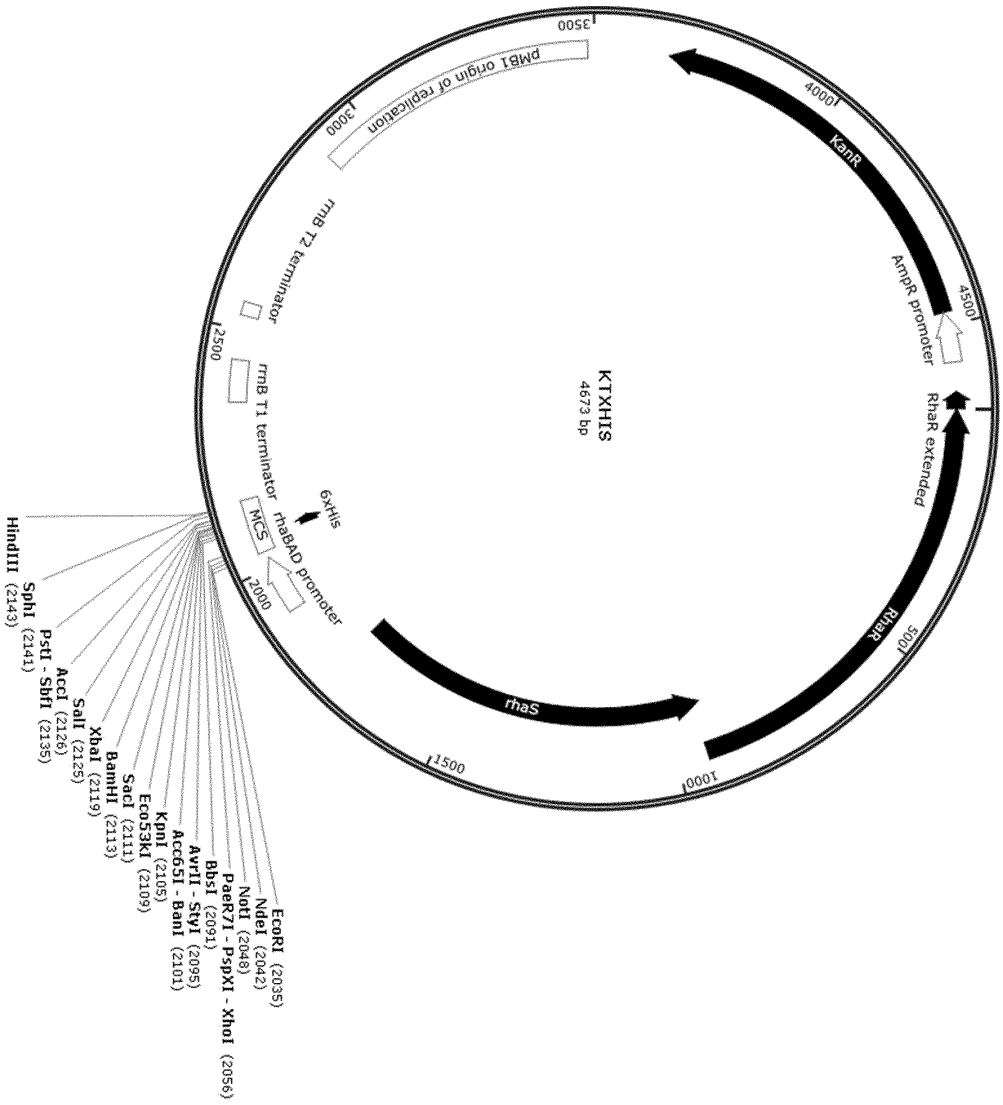
KTXHIS
4673 bp
pMB1 origin of replication
rrnB T2 terminator
rrnB T1 terminator
MCS
6xHis
rhaBAD promoter
rhaS
rhaR
RhaR extended
AmpR promoter
KanR
HindIII (2143)
SphI (2141)
PstI - SbfI (2135)
AccI (2126)
SalI (2125)
XbaI (2119)
BamHI (2113)
SacI (2111)
Eco53kI (2109)
KpnI (2105)
Acc65I - BanI (2101)
AvrII - StyI (2095)
BbsI (2091)
PaeR7I - PspXI - XhoI (2056)
NotI (2048)
NdeI (2042)
EcoRI (2035)

Figure 1

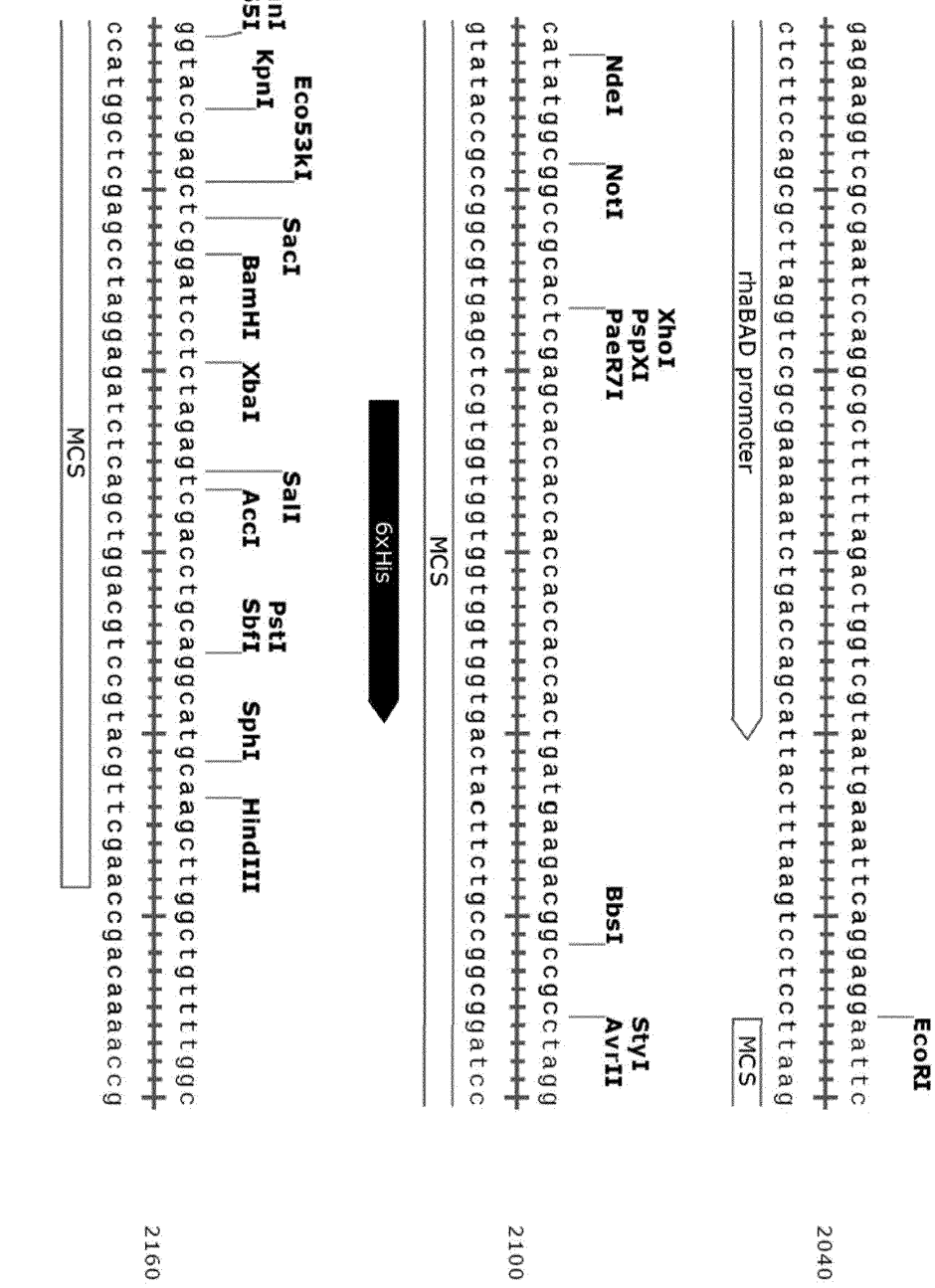
EcoRI
gagaaggtcgcgaatccaggcgctttttagactggtcgtaatgaaattcaggaggaattc
2040
ctcttccagcgcttaggtccgcgaaaaatctgaccagcattactttaagtcctccttaag
rhaBAD promoter
MCS
XhoI
PspXI
PaeR7I
NdeI
NotI
BbsI
StyI
AvrII
catatggcggccgcactcgagcaccaccaccaccaccactgatgaagacggccgcctagg
2100
gtataccgccggcgtgagctcgtggtggtggtggtgactacttctgccggcggatcc
MCS
6xHis
BanI
Acc65I
KpnI
Eco53kI
SacI
BamHI
XbaI
SalI
AccI
SbfI
PstI
SphI
HindIII
ggtaccgagctcggatcctctagagtcgacctgcaggcatgcaagcttggctgttttggc
2160
ccatggctcgagcctaggagatctcagctggacgtccgtacgttcgaaccgacaaaaccg
MCS

Figure 2

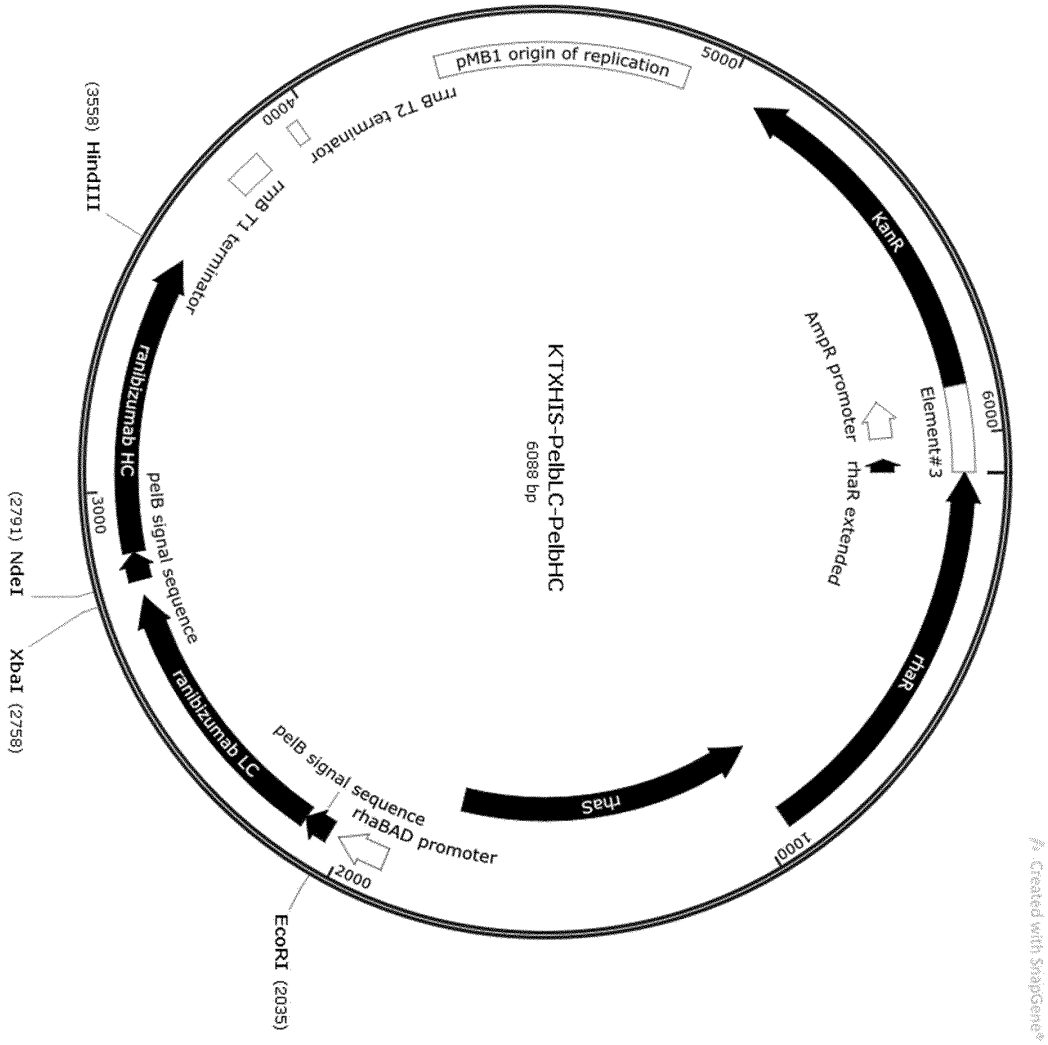
KTXHIS-PelbLC-PelbHC
6088 bp
pMB1 origin of replication
5000
rrnB T2 terminator
4000
rrnB T1 terminator
HindIII (3558)
ranibizumab HC
3000
pelB signal sequence
NdeI (2791)
XbaI (2758)
ranibizumab LC
pelB signal sequence
rhaBAD promoter
2000
EcoRI (2035)
rhaS
rhaR
1000
AmpR promoter
rhaR extended
Element#3
6000
KanR
Created with SnapGene®

Figure 3

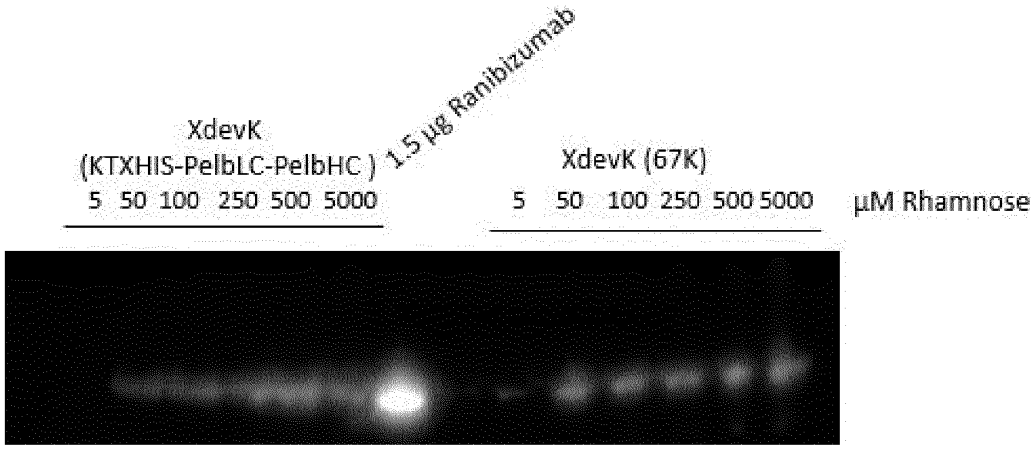

Figure 4a

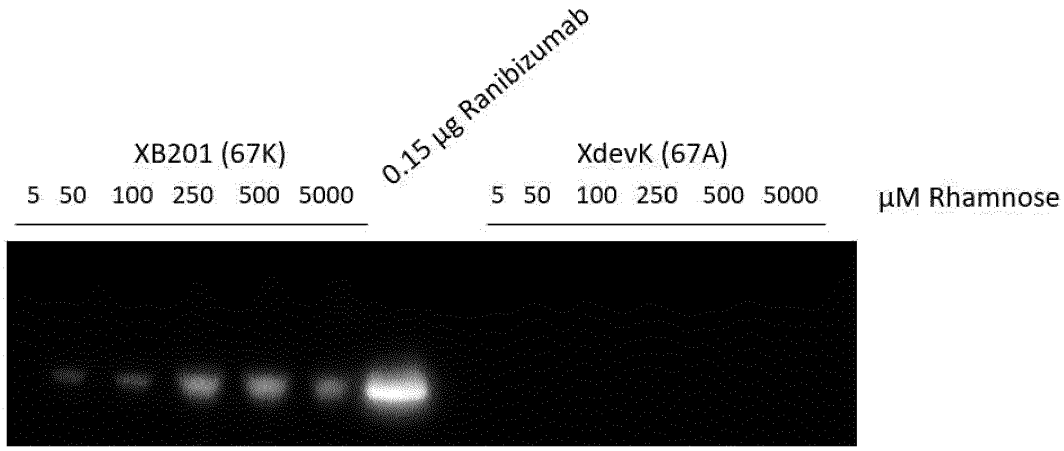

Figure 4b

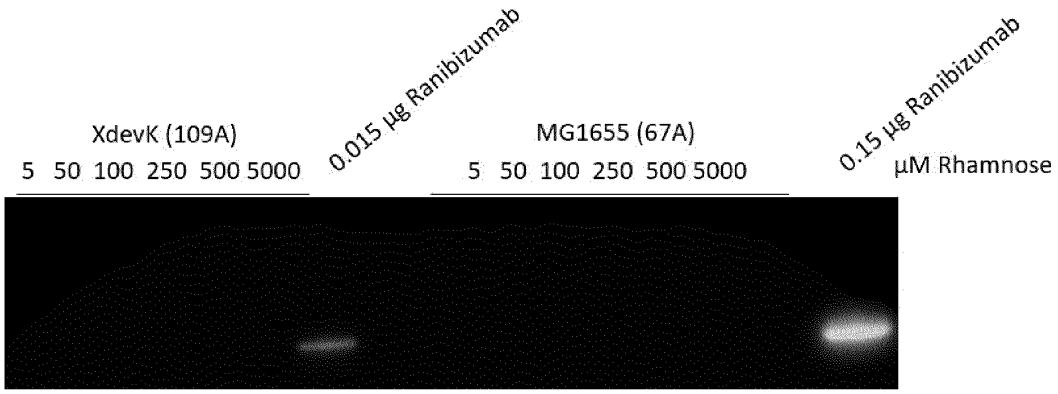

Figure 4c

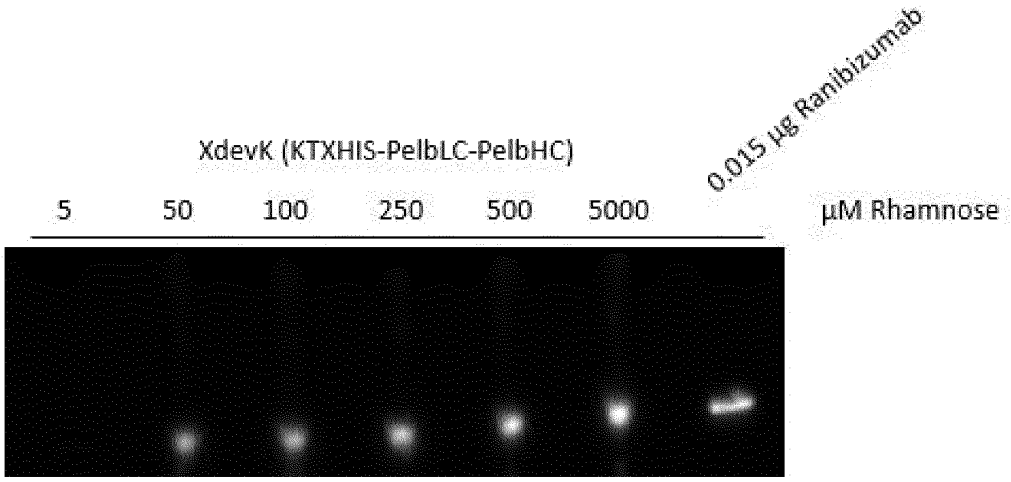

Figure 4d

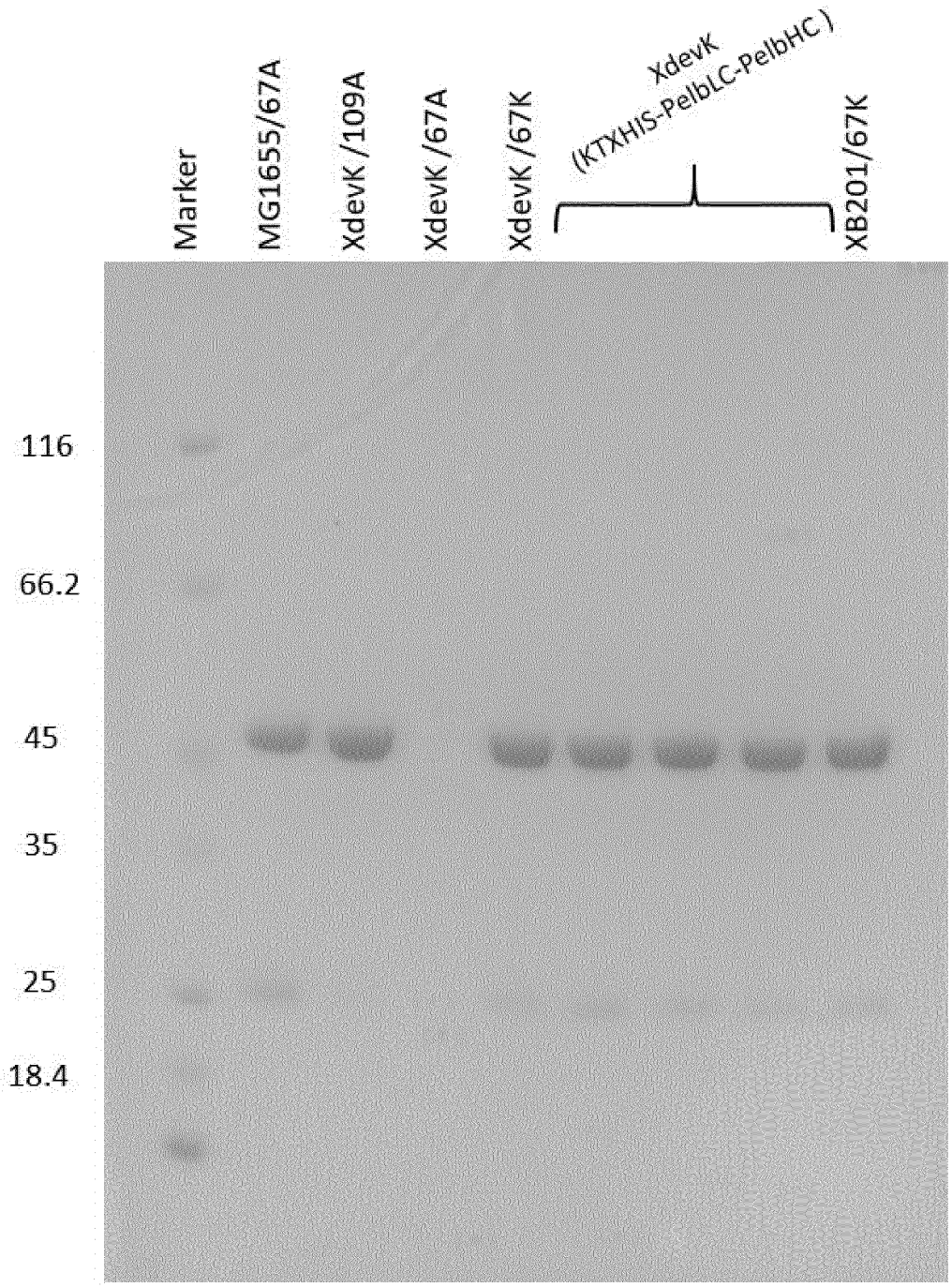
Marker
MG1655/67A
XdevK /109A
XdevK /67A
XdevK /67K
XdevK
(KTXHIS-PelbLC-PelbHC)
XB201/67K
116
66.2
45
35
25
18.4

Figure 5

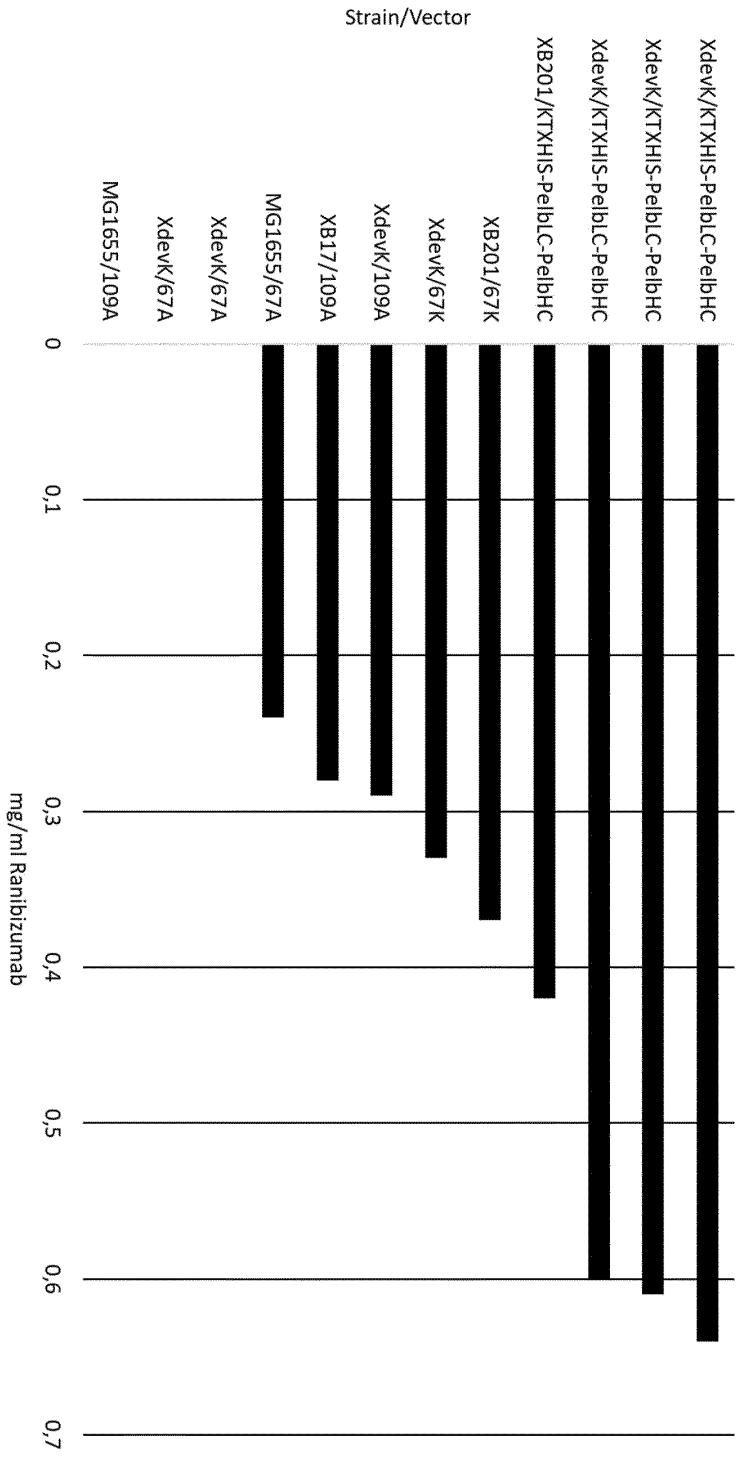
Strain/Vector
MG1655/109A
XdevK/67A
XdevK/67A
MG1655/67A
XB17/109A
XdevK/109A
XdevK/67K
XB201/67K
XB201/KTXHIS-PelbLC-PelbHC
XdevK/KTXHIS-PelbLC-PelbHC
XdevK/KTXHIS-PelbLC-PelbHC
XdevK/KTXHIS-PelbLC-PelbHC
0
0,1
0,2
0,3
0,4
0,5
0,6
0,7
mg/ml Ranibizumab

Figure 6

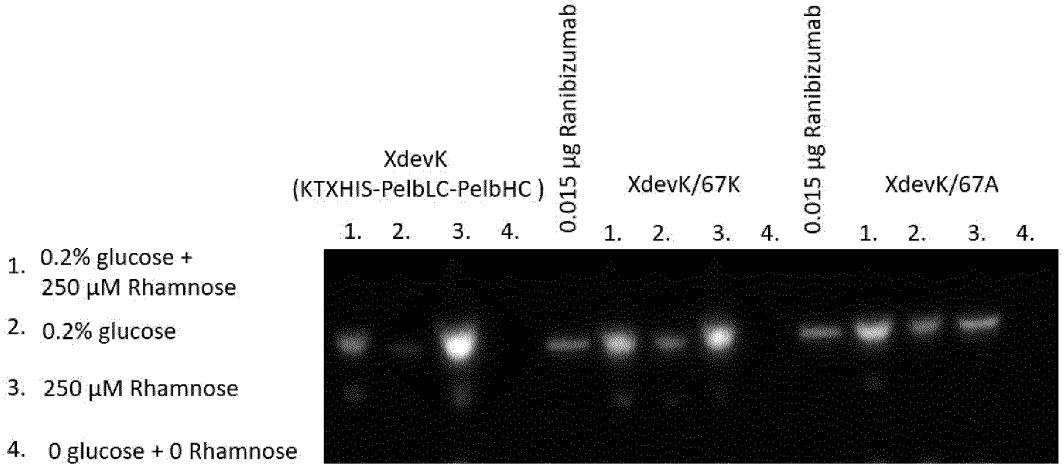

Figure 7a

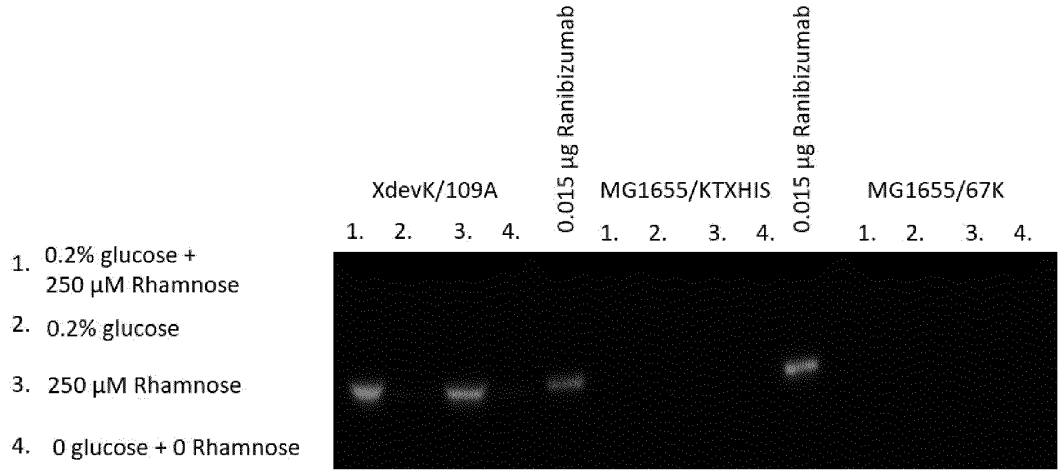

Figure 7b

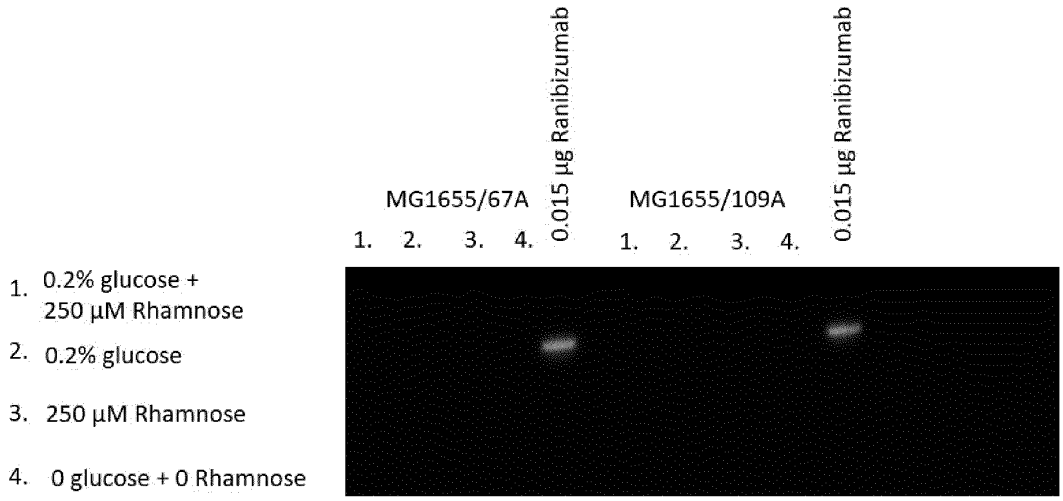
MG1655/67A
0.015 µg Ranibizumab
MG1655/109A
0.015 µg Ranibizumab
1. 2. 3. 4.
1. 2. 3. 4.
1. 0.2% glucose + 250 µM Rhamnose
2. 0.2% glucose
3. 250 µM Rhamnose
4. 0 glucose + 0 Rhamnose

Figure 7c