Figures

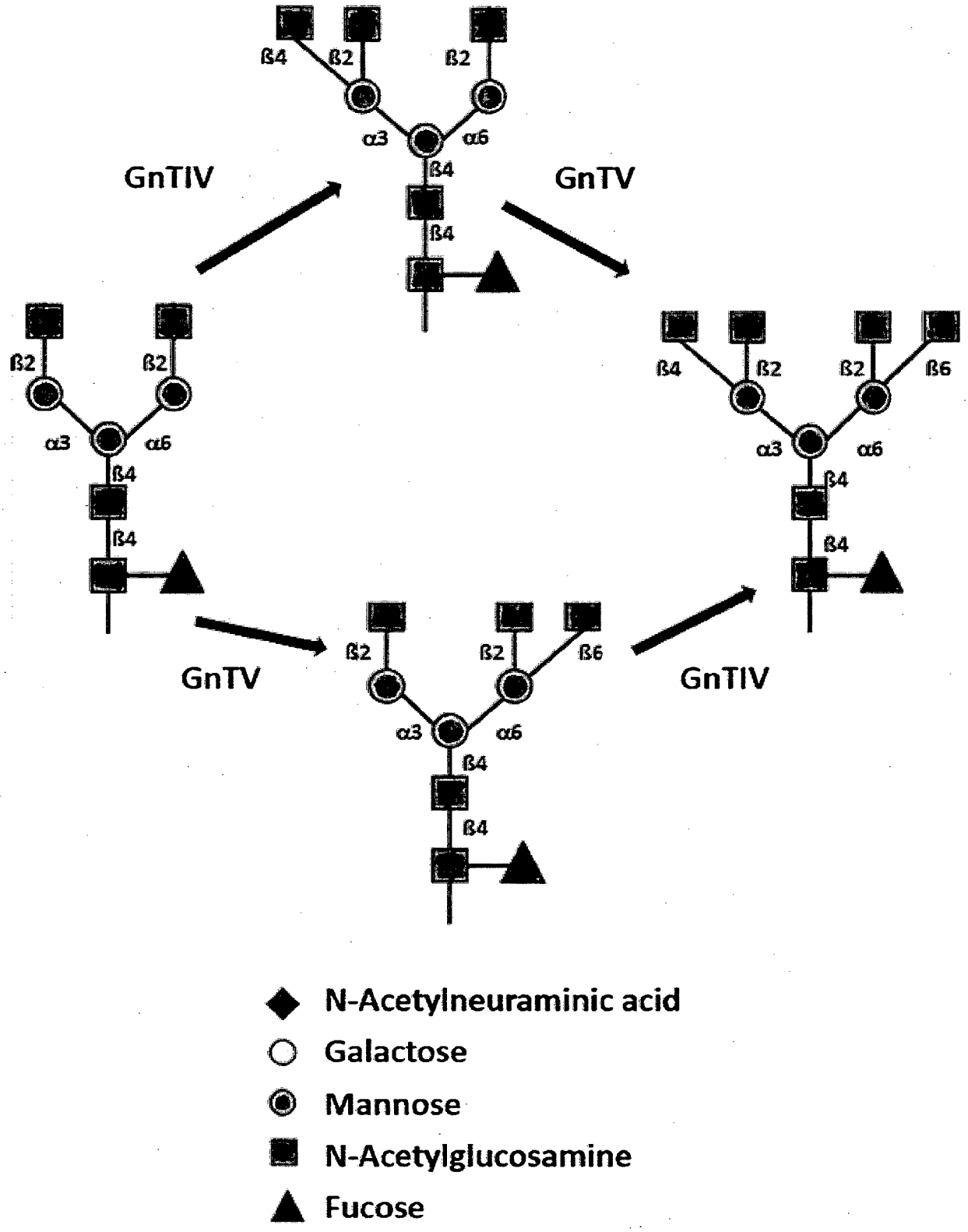


Figure 1

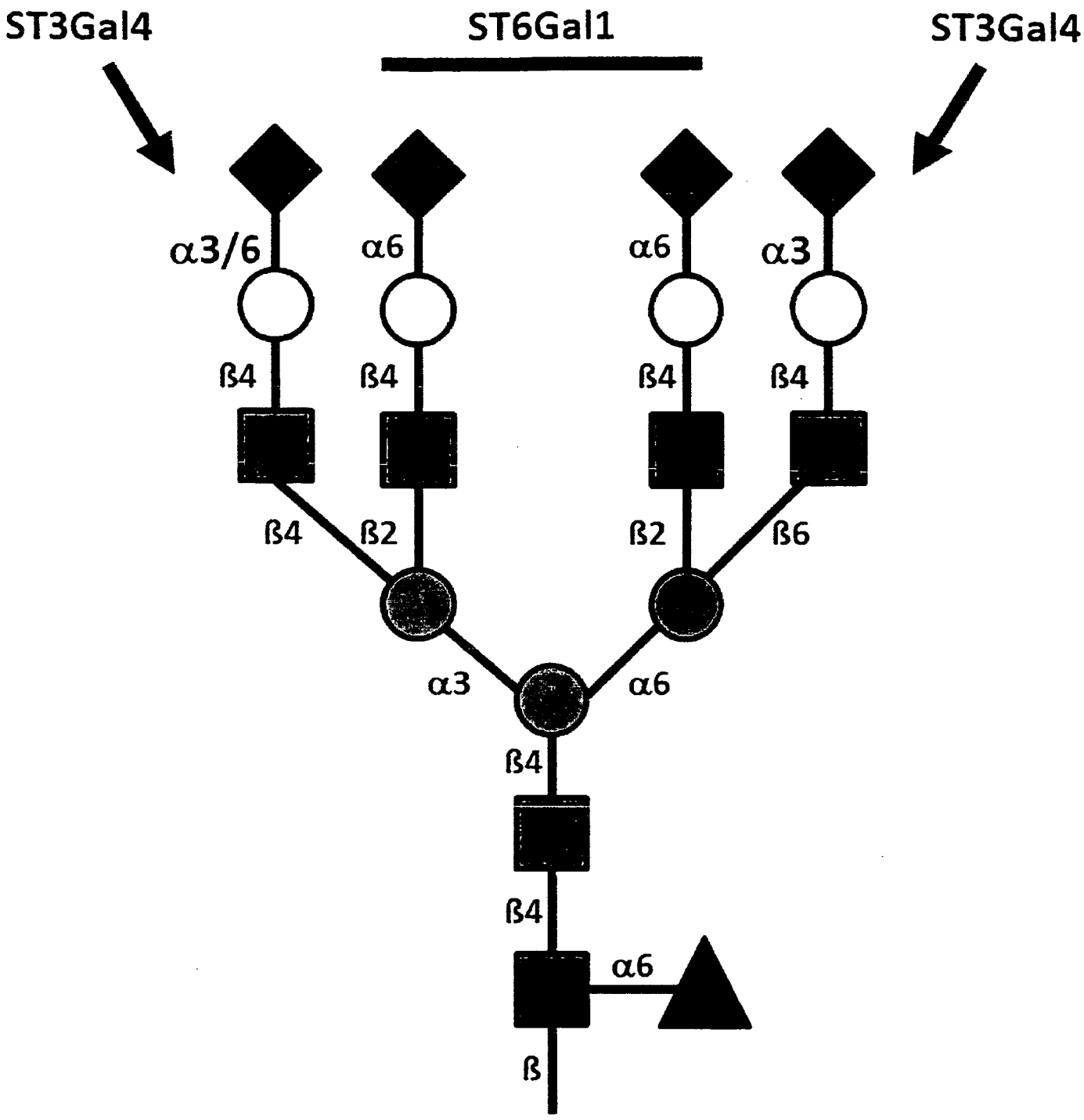

ST3Gal4
ST6Gal1
ST3Gal4
α3/6
α6
α6
α3
ß4
ß4
ß4
ß4
ß4
ß2
ß2
ß6
α3
α6
ß4
ß4
α6
ß

Figure 2

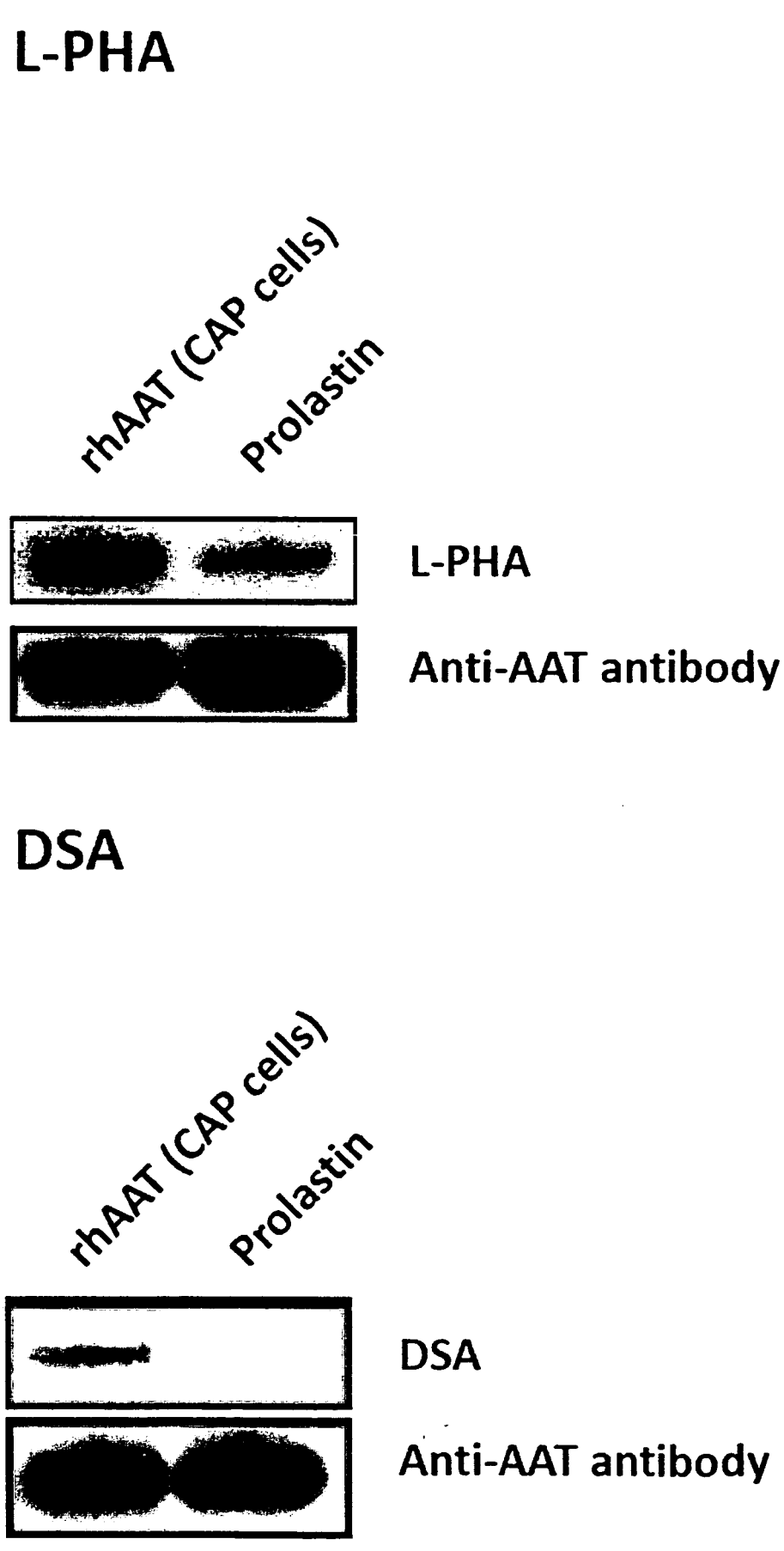

L-PHA
rhAAT (CAP cells)
Prolastin
L-PHA
Anti-AAT antibody
DSA
rhAAT (CAP cells)
Prolastin
DSA
Anti-AAT antibody

Figure 3

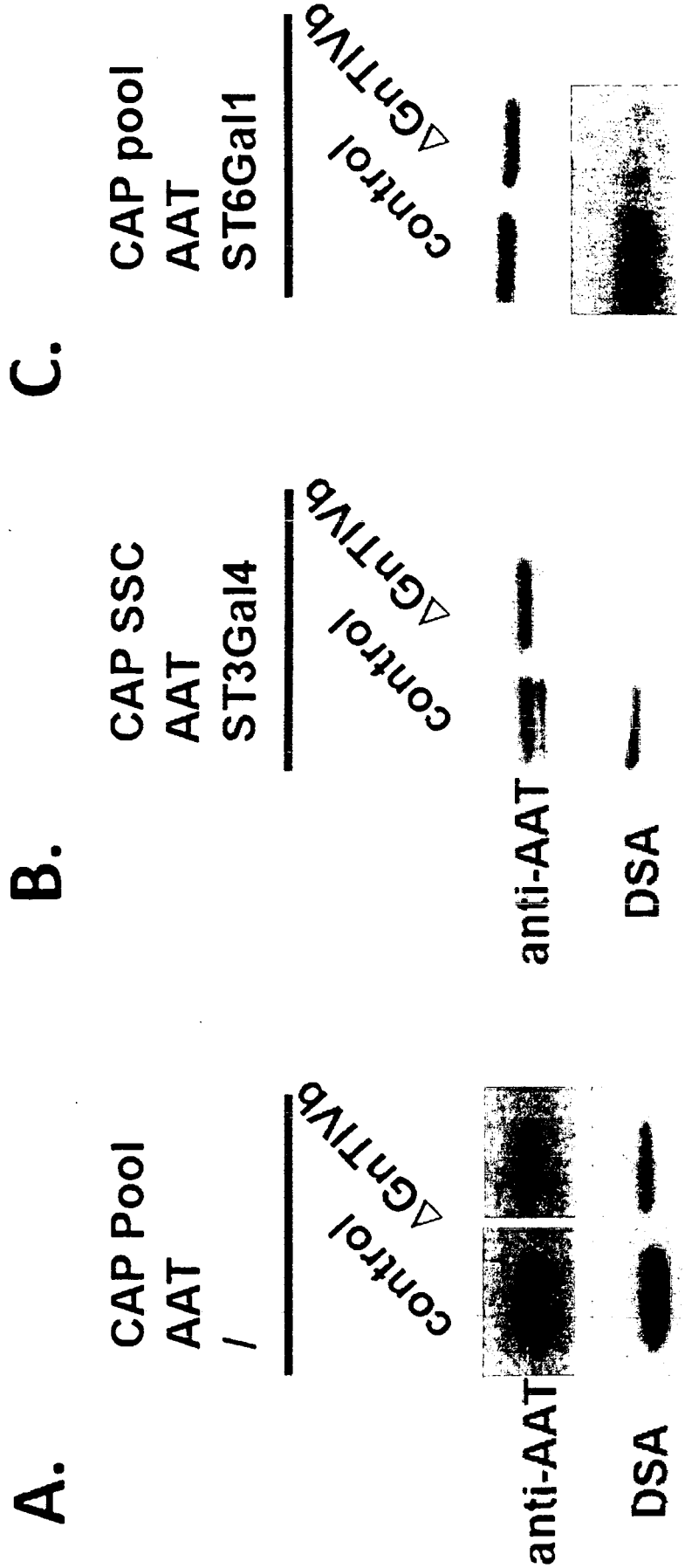

A.
CAP Pool
AAT
/
control
ΔGnTIVb
anti-AAT
DSA
B.
CAP SSC
AAT
ST3Gal4
control
ΔGnTIVb
anti-AAT
DSA
C.
CAP pool
AAT
ST6Gal1
control
ΔGnTIVb

Figure 4

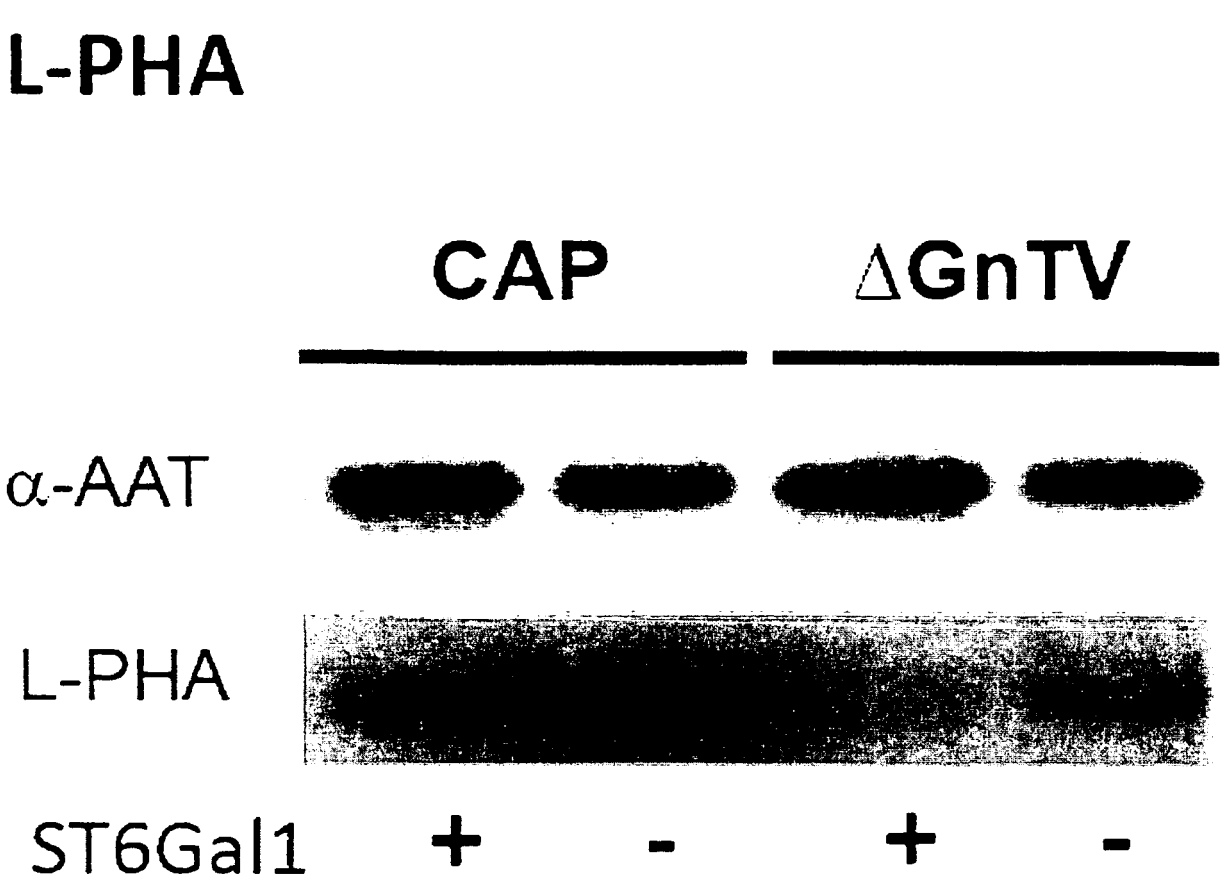


Figure 5

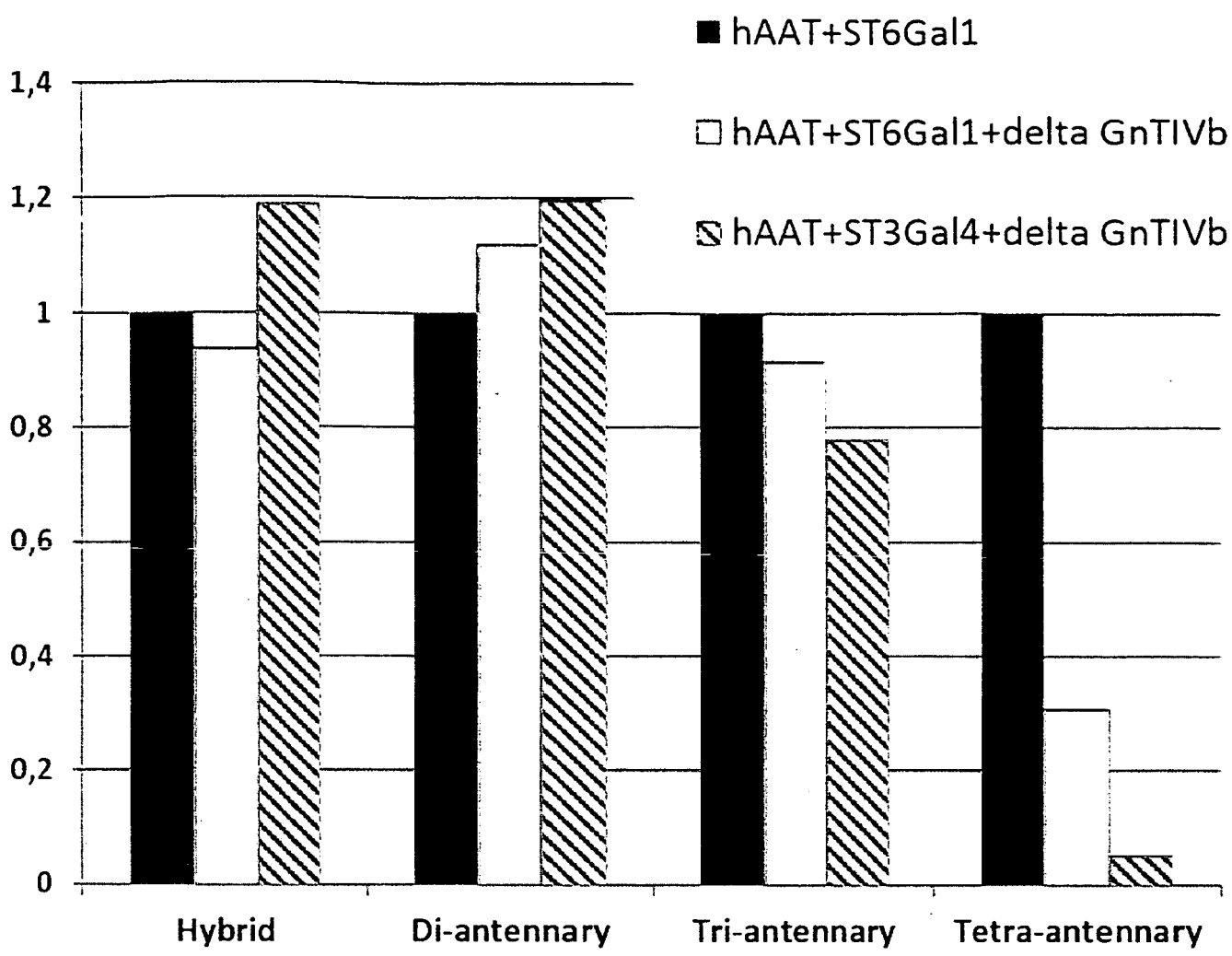

hAAT+ST6Gal1
hAAT+ST6Gal1+delta GnTIVb
hAAT+ST3Gal4+delta GnTIVb
1,4
1,2
1
0,8
0,6
0,4
0,2
0
Hybrid
Di-antennary
Tri-antennary
Tetra-antennary

Figure 6

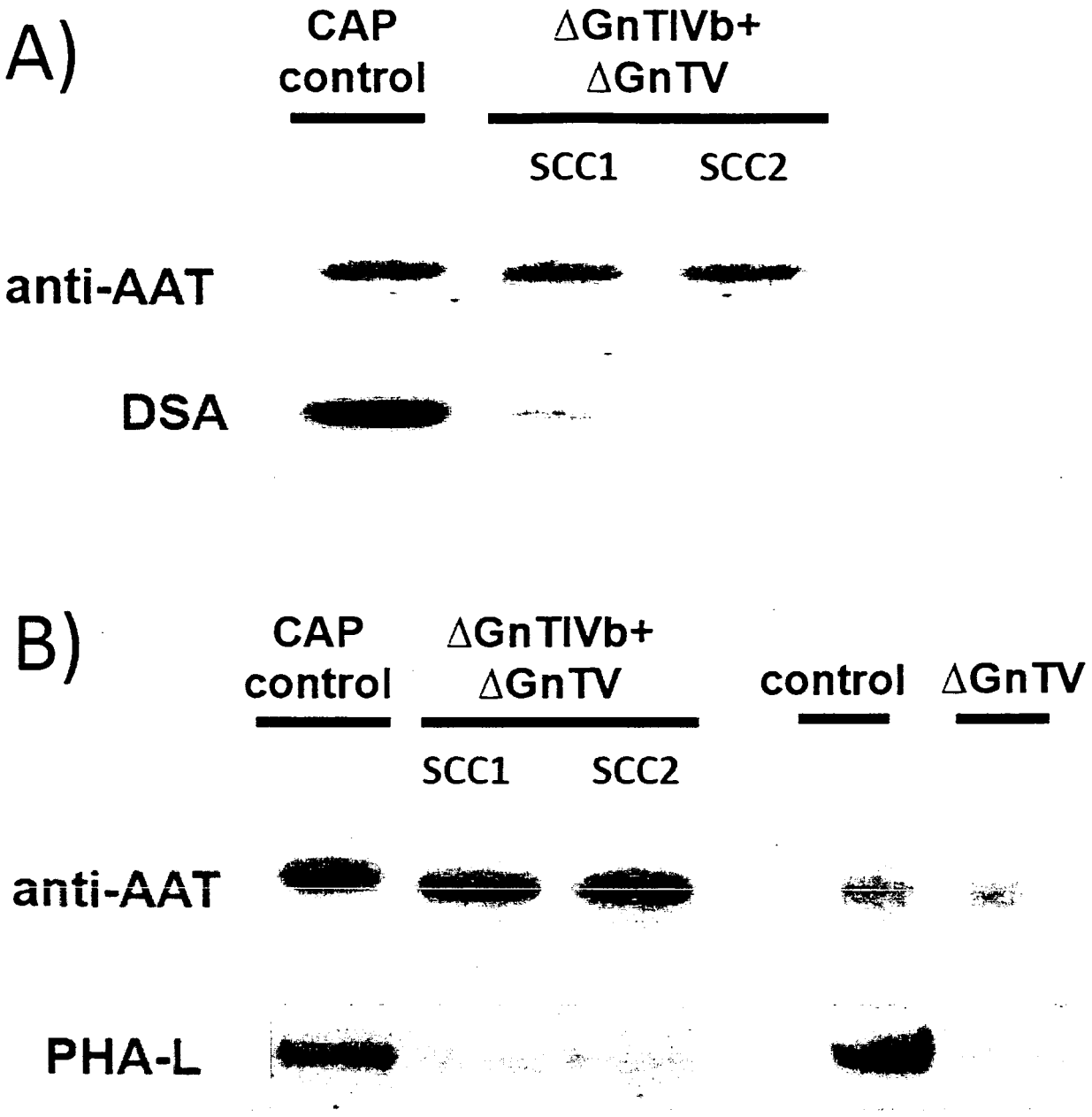

A)
CAP control
ΔGnTIVb+ ΔGnTV
SCC1
SCC2
anti-AAT
DSA
B)
CAP control
ΔGnTIVb+ ΔGnTV
control
ΔGnTV
SCC1
SCC2
anti-AAT
PHA-L

Figure 7

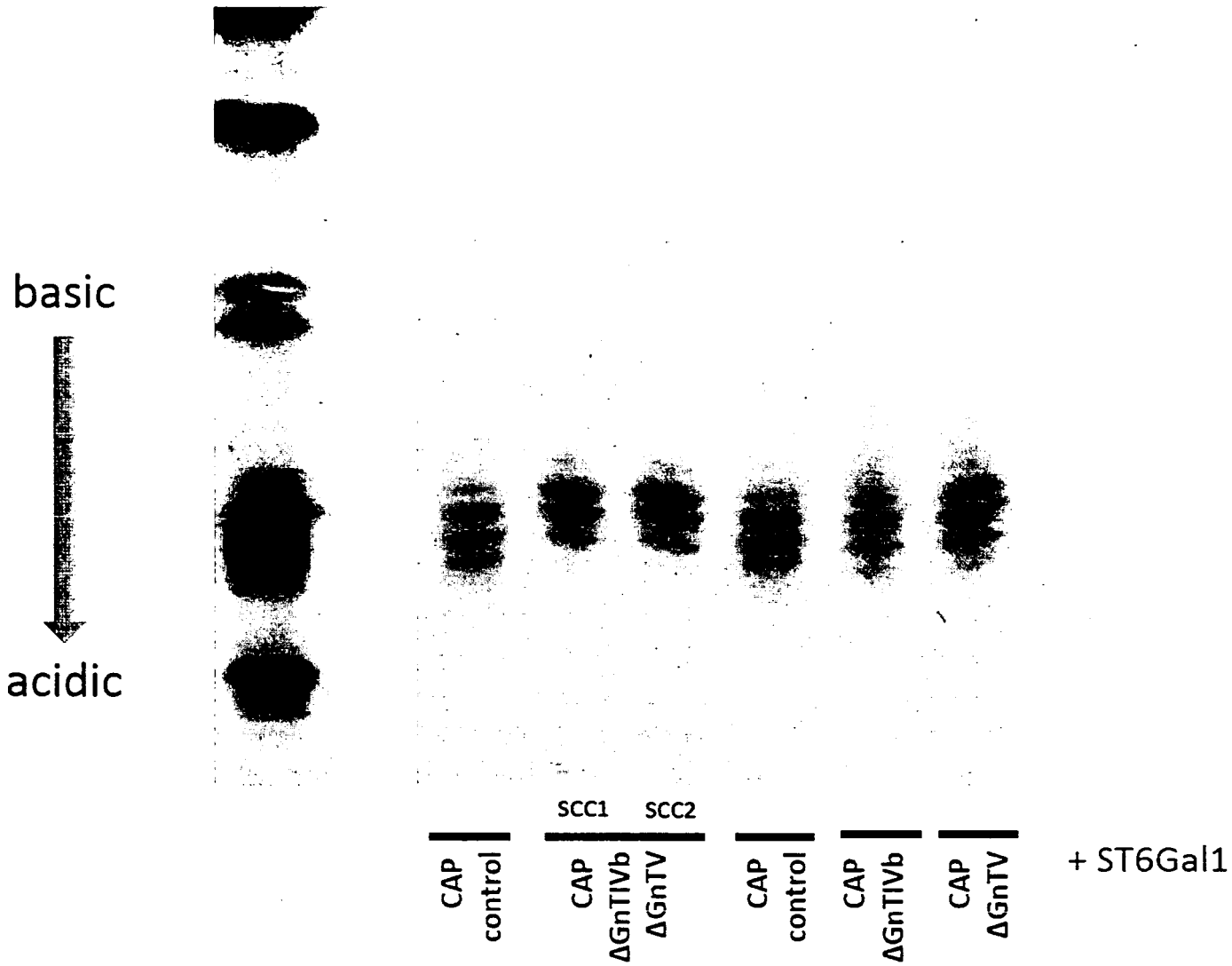

basic
acidic
SCC1
SCC2
CAP control
CAP ΔGnTIVb ΔGnTV
CAP control
CAP ΔGnTIVb
CAP ΔGnTV
+ ST6Gal1

Figure 8

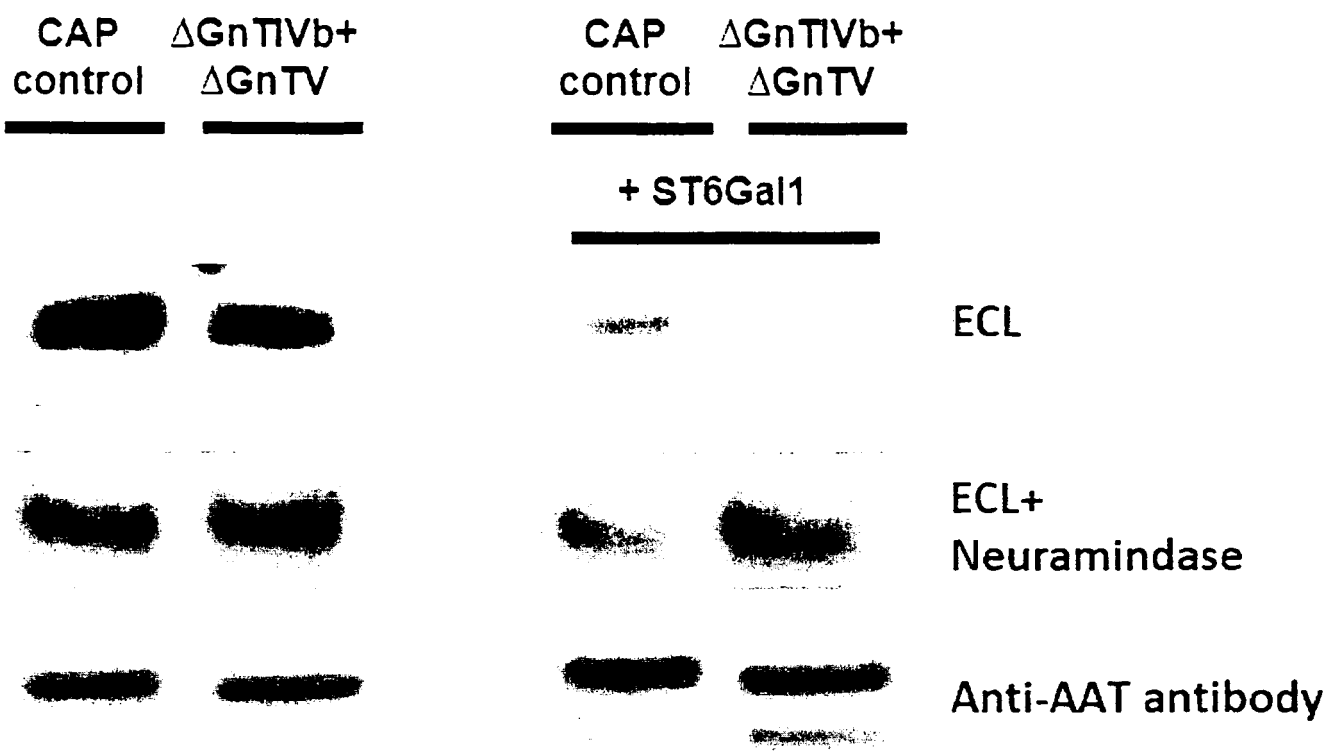
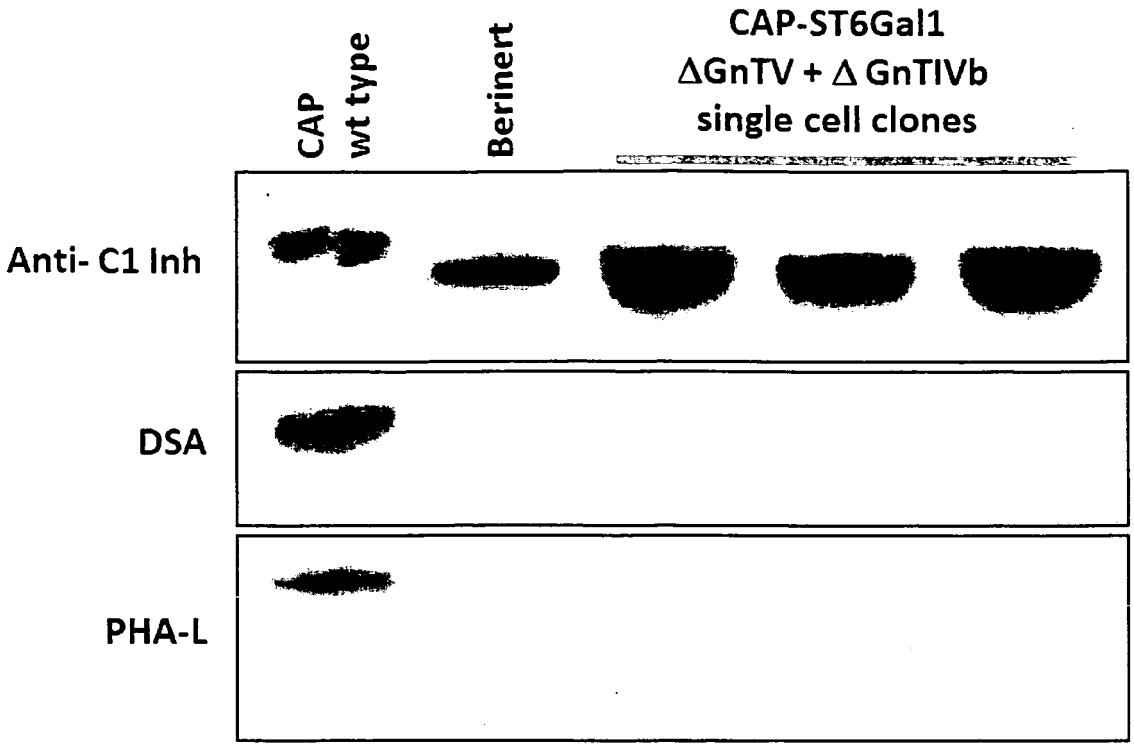

CAP control
ΔGnTIVb+ ΔGnTV
CAP control
ΔGnTIVb+ ΔGnTV
+ ST6Gal1
ECL
ECL+ Neuramindase
Anti-AAT antibody

Figure 9


CAP wt type
Berinert
CAP-ST6Gal1
ΔGnTV + Δ GnTIVb
single cell clones
Anti- C1 Inh
DSA
PHA-L

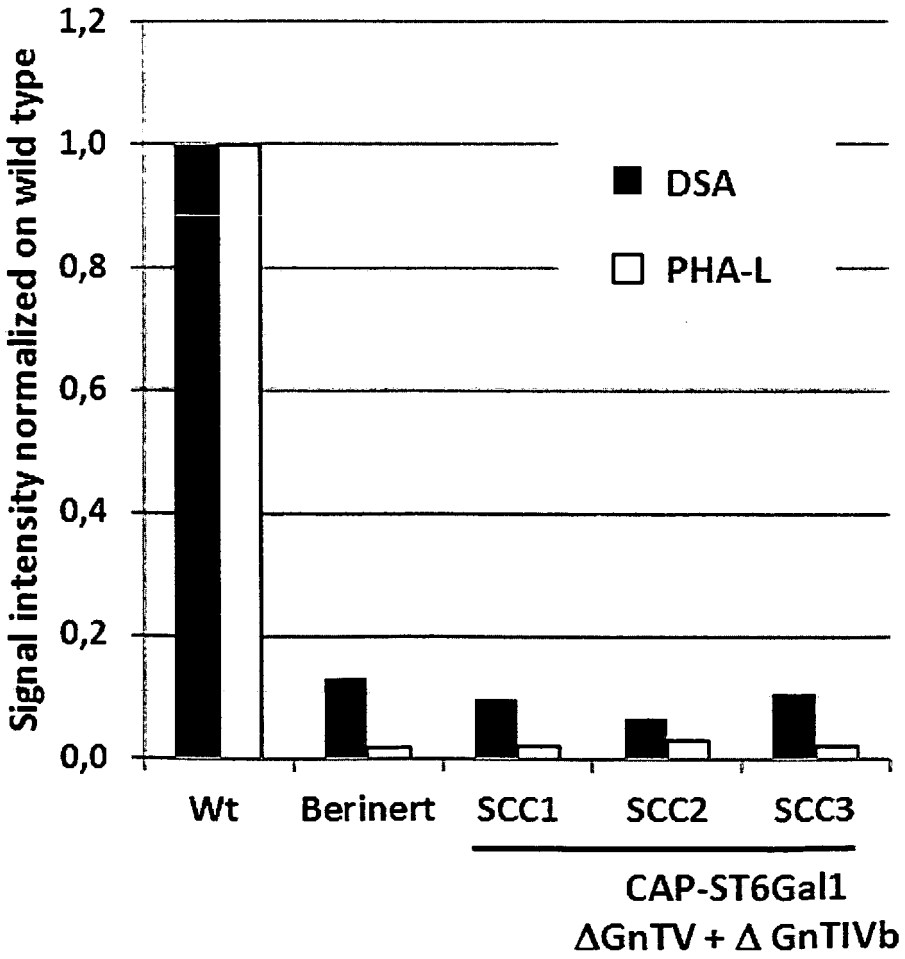

Signal intensity normalized on wild type
1,2
1,0
0,8
0,6
0,4
0,2
0,0
DSA
PHA-L
Wt
Berinert
SCC1
SCC2
SCC3
CAP-ST6Gal1
ΔGnTV + Δ GnTIVb

Figure 10