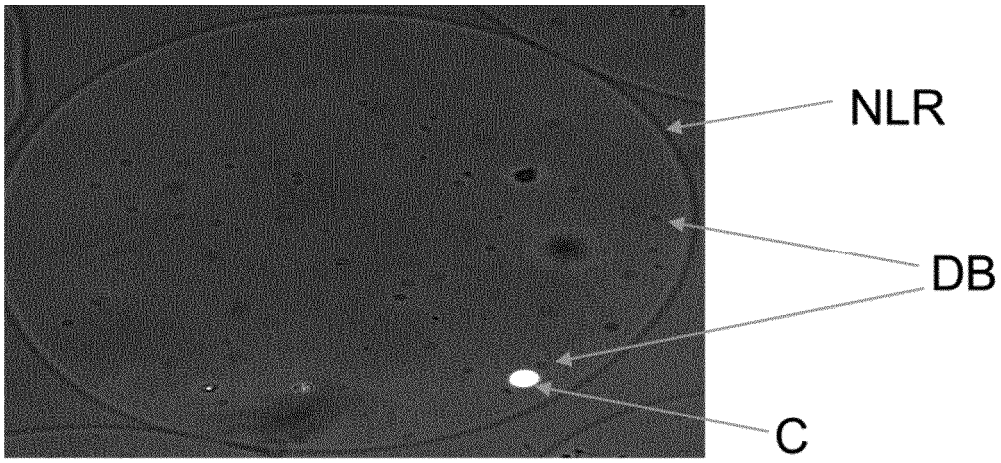

Fig. 1

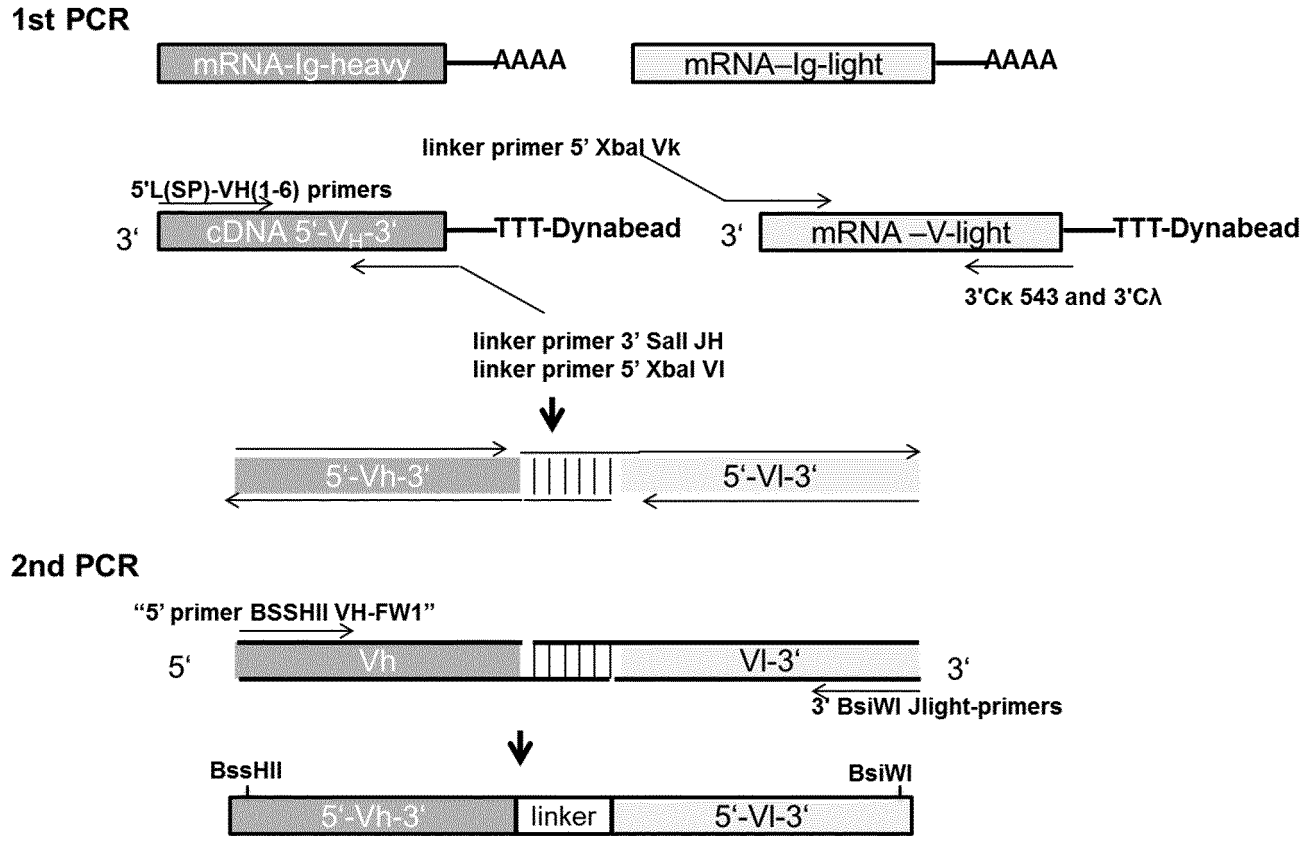
1st PCR
mRNA-Ig-heavy
AAAA
mRNA–Ig-light
AAAA
linker primer 5' XbaI Vk
5'L(SP)-VH(1-6) primers
3'
cDNA 5'-VH-3'
TTT-Dynabead
3'
mRNA –V-light
TTT-Dynabead
3'Cκ 543 and 3'Cλ
linker primer 3' SalI JH
linker primer 5' XbaI Vl
5'-Vh-3'
5'-Vl-3'
2nd PCR
"5' primer BSSHII VH-FW1"
5'
Vh
Vl-3'
3'
3' BsiWI Jlight-primers
BssHII
BsiWI
5'-Vh-3'
linker
5'-Vl-3'

Fig. 2

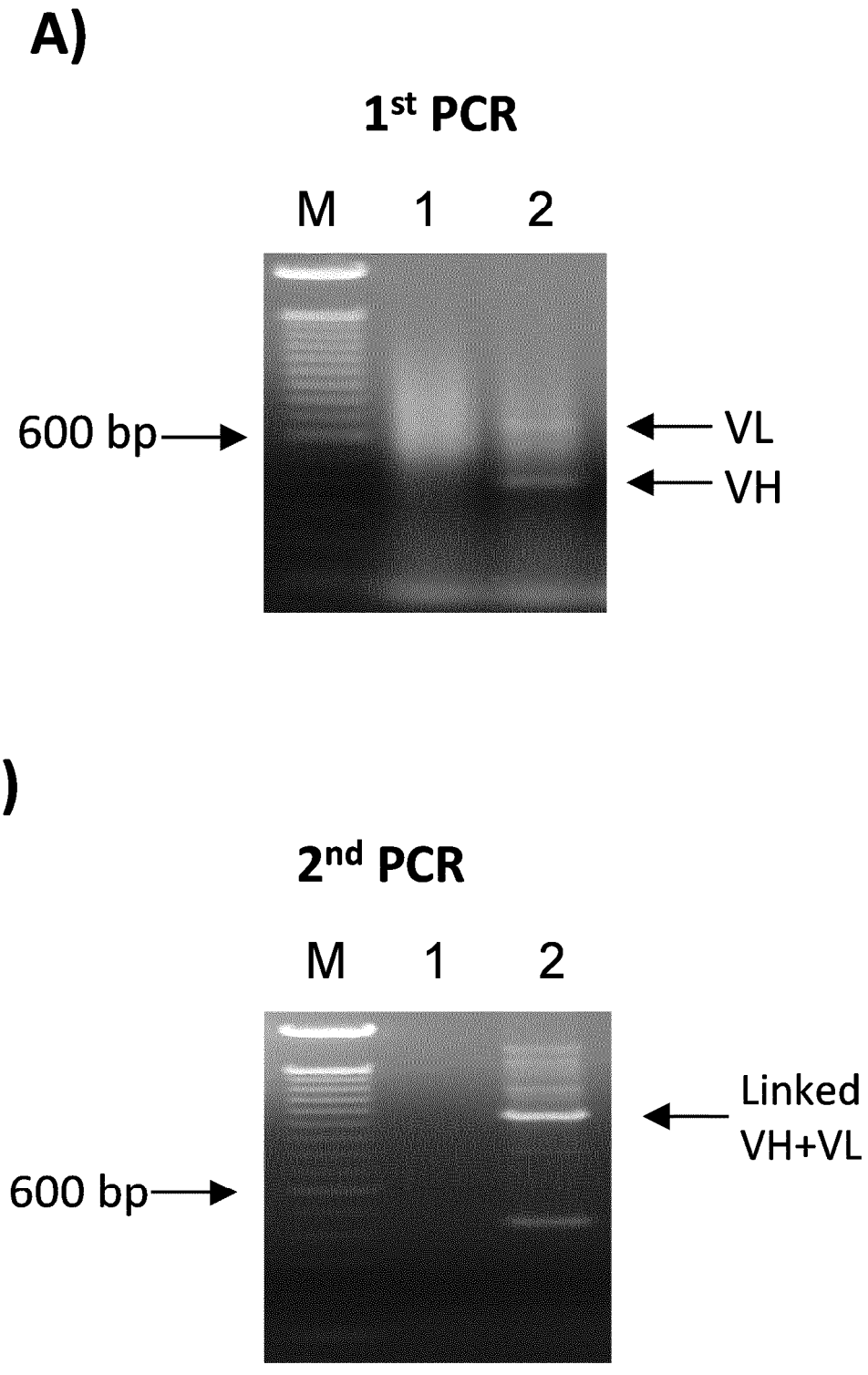

Fig. 3

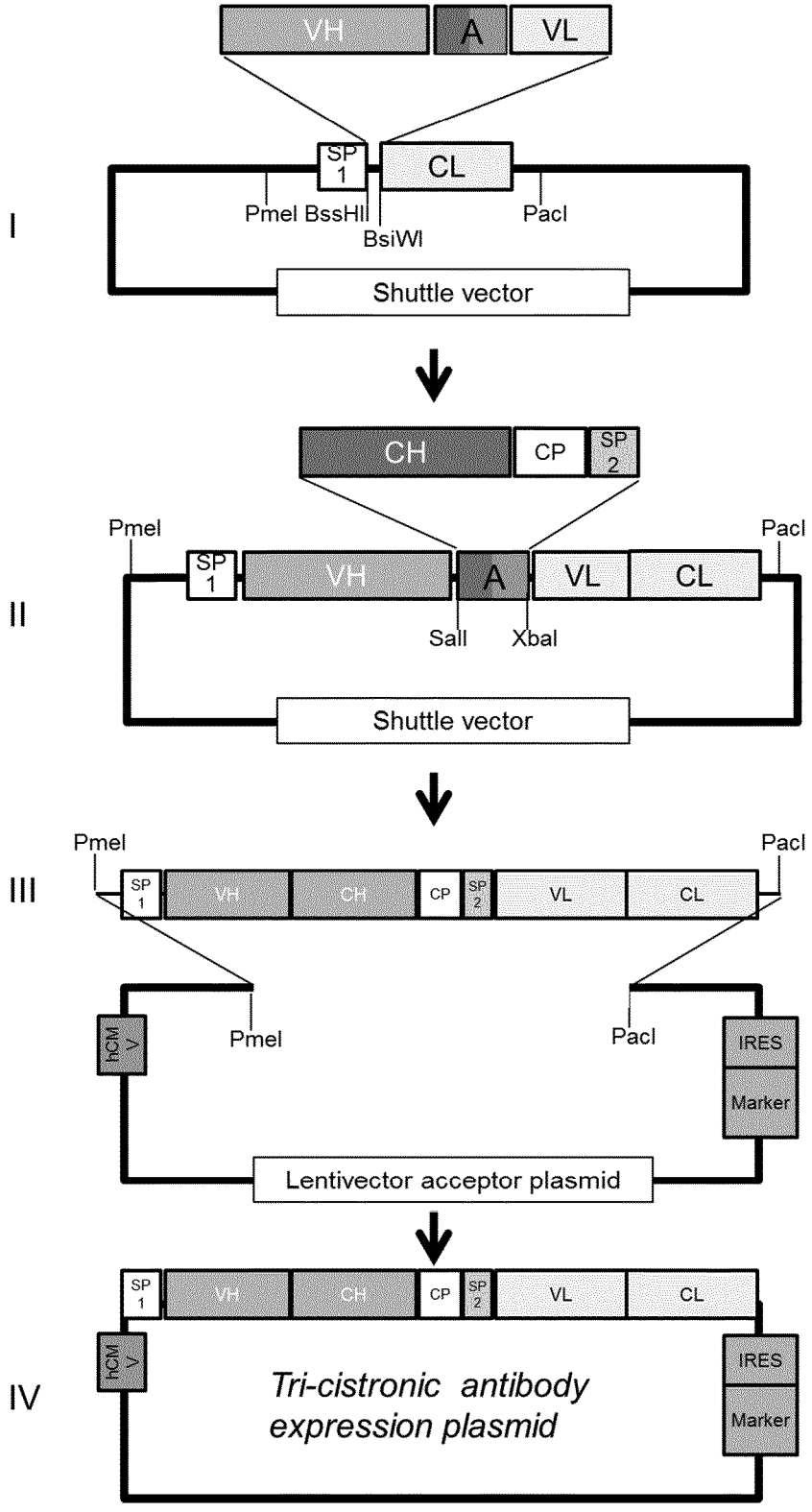
I
VH
A
VL
SP 1
CL
PmeI
BssHII
BsiWI
PacI
Shuttle vector
II
CH
CP
SP 2
PmeI
PacI
SP 1
VH
A
VL
CL
SalI
XbaI
Shuttle vector
III
PmeI
PacI
SP 1
VH
CH
CP
SP 2
VL
CL
hCMV
PmeI
PacI
IRES
Marker
Lentivector acceptor plasmid
IV
SP 1
VH
CH
CP
SP 2
VL
CL
hCMV
Tri-cistronic antibody expression plasmid
IRES
Marker

Fig. 4

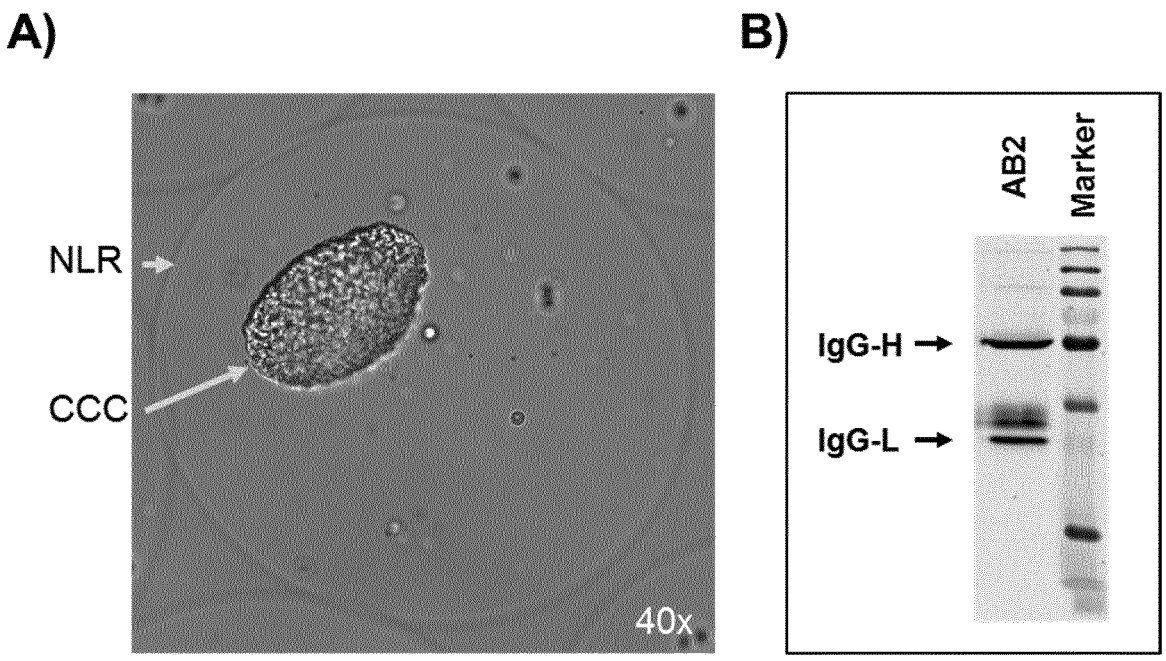

Fig. 5

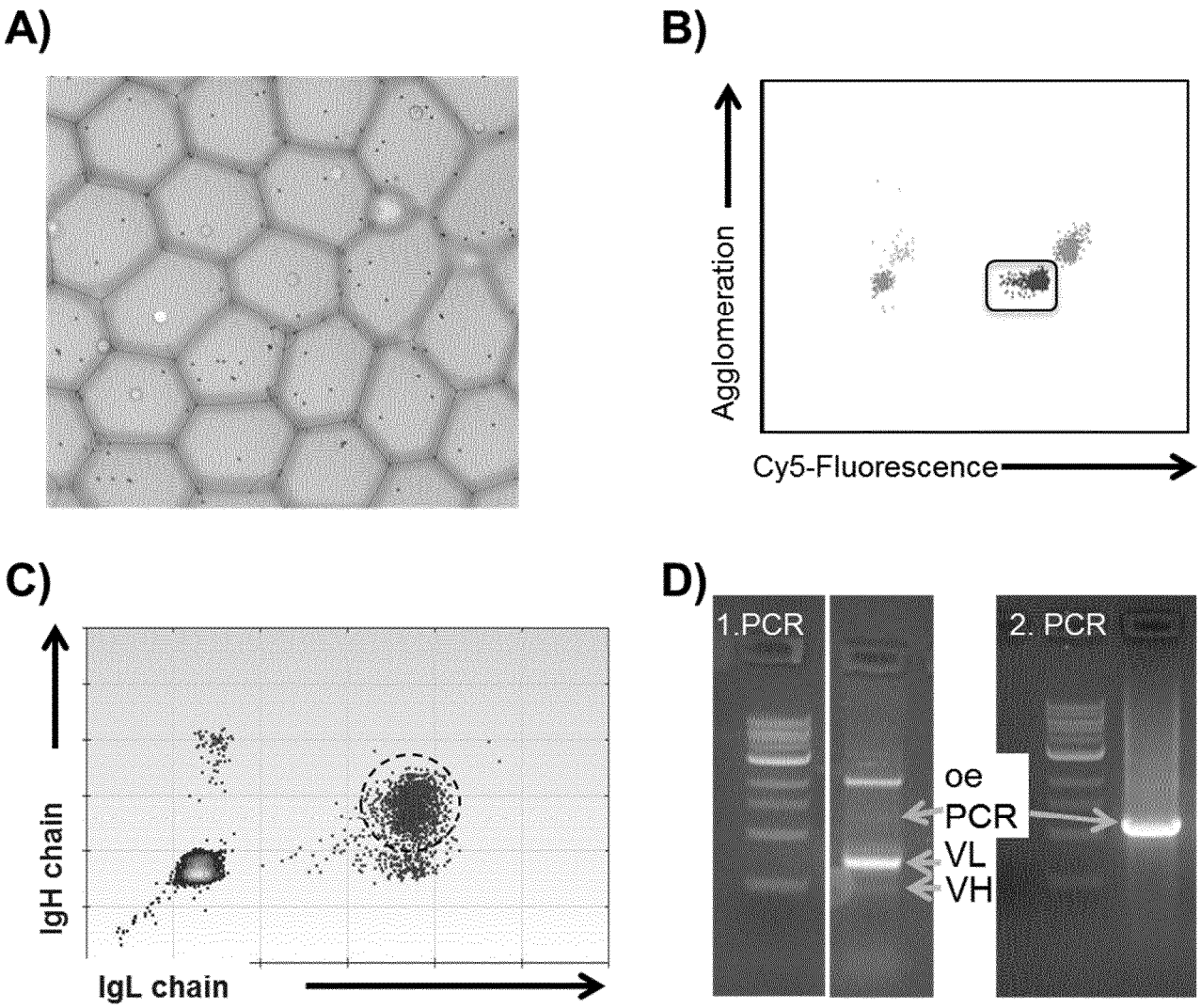
A)
B)
Agglomeration
Cy5-Fluorescence
C)
IgH chain
IgL chain
D)
1.PCR
2. PCR
oe
PCR
VL
VH

Fig. 6

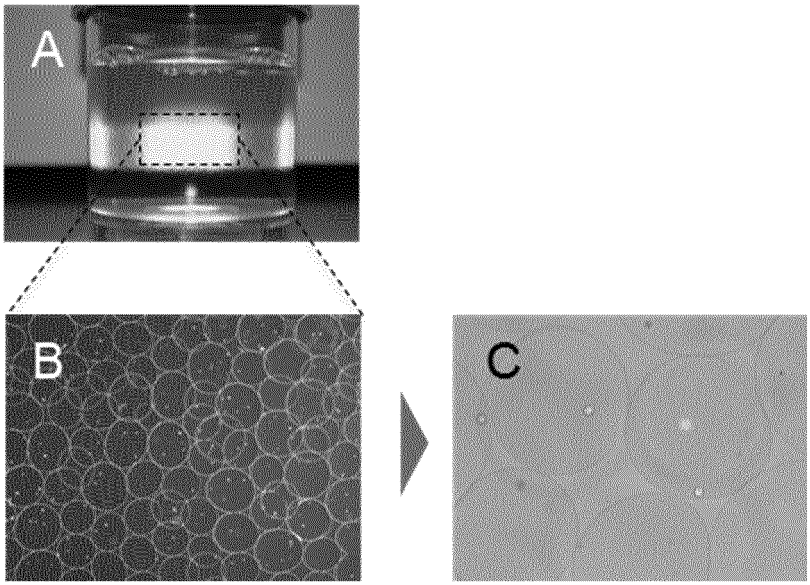

Fig. 7

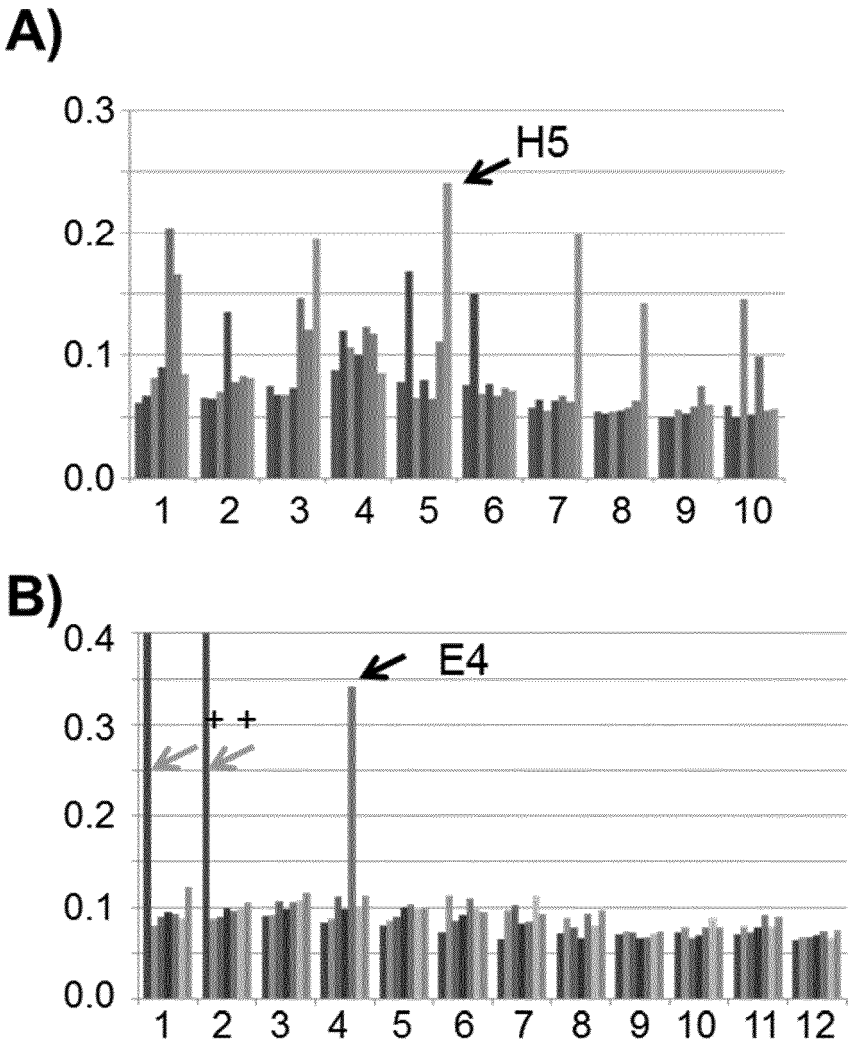
A)
0.3
0.2
0.1
0.0
H5
1 2 3 4 5 6 7 8 9 10
B)
0.4
0.3
0.2
0.1
0.0
E4
+ +
1 2 3 4 5 6 7 8 9 10 11 12

Fig. 8