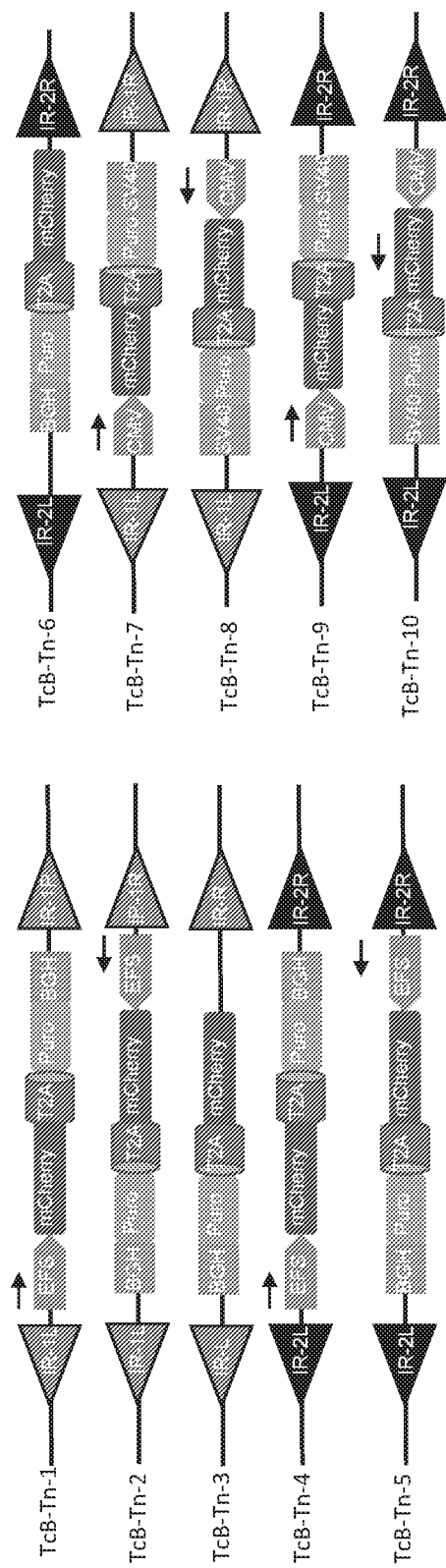




- TcB Tn-1 + WT-Ts
- TcB Tn-2 + WT-Ts
- ▲ TcB Tn-3 + WT-Ts
- ◆ TcB Tn-4 + WT-Ts
- ◇ TcB Tn-5 + WT-Ts
- ◊ TcB Tn-6 + WT-Ts
- ▨ TcB Tn-7 + WT-Ts
- ▩ TcB Tn-8 + WT-Ts
- ▧ TcB Tn-9 + WT-Ts
- ◆ TcB Tn-10 + WT-Ts

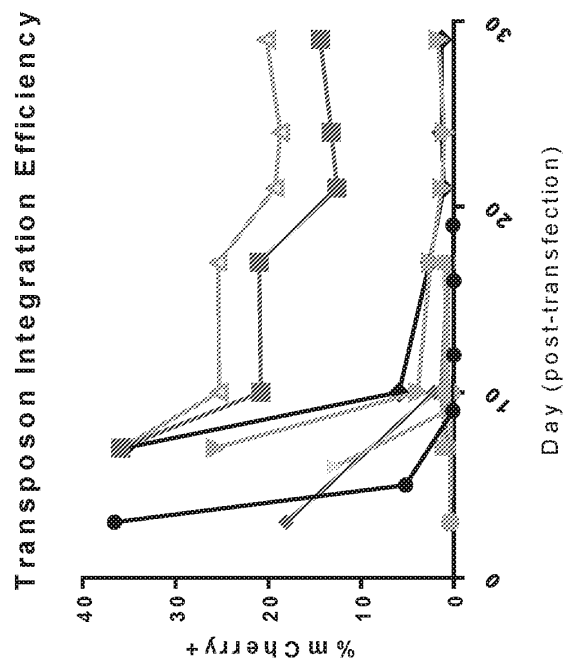
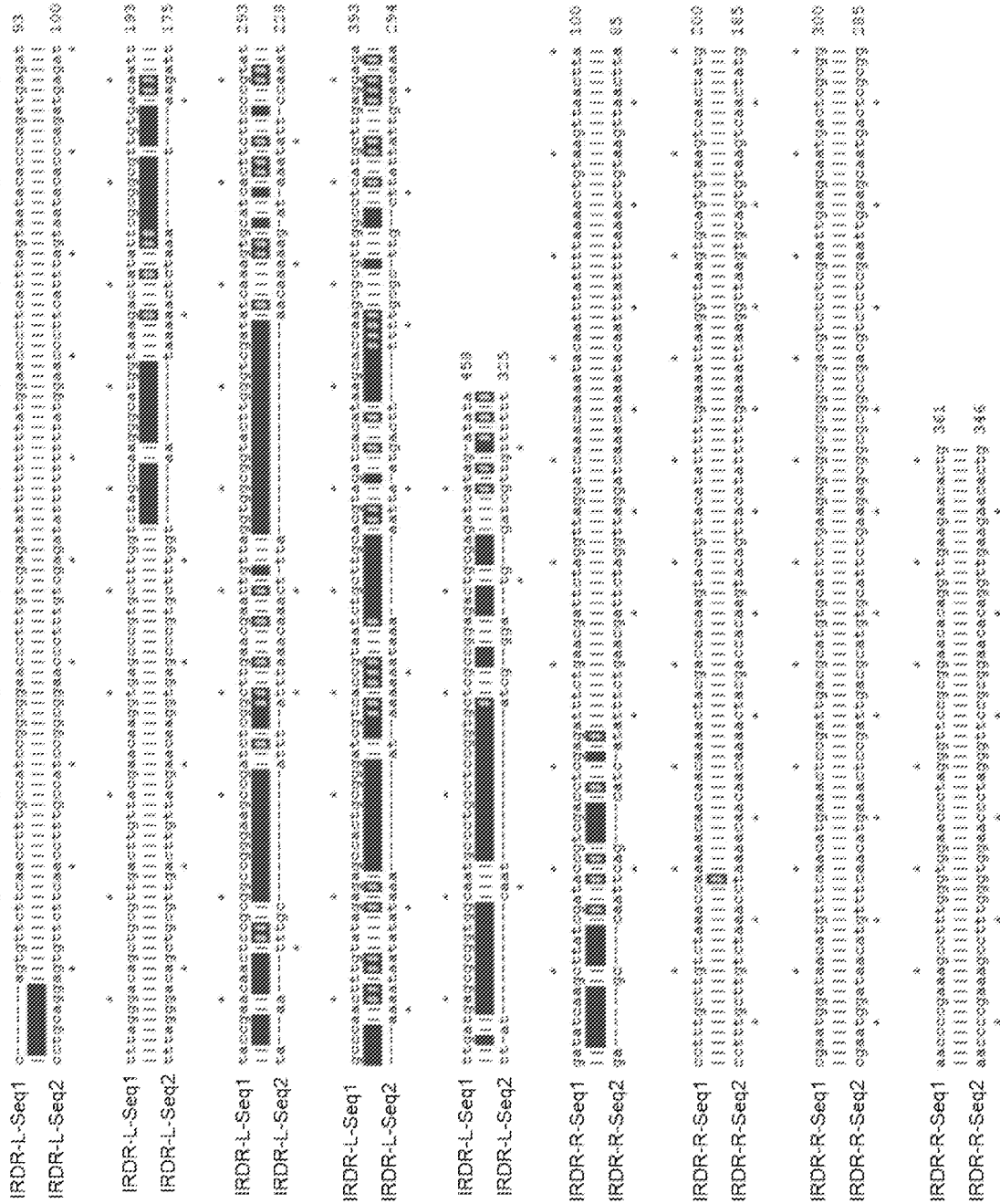


Fig. 1



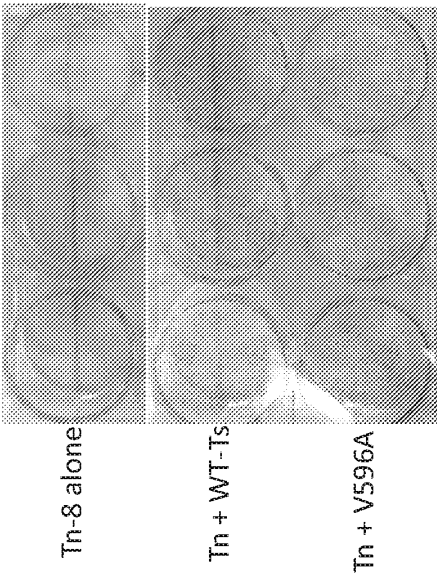


Fig. 3B

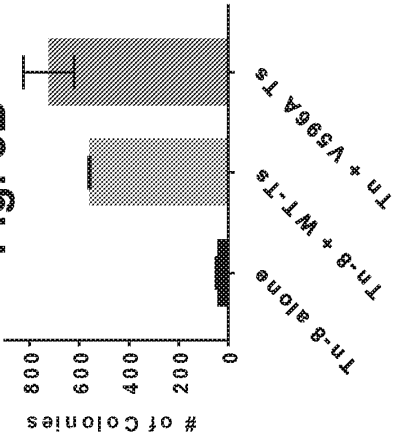


Fig. 3C

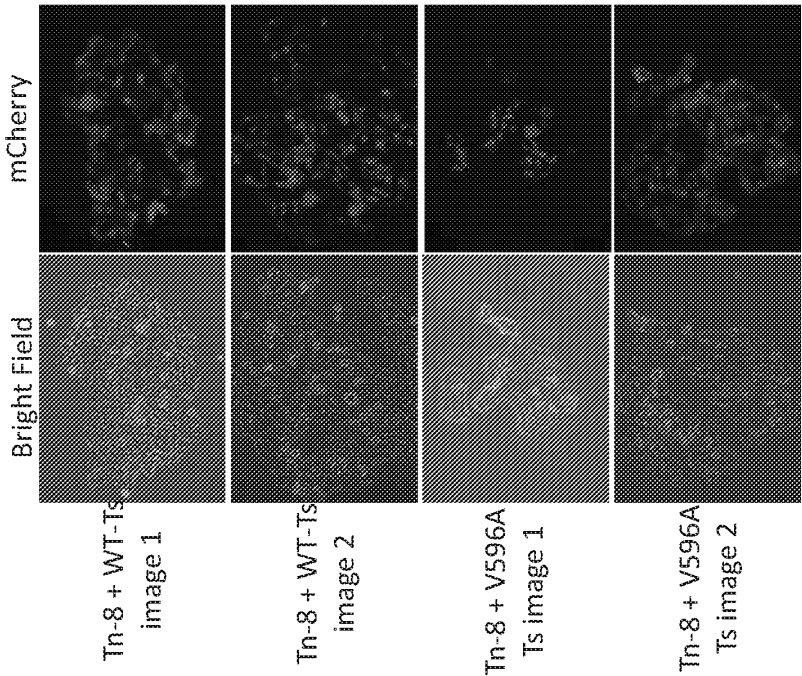


Fig. 3A

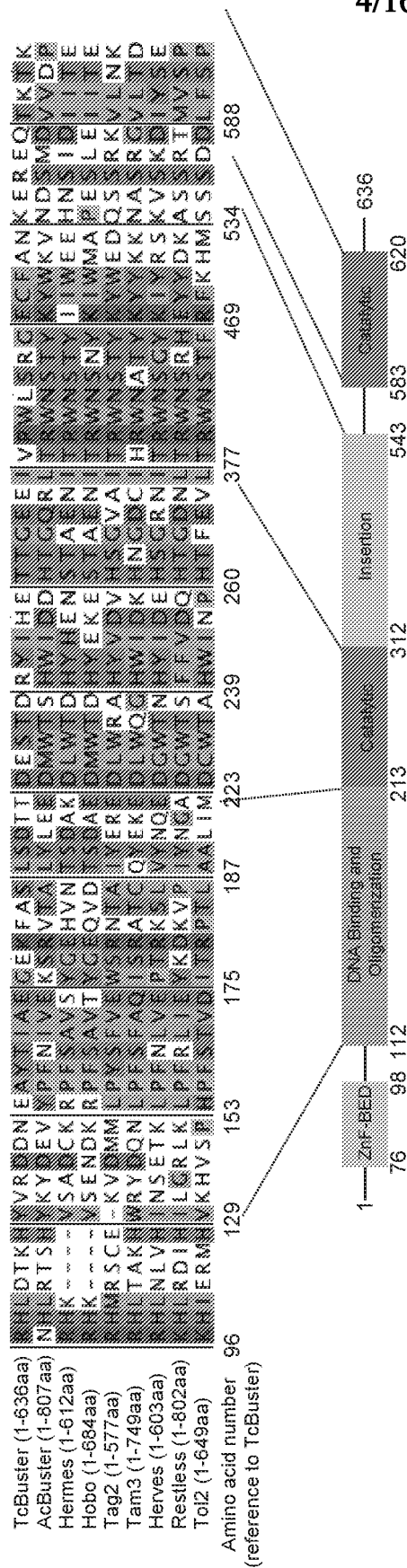
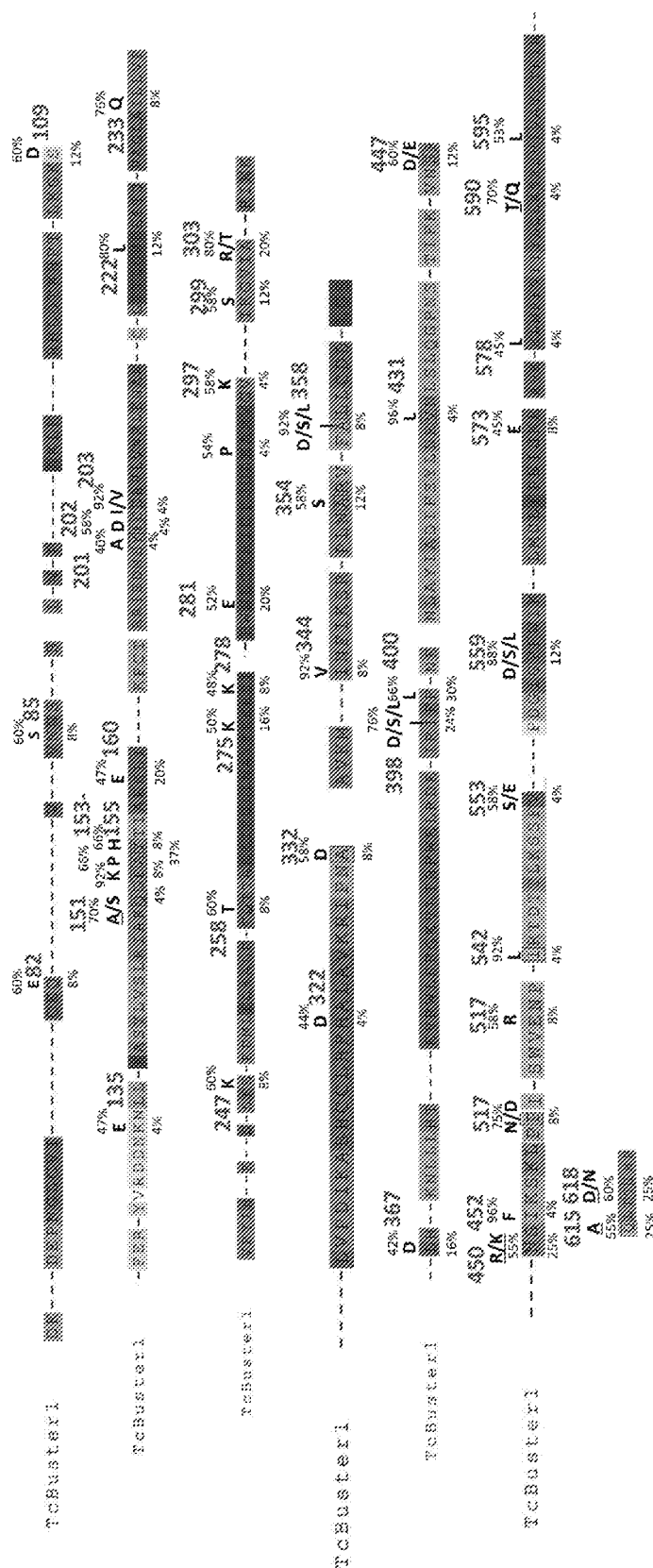
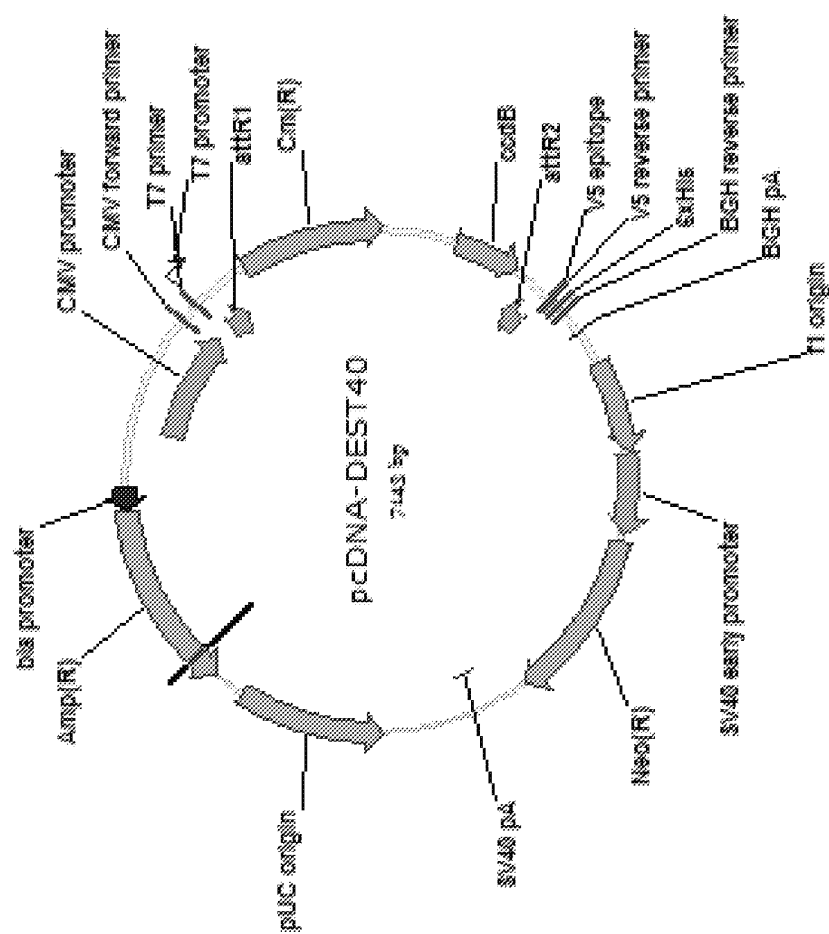


Fig. 4





കേരള

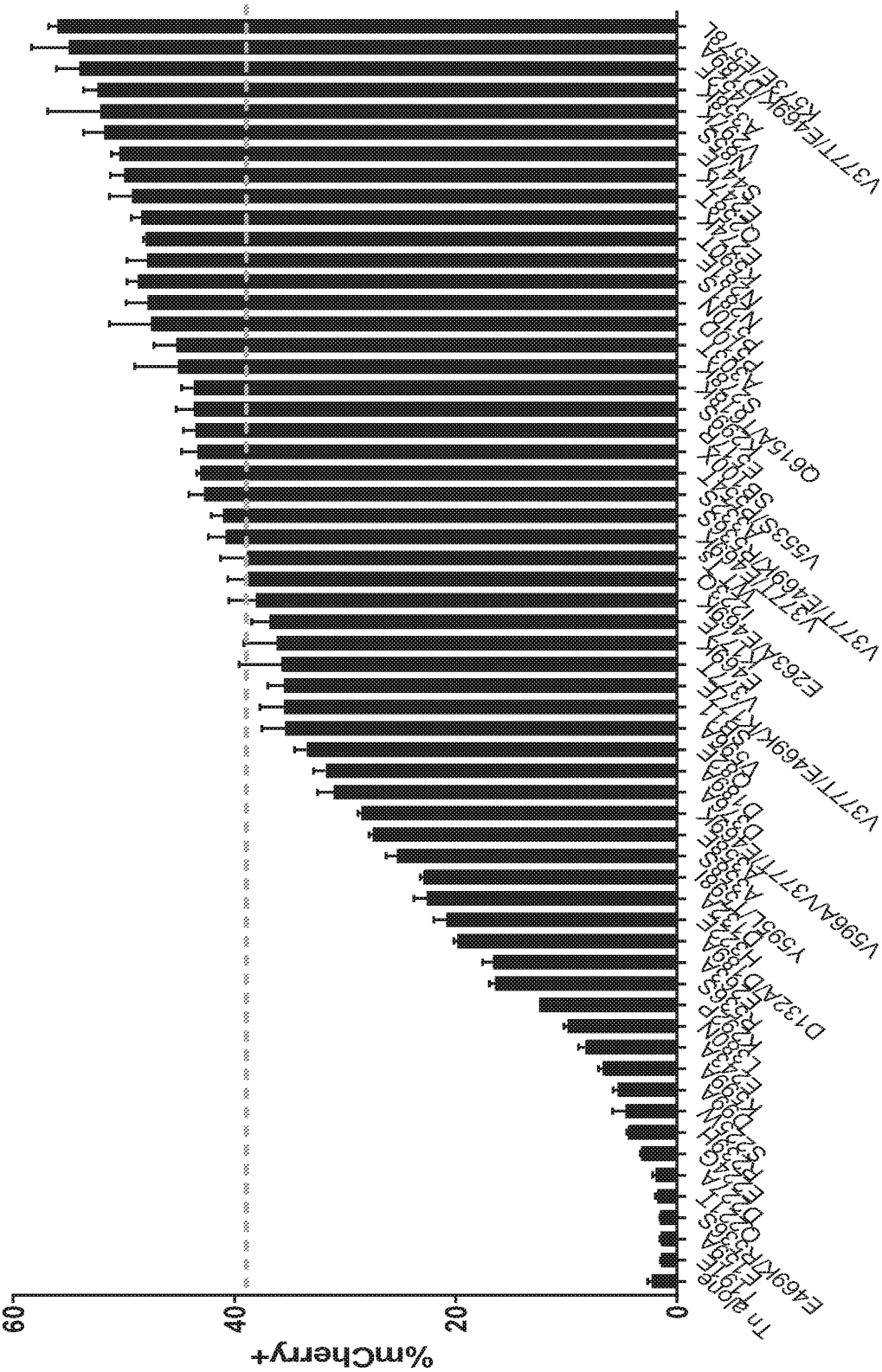


Fig. 7

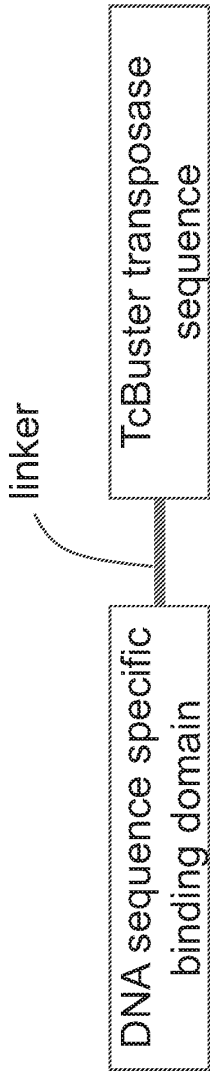


Fig. 8

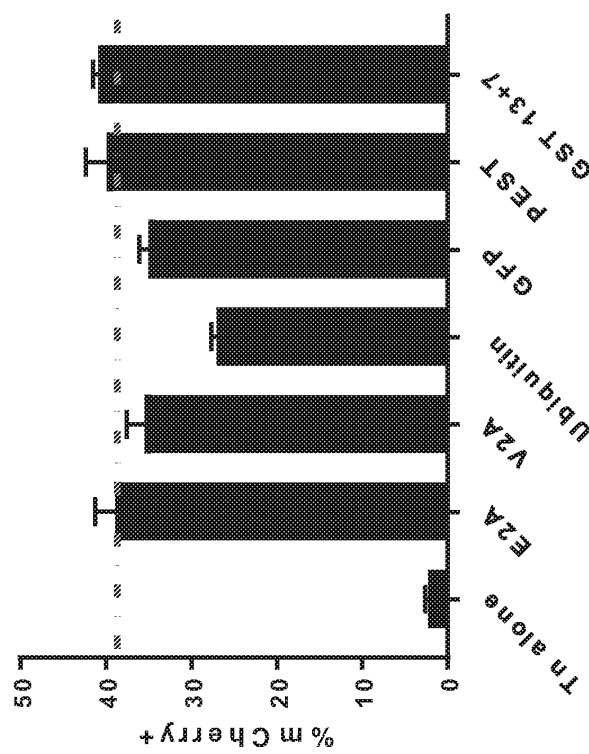


Fig. 9

10/16

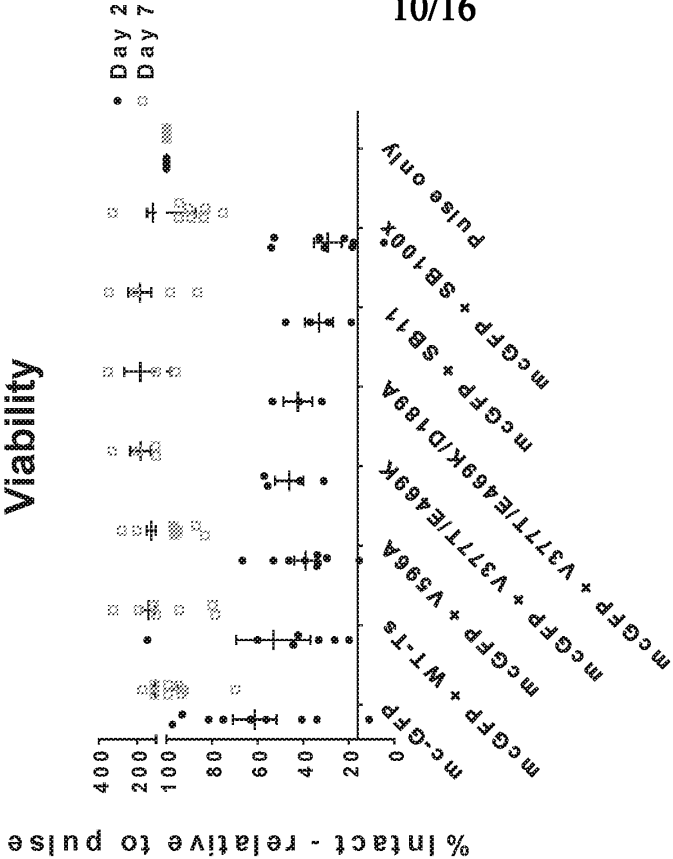


Fig. 10A

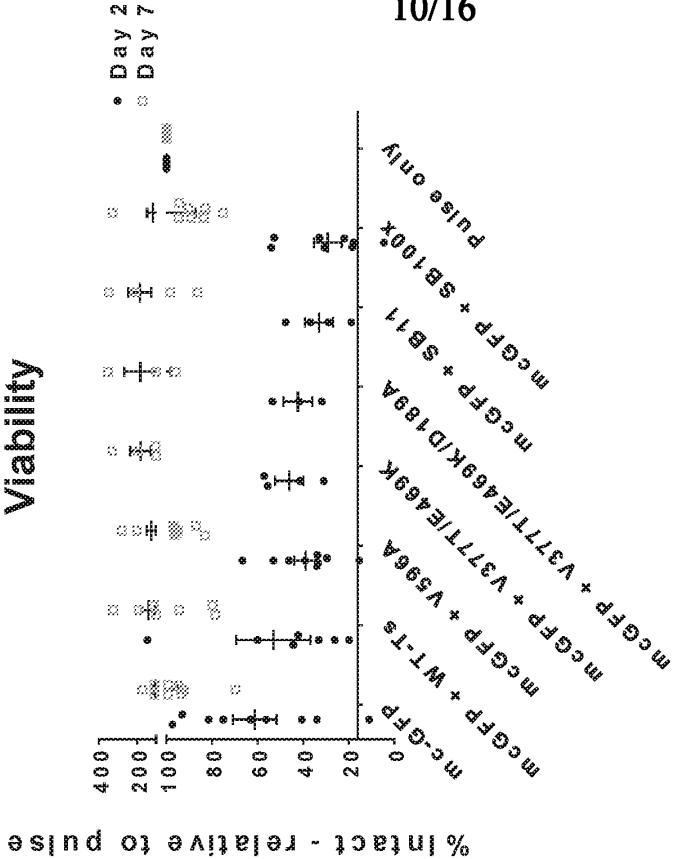


Fig. 10B

TcBuster
 MMLNWLKSGKLESQSQSSCYLENSNCLPPTLDSTDIIGENKAGTTS
 RKKRKYDEDYLNFGFTWTGDKDEPNGLCVICEQVWNNSSNPAKLKRHL
 DTKHPTLKGKSEYFKRKCNELNQKKHTFERYVRDDNKNLLKASYLVSLRI
 AKQGEAYTIAEKLKPKCTKDLTICVFGEKFASKVDLVPLSDTTSRRIEDM
 SYFCEAVLVNRLKNAKCGFTLQMDESTDVAGLAILLVFVRYIHESSEE
 DMLFCKALPTQTTGEEIFNLLNAYFEKHSPWNLCYHICTDGAKAMV
 GVKGVIARIKKLVDPDIKASHCCLHRhALAVKRIPNALHEVLNDAVKMINFIK
 SRPLNARVFALLCDDLGLSHKNLLLHTEVRWLSRGKVLTRFWELRDEIRI
 FFNEREFAGKLNDTSWLQNLAYIADIFSYLNEVNLSQLQPNSTIFKVNRSRI
 NSIKSKLKLWEECITKNNTECFANLNDFLETSENTALDPNLKSNILEHLNGLK
 NTFLEYFPPTCNNISWVENPFNECGNVDTLPIKEREQLIDIRTDITLKSSF
 VPDGIGPFWIKLMDEFPEISKRAVKELMPFVTTYLCEKSFSVYVATkTK
 YRNRLDAEDDMRLQLTIHPDIDNLNCKNQAKQSH

Fig. 11

D189A/V377T/E469K
 MMLNWLKSGKLEQQSQSSCYLENSNCLPPTLDTSTDIIGENKAGTTS
 RKKRKYDEDYLNFGFTWTGDKDEPNGLviceqwnsslnpakrhIDTKHPTL
 KGKSEYFKRKCNELNQKKHTFERYVRDDNKNLLKASYLVSLRIAKQGE

 AYTIAEKLKPKCTKDLTTCVFGEKFAASKVDLVPLSATTISRRIEDMSYFCE
 AVLVNRLKNAKCGFTLQMDDESTDVAGLAILLVFVRYIHESSEEDMLFCK
 ALPTQTTGEEIFNLLNAYFEKHSIPWNLCYHICTDGAKAMVGVIKGVARIK
 KLVPDIKASHCCLHRHALAVKRIPNALHEVLNDAVKMINFIKSRPLNARVFA

 LLCDDLGLSLHKNLLHTETRWLSRGKVLTRFWELRDEIRIFFNEREFAGK
 LNDTSWLQNLAYIADIFS^YLVNEVNL^{SL}QGPNSTIFKVN^{SR}INSIKSKLKLWE

 ECITKNNTKCFANLNDFLETSNTALDPNLKSNILEHLNGLKNTFLEYFPPT
 CNNISWVENPFNECGNVDTLPKEREQLIDRTDTTLKSSFVPDGGPFWIK
 LMDEFPEISKRAVKELMPFVT^{TY}LCEKSF^{VY}VATKTKYRNRLDAEDDMR
LQLTTIHPDIDNLCNNKQAQKSH

Fig. 12

D189ANV377T/E469K +I452F
 MMLNWLKSGKLESQSQSCYLENSNCLPPTLDSTDIICEENKAGTTS
 RKKRKYDEDEYLNFGFTWTGDKDEPNGLGviceqvwnnsslnpakrhIDTKHPTL
 KGKSEYFKRKCNELNQKKHTFERVYRDDNKNLLKASYLVSLRIAKQGE
 AYTIAEKLKPKCTKDLTTCVFGEKFAKVDLVPLSATTISRRIEDMSYFCE
 AVLVNRLKNAKCGFTLQMDDESTDVAGLAILLVFVRYIHESSEEDMLFCK
 ALPTQTTGEEIFNLLNAYFEKHSIPWNLCYHICTDGAKAMVGVIKGVARIK
 KLVDPDIKASHCCCLHRHALAVKRIPNALHEVLNDAVKMINFIKSRPLNARVFA
 LLCDDLGSLHKNLLLLHTETRWL SRGKVL TRFWELRDEIRIFFNEREFAGK
 LNDTSWLQNLA YIADIFS YLNEVNLSLQGPNSTIFKVNSRINSFKSKLKLW
 EECITKNNTKCFANLNDFLETSNTALDPNLKSNILEHLNGLKNTFLEYFPP
 TCNNISWVENPFNECGNVDTLPIKEREQLIDIRTDITLKSSFVPDGIGPFWI
 KLMDEFPEISKRAVKELMPFVTITYLCEKSFVSYYVATKTKYRNRLDAEDDM
 RLQLTTIHDPDIDNLCNNKQQAQKSH

Fig. 13

D189AV377TIE469K +N85S
MMILNWLGKLESQSQEQSSCYLENSNCLPPTLDSTDIIGEEKAGTTS
 RKKRKYDEDYLNFGFTWTGDKDEPNGLviceqv **S**nssInpaklrhIDTKHPT
 LKGKSEYFKRKCNELNQKKHTFERYVRDDNKLLKASYLVSLRIAKQGE
 AYTIAEKLIPCTKDLTTCVFGEKFASKVDLVPLS **A**TTISRRIEDMSYFCE
 AVLVNRLKNAKCGFTLQMDDESTDVAGLAILLVFVRYIHESSEEDMLFECK
ALPTQTTGEEIFNLLNAYFEKHSIPWNLCYHICTDGAKAMVGVIKGVARIK
KLVPDIKASHCCCLHRHALAVKRIPNALHEVLNDAVKMINFIKSRPLNARVFA
 LLCDDLGSLSLHKNLLHTE **T**RWLSRGKVLTRFWELRDEIRIFFNEREFAGK
 LNDTSWLQNLA YIADIFS YLNEVNL SLQGPNSTIFKVNSRINSIKSKLKLWE
 ECITKNNT **K**CFANLNDFLETSNTALDPNLKSNILEHLNGLKNTFLEYFPPT
 CNNISWVENPFNECGNVDTLPKEREQLDIRDTTLKSSFVPDGGIPFWIK
 LMDEFPEISKRAVKELMPFVTITYLCEKSFSVYVATKTKYRNRLDAEDDMR
LQLTTIHPDIDNLCNNKQAKSH

Fig. 14

D189AV377T/E469K +A358K
 MMLNWLKSGKLESQSQEQSSCYLENSNCLPPTLDSTDIIGENKAGTTS
 RKKRKYDELYLNFQFTWTGDKDEPNGLviceqwnnsslnpakrthIDTKHPTL
 KGKSEYFKRKCNELNQKKHTFERYVRDDNKNLLKASYLVSLRIAKQGE
 AYTIAEKLKPKCTKDLTTCVFGGEKFASKVDLVPLSATTISRRIEDMSYFCE
 AVLVNRLKNAKCGETLQMDDESTDVAGLAILLVFVRYIHESSEEDMLFCK
 ALPTQTTGEEIFNLLNAYFEKHSPWNLCYHICTDGAKAMVGVIKGVIAARIK
 KLVPDIKASHCCCLHRHALAVKRIPNALHEVLNDVAVKMINFIKSRPLNARVF
 KLLCDDLGLSLHKNLLHTETRWLSRGKVLTRFWELRDEIRIFFNEREFA
 GKLDTSWLQNLAAYADIFSYLEVNEVNLSQLQGNSTIFKVNRSRINSIKSKLKL
 WEECITKNNTKCFANLNDFLETSNTALDPNLKSNILEHLNGLKNTFLEYF
 PPTCNNISWVENPFNECGNVDTLPKEREQLDIRDTTLKSSFVPDGIGPF
 WIKLMDEFPEISKRAVKELMPFVTTYLCEKSFVVVATKTKYRNRLDAED
 DMRQLTTIHPDIDNLCNNKQAQKSH

Fig. 15

D189ANV377TIE469K +K573E/E578L
MMLNWLKSGKLESQSQEQSSCYLENSNCLPPTLDSTDIIGEEKAGTTS
RKKRKYDEEDYLNFGFTWTGDKDEPNGLcviceqvnsslnpaklrhIDTKHPTL
KGKSEYFKRKCNELNQKKHTFERVYRDDNKNLLKASYLVSLRIAKQGE

AYTIAEKLIPCTKDLTTCVFGEKFAASKVDLVPLSATTISRRIEDMSYFCE
AVLVNRLKNAKCGFTLQMDDESTDVAGLAILLVFVRYIHESSEEDMLECK
ALPTQTTGEEIFNLLNAYFEKHSPWNLCYHICTDGAKAMVGVIKGVARIK
KLVPDIKASHCCCLHRHALAVKRIPNALHEVLNDAVKMINFIKSRPLNARVFA

LLCDDLGSLSLHKNLLHTETRWLSRGKVLTRFWELRDEIRIFFNEREFAGK
LNDTSWLQNLA YIADIFS YLNEVNLSLQGPNSTIFKVNSRINSIKSKLKLWE
ECITKNNTKCFANLNDFLETSNTALDPNLKSNILEHLNGLKNTFLEYFPPT
CNNISWVENPFNECGNVDTLPIKEREQLDIRDTTLKSSFPDGGIGPFWIK
LMDEFPEISERAVKLMPFYTTYLCEKSFSVYVATKTKYRNRLDAEDDM
RLQLTTHHPDIDNLCNNKQAKSH

Fig. 16