

FIGURE 1

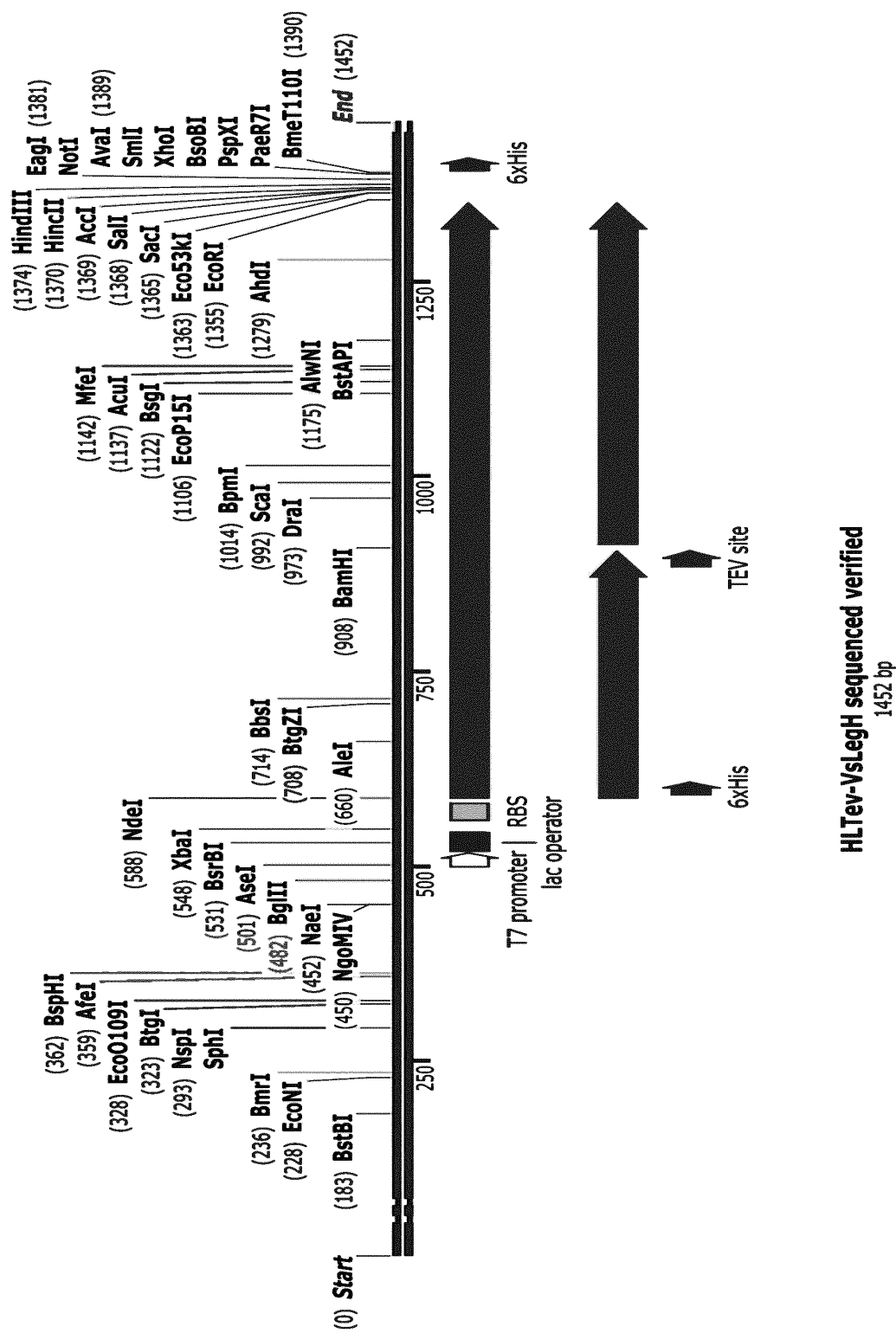


FIGURE 2

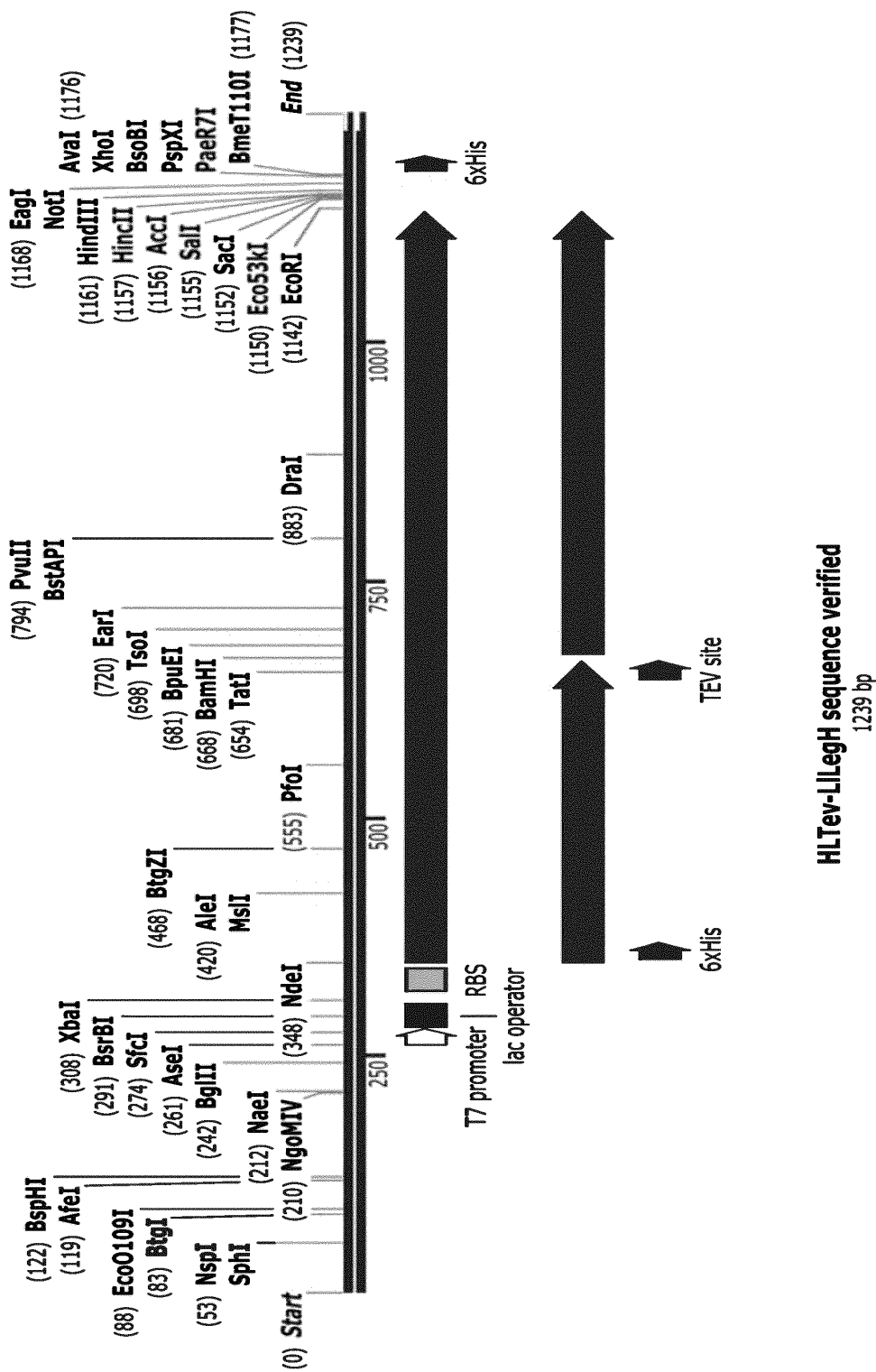


FIGURE 3

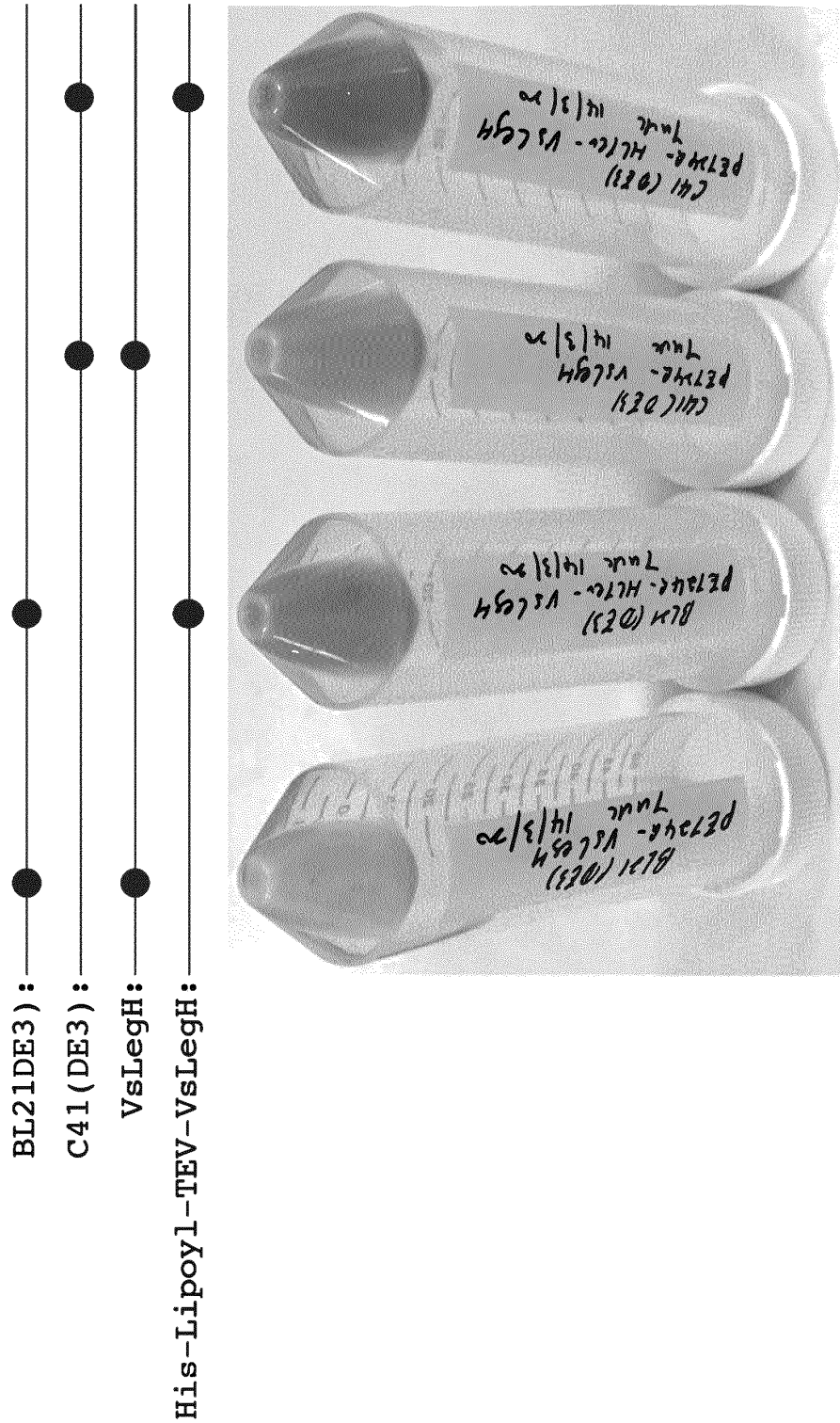


FIGURE 4

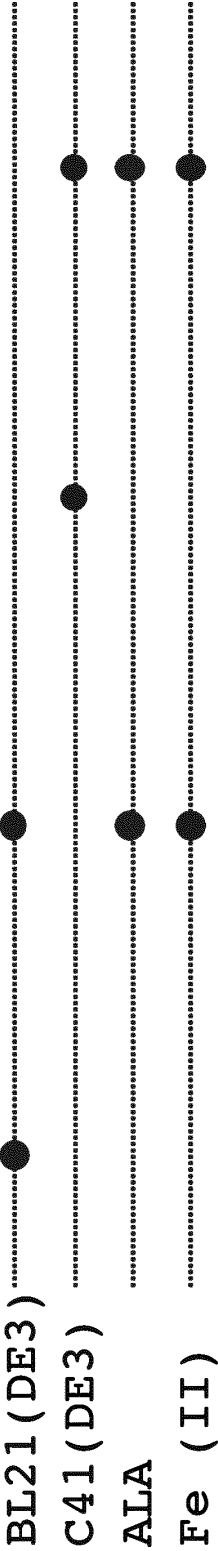
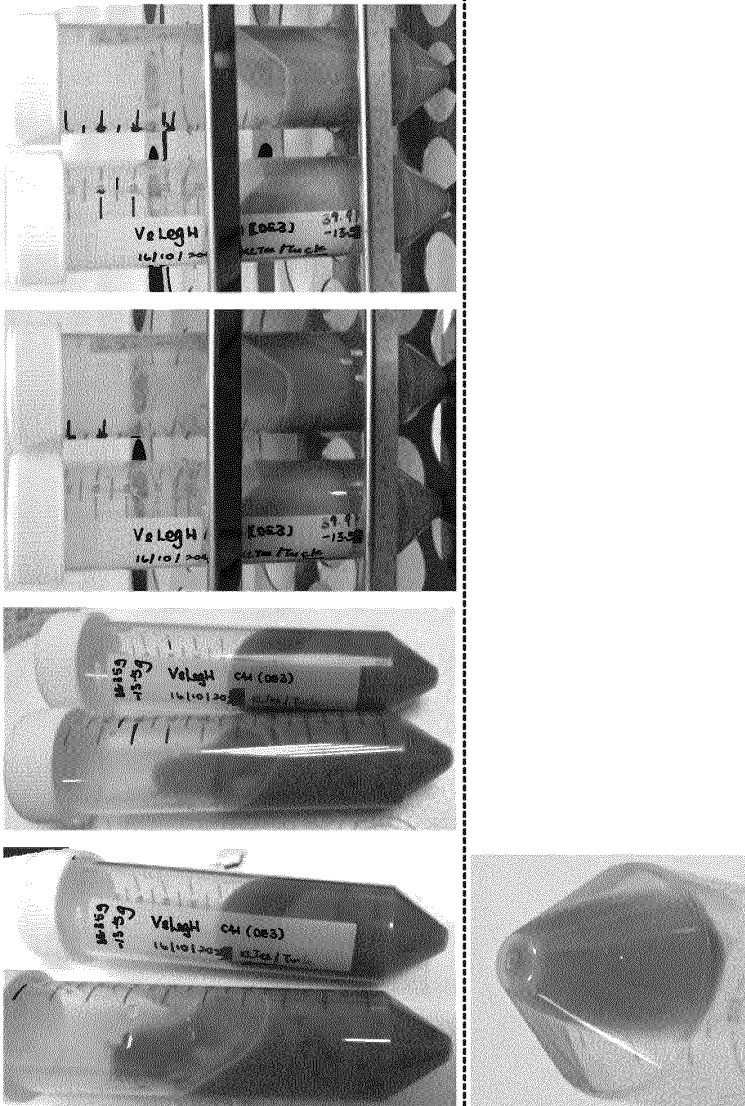


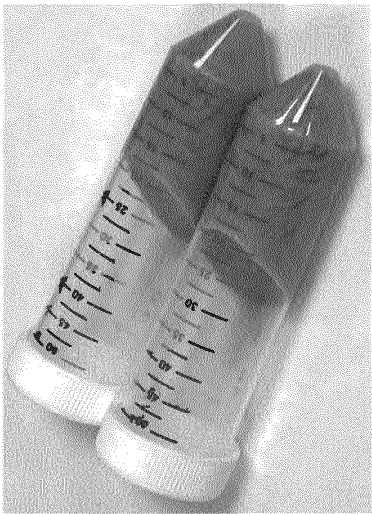
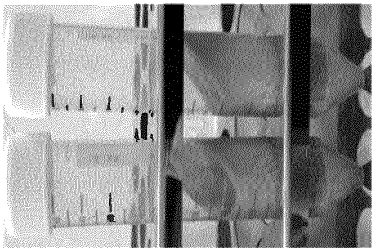
FIGURE 5



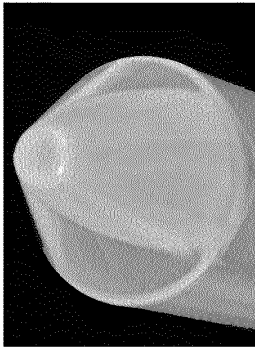
Scale: 5 L
Medium: SB

Scale: 50 mL
Medium: 2×TY

FIGURE 6



Scale: 5 L
Medium: SB



Scale: 50 mL
Medium: 2×TY

FIGURE 7

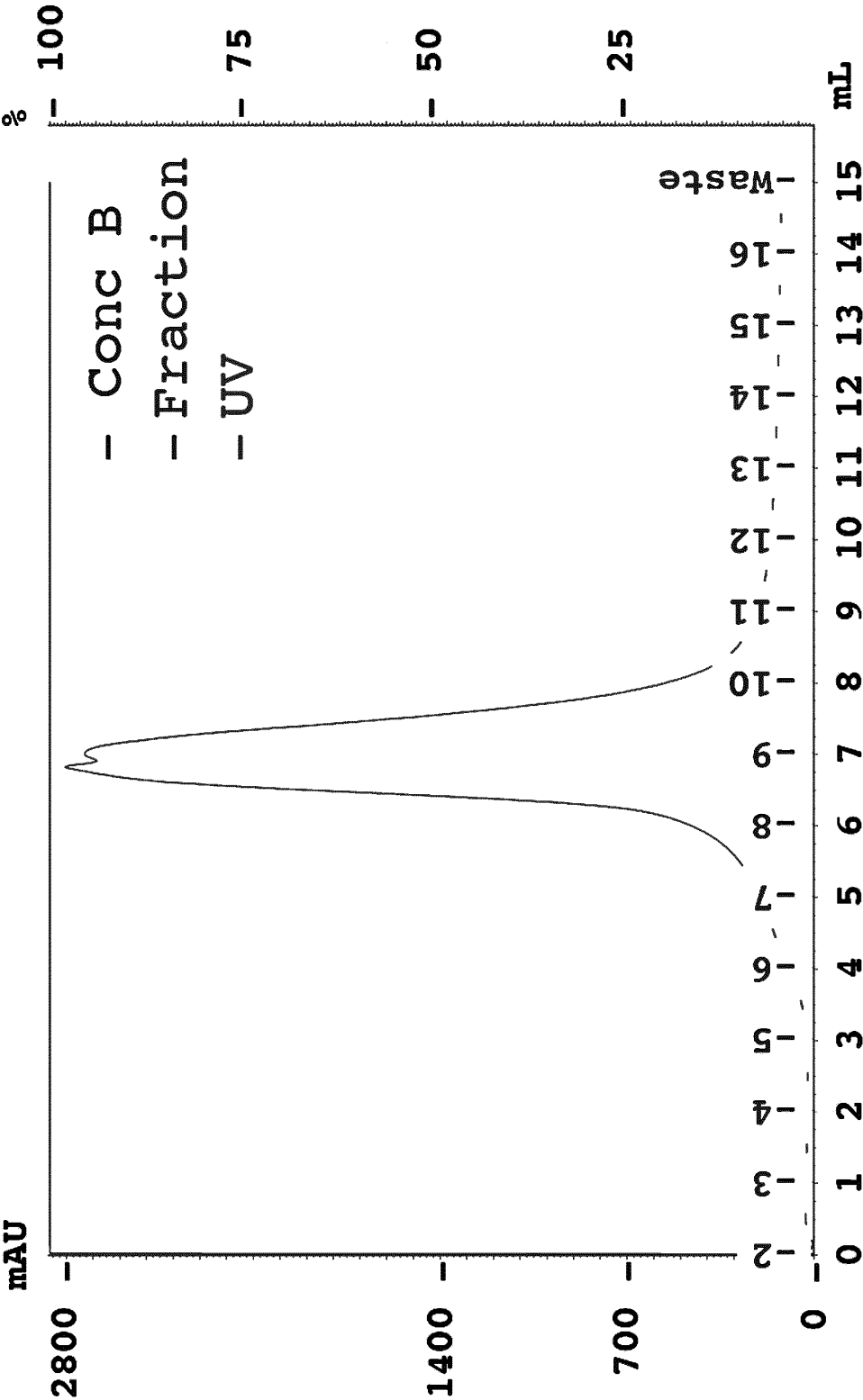


FIGURE 8

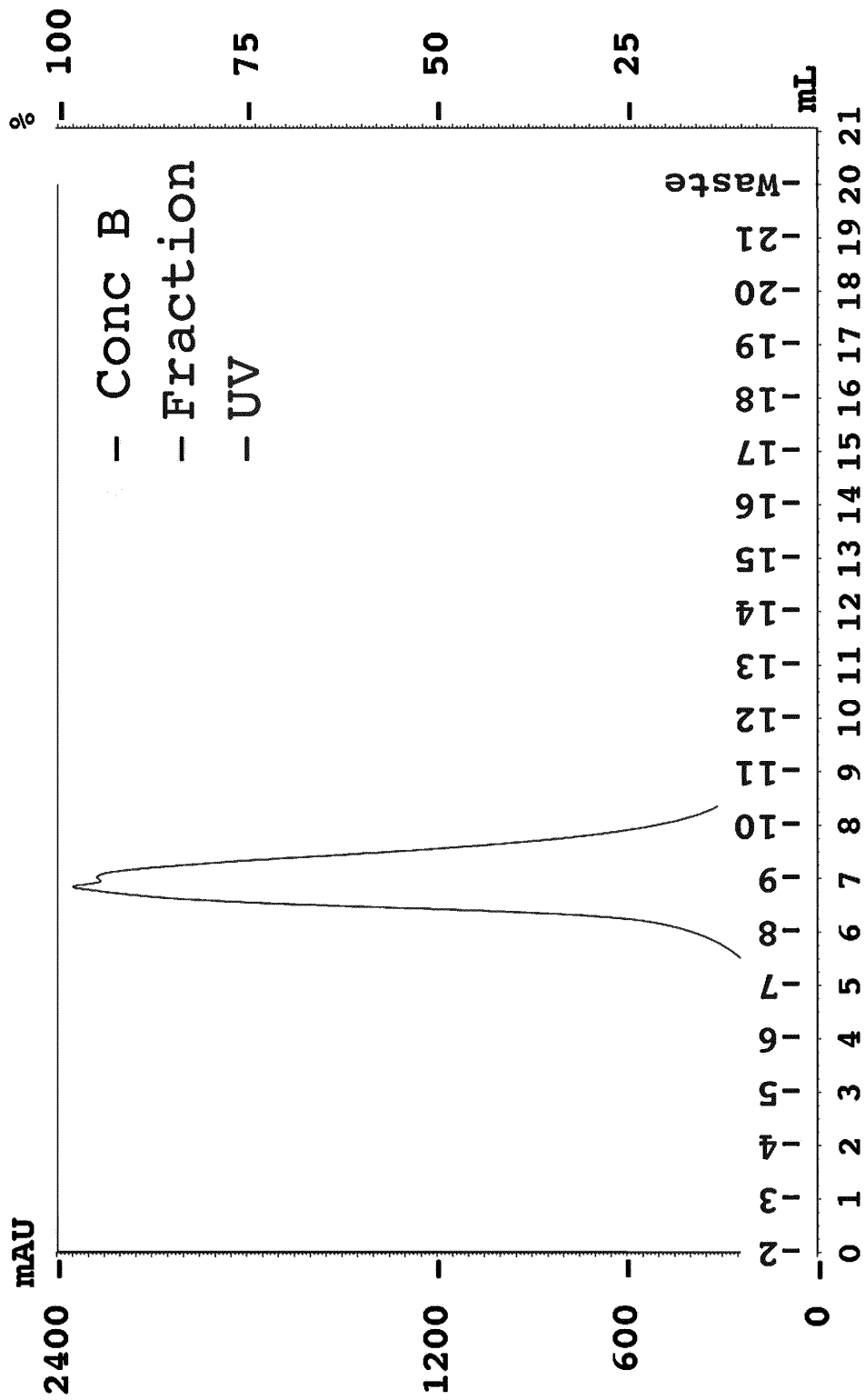


FIGURE 9

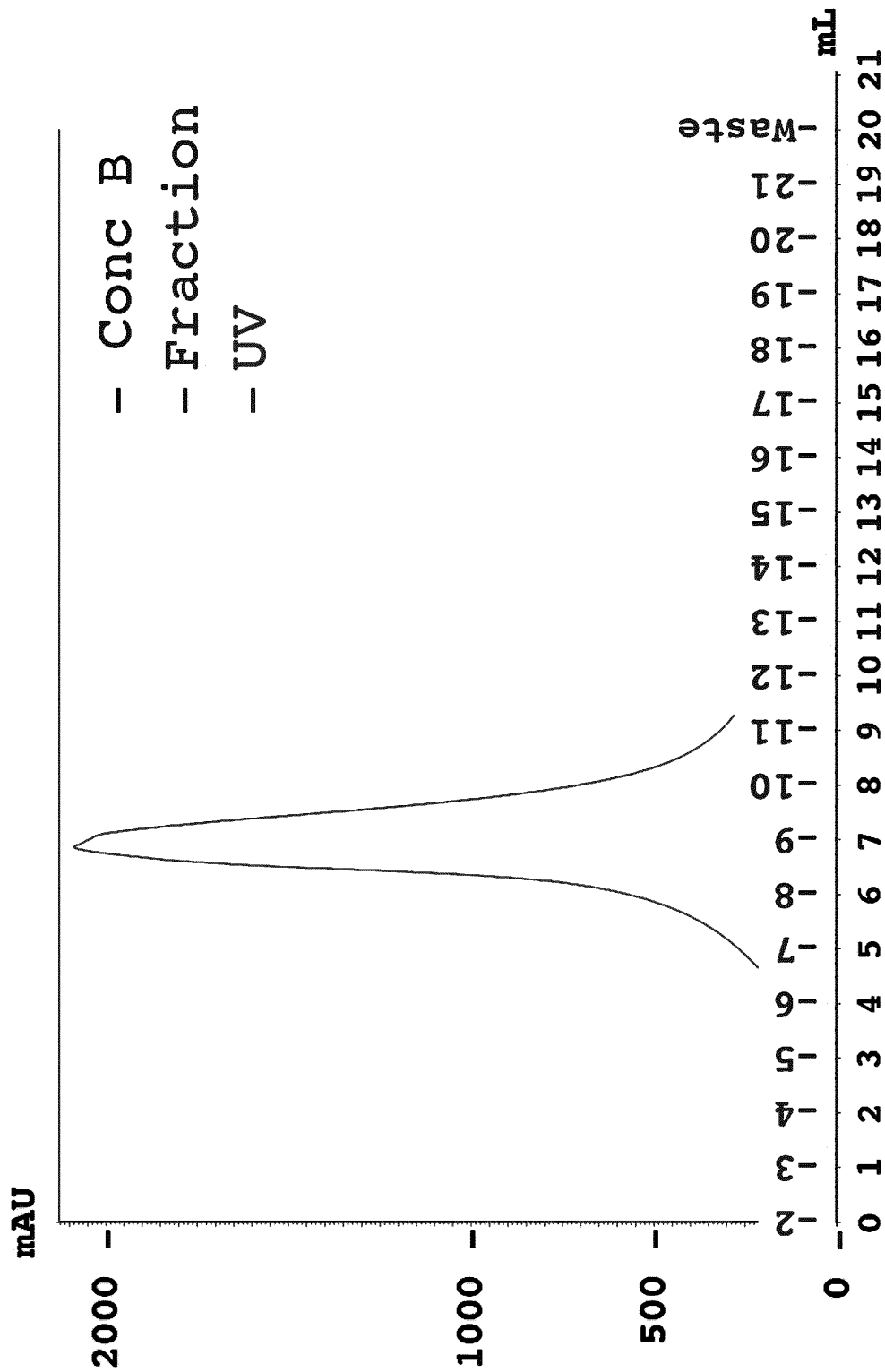


FIGURE 10

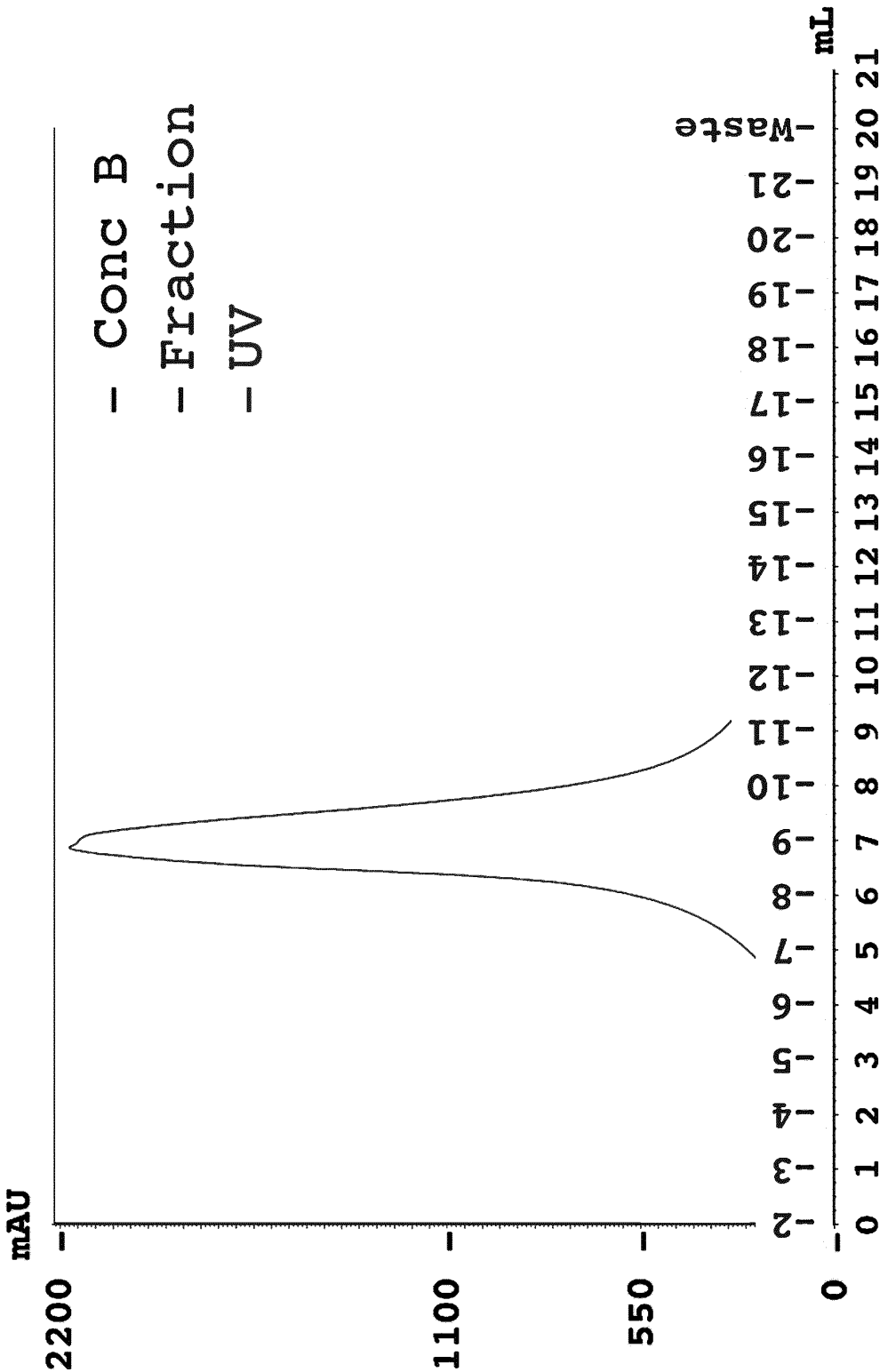


FIGURE 11

Frac 8

Frac 9

Frac 10

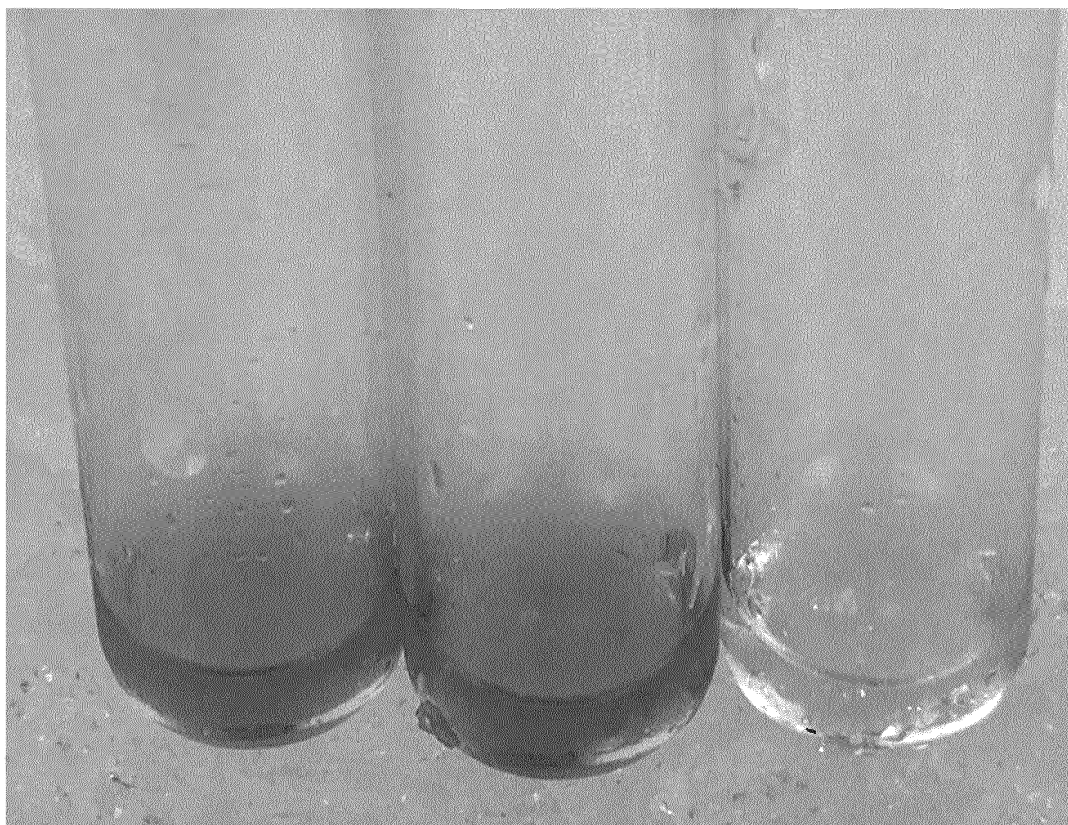


FIGURE 12

C41 (DE3)

Frac 8 Frac 9

BL21 (DE3)

Frac 8 Frac 9

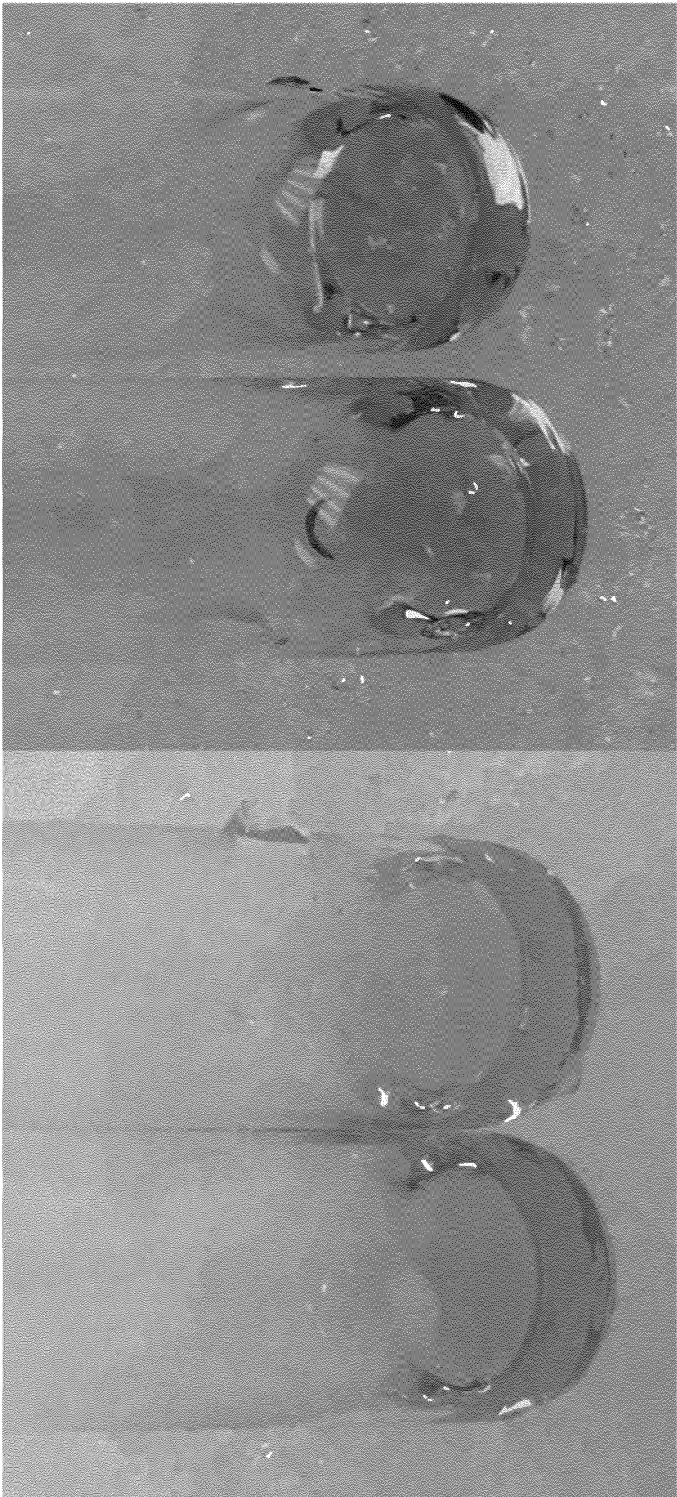


FIGURE 13

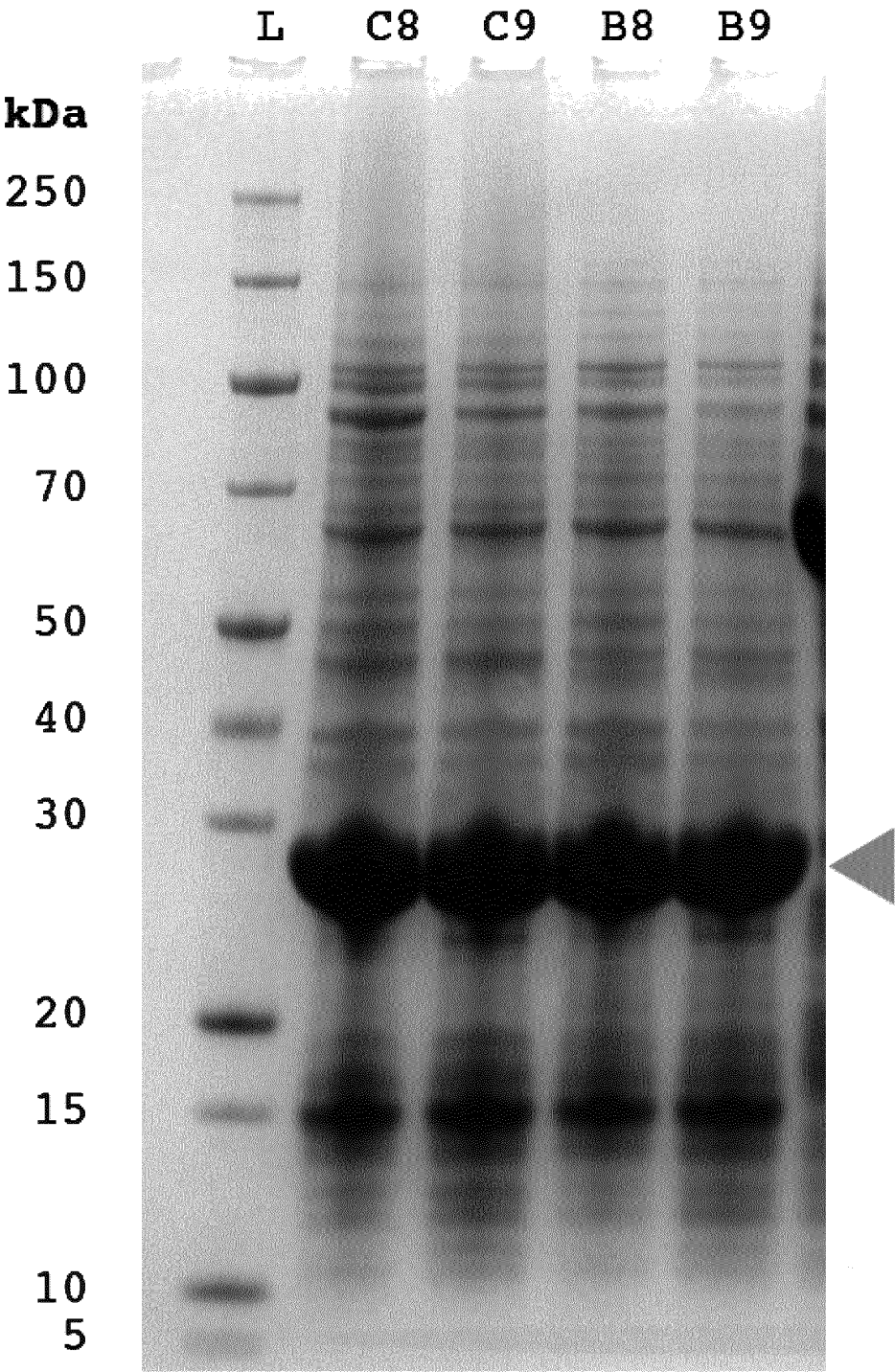


FIGURE 14

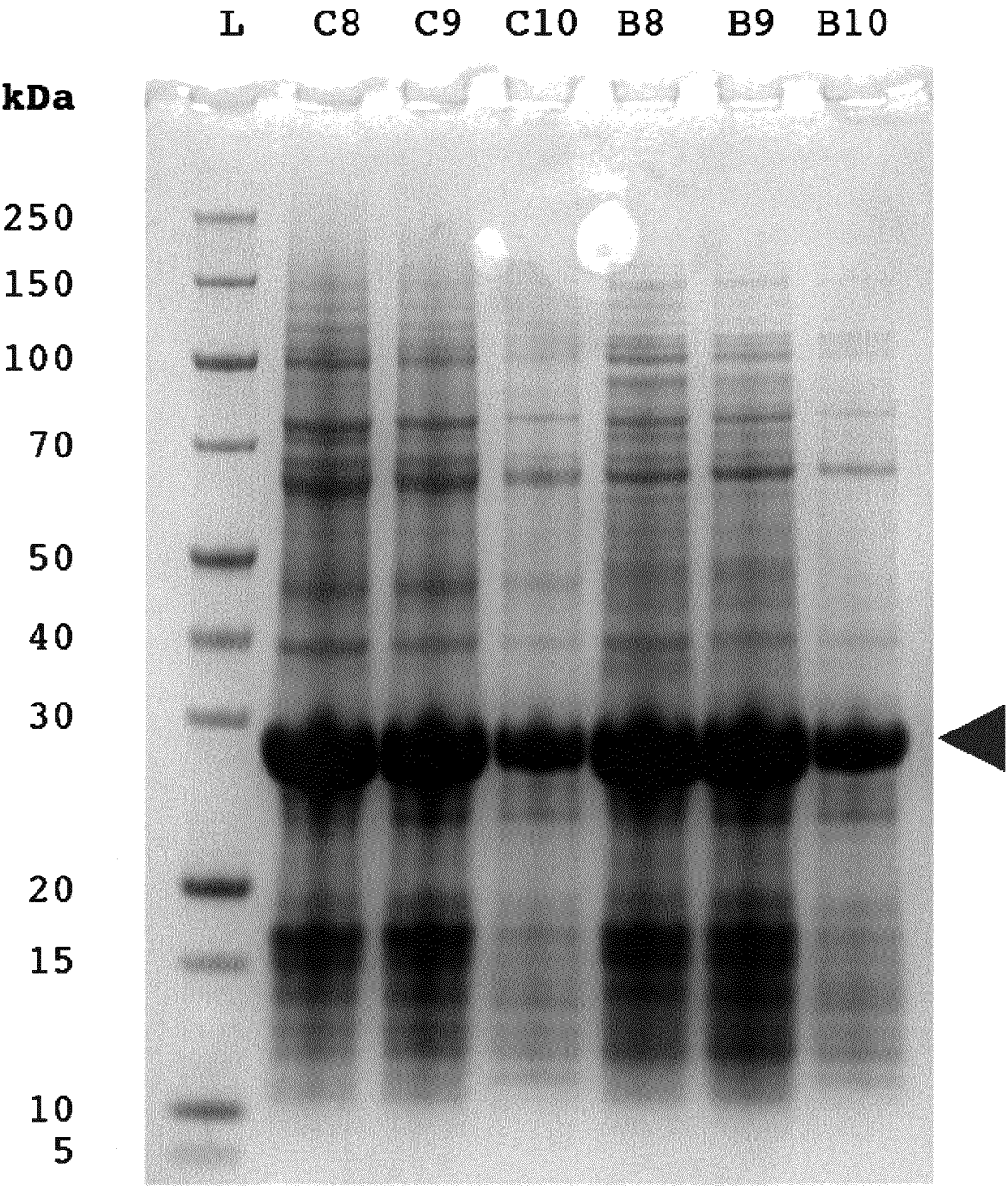


FIGURE 15

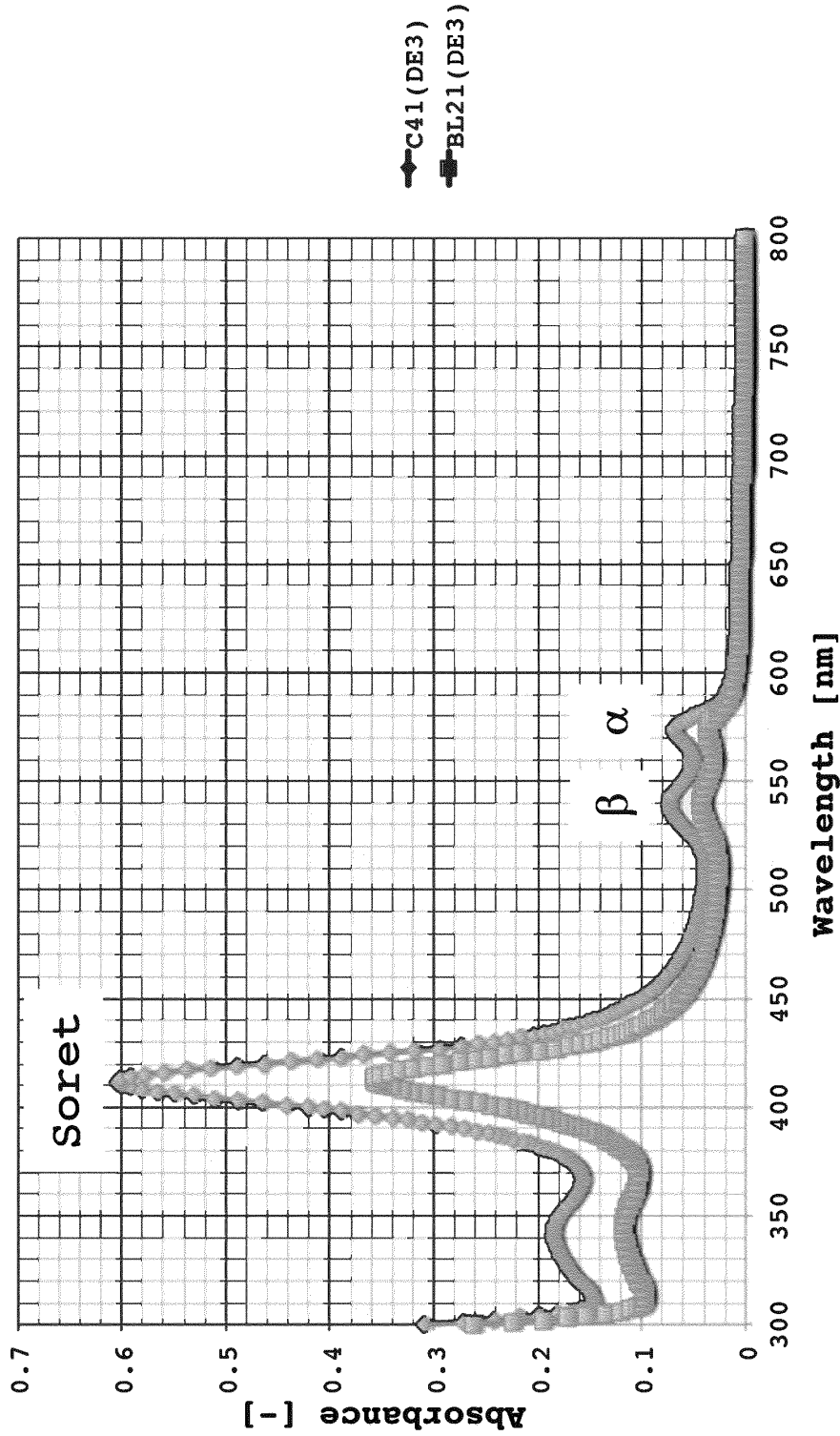


FIGURE 16

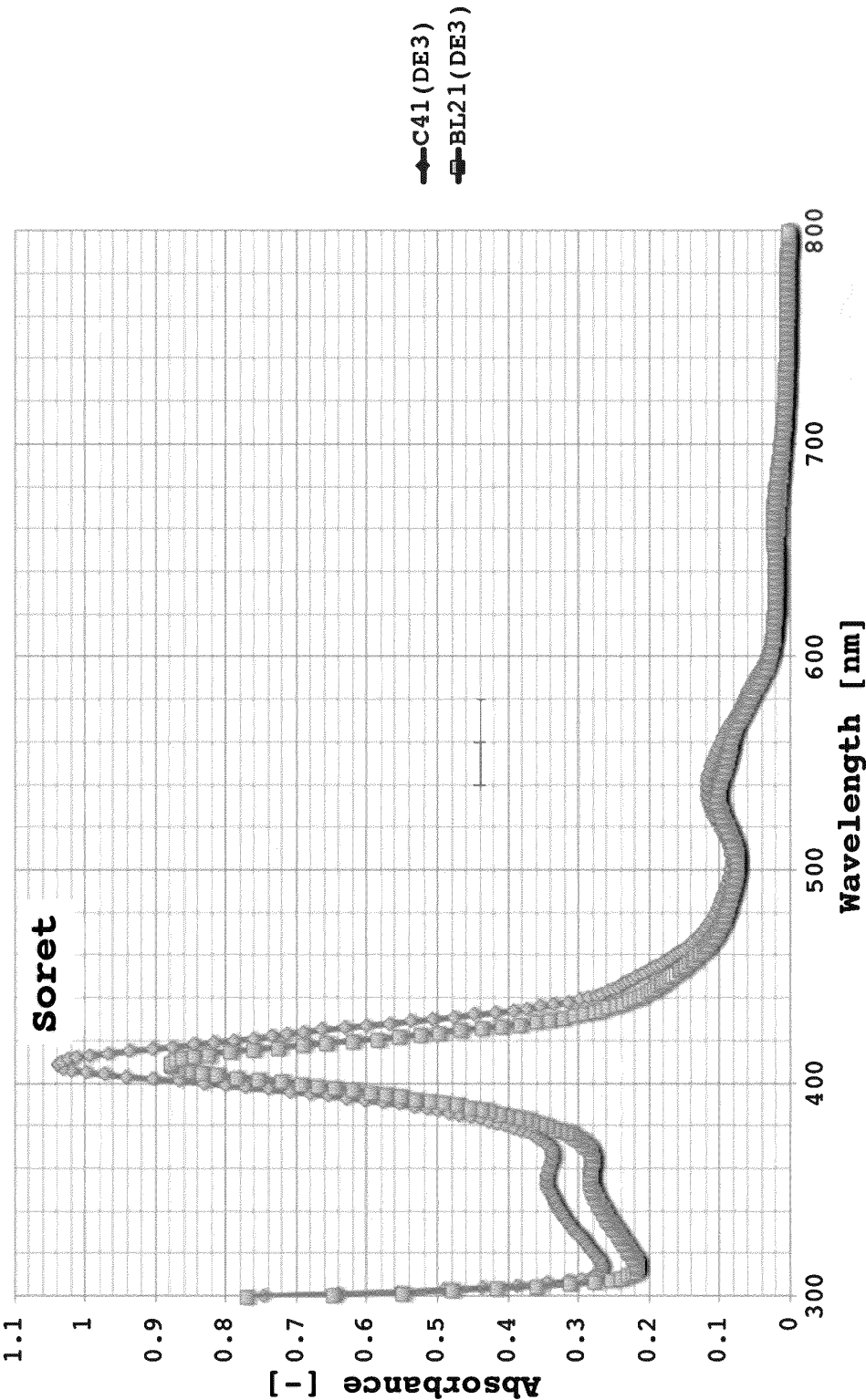


FIGURE 17

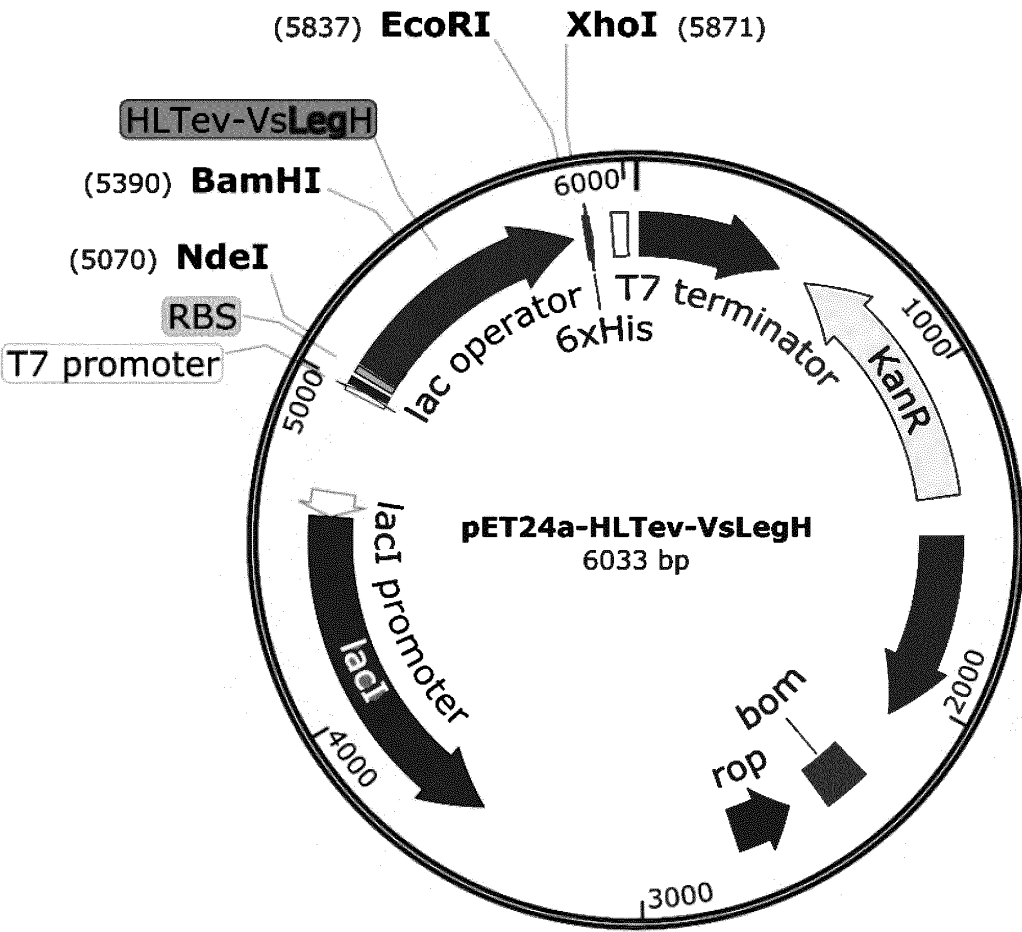


FIGURE 18

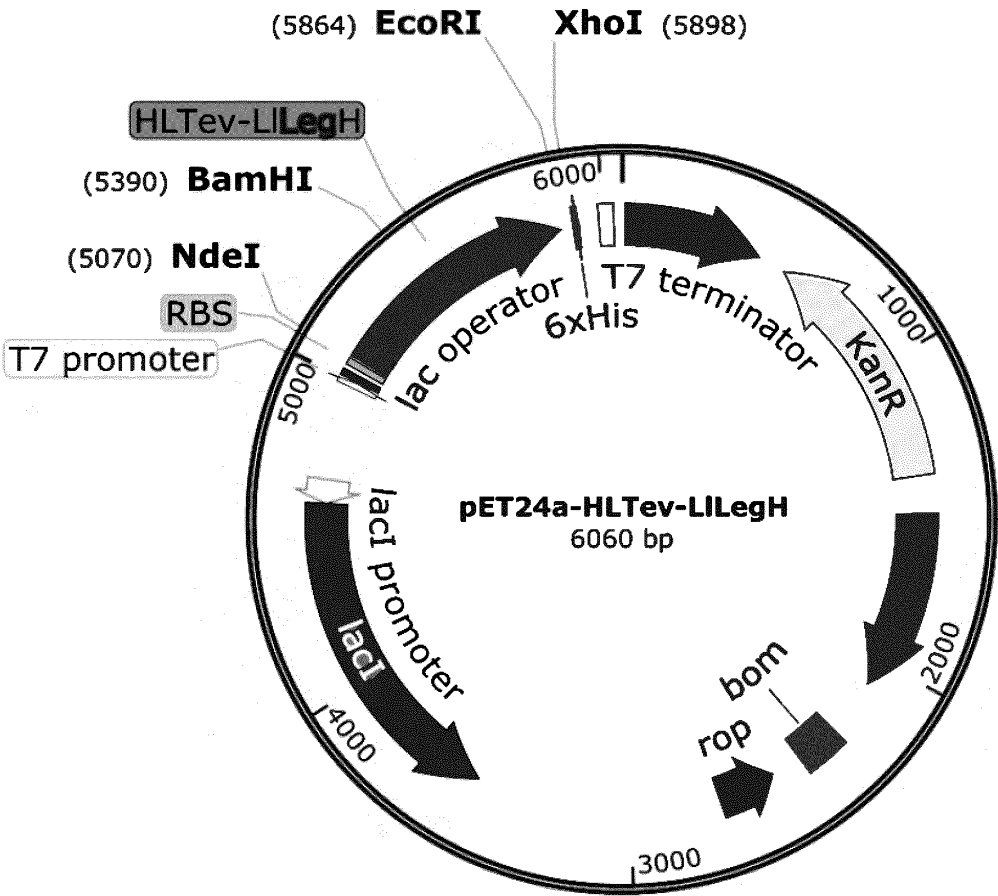


FIGURE 19

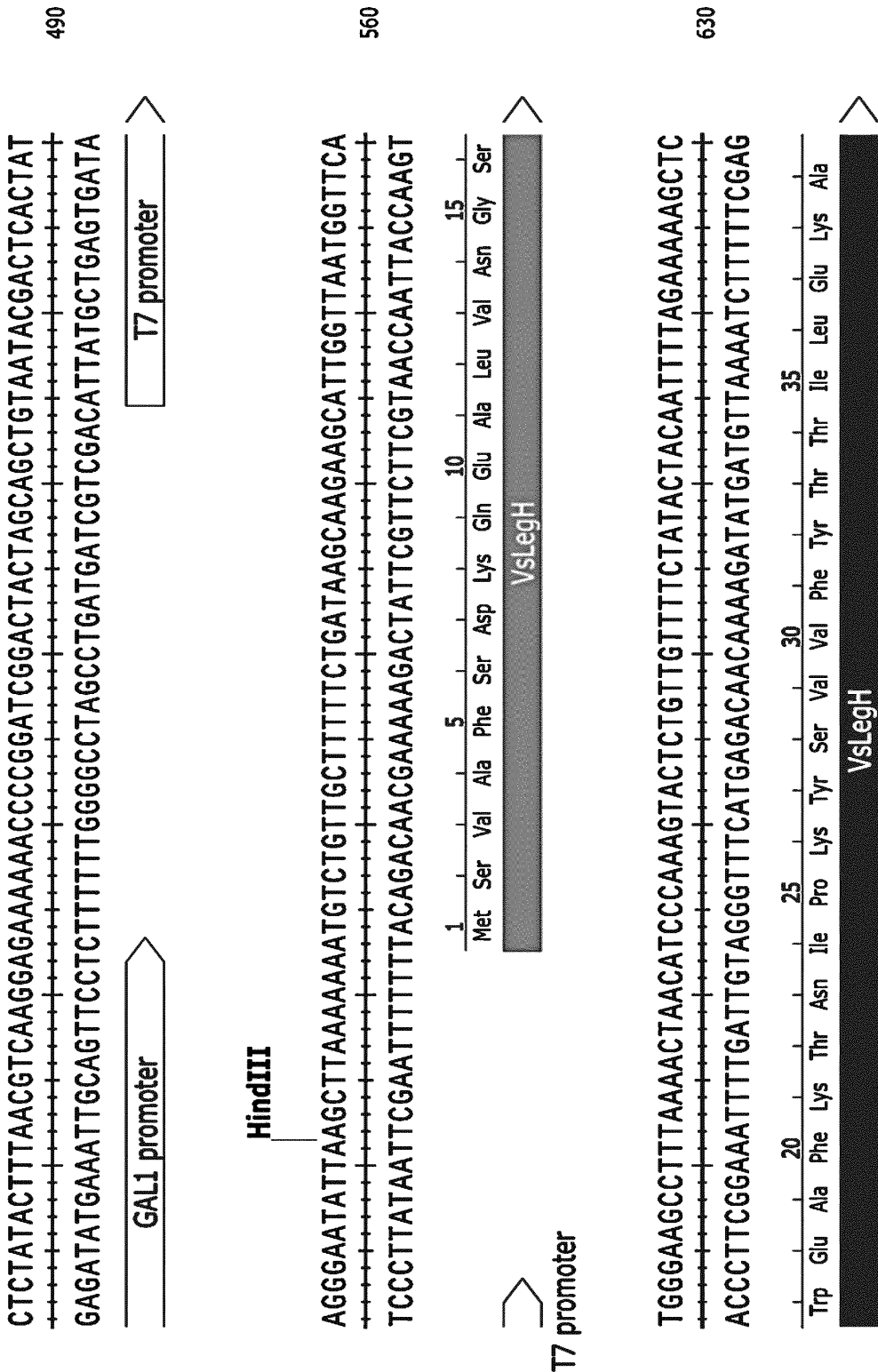


FIGURE 19 (cont.)

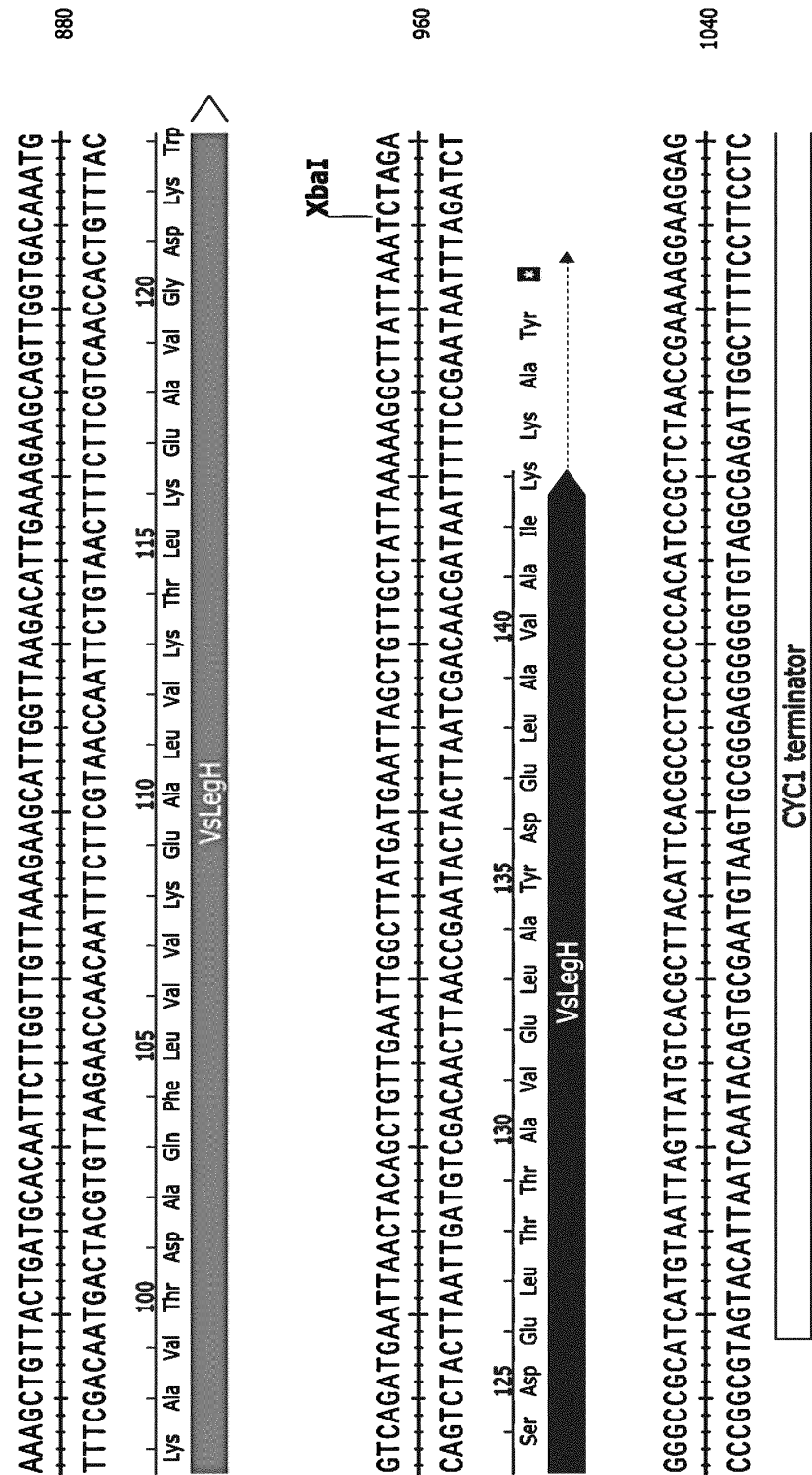


FIGURE 20

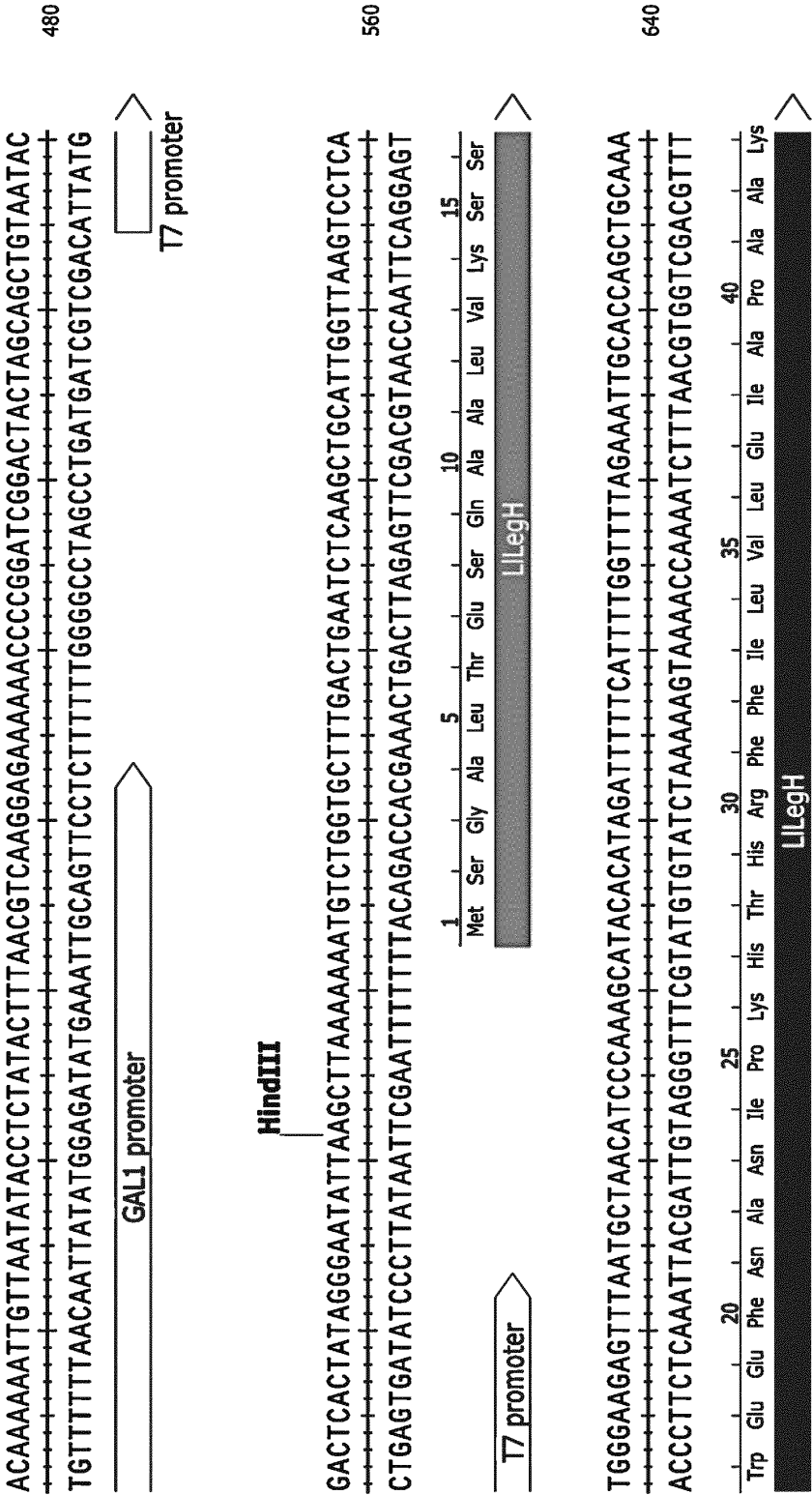


FIGURE 20 (cont.)

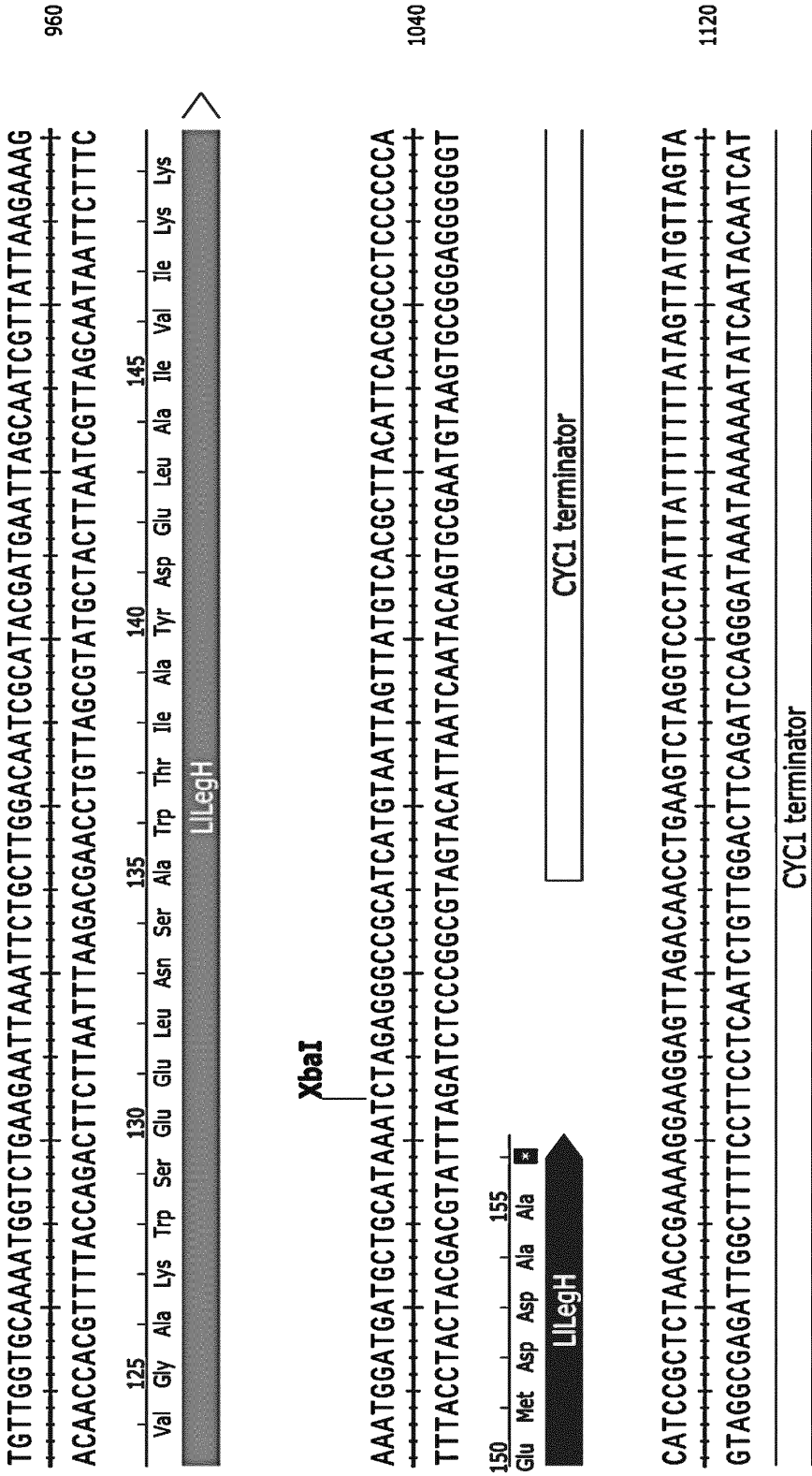


FIGURE 21

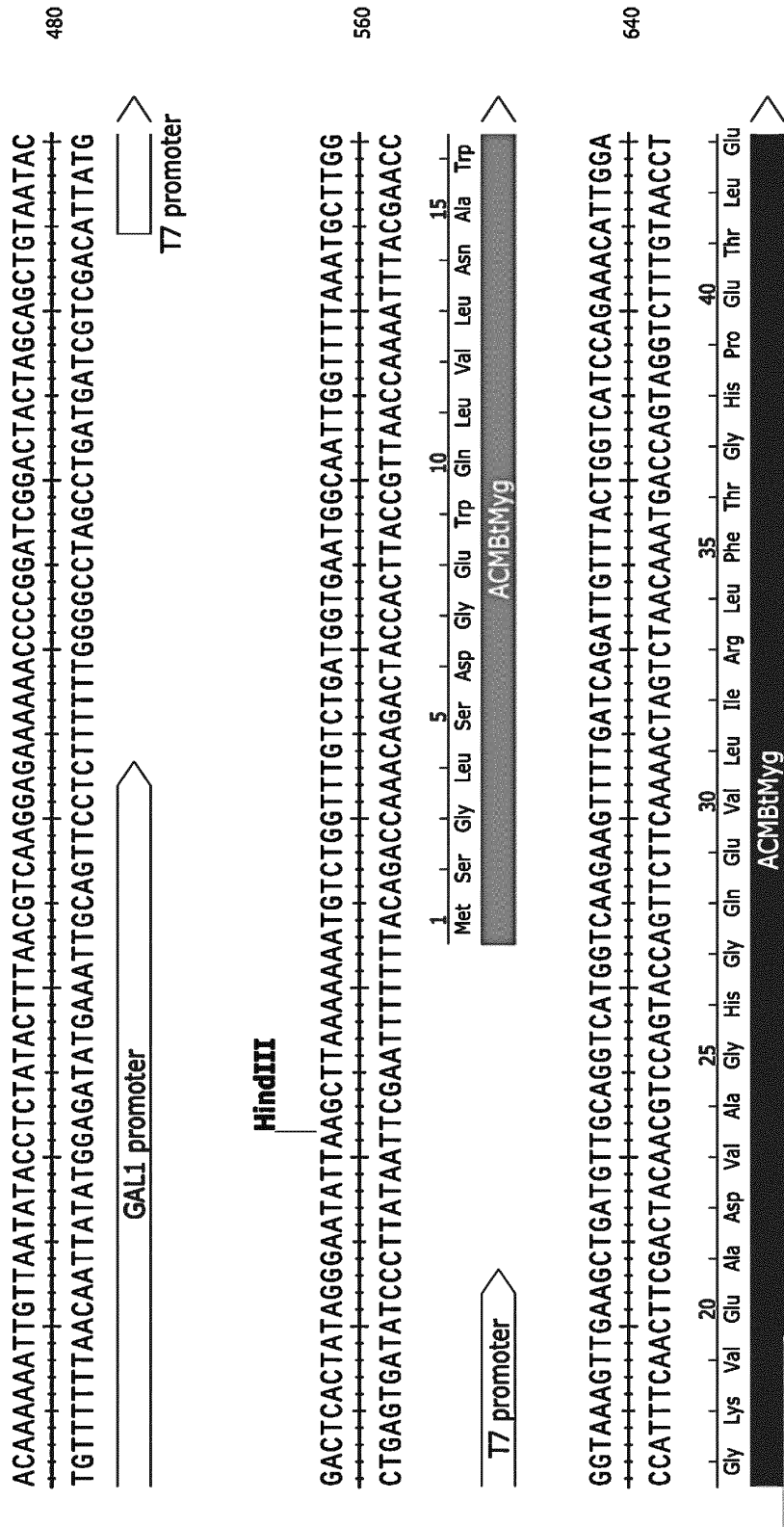


FIGURE 21 (cont.)

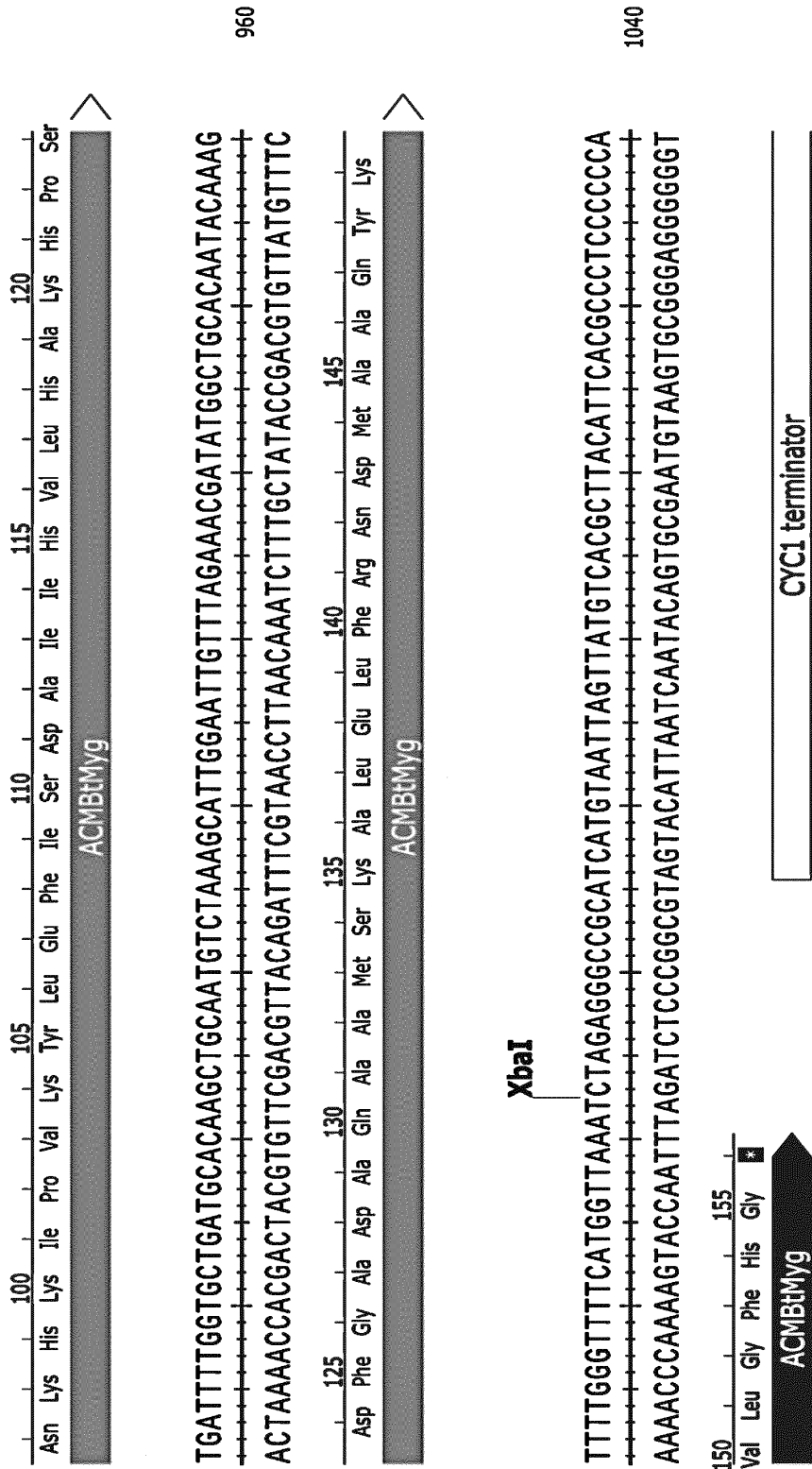


FIGURE 22

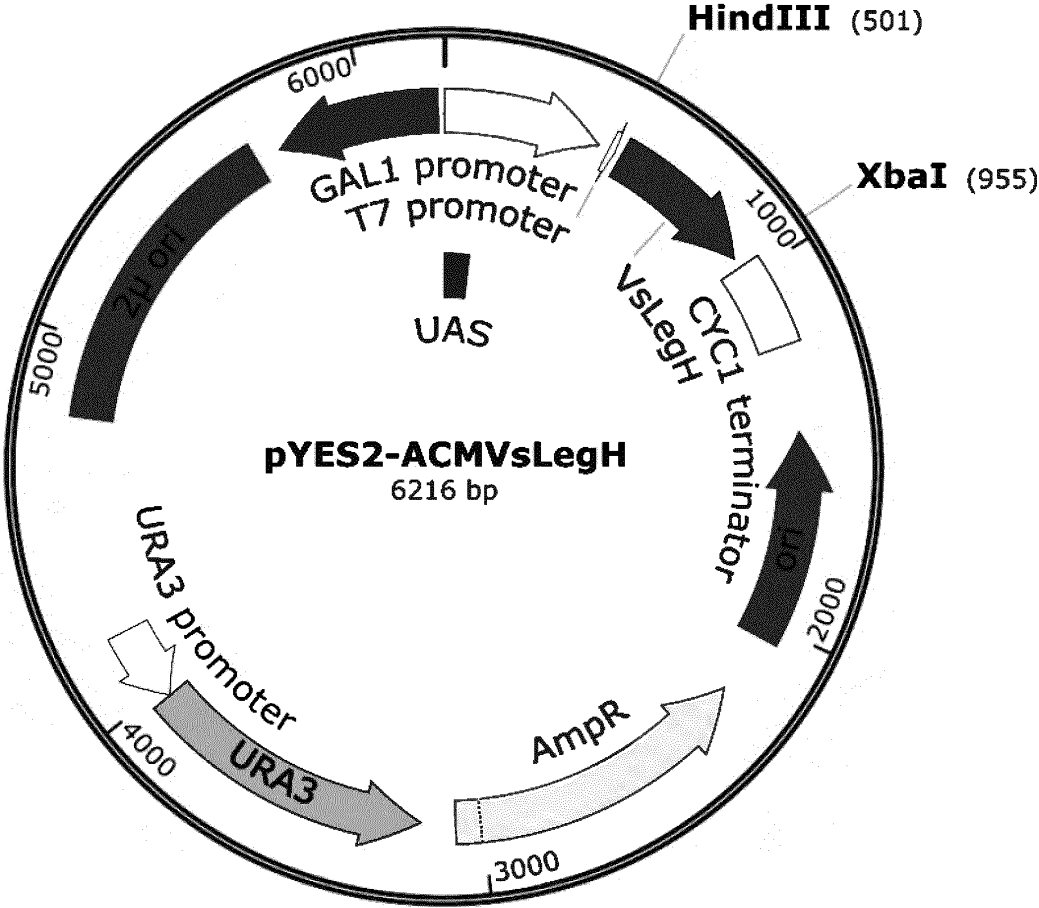


FIGURE 23

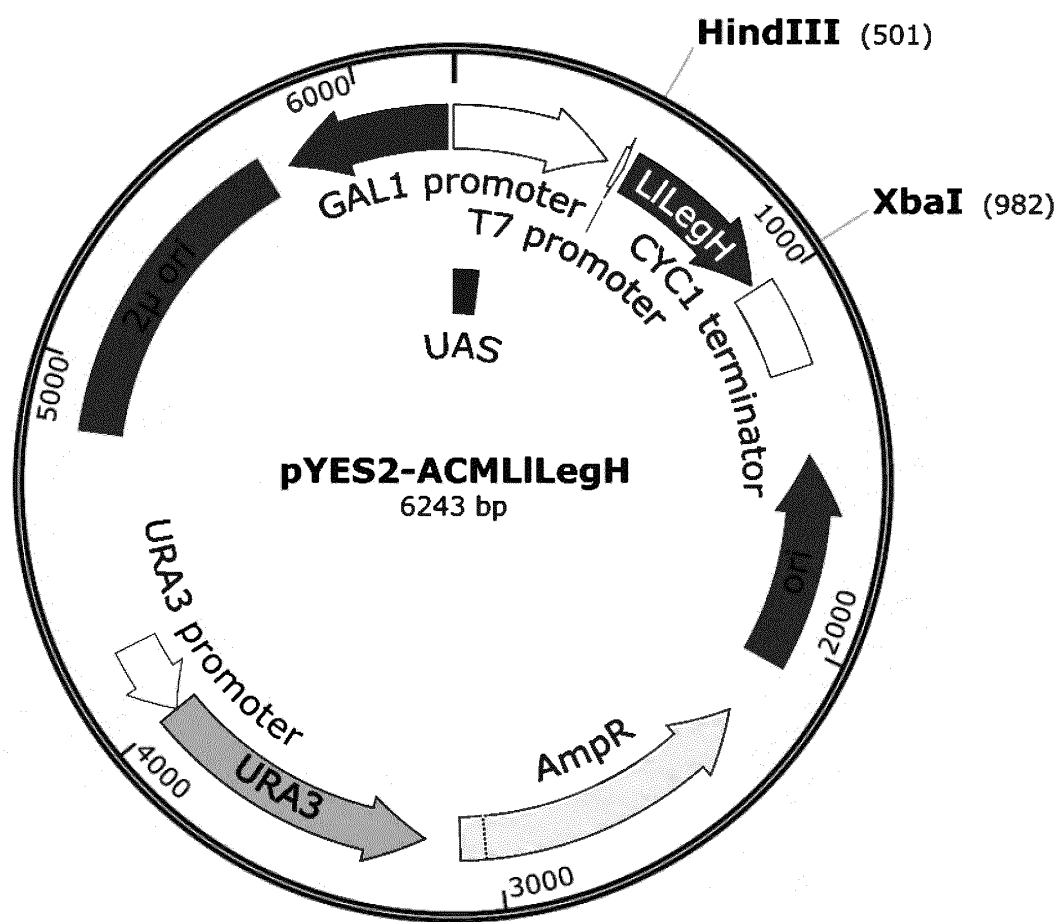


FIGURE 24

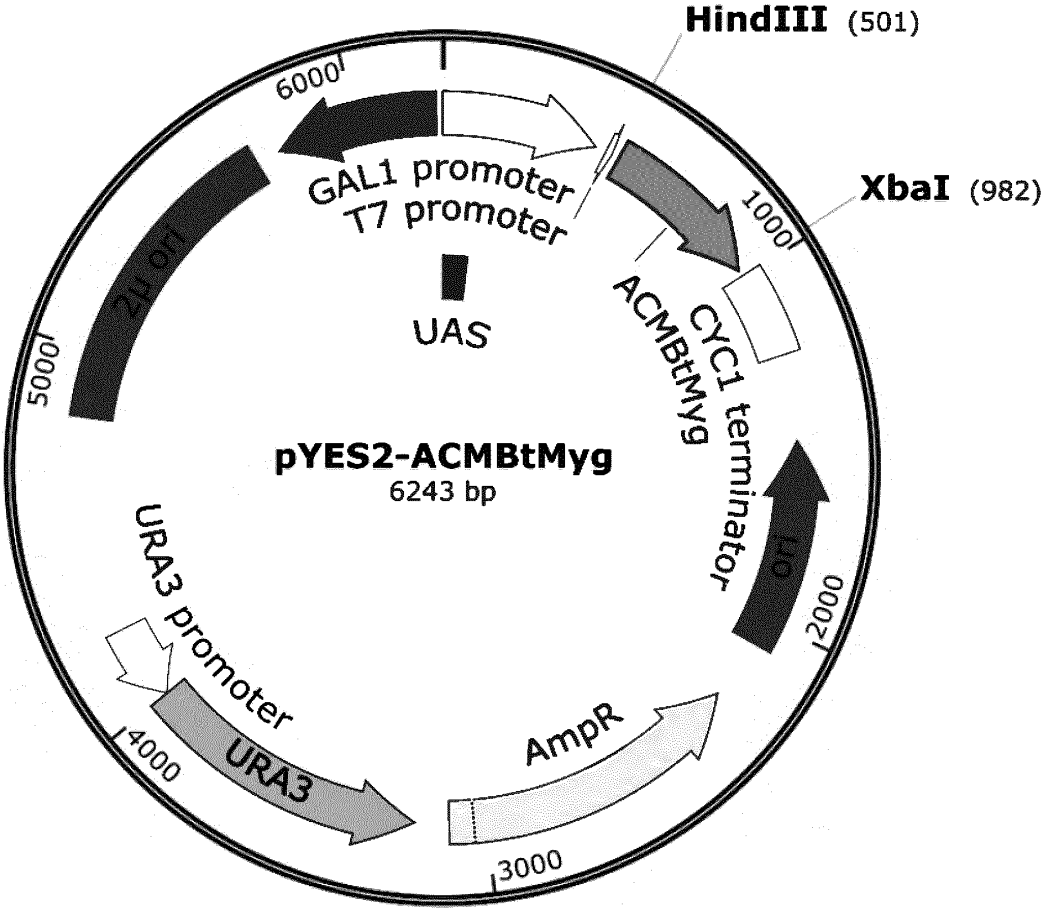


FIGURE 25

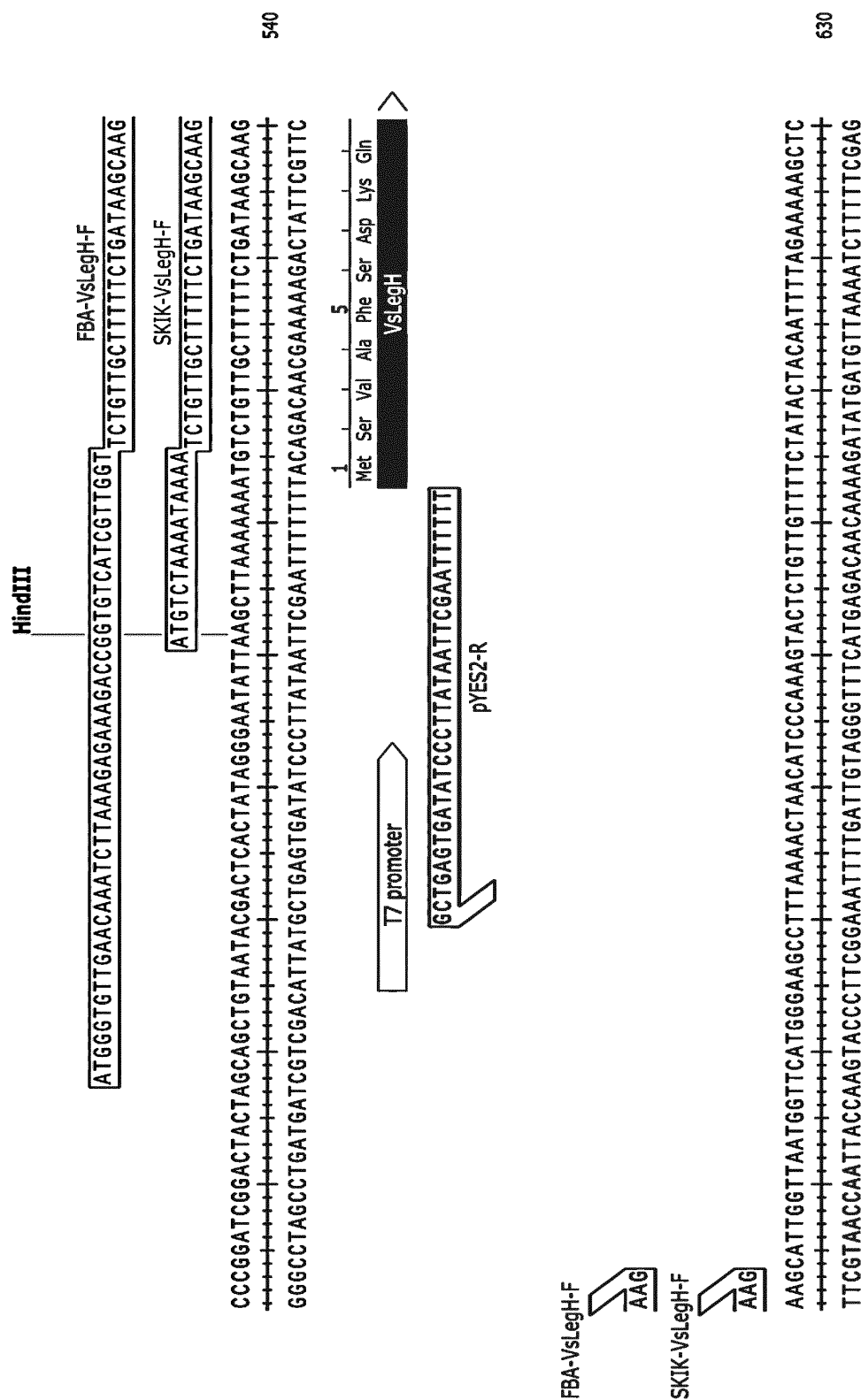


FIGURE 26

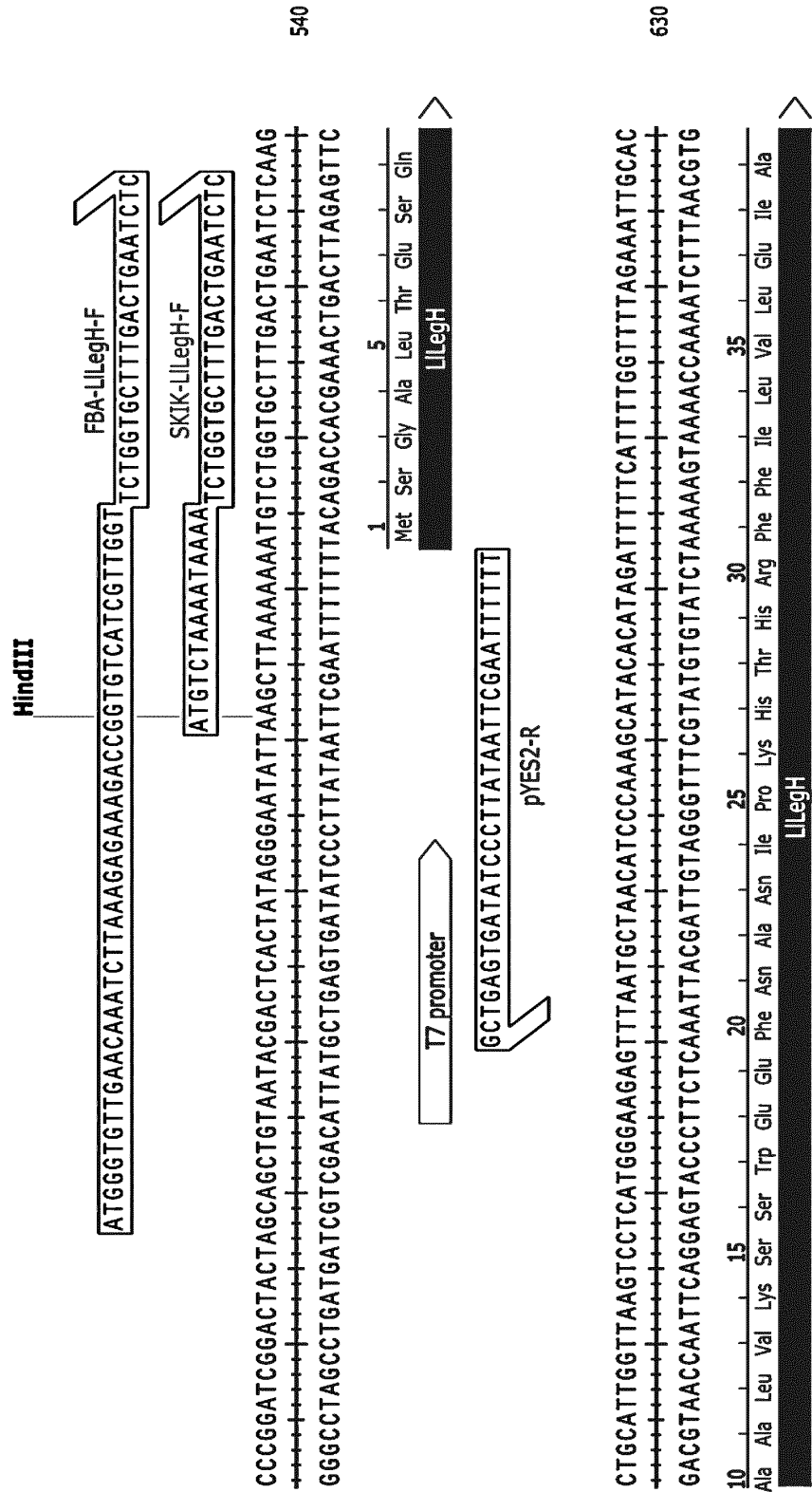


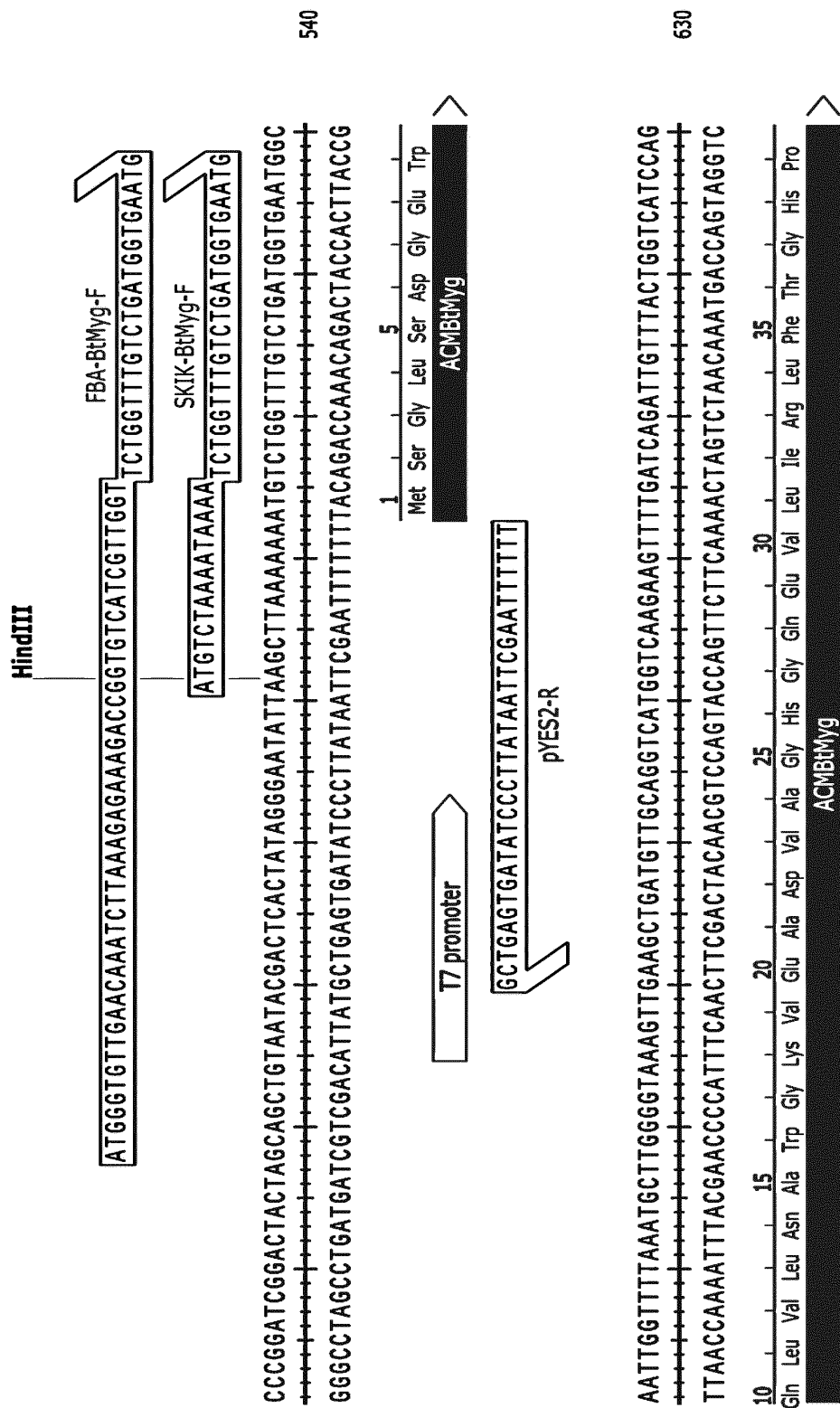
FIGURE 27

FIGURE 28

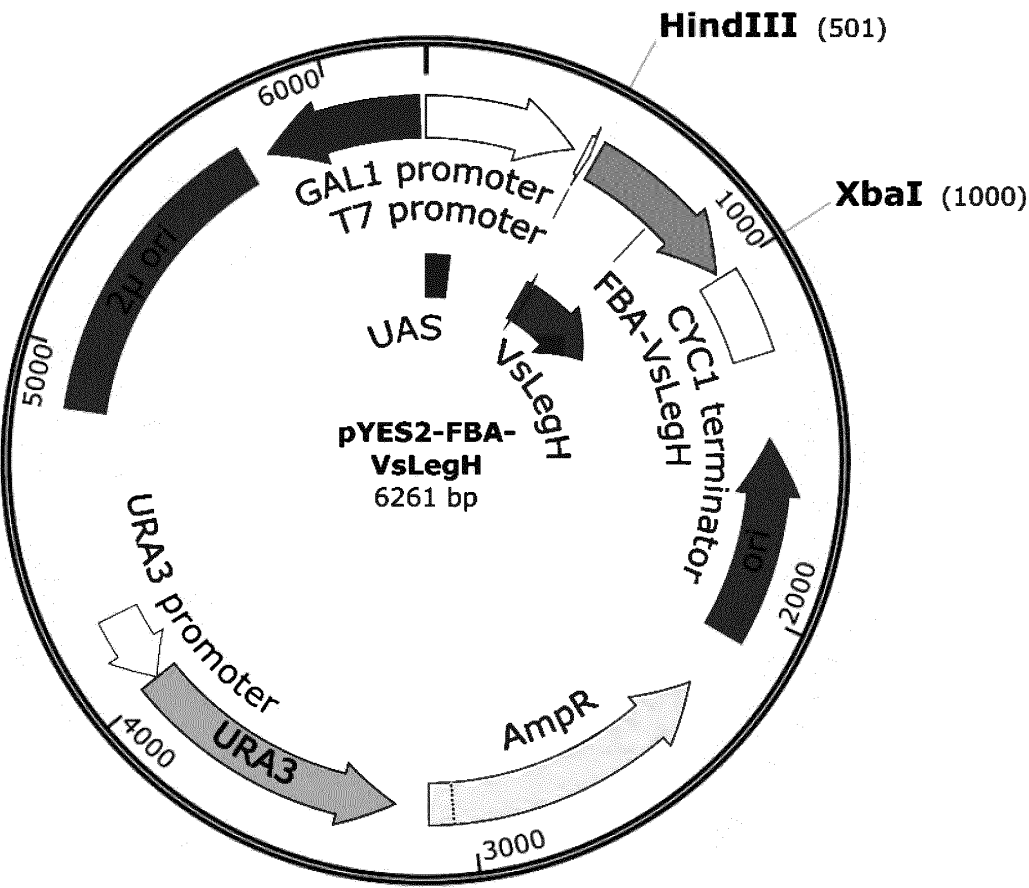


FIGURE 29

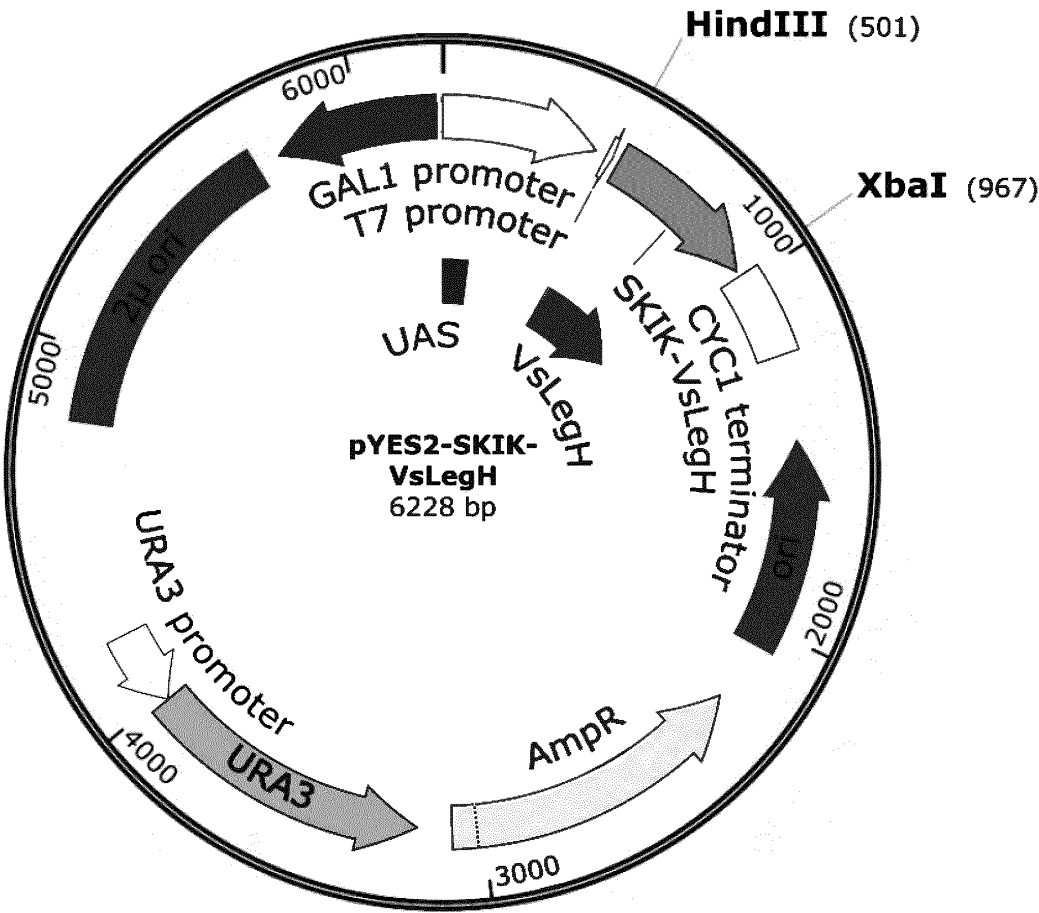


FIGURE 30

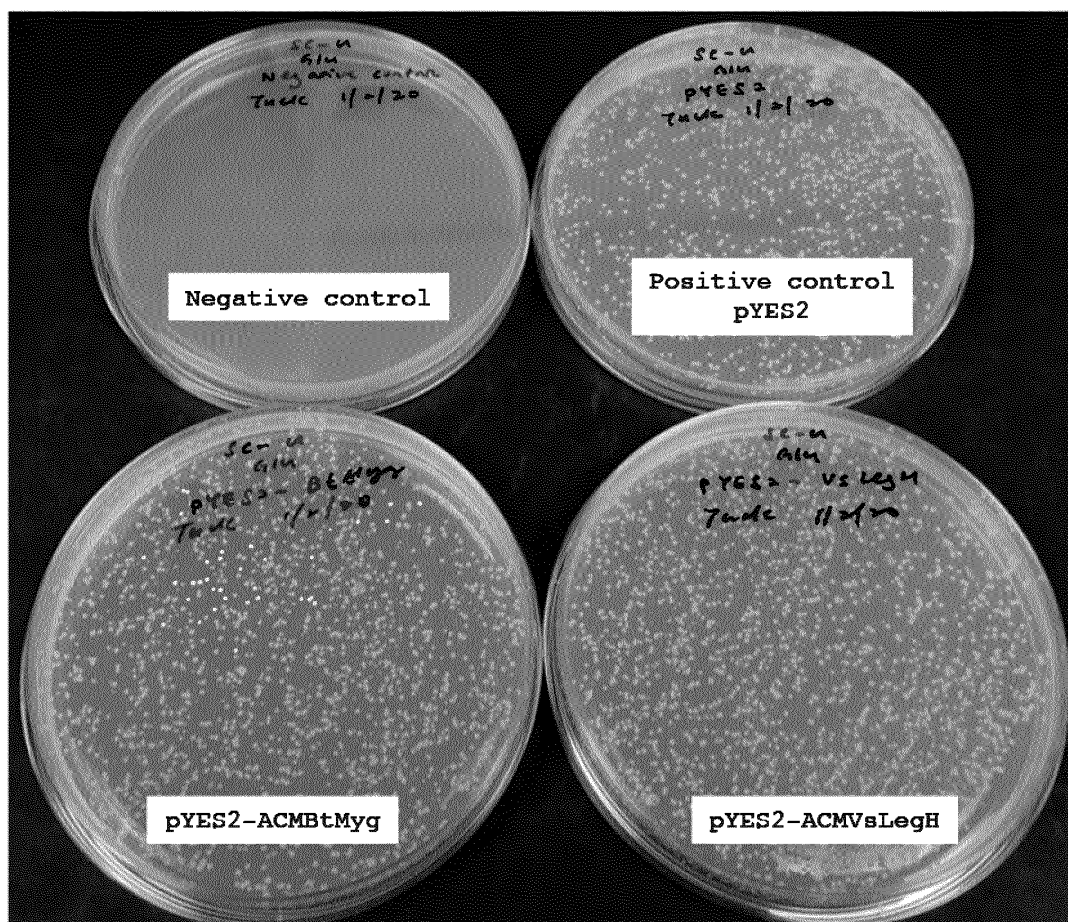
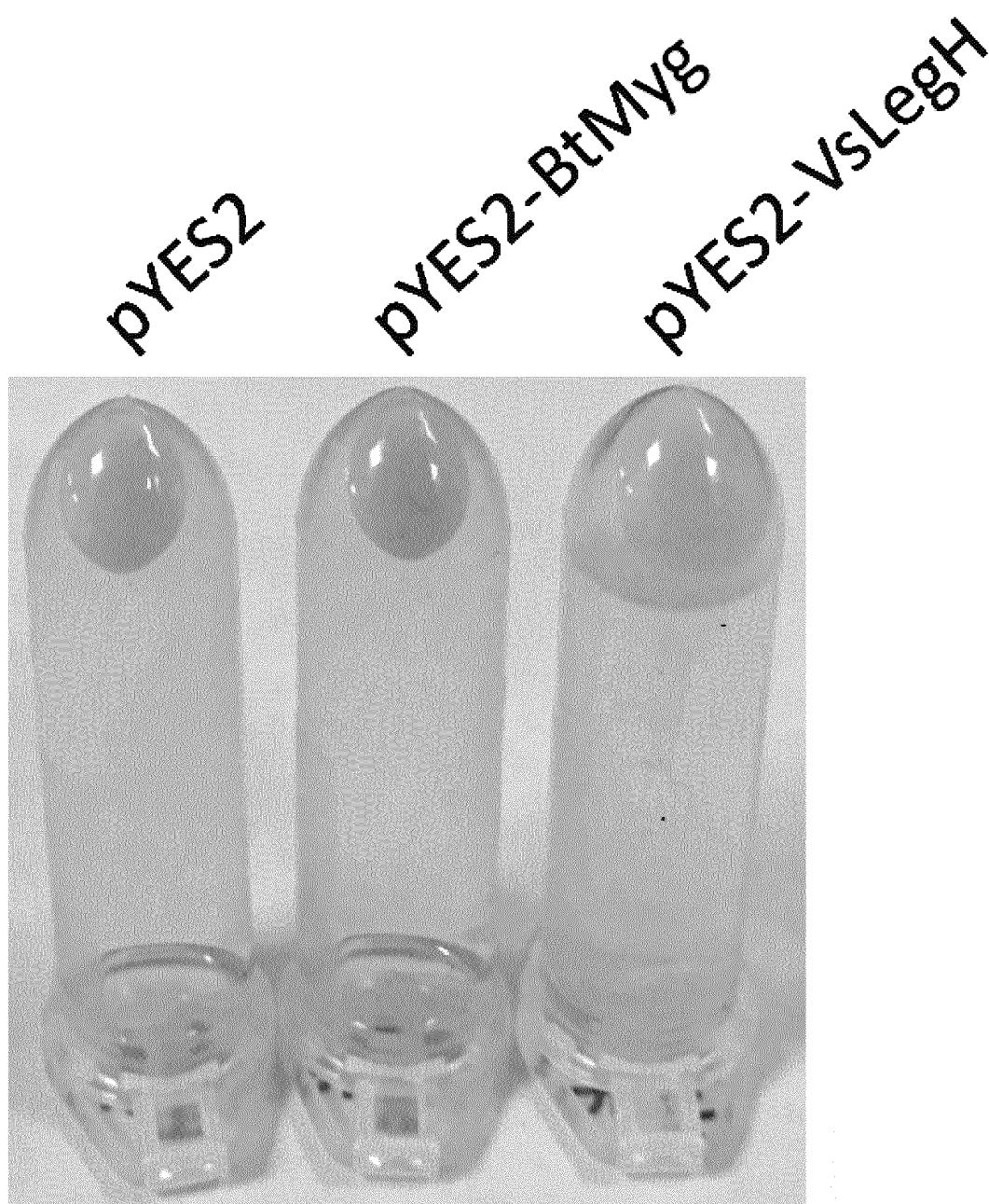


FIGURE 32



pYES2	pYES2- FBA-VsLegH	pYES2- SKIK-VsLegH
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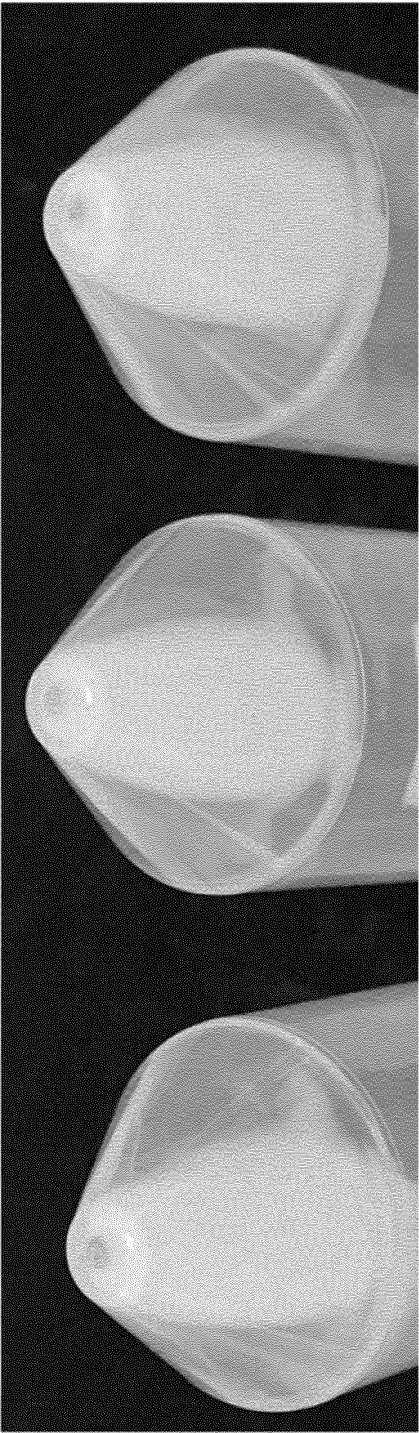


FIGURE 33

FIGURE 34

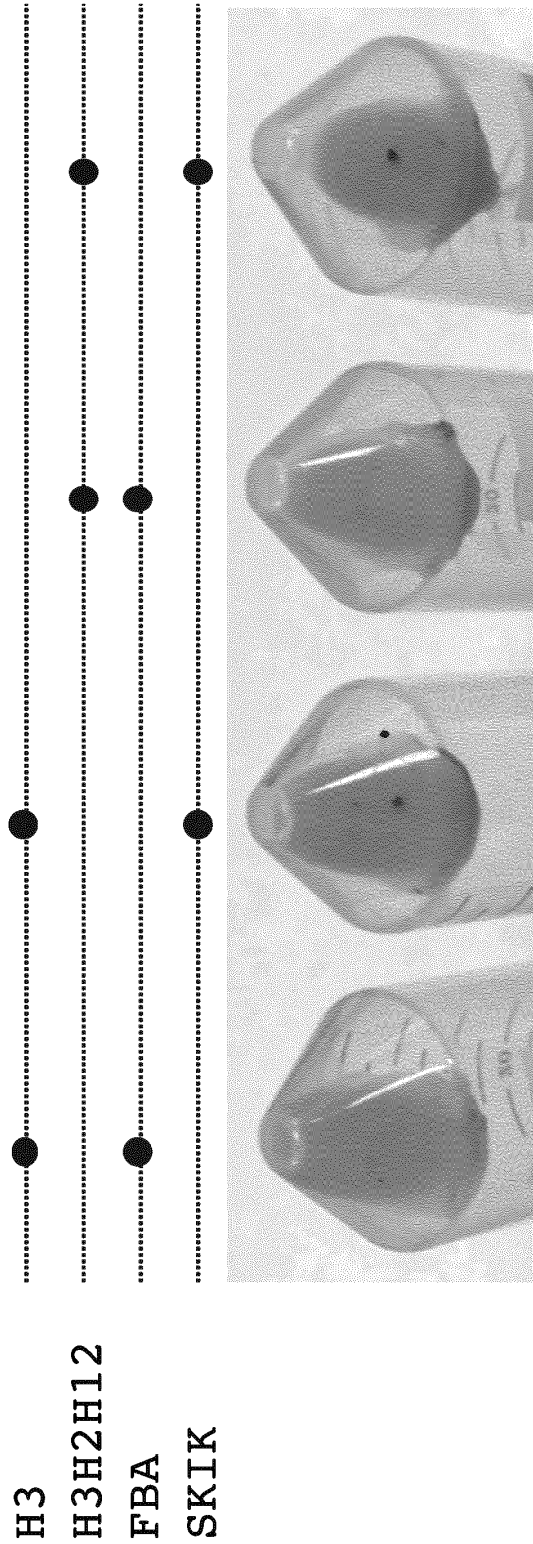
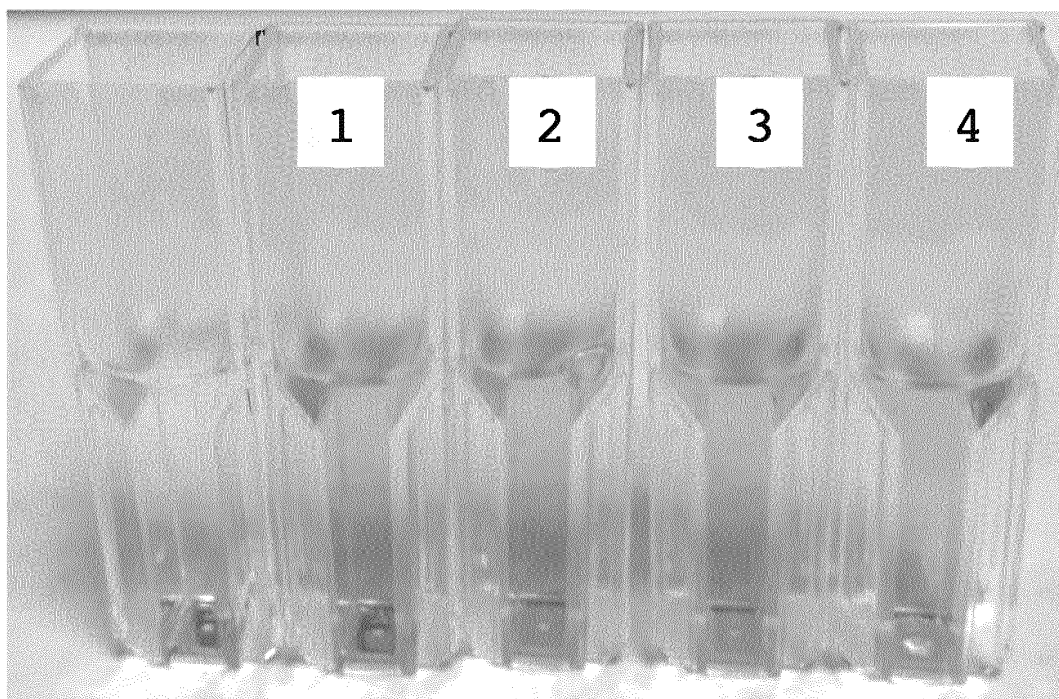
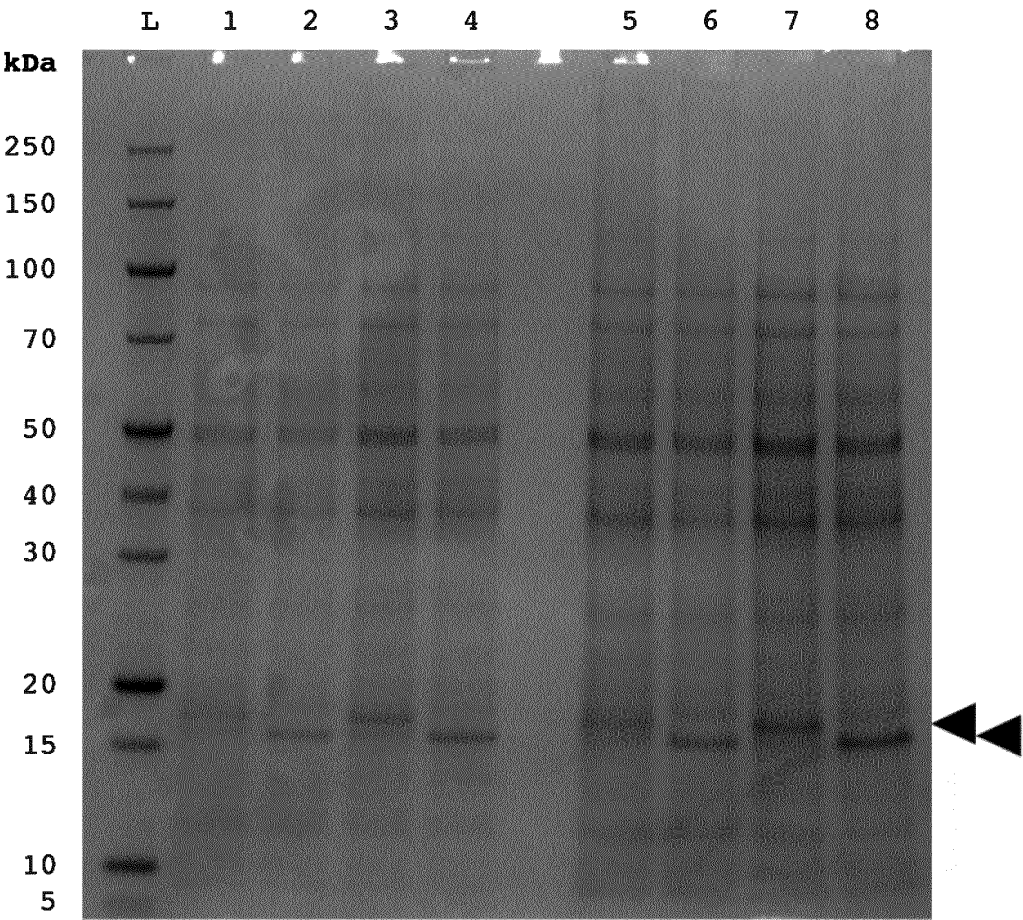


FIGURE 35



	Sample	Strain
	Y-PER	N/A
1	pYES2-FBA-VsLegH	H3
2	pYES2-SKIK-VsLegH	H3
3	pYES2-FBA-VsLegH	H3H2H12
4	pYES2-SKIK-VsLegH	H3H2H12

FIGURE 36



	Strain	N-terminal tag	Protein	Size [kDa]	Sample loading [μL]
1	H3	FBA	VsLegH	17771.35	5
2	H3	SKIK	VsLegH	15656.96	5
3	H3H2H12	FBA	VsLegH	17771.35	5
4	H3H2H12	SKIK	VsLegH	15656.96	5
5	H3	FBA	VsLegH	17771.35	10
6	H3	SKIK	VsLegH	15656.96	10
7	H3H2H12	FBA	VsLegH	17771.35	10
8	H3H2H12	SKIK	VsLegH	15656.96	10

FIGURE 37

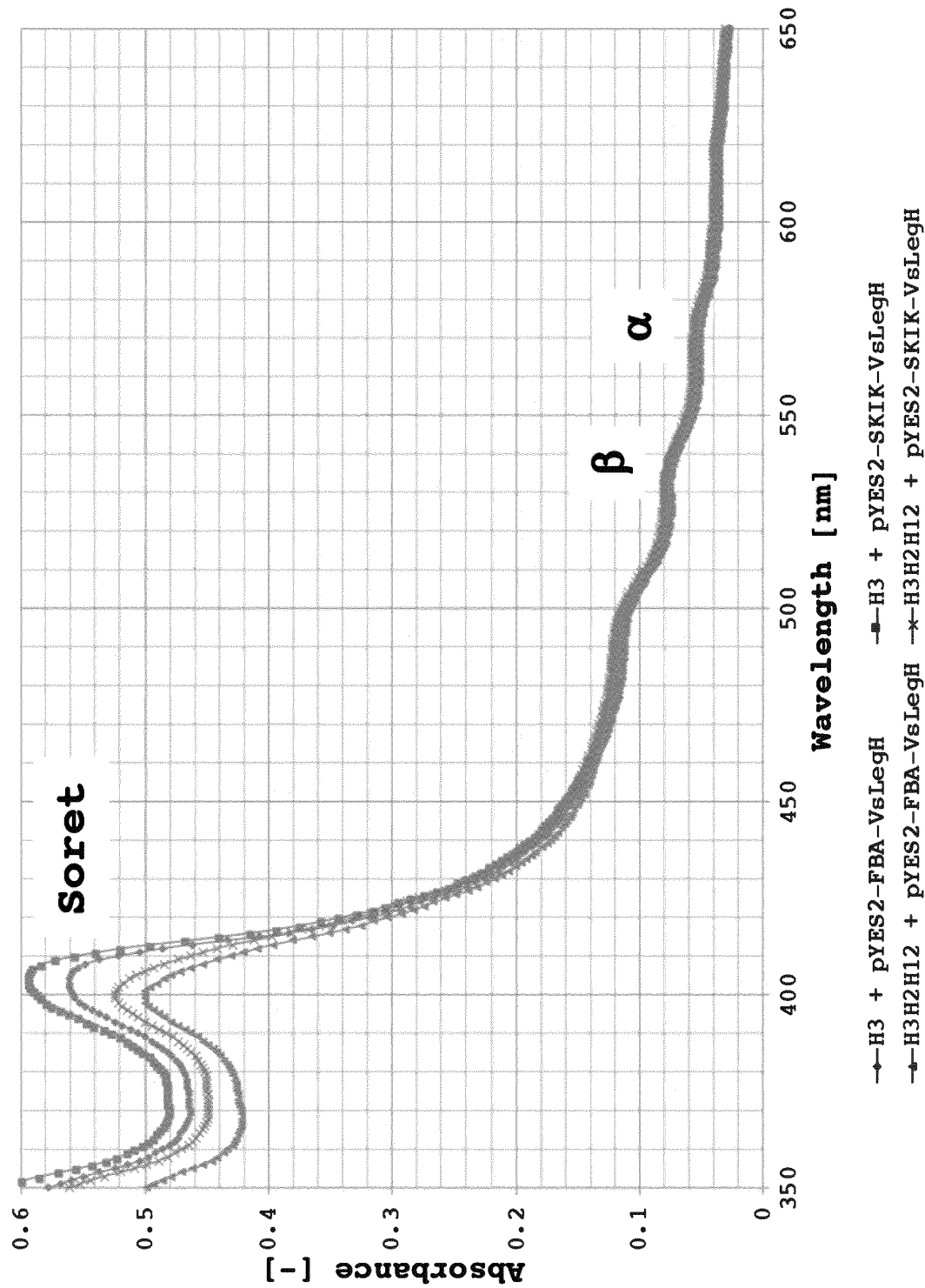


FIGURE 38

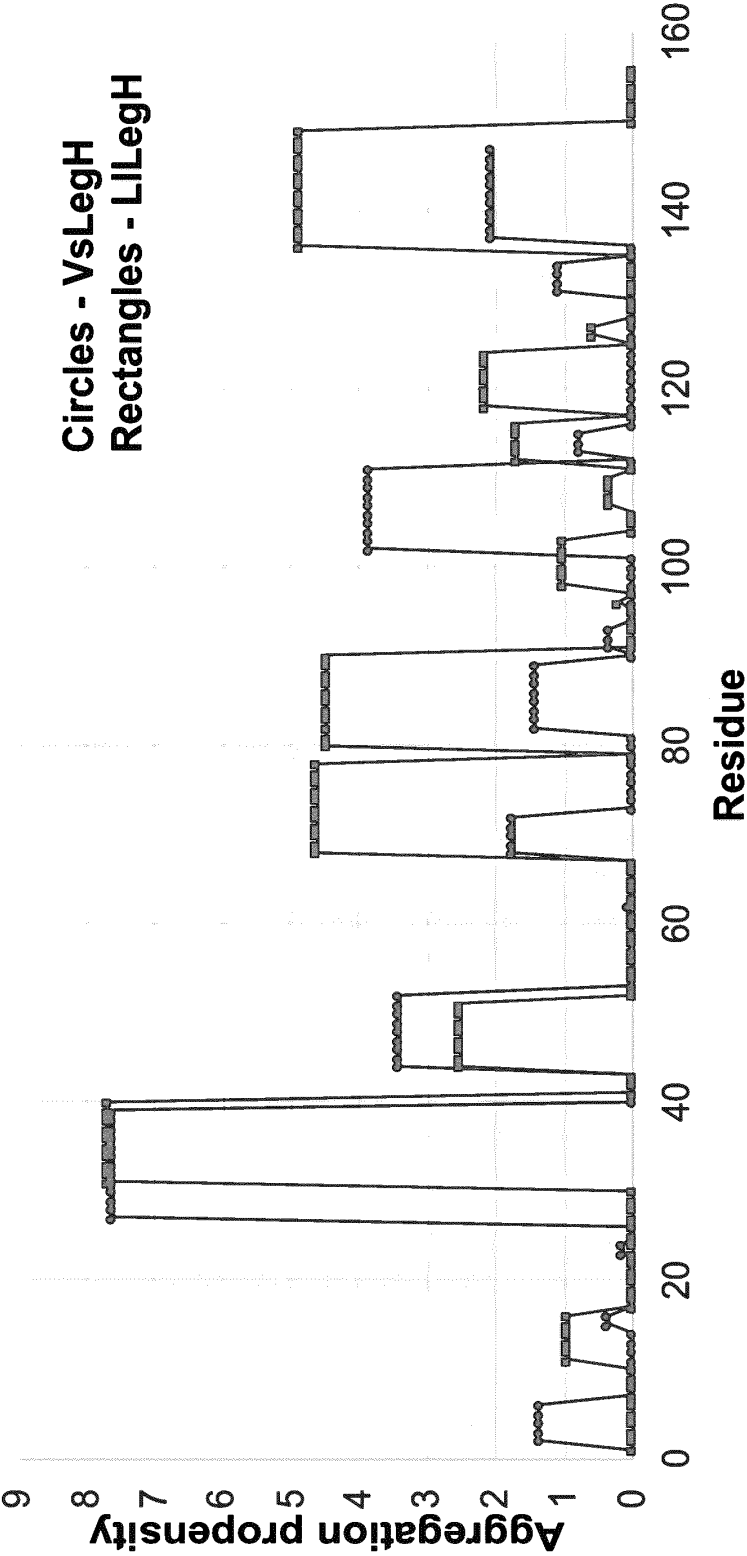


FIGURE 39

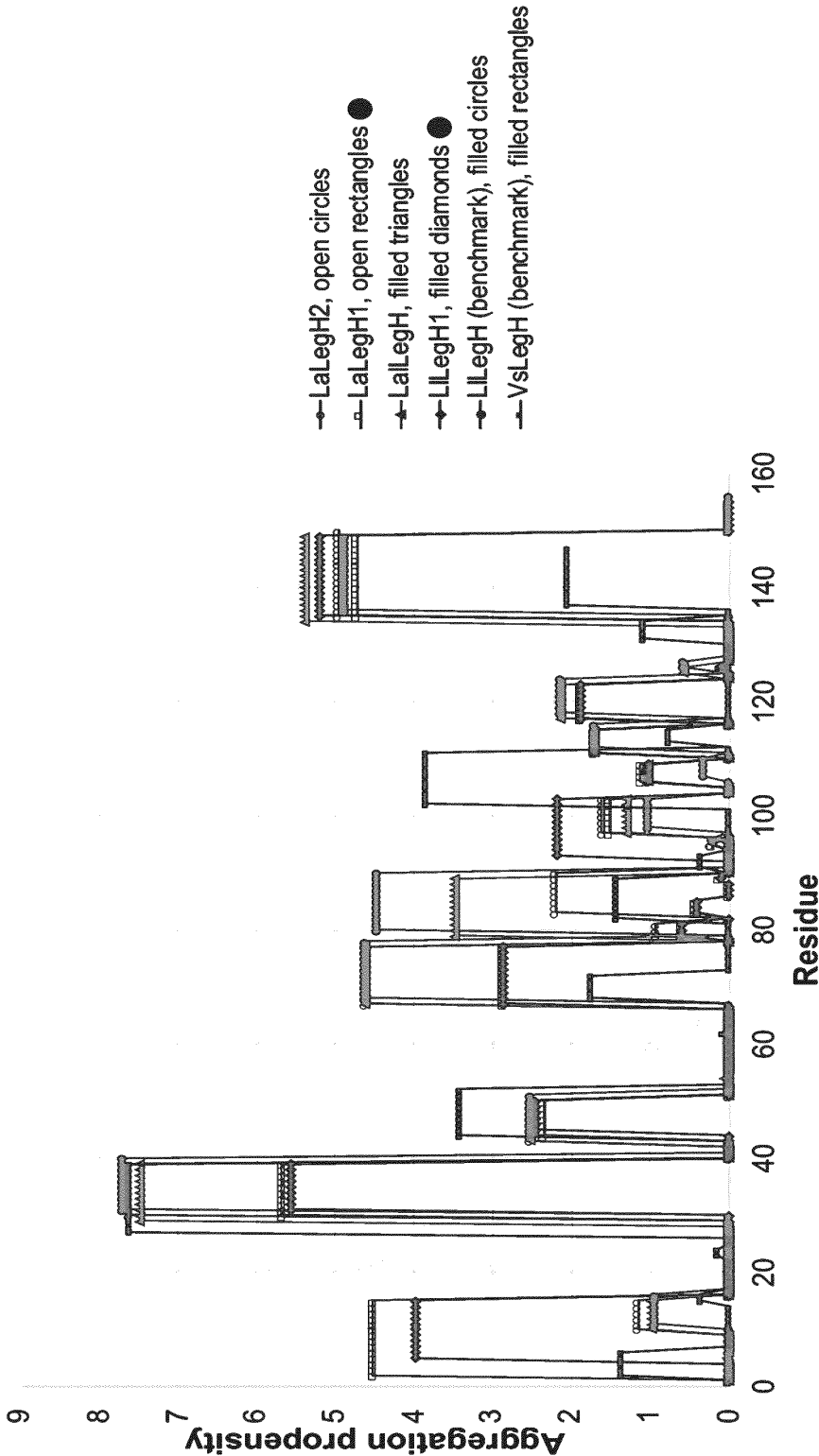


FIGURE 40

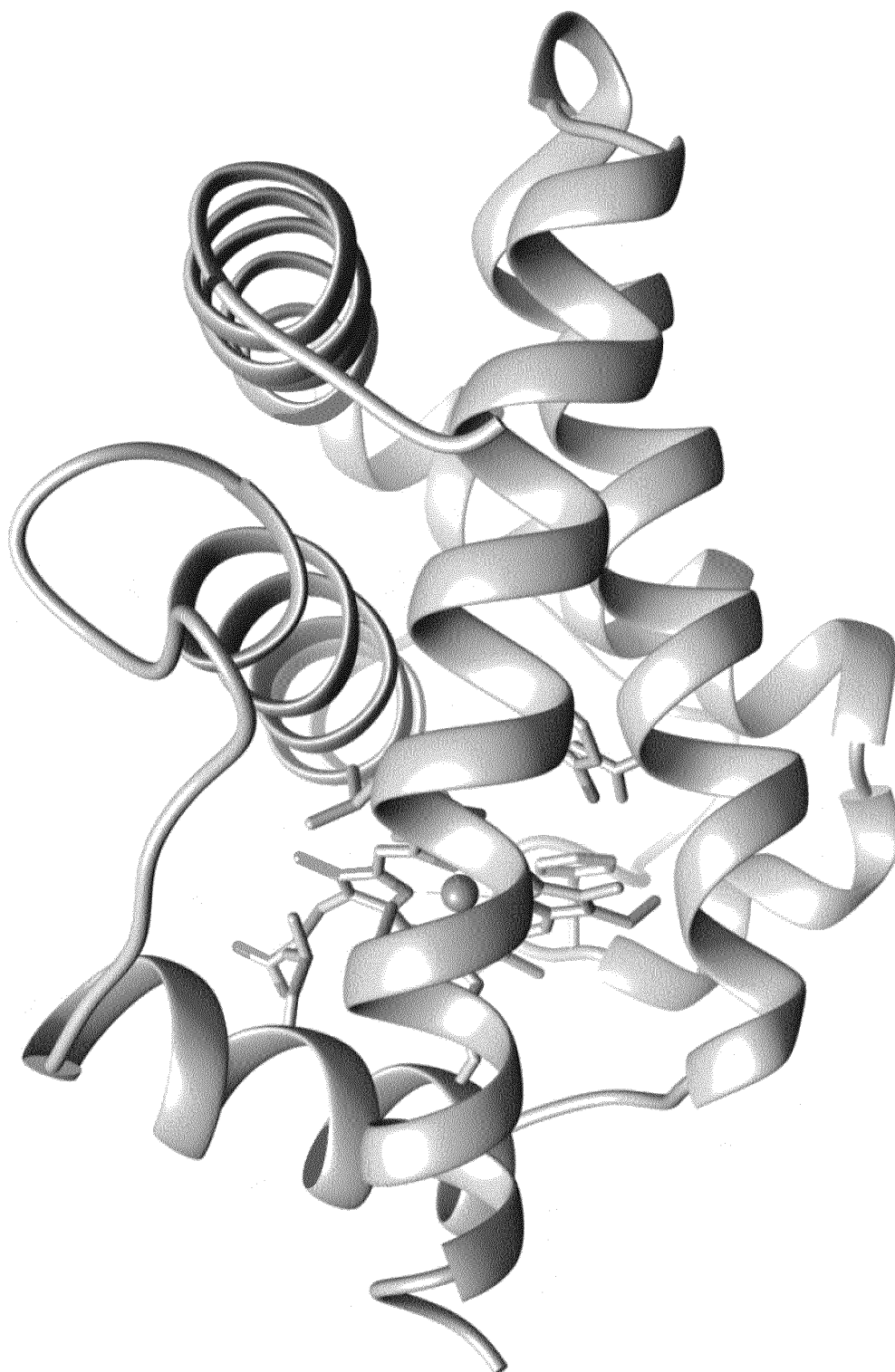


FIGURE 41

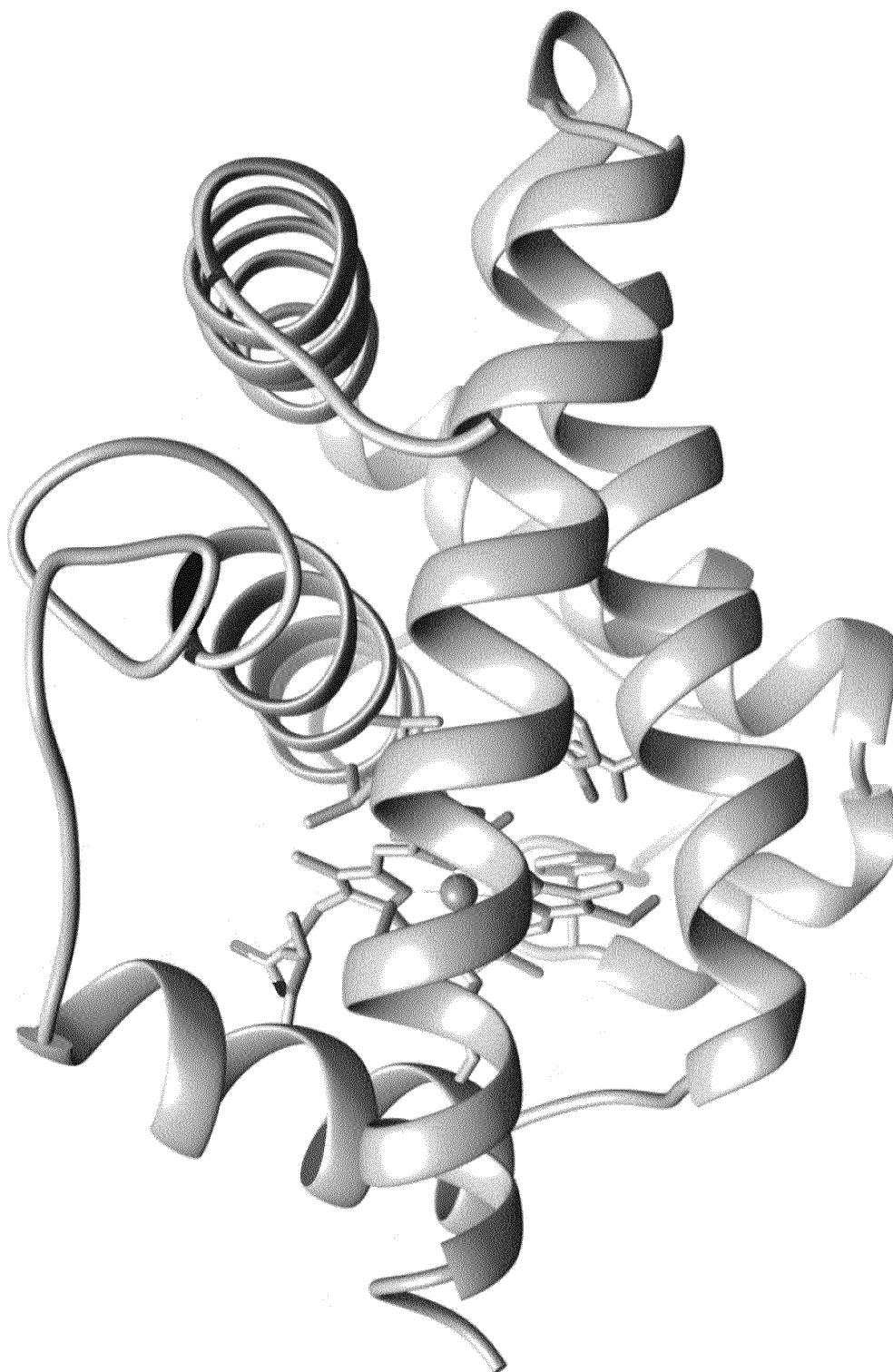


FIGURE 42

SB-AIM 2xTY+IPTG 2xTY+IPTG

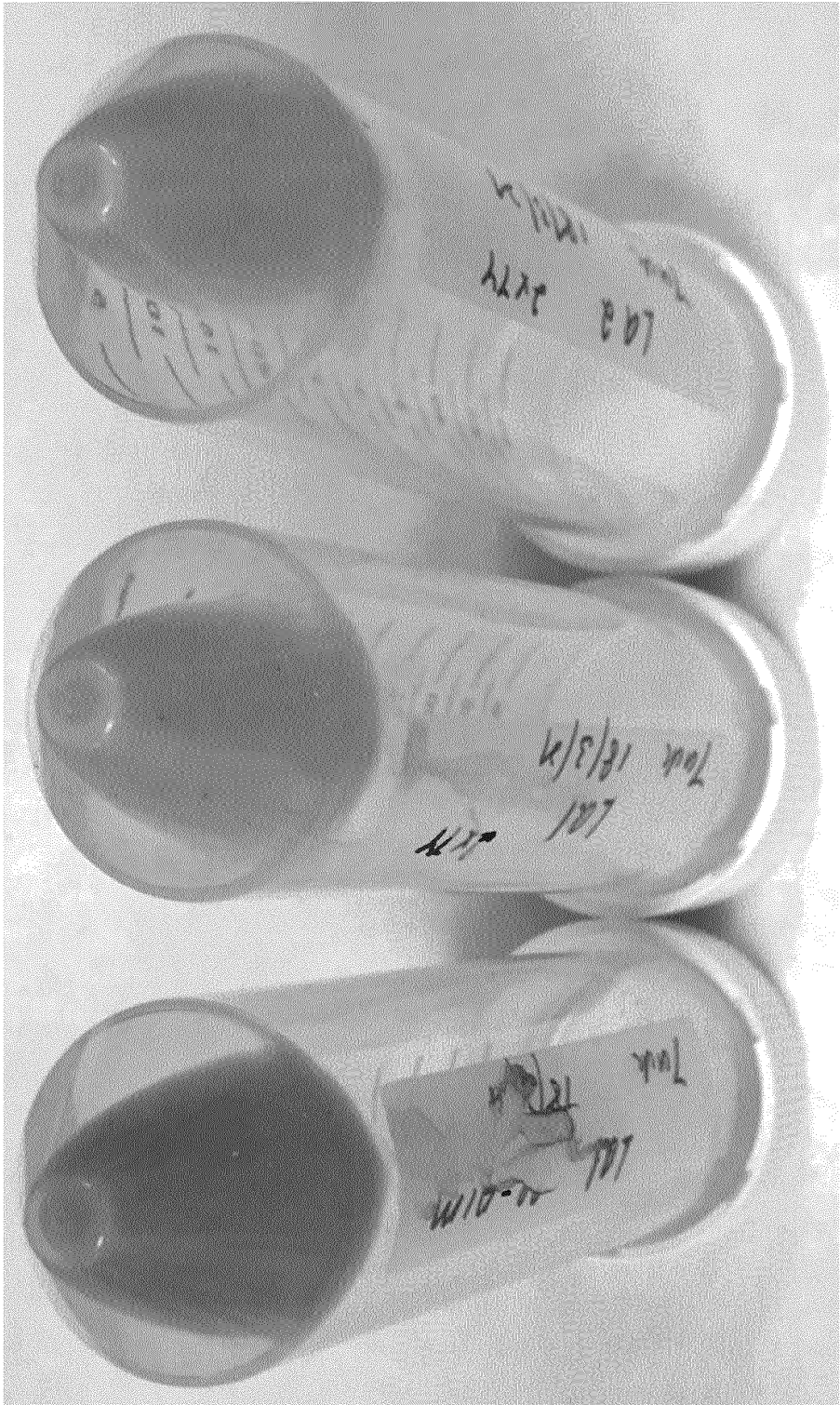


FIGURE 43

SB-AIM 2xTY+IPTG 2xTY+IPTG

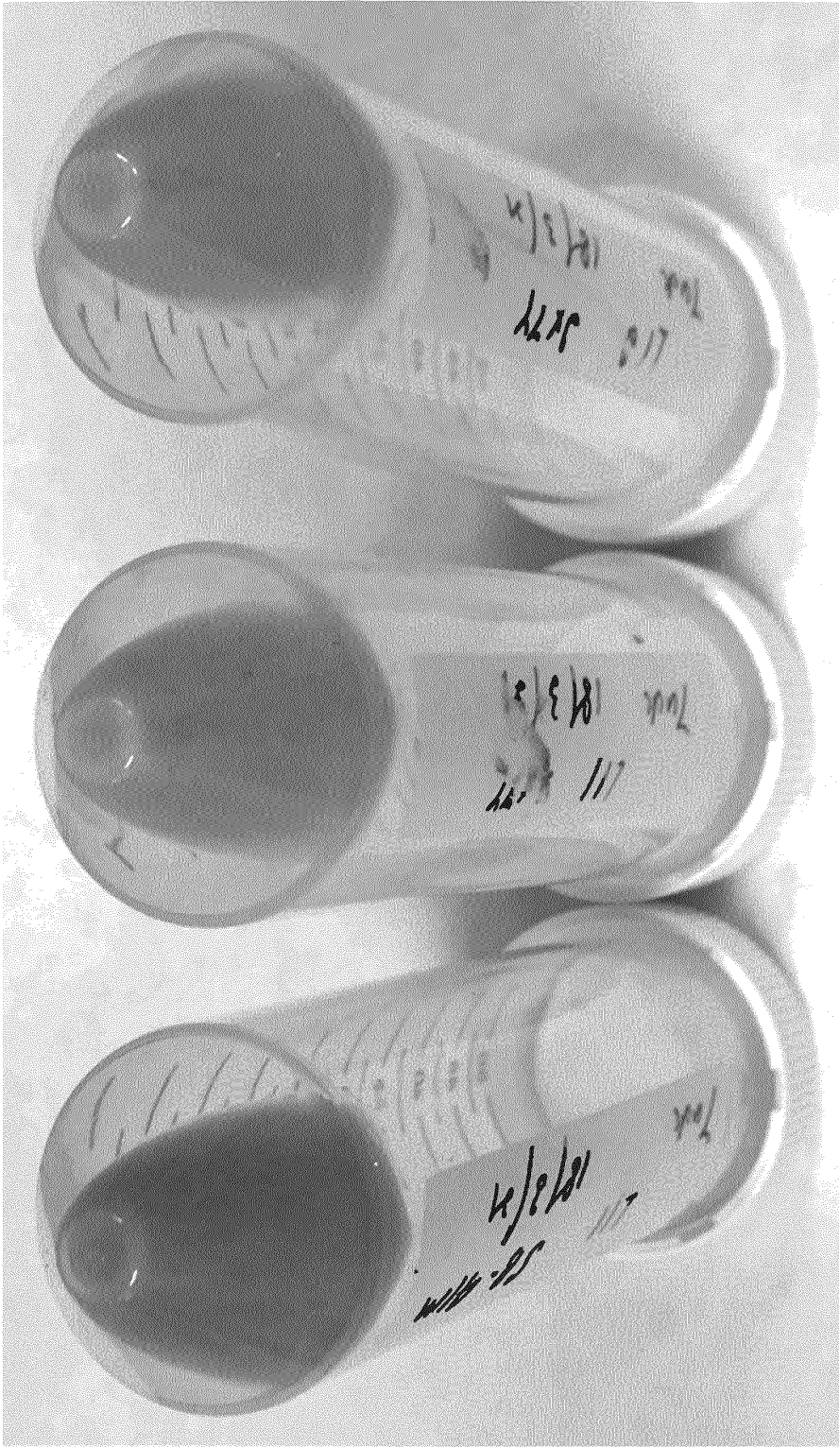


FIGURE 44

LiLegH1
SB AIM

LaLegH1
SB AIM



FIGURE 45

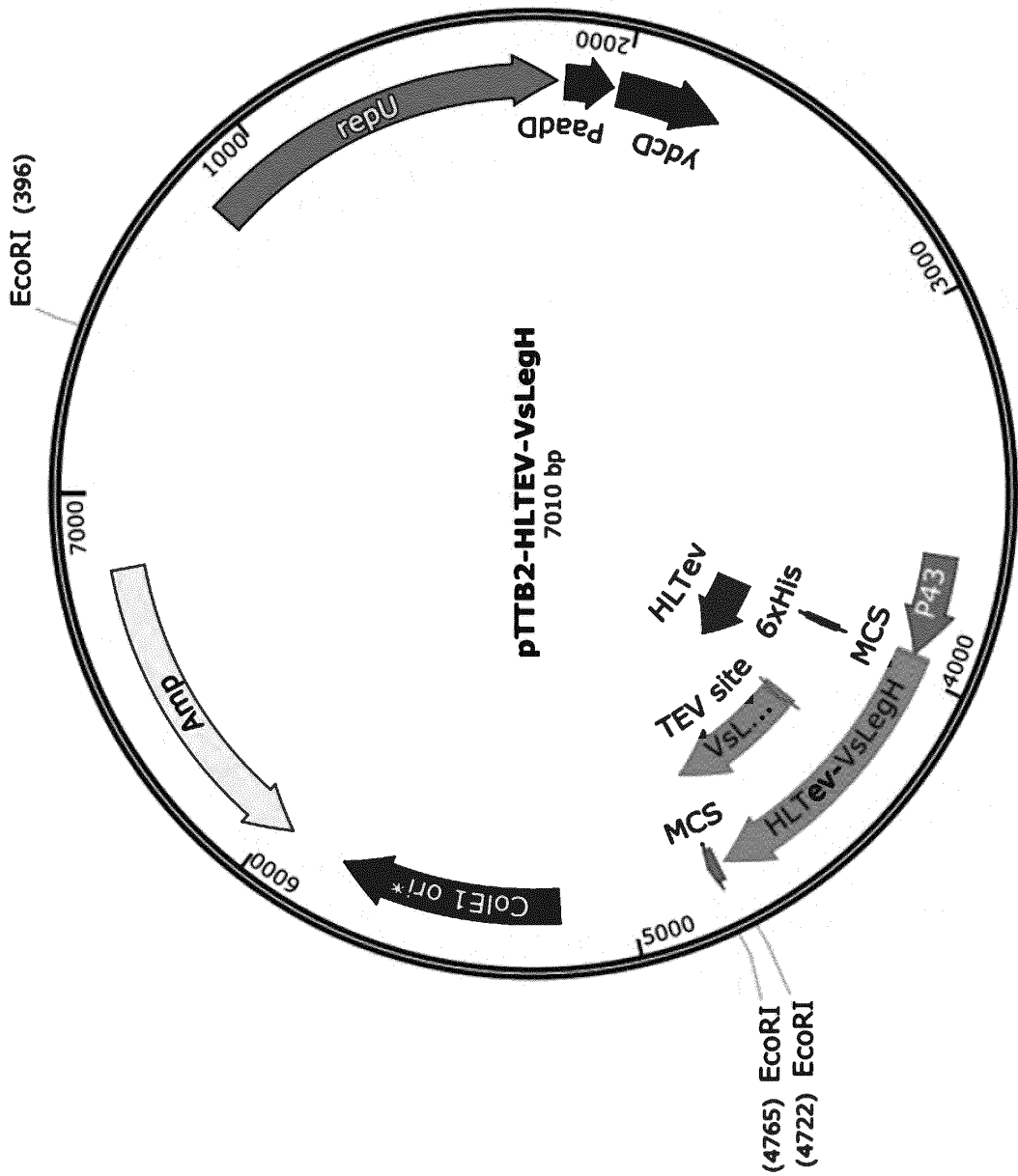


FIGURE 46

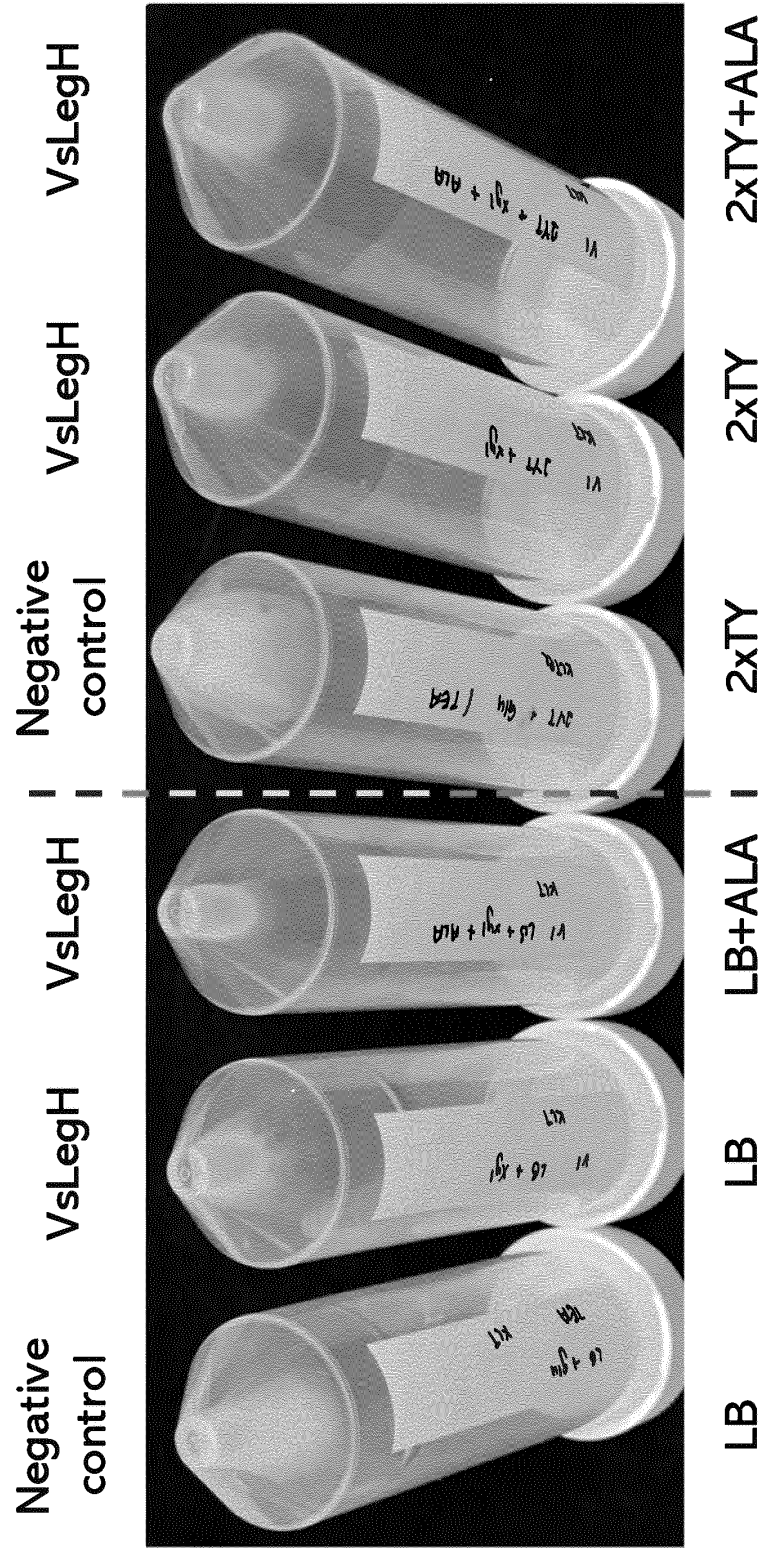


FIGURE 47

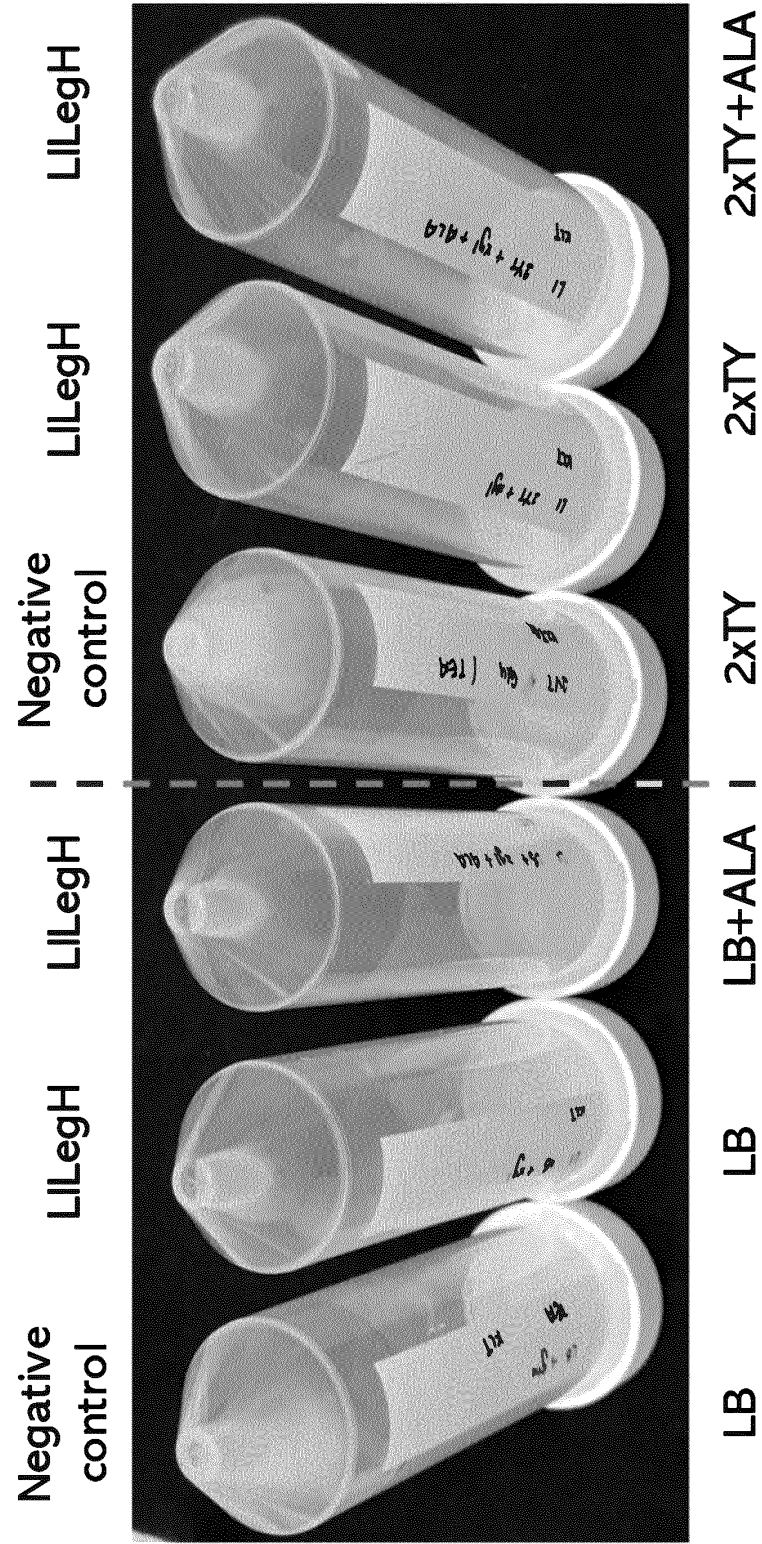


FIGURE 48

>Vs001352g0011.1
MVAFSDKQEQEALVNGSWEAFKTNIPKYSVVFYTTILEKAPAAKNLFSFLANGVDP SNPKLLAHAEKLFGLVRD SAAQLRAS
GTVVADAALGSVHSQKAVTDAQFLVVKEALVKTLKEAVGDKWSDELTTAVELAYDELA VAIKKAY *

>Vs001352g0009.1
MNRILEKAPAAKNLFSFLANGVDPSNP KLLAHAEKLFGLVRD SAAQLRASGTVVADAALGSVHSQKAVTDAQFLVVKEAL
VKTLKEAVGDKWSDELATAVELAYDELA VAIKKAY *

>Vs001352g0010.1
MVHGKHSRQTFNLNTVLSSTPREILEKAPAAKNLFSFLANGVDP SNPKLLAHAEKLFGLVRD SAAQLRASGTVVADAALGS
VHSQKAVTDAQFLVVKEALVKTLKEAVGDKWSDELATAVELAYDELAQEQQLVNSSWEAFKGNLSHNSATFFNLVLEKEP
GAKNLF SFLGDGVD PNNPKIAAHAEKLF GTVVRDAAVOLKTKGEVVAEAKLGSVHA EKKVTD PQFAVIKEA VLKTIKEAVG
EKWNEEVNDAWAQAYDAMAAA I KKTIA *

>Vs108178g0061.1
MNRILEKAPIAKNLFSFLANGVDPSNP KLVAHAEKLFGLVRD SAAQLRASGTVVADAALGSVHSQKAVTDAQYLIPLVTI
VLW*

FIGURE 49

Vs108178g0061.1	-----MNRILEKAPIAKNLFSLFANGVDPSNPCLV	30
Vs001352g0010.1	-----MVHGKHSR-QTFLNTVLSSTPREILEKAPAAKNLFSLFANGVDPSNPCLL	49
Vs001352g0011.1	MVAFSDKQEALVNGSWEAFKTNIPKYSVVFTTILEKAPAAKNLFSLFANGVDPSNPCLL	60
Vs001352g0009.1	-----MNRILEKAPAAKNLFSLFANGVDPSNPCLL	30
	***** *****	
	H62	
Vs108178g0061.1	-----AHAEKLFGGLVRDSAAQLRASGTVVADAALGSVHSQKAVTDAQYLIPLVTVILW*-----	83
Vs001352g0010.1	-----AHAEKLFGGLVRDSAAQLRASGTVVADAALGSVHSQKAVTDAQFLVVKALVKTLKEAVGD	109
Vs001352g0011.1	-----AHAEKLFGGLVRDSAAQLRASGTVVADAALGSVHSQKAVTDAQFLVVKALVKTLKEAVGD	120
Vs001352g0009.1	-----AHAEKLFGGLVRDSAAQLRASGTVVADAALGSVHSQKAVTDAQFLVVKALVKTLKEAVGD	90
	***** *****	
	H93	
Vs108178g0061.1	-----KWSDELATAVELAYDELAKEQLVNSSWEAFKGNLSHNSATFFNLVLEKEPGAKNLFSL	83
Vs001352g0010.1	-----KWSDELTTAVELAYDELAVAIKKAY*-----	169
Vs001352g0011.1	-----KWSDELATAVELAYDELAVAIKKAY*-----	145
Vs001352g0009.1	-----KWSDELATAVELAYDELAVAIKKAY*-----	115

Vs108178g0061.1	-----GDGVDPNPKIAAAHAEKLFGTVRDAAVQLKTKGEVVAEAKLGSVHAEKKVTDPPQFAVIKE	83
Vs001352g0010.1	-----	229
Vs001352g0011.1	-----	145
Vs001352g0009.1	-----	115

Vs108178g0061.1	-----	83
Vs001352g0010.1	-----AVLKTIKEAVGEKWNEEVNDAWAQAYDAMAAAIAIKKTIA*	267
Vs001352g0011.1	-----	145
Vs001352g0009.1	-----	115

FIGURE 50

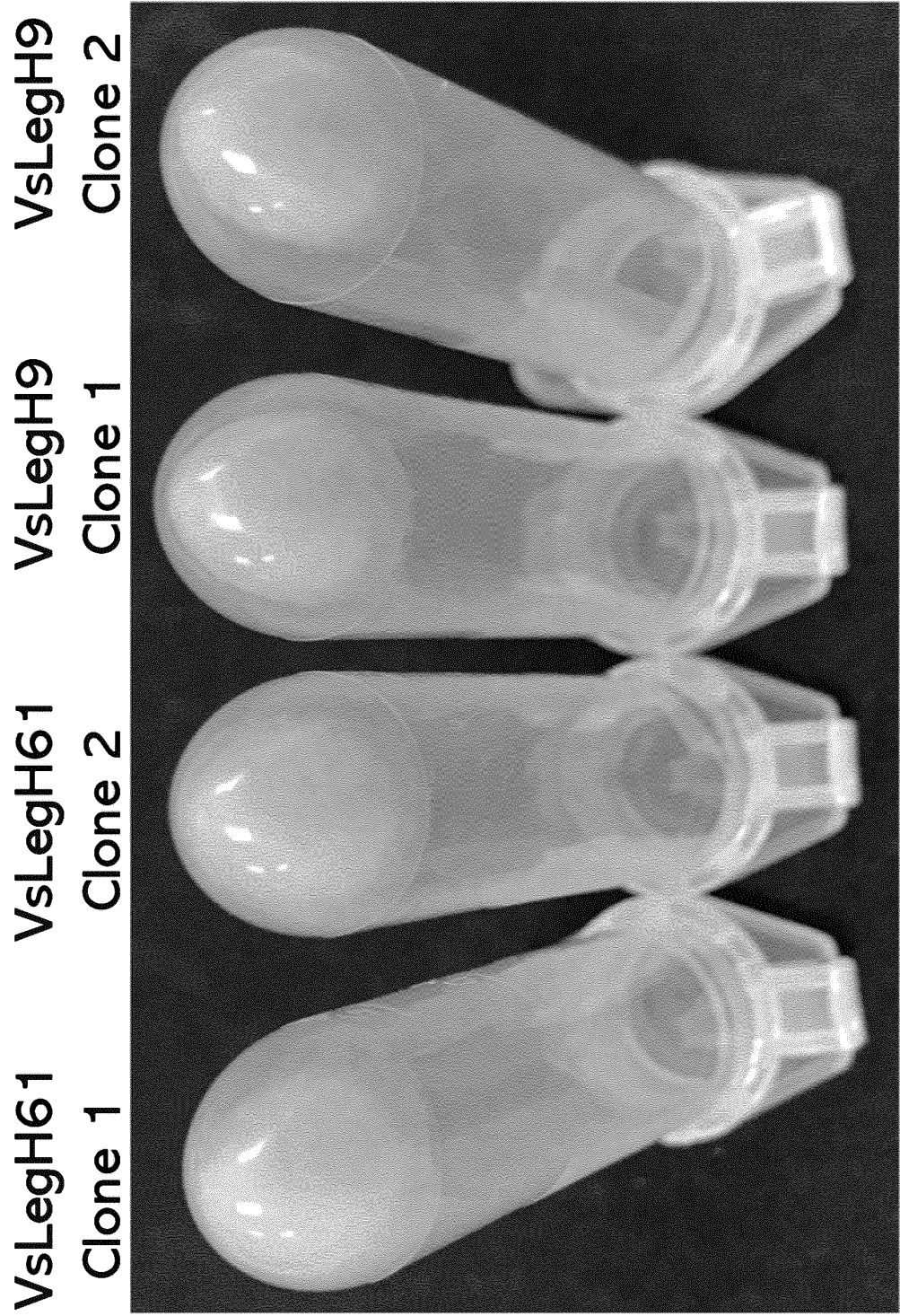
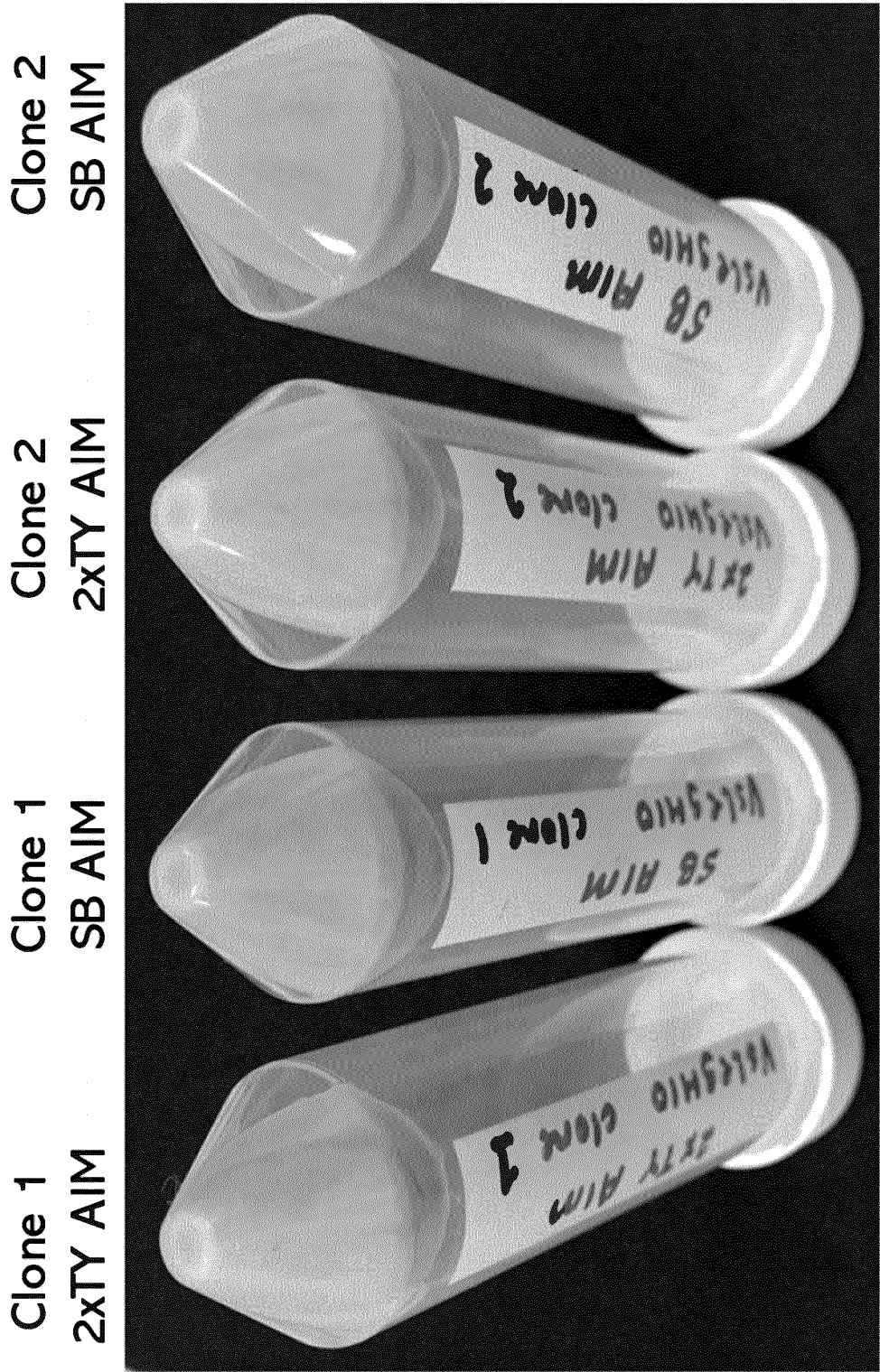


FIGURE 51



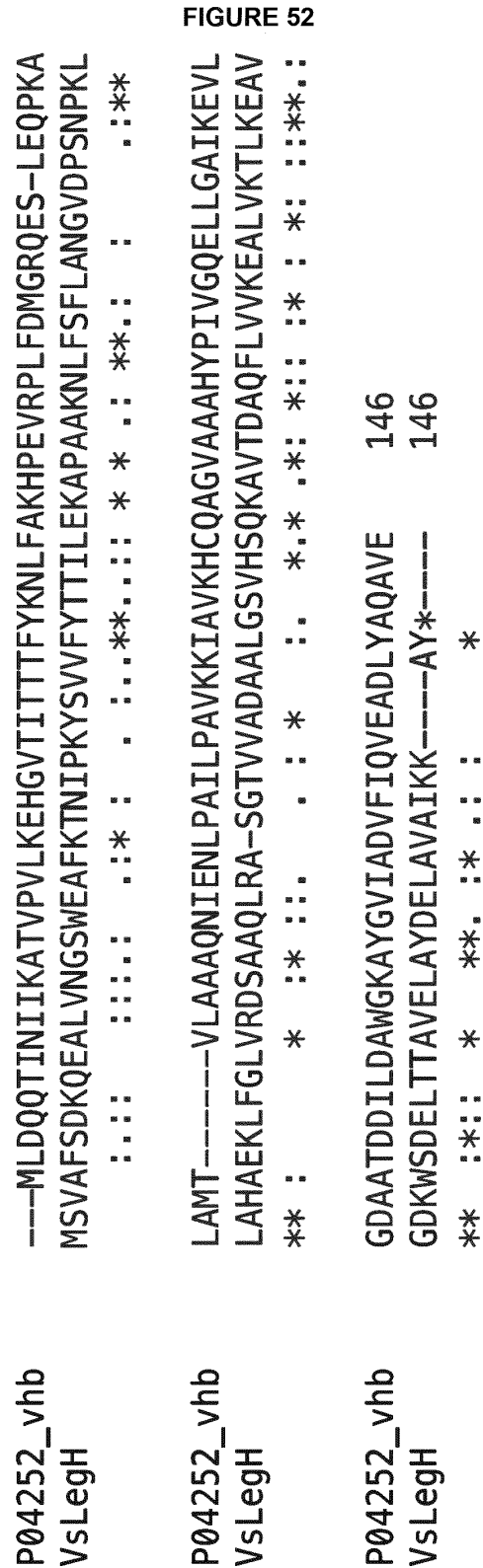


FIGURE 52

P04252_vhb	DAATDDILDWAGKAYGVIADVFIQVEADLYAQAVE	146
GmLegH	DKWSDDELSSAWEVAYDELAATAIKKAF-----	145
	* :*: :*: ** :* :* :* :*	