

Figure 1

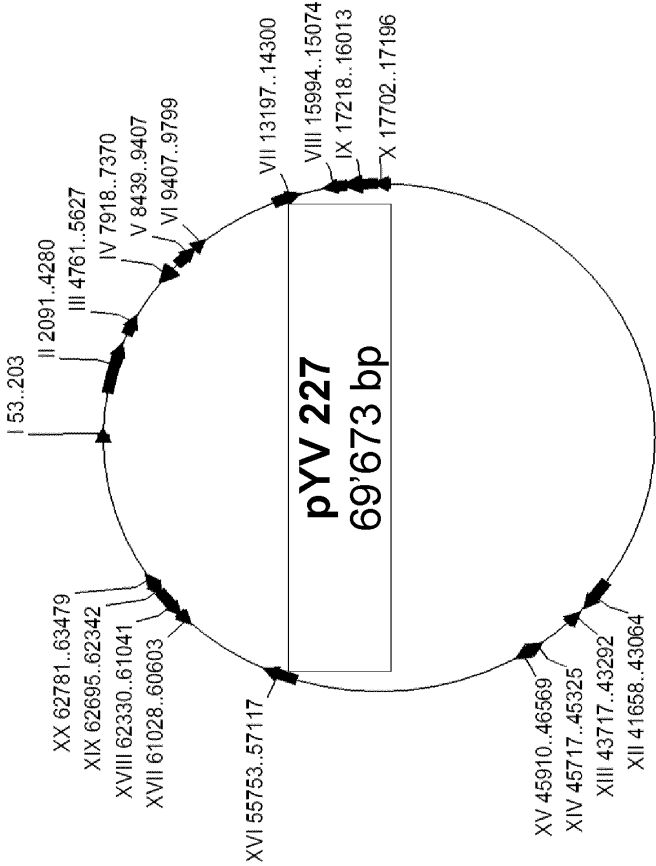


Figure 2

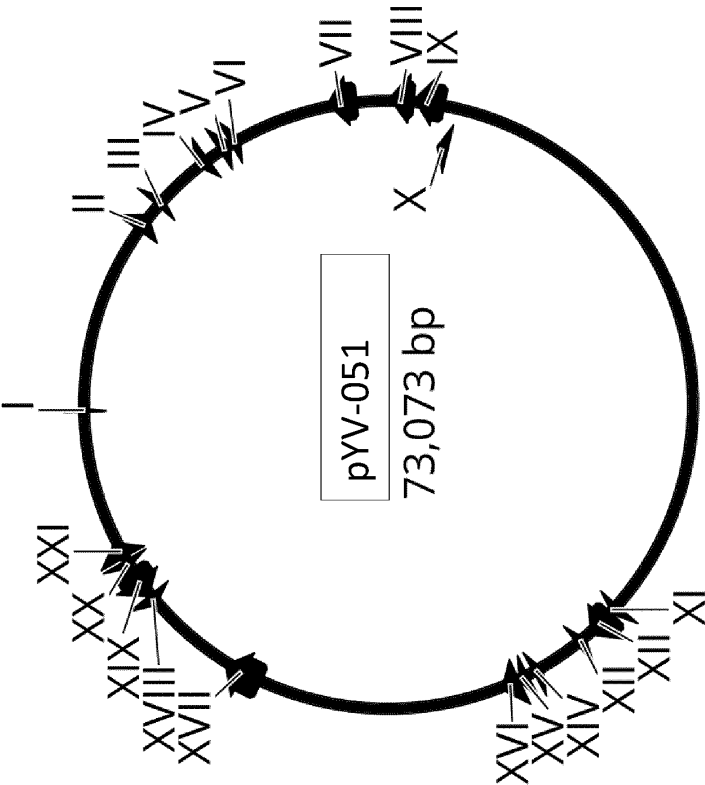


Figure 3

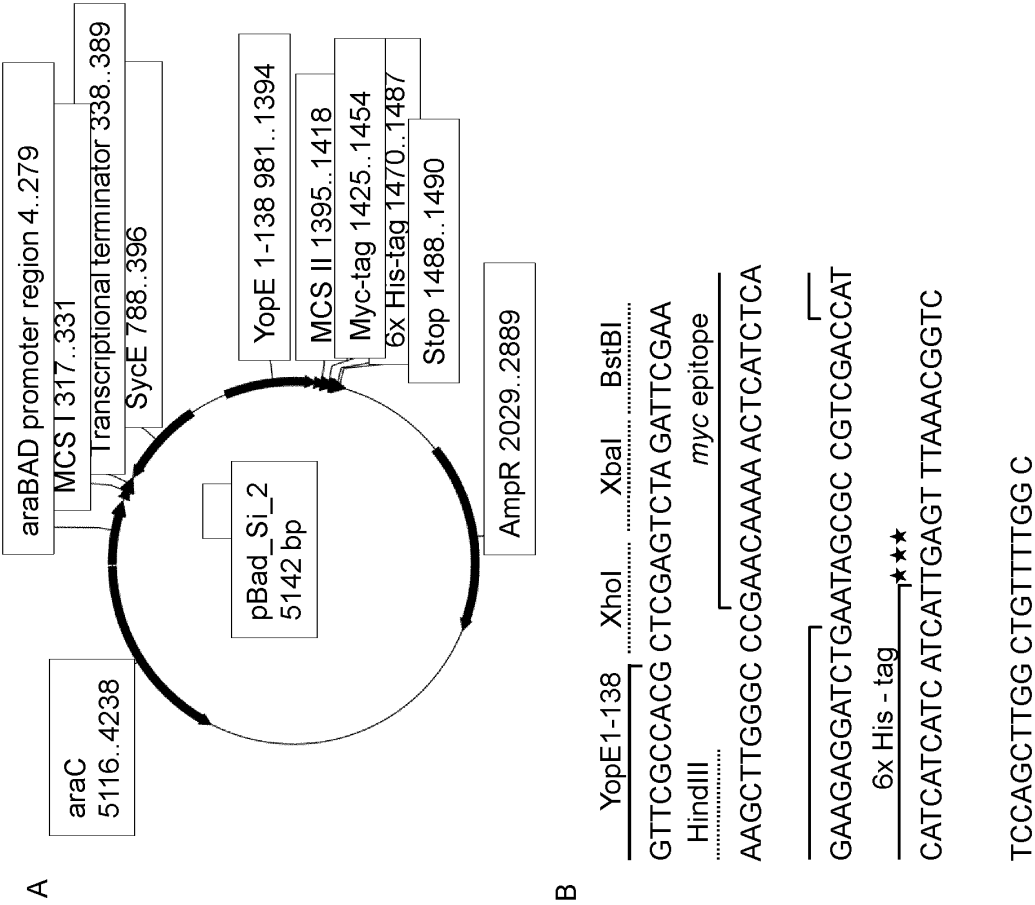


Figure 4

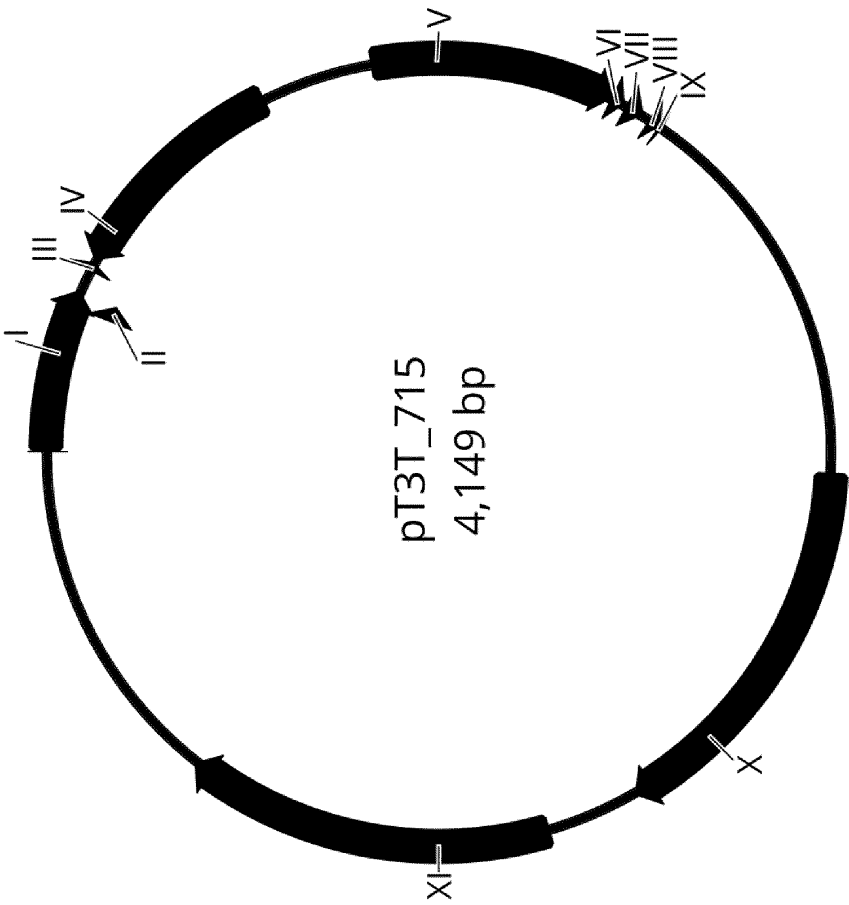


Figure 5

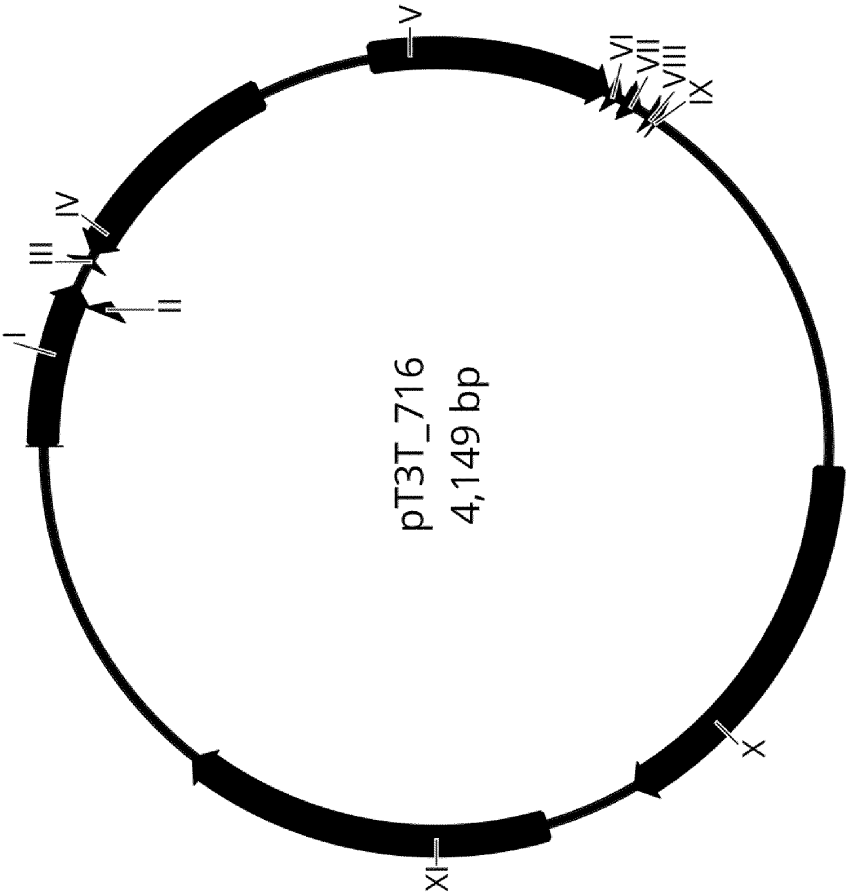


Figure 6

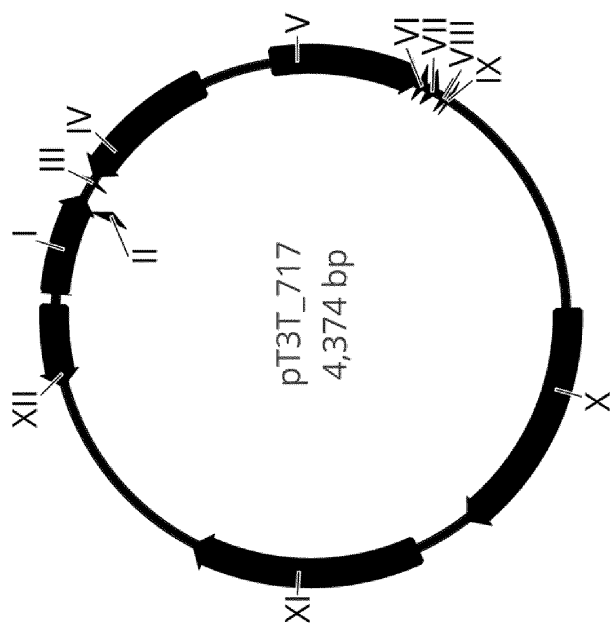


Figure 7

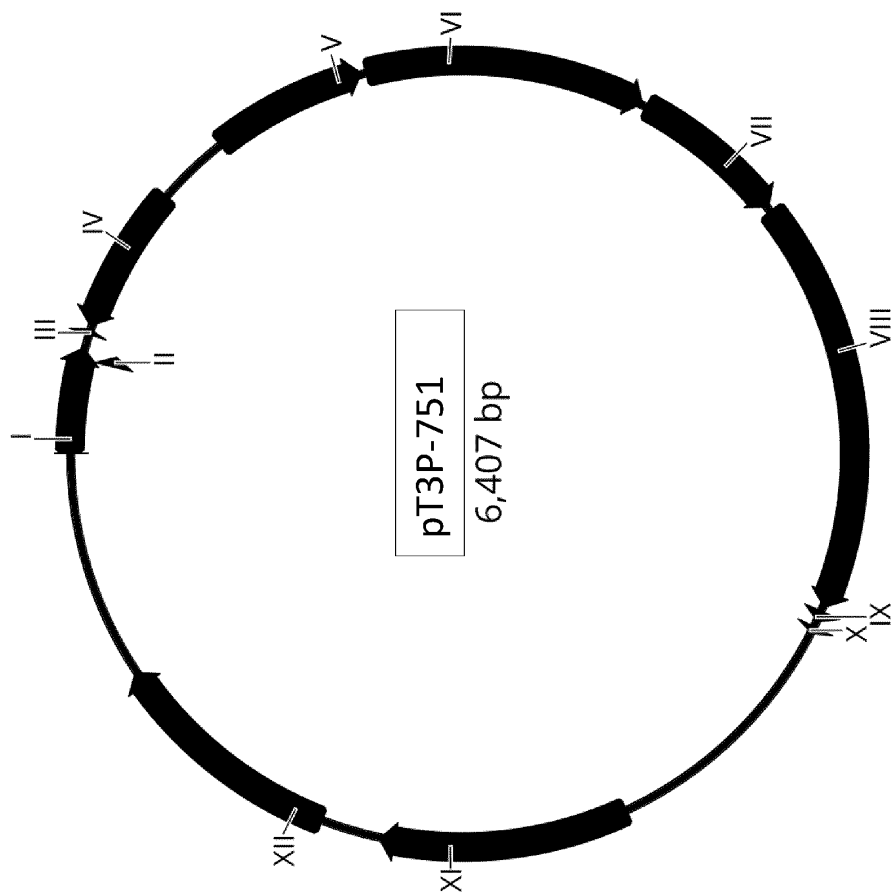


Figure 8

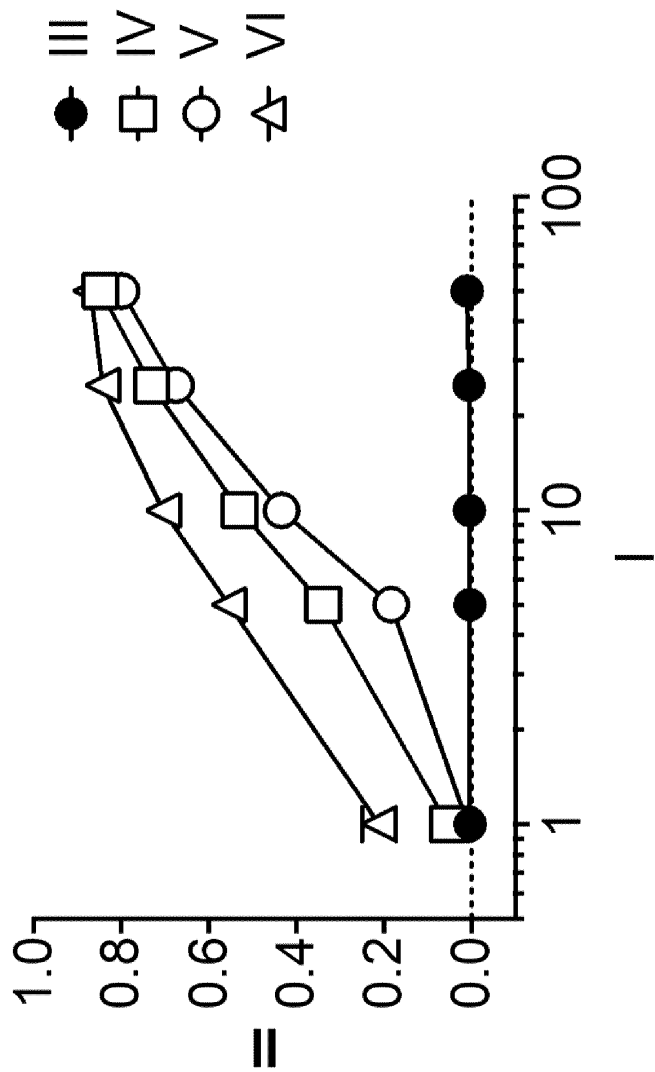


Figure 9

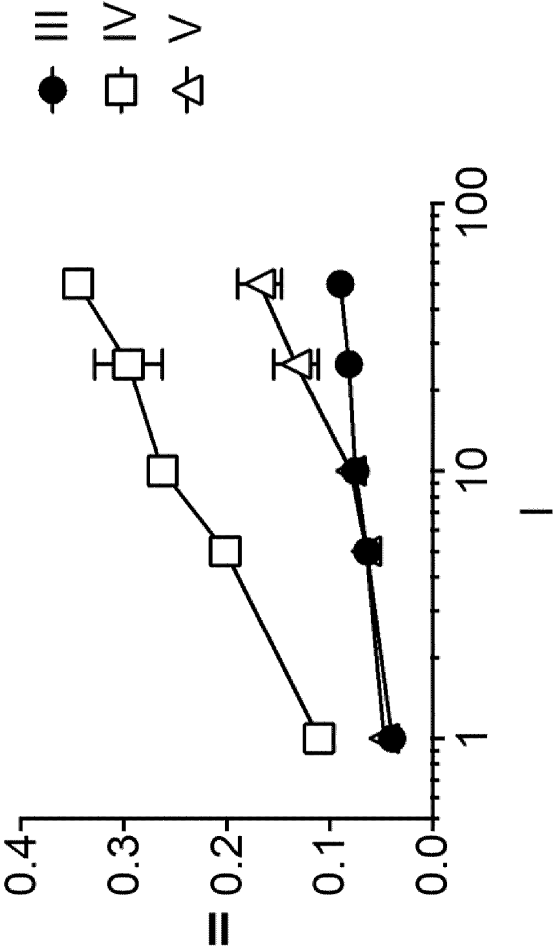


Figure 10

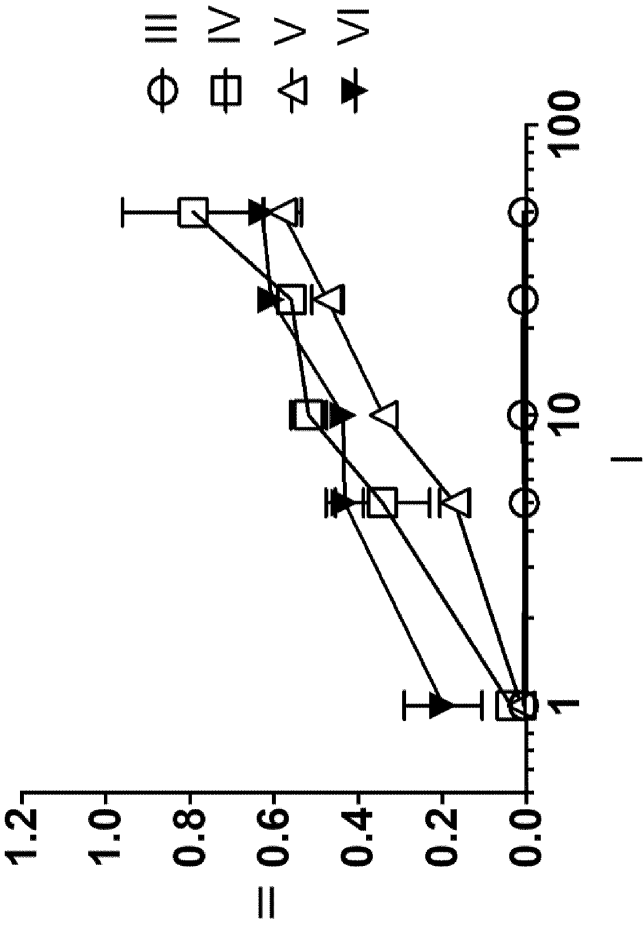


Figure 11

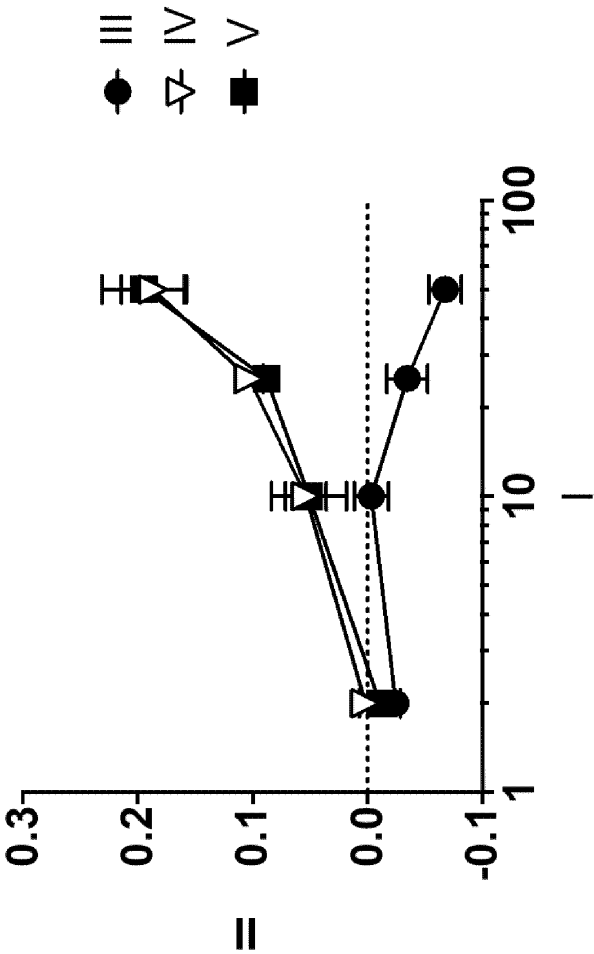


Figure 12

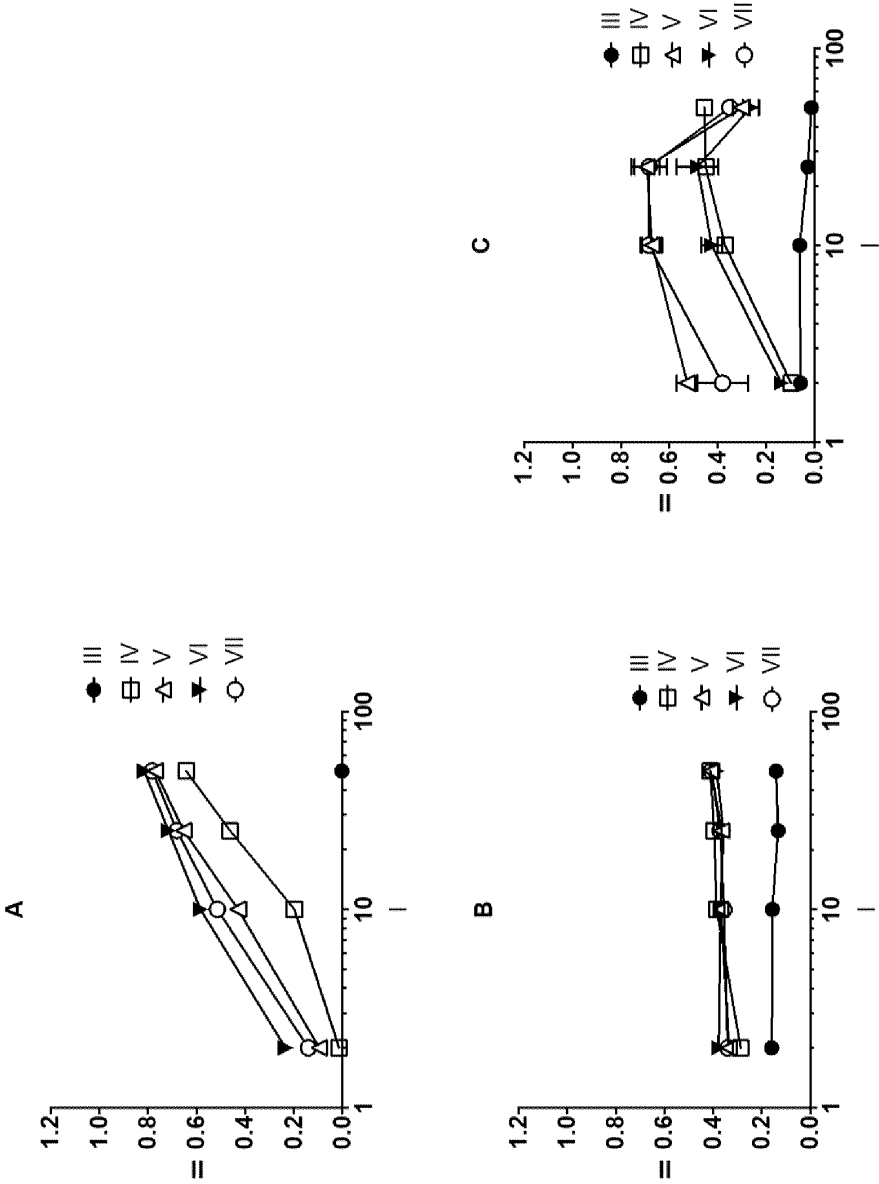


Figure 13

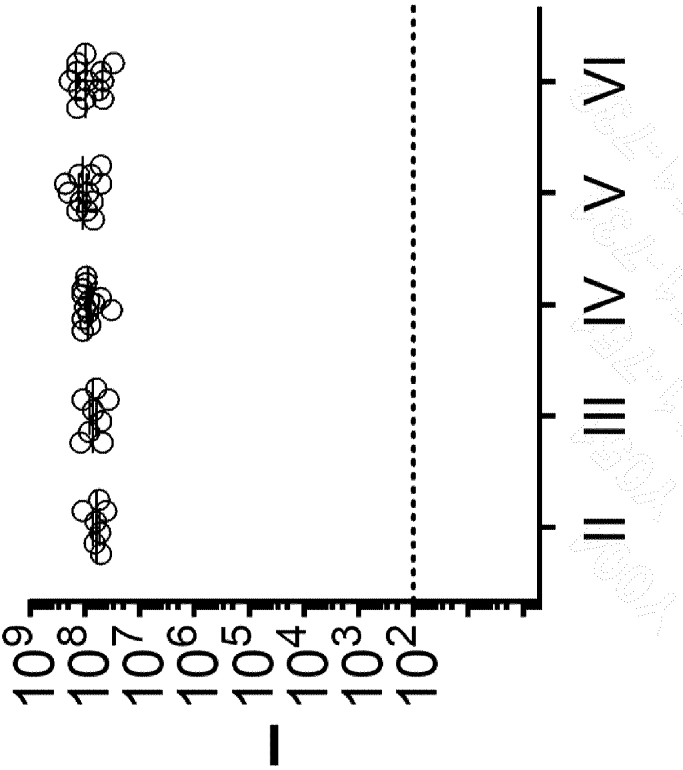


Figure 14

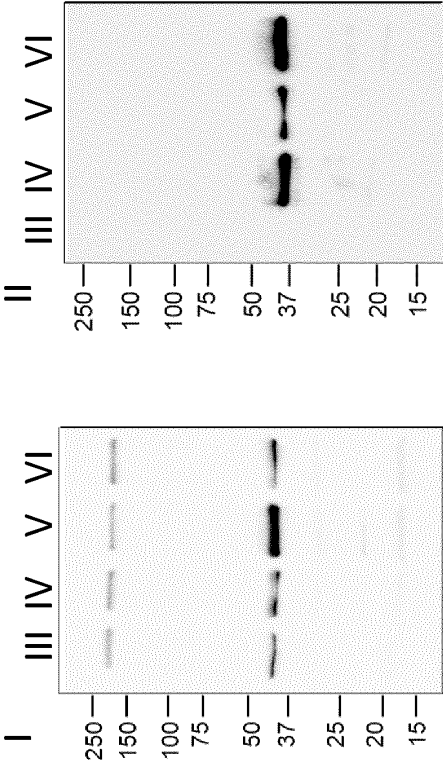


Figure 15

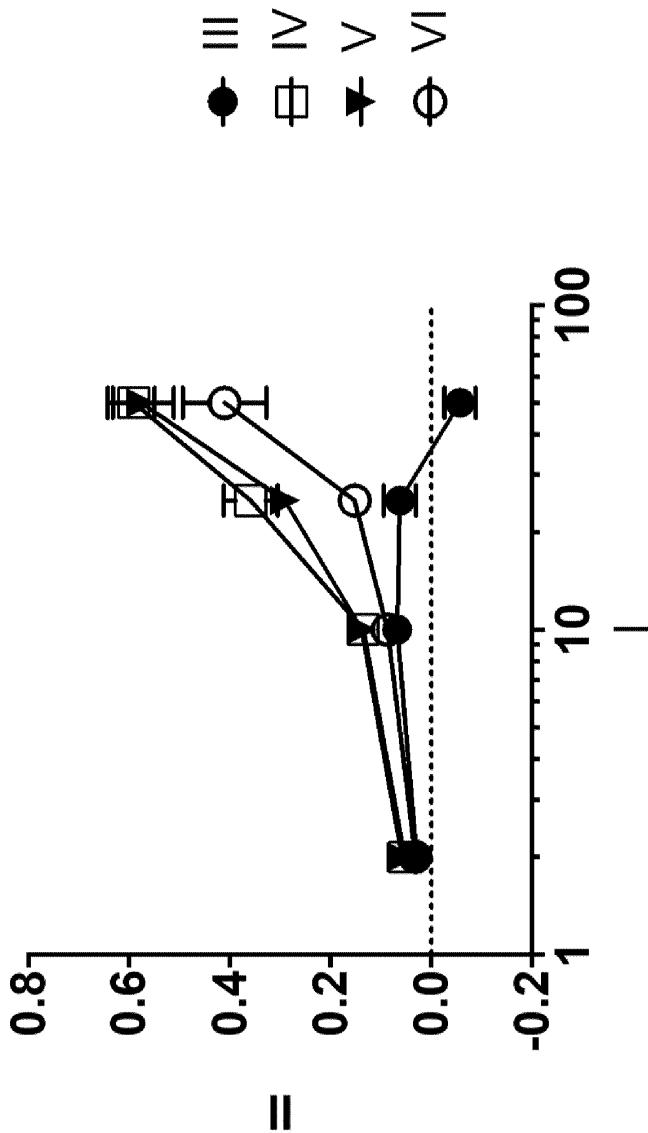


Figure 16

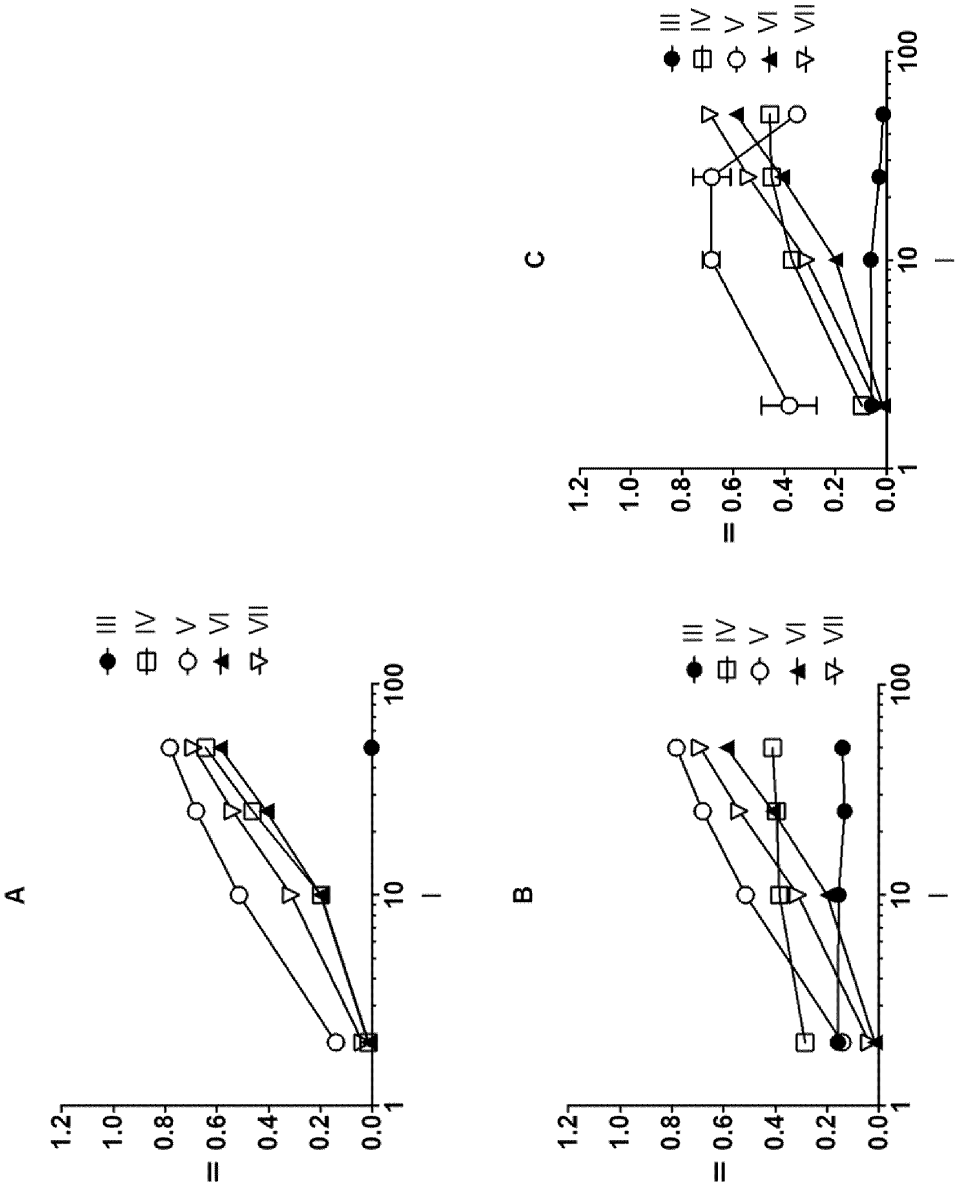
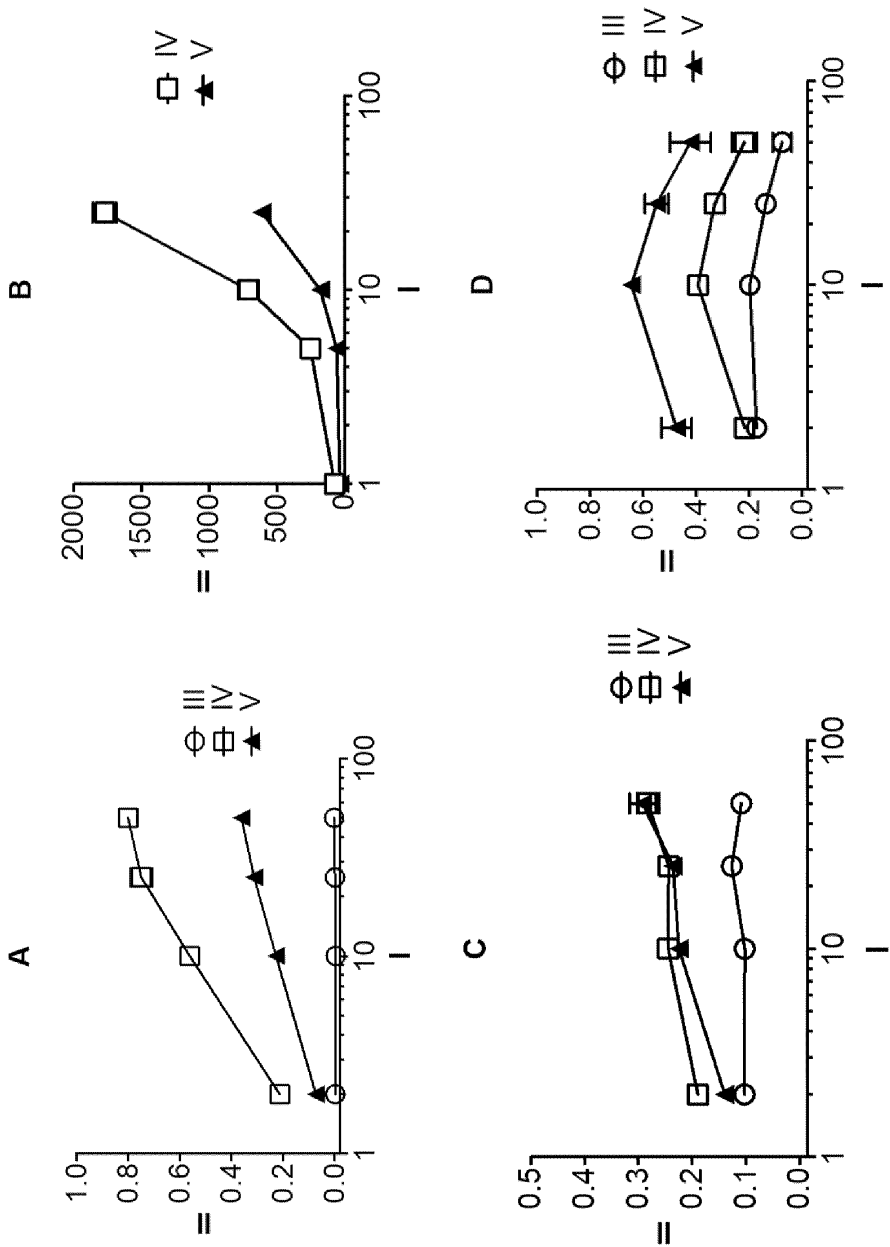


Figure 18



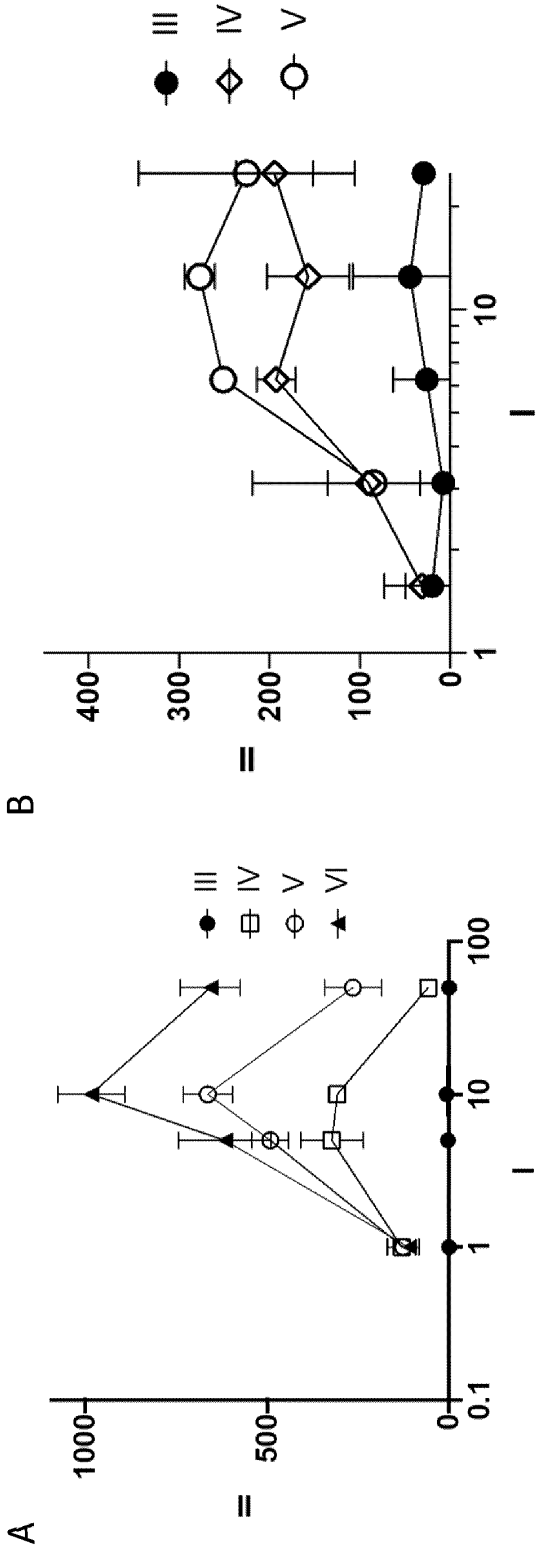


Figure 20

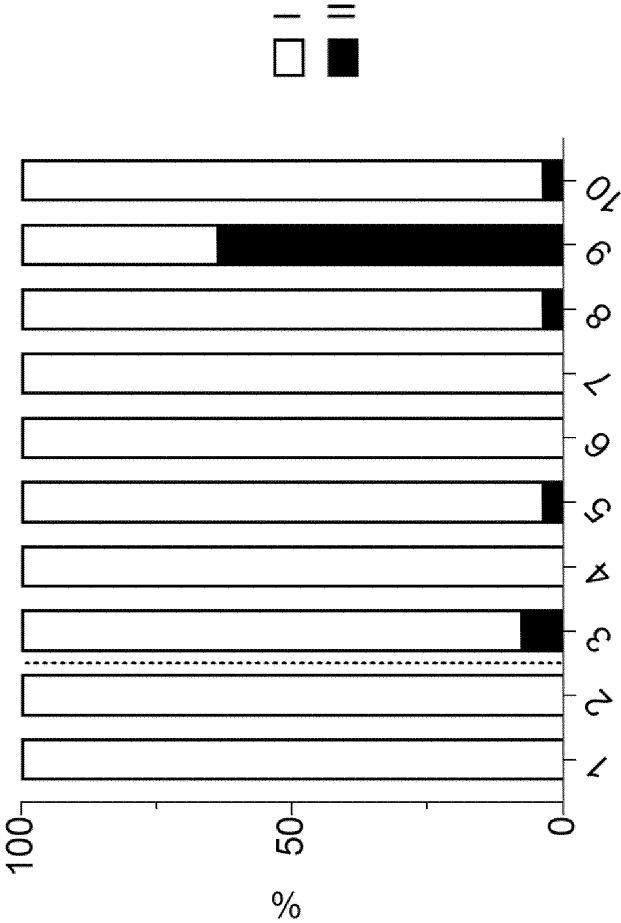


Figure 21

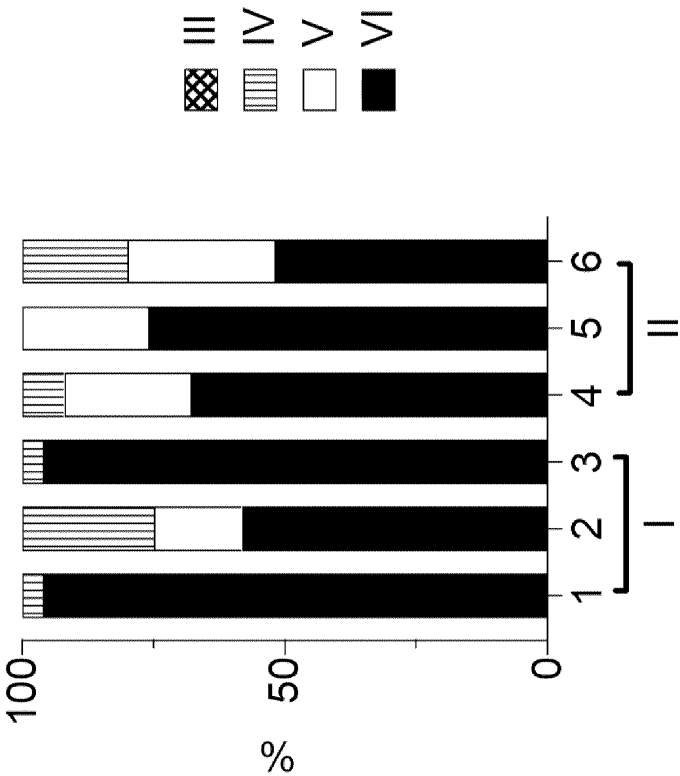


Figure 22

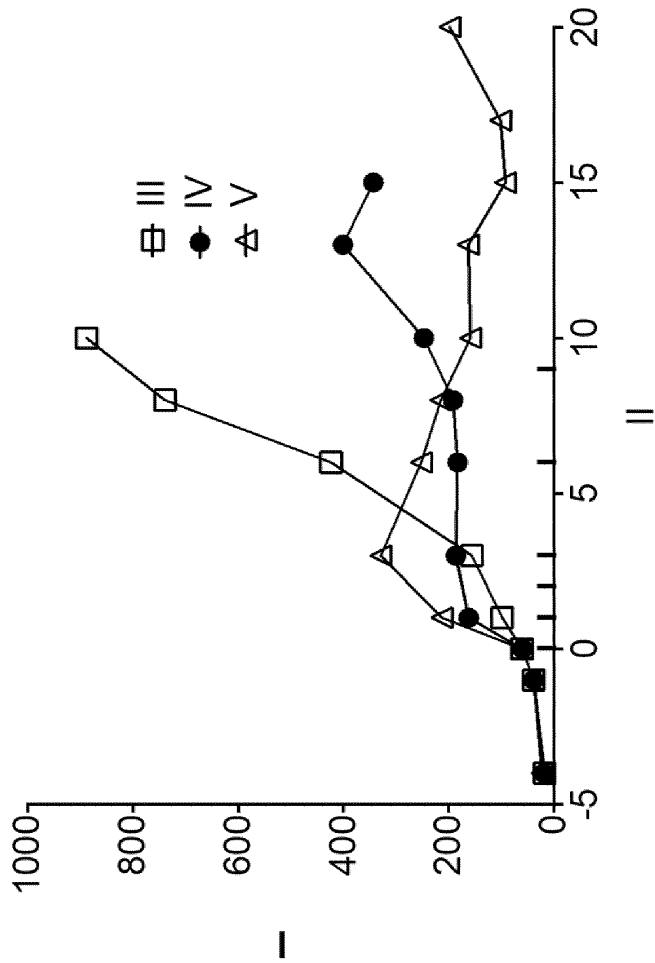


Figure 23

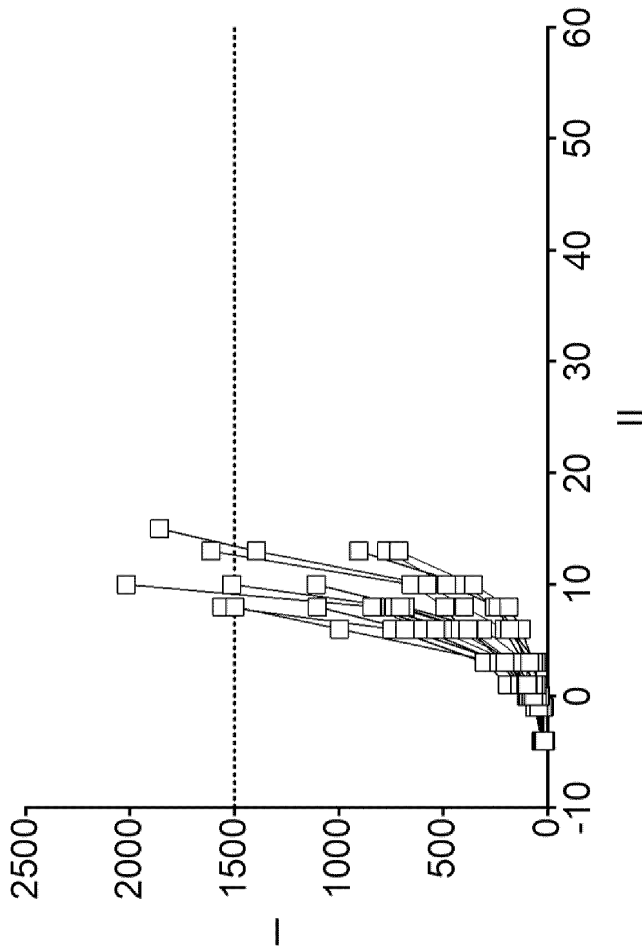


Figure 24

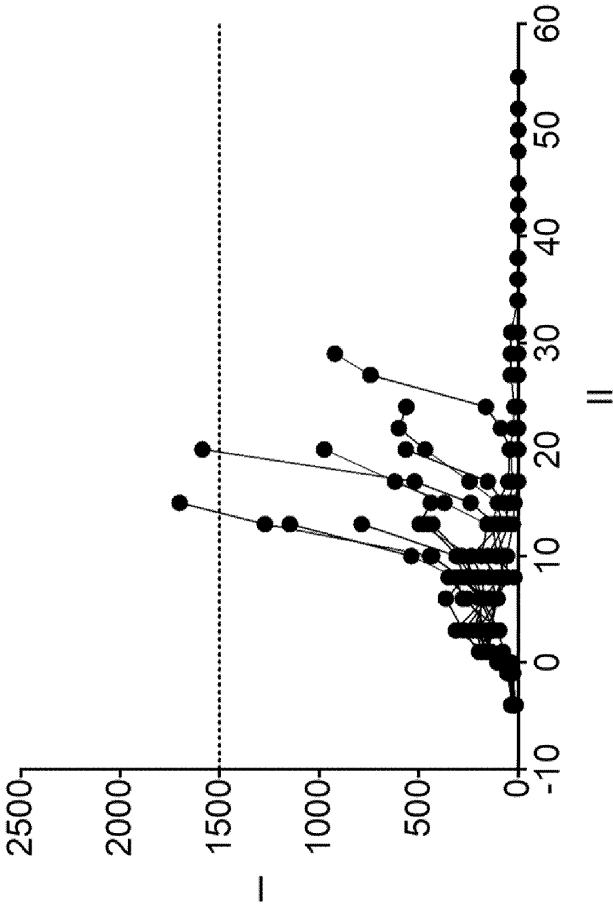


Figure 25

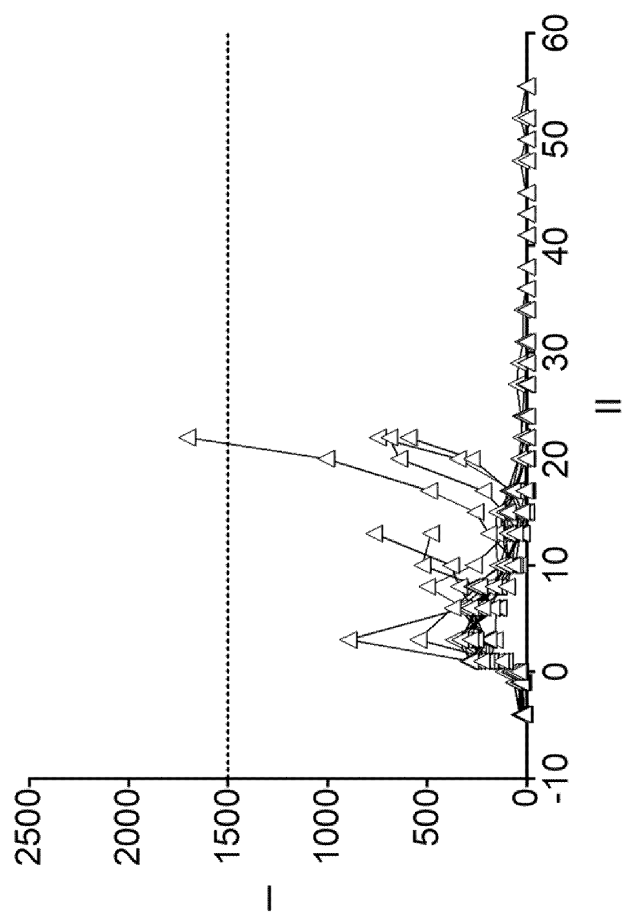


Figure 26

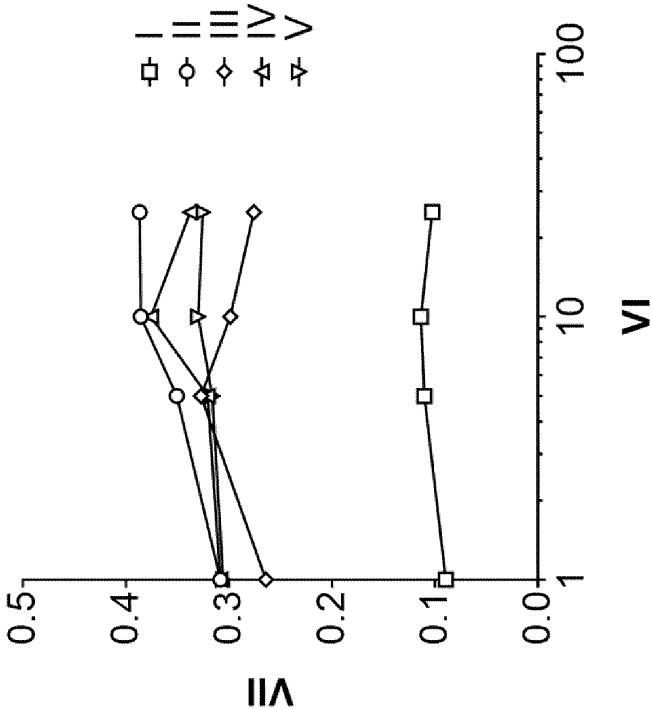


Figure 27 A

Strain Name	Back-ground strain	Insert/relevant characteristics	Protein to be delivered by T3SS	Backbone plasmid	Resulting plasmid name	Primer T3T- No.:	Resistances	Reference
Δ HOPEMT	Y. enterocolitica	MRS40 pIML421 [yopH Δ 1-352, yopO Δ 65-558, yopP23, yopE21, yopM23, yopT135]					Nal	Iriarte and Cornelis, 1998
Δ HOPEMT + pBad_Si2	Y. enterocolitica Δ yopH,O,P,E,M,T	SycE-YopE ¹⁻¹³⁸ -MycHis fragment	YopE ¹⁻¹³⁸ -MycHis	pBad-MycHisA (Invitrogen)	pBad_Si_2	287/288 (sycE-YopE ¹⁻¹³⁸)	Nal Amp	
Δ HOPEMT + pT3P_453 or pT3P-718 or pT3P-719 or pT3P-720	Y. enterocolitica Δ yopH,O,P,E,M,T		YopE ¹⁻¹³⁸ - Y. enterocolitica codon optimized human RIG-1 two CARD domains (Aa. 1-245)	pBad_Si_2 or pT3P-715 or pT3P-716 or pT3P-717	pT3P_453 or pT3P-718 or pT3P-719 or pT3P-720	synthetic construct	Nal, Amp or Cm	
Δ HOPEMT + pT3P_454 or pT3P-721 or pT3P-722 or pT3P-723	Y. enterocolitica Δ yopH,O,P,E,M,T		YopE ¹⁻¹³⁸ - Y. enterocolitica codon optimized murine RIG-1 two CARD domains (Aa. 1-246)	pBad_Si_2 or pT3P-715 or pT3P-716 or pT3P-717	pT3P_454 or pT3P-721 or pT3P-722 or pT3P-723	synthetic construct	Nal, Amp or Cm	

Figure 27 B

Strain Name	Background strain	Protein to be delivered by T3SS	Backbone plasmid	Resulting plasmid name	Primer T3T-No.:	Resistances
ΔHOPEMT + pT3P-515 or pT3P-751 or pT3P-731 or pT3P-732	Y. enterocolitica ΔyopH, O, P, E, M, T	YopE ₁₋₁₃₈ ⁻ Y. enterocolitica codon optimized human cGAS (Aa. 161-522)	pBad_Si_2 or pT3P-715 or pT3P-716 or pT3P-717	pT3P-515 or pT3P-751 or pT3P-731 or pT3P-732	synthetic construct	Nal, Amp or Cm
ΔHOPEMT + pT3P_522	Y. enterocolitica ΔyopH, O, P, E, M, T	YopE ₁₋₁₃₈ ⁻ Y. enterocolitica codon optimized murine RIG-1 two CARD domains (Aa. 1-218)	pBad_Si_2	pT3P_522	1021/1023	Nal/Amp
ΔHOPEMT + pT3P_521	Y. enterocolitica ΔyopH, O, P, E, M, T	YopE ₁₋₁₃₈ ⁻ Y. enterocolitica codon optimized murine RIG-1 two CARD domains (Aa. 1-229)	pBad_Si_2	pT3P_521	1021/1022	Nal/Amp

Figure 27 C

Strain Name	Background strain	Protein to be delivered by T3SS	Backbone plasmid	Resulting pYV plasmid name	Mutator	Resistances
Δ HOPEMT Y048	Y. enterocolitica Δ yopH, O, P, E, M, T	YopE ₁₋₁₃₈ - Y. enterocolitica codon optimized human cGAS (Aa. 161-522)	pYV	pYV048	pT3P-697	Nal
Δ HOPEMT Y022	Y. enterocolitica Δ yopH, O, P, E, M, T	YopE ₁₋₁₃₈ - Y. enterocolitica codon optimized murine RIG-1 two CARD domains (Aa. 1-246)	pYV	pYV022	pT3P-457	Nal
Δ HOPEMT Y022 + pT3P-454 or pT3P-721	Y. enterocolitica Δ yopH, O, P, E, M, T	YopE ₁₋₁₃₈ - Y. enterocolitica codon optimized murine RIG-1 two CARD domains (Aa. 1-246)				Nal, Amp or Cm
Δ HOPEMT Y021	Y. enterocolitica Δ yopH, O, P, E, M, T	YopE ₁₋₁₃₈ - Y. enterocolitica codon optimized human RIG-1 two CARD domains (Aa. 1-245)	pYV	pYV021	pT3P-456	Nal
Δ HOPEMT Y051	Y. enterocolitica Δ yopH, O, P, E, M, T	YopE ₁₋₁₃₈ - Y. enterocolitica codon optimized human RIG-1 two CARD domains (Aa. 1-245) and YopE ₁₋₁₃₈ - Y. enterocolitica codon optimized human cGAS (Aa. 161-522)	pYV021	pYV051	pT3P-714	Nal

Figure 27 D

Strain Name	Background strain	Protein to be delivered by T3SS	Backbone plasmid	Resulting pYV plasmid name	Mutator	Resistances
Δ HOPEMT Y051 + pT3P-453 or pT3P-718	<i>Y. enterocolitica</i> Δ yopH,O,P,E,M ,T	YopE ₁₋₁₃₈ ⁻ <i>Y. enterocolitica</i> codon optimized human RIG-1 two CARD domains (Aa. 1- 245) and YopE ₁₋₁₃₈ ⁻ <i>Y.</i> <i>enterocolitica</i> codon optimized human cGAS (Aa. 161-522)				Nal, Amp or Cm
Δ HOPEMT Y051 + pT3P-751	<i>Y. enterocolitica</i> Δ yopH,O,P,E,M ,T	YopE ₁₋₁₃₈ ⁻ <i>Y. enterocolitica</i> codon optimized human RIG-1 two CARD domains (Aa. 1- 245) and YopE ₁₋₁₃₈ ⁻ <i>Y.</i> <i>enterocolitica</i> codon optimized human cGAS (Aa. 161-522)				Nal, Cm
Δ HOPEMT Y051 + pT3P-515 or pT3P-745	<i>Y. enterocolitica</i> Δ yopH,O,P,E,M ,T	YopE ₁₋₁₃₈ ⁻ <i>Y. enterocolitica</i> codon optimized human RIG-1 two CARD domains (Aa. 1- 245) and YopE ₁₋₁₃₈ ⁻ <i>Y.</i> <i>enterocolitica</i> codon optimized human cGAS (Aa. 161-522)				Nal, Amp or Cm
Δ HOPEMT Y051 + pT3P-731	<i>Y. enterocolitica</i> Δ yopH,O,P,E,M ,T	YopE ₁₋₁₃₈ ⁻ <i>Y. enterocolitica</i> codon optimized human RIG-1 two CARD domains (Aa. 1- 245) and YopE ₁₋₁₃₈ ⁻ <i>Y.</i> <i>enterocolitica</i> codon optimized human cGAS (Aa. 161-522)				Nal, Cm

Figure 27 E

Strain Name	Background strain	Protein to be delivered by T3SS	Backbone plasmid	Resulting pYV plasmid name	Mutator	Resistances
Δ HOPEMT Y051 + pT3P-732	Y. enterocolitica Δ yopH,O,P,E,M ,T	YopE ₁₋₁₃₈ ⁻ Y. enterocolitica codon optimized human RIG-1 two CARD domains (Aa. 1- 245) and YopE ₁₋₁₃₈ ⁻ Y. enterocolitica codon optimized human cGAS (Aa. 161-522)				Nal, Cm
Δ HOPEMT Y051 + pT3P-719	Y. enterocolitica Δ yopH,O,P,E,M ,T	YopE ₁₋₁₃₈ ⁻ Y. enterocolitica codon optimized human RIG-1 two CARD domains (Aa. 1- 245) and YopE ₁₋₁₃₈ ⁻ Y. enterocolitica codon optimized human cGAS (Aa. 161-522)				Nal, Cm
Δ HOPEMT Y051 + pT3P-720	Y. enterocolitica Δ yopH,O,P,E,M ,T	YopE ₁₋₁₃₈ ⁻ Y. enterocolitica codon optimized human RIG-1 two CARD domains (Aa. 1- 245) and YopE ₁₋₁₃₈ ⁻ Y. enterocolitica codon optimized human cGAS (Aa. 161-522)				Nal, Cm