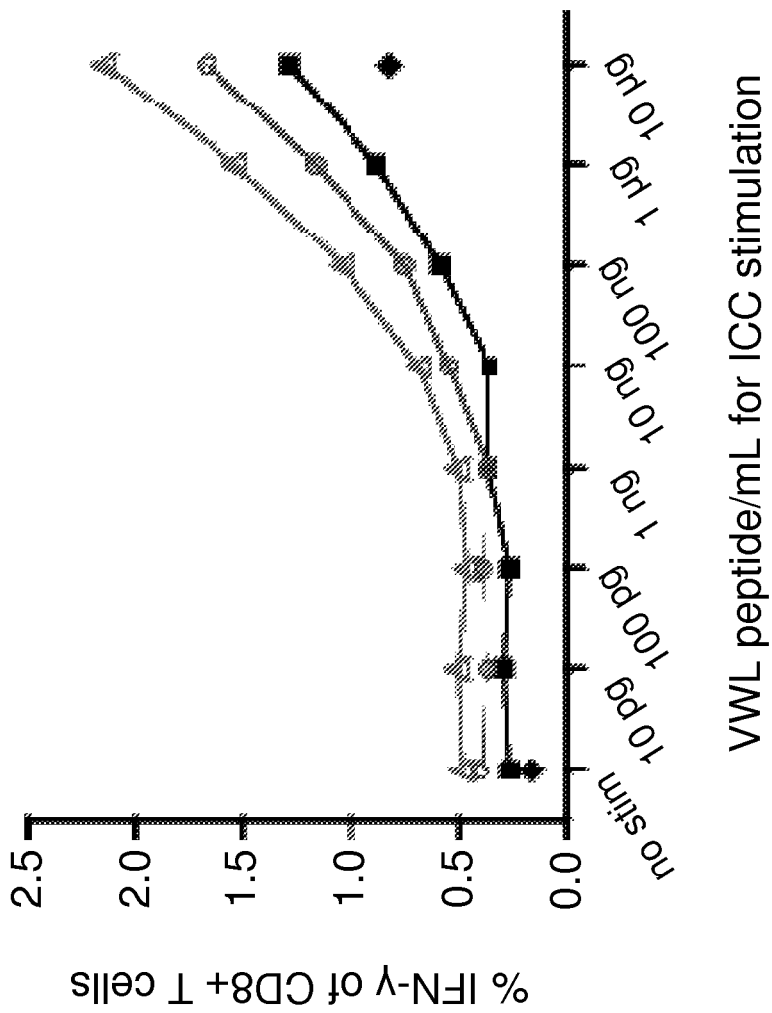
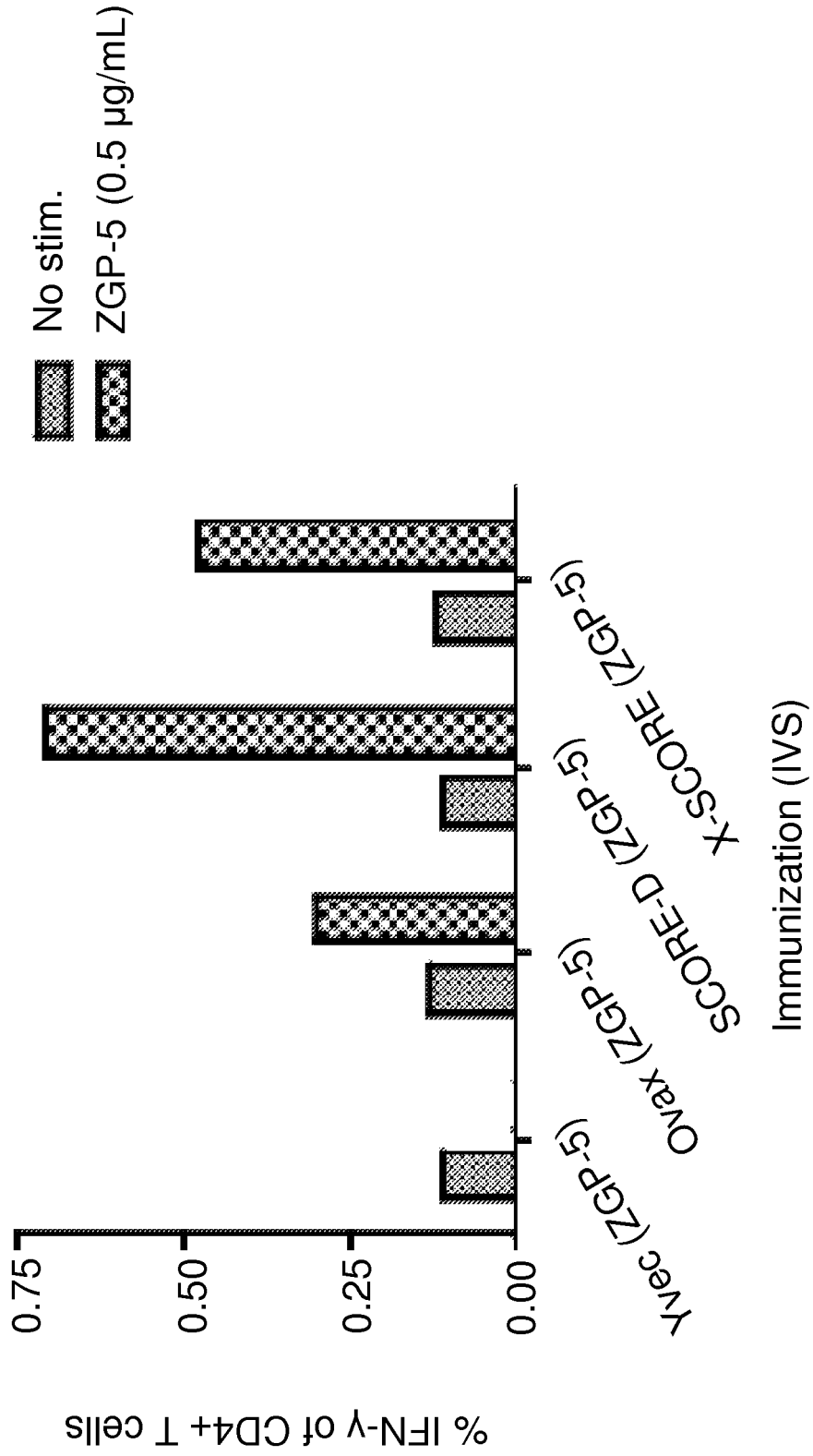

■ Yvec (VWL)
Δ SCORE-D (VWL)
○ X-SCORE (VWL)
◆ Ovax (VWL)
% IFN-γ of CD8+ T cells
2.5
2.0
1.5
1.0
0.5
0.0
no stim
10 pg
100 pg
1 ng
10 ng
100 ng
1 μg
10 μg
VWL peptide/mL for ICC stimulation

FIG. 38


No stim.
ZGP-5 (0.5 µg/mL)
% IFN-γ of CD4+ T cells
0.75
0.50
0.25
0.00
Yvec (ZGP-5)
Ovax (ZGP-5)
SCORE-D (ZGP-5)
X-SCORE (ZGP-5)
Immunization (IVS)