Fig. 1

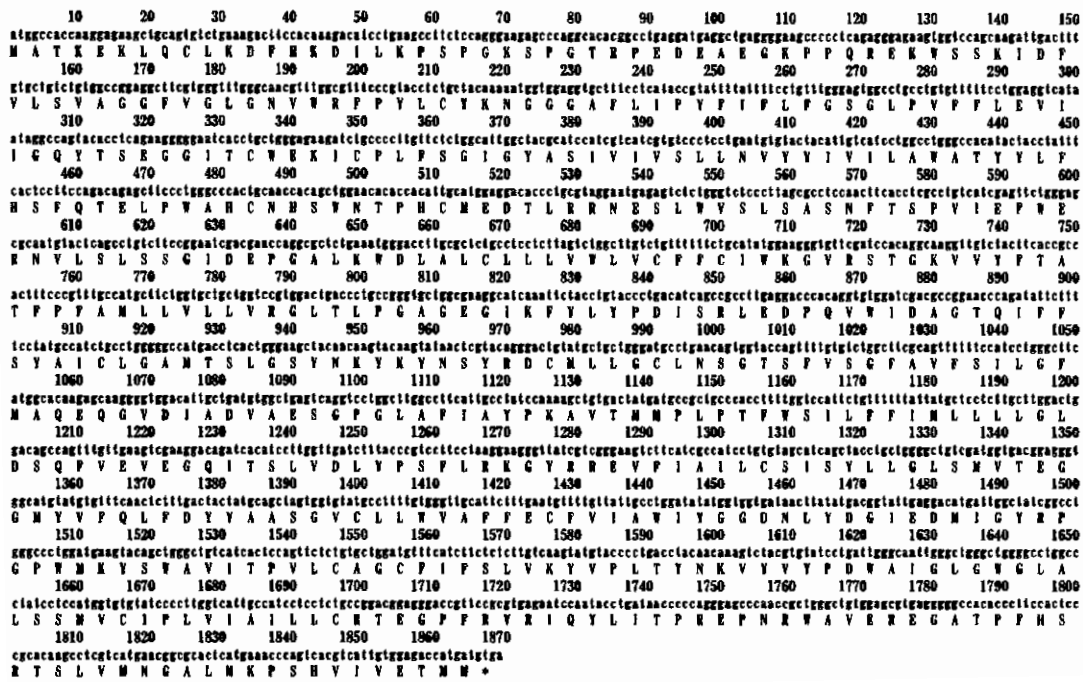


Fig. 2

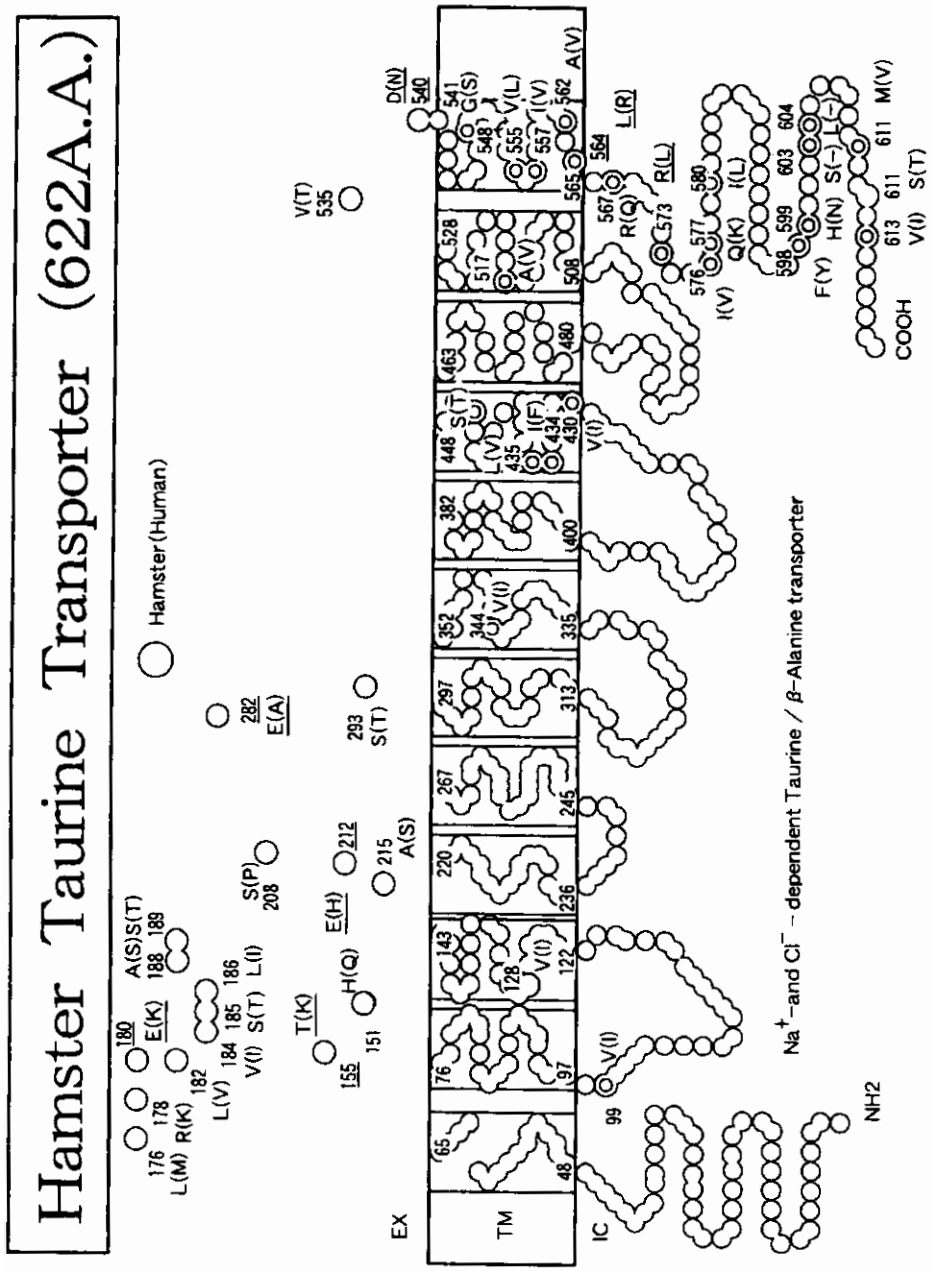

Hamster Taurine Transporter (622A.A.)
Hamster(Human)
Na+-and Cl- - dependent Taurine / β-Alanine transporter
NH2
COOH
EX
IC
TM

Fig. 3

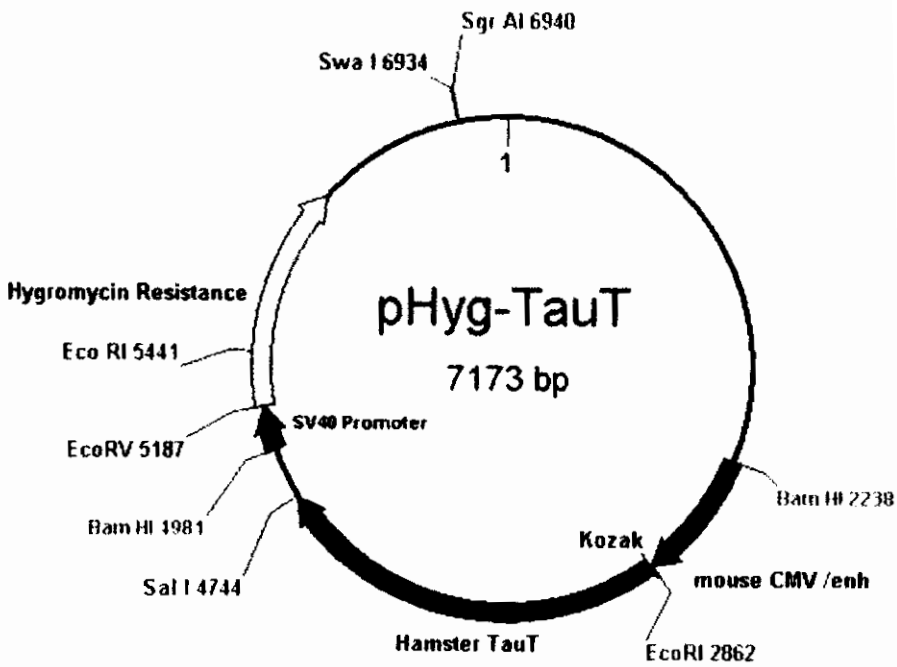
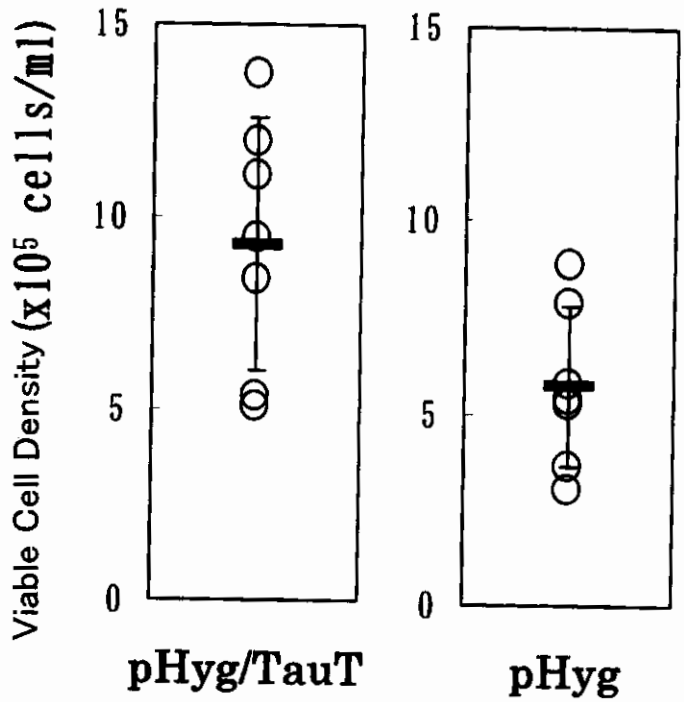

Sgr AI 6940
Swa I 6934
1
pHyg-TauT
7173 bp
Hygromycin Resistance
Eco RI 5441
SV40 Promoter
EcoRV 5187
Bam HI 1981
Sal I 4744
Hamster TauT
Kozak
mouse CMV /enh
EcoRI 2862

Fig. 4

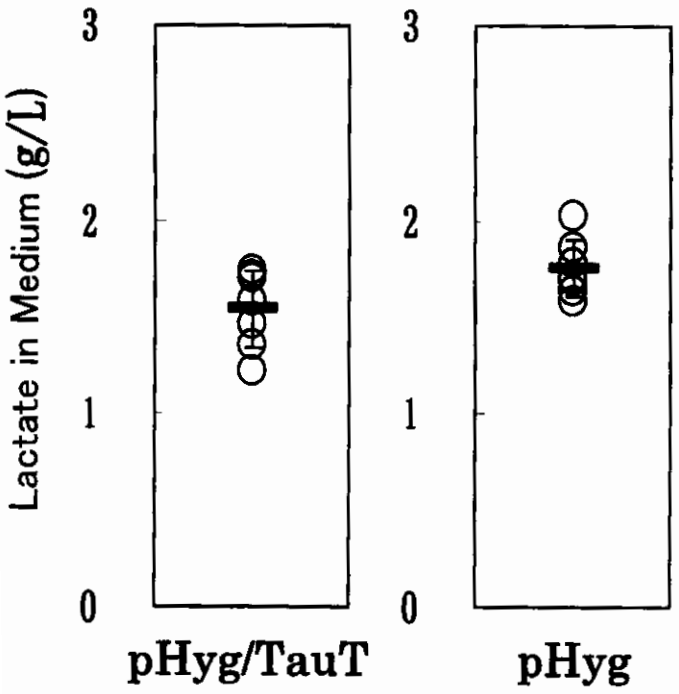


Mean Viable Cell Density
(n=7)

pHyg/TauT
(9.28±3.27)
x 10^5 cells/ml
pHyg
(5.69±2.09)
x 10^5 cells/ml

t Test **P <0.05**

Fig. 5



Mean Lactate Concentration
(n=7)

pHyg/TauT
(1.54±0.20) g/L

pHyg
(1.75±0.15) g/L

t Test **P <0.05**

Fig. 6

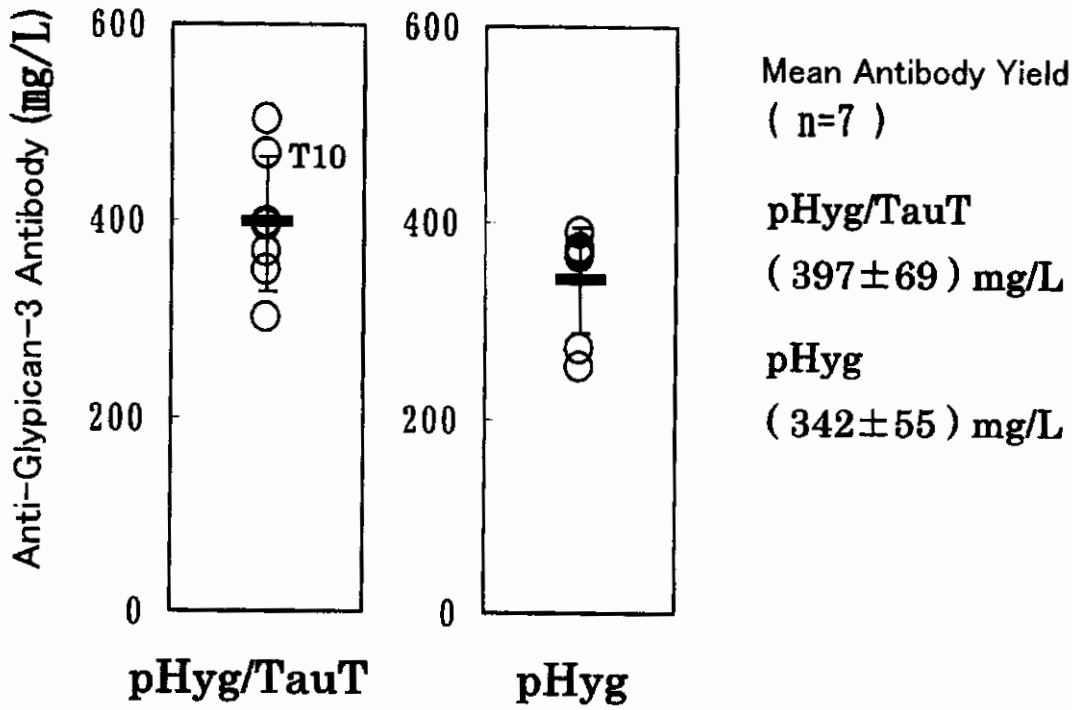

Anti-Glypican-3 Antibody (mg/L)
600
400
200
0
T10
600
400
200
0
pHyg/TauT
pHyg
Mean Antibody Yield
(n=7)
pHyg/TauT
(397±69) mg/L
pHyg
(342±55) mg/L

Fig. 7

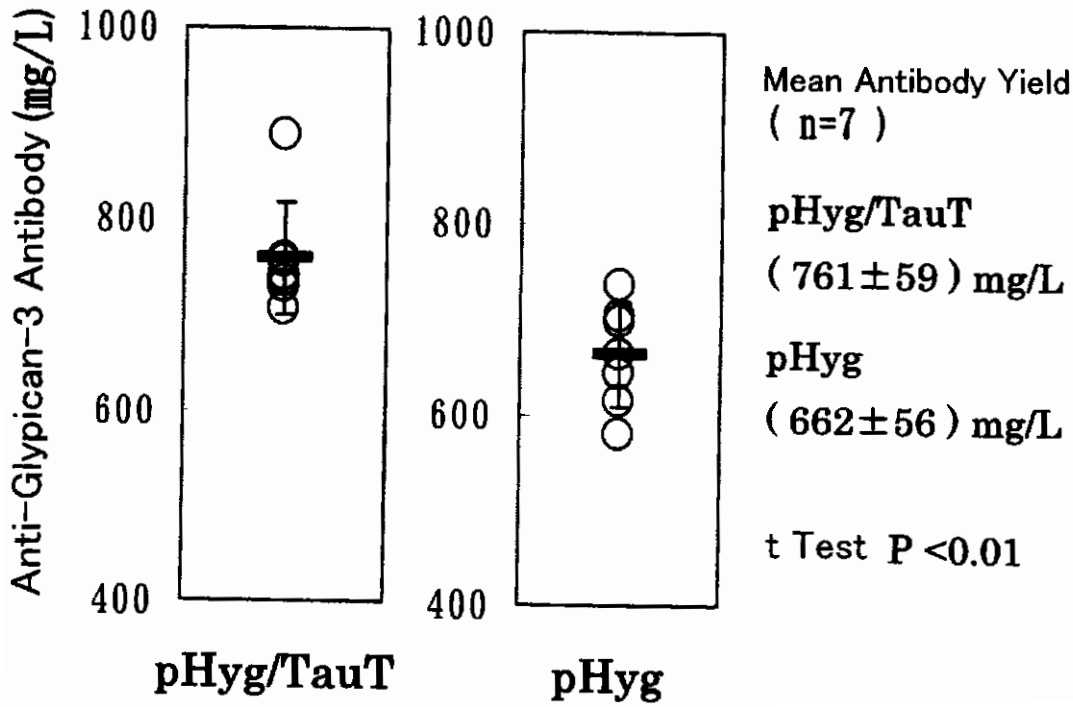

Anti-Glypican-3 Antibody (mg/L)
1000
800
600
400
1000
800
600
400
pHyg/TauT
pHyg
Mean Antibody Yield
(n=7)
pHyg/TauT
(761±59) mg/L
pHyg
(662±56) mg/L
t Test P <0.01

Fig. 8

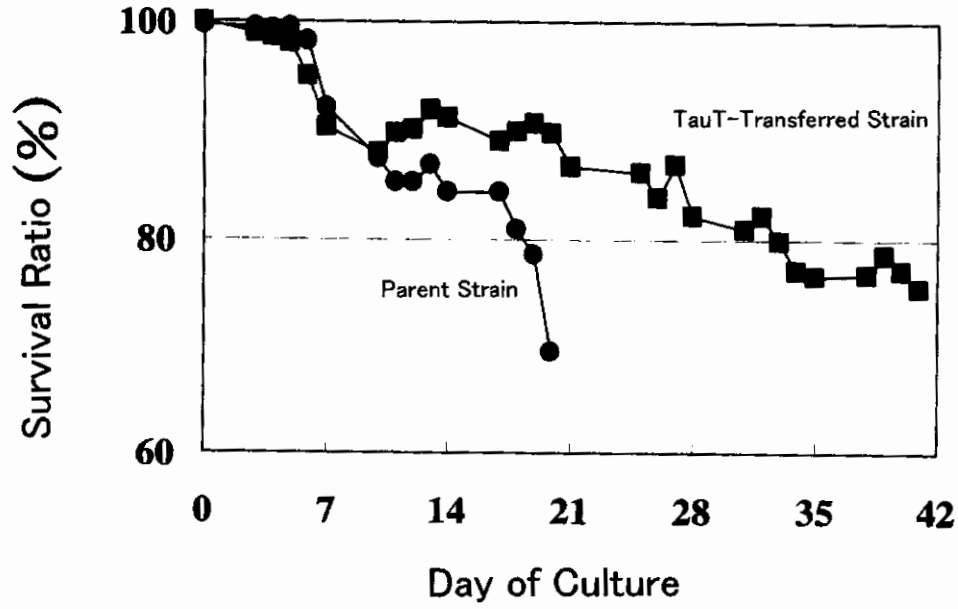

100
80
60
Survival Ratio (%)
TauT-Transferred Strain
Parent Strain
0
7
14
21
28
35
42
Day of Culture

Fig. 9

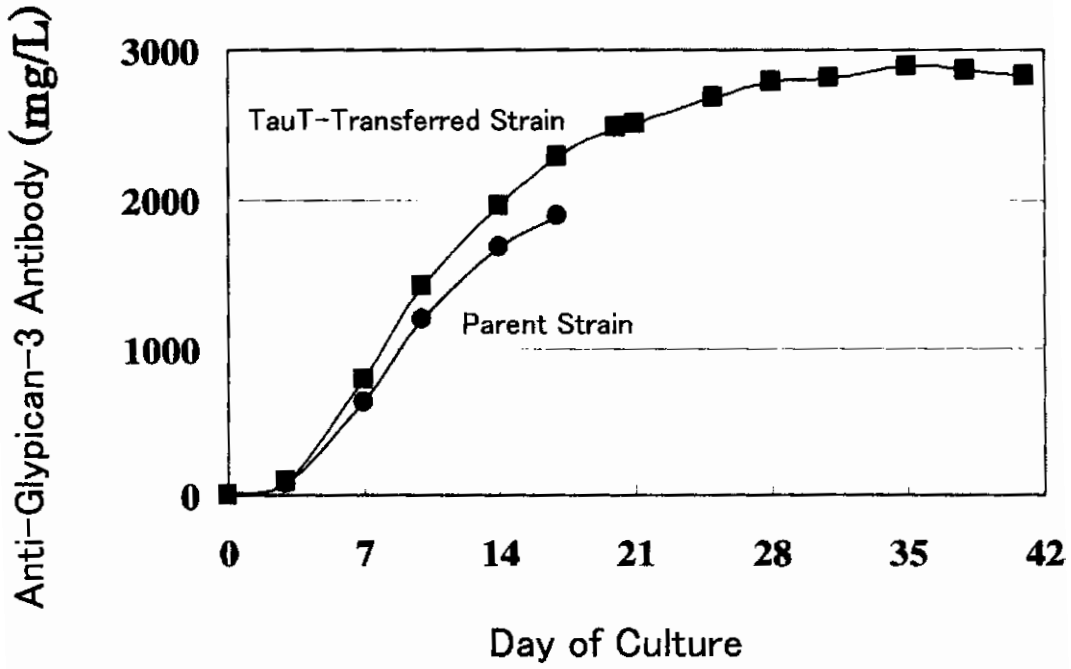

3000
2000
1000
0
Anti-Glypican-3 Antibody (mg/L)
TauT-Transferred Strain
Parent Strain
0
7
14
21
28
35
42
Day of Culture

Fig. 10

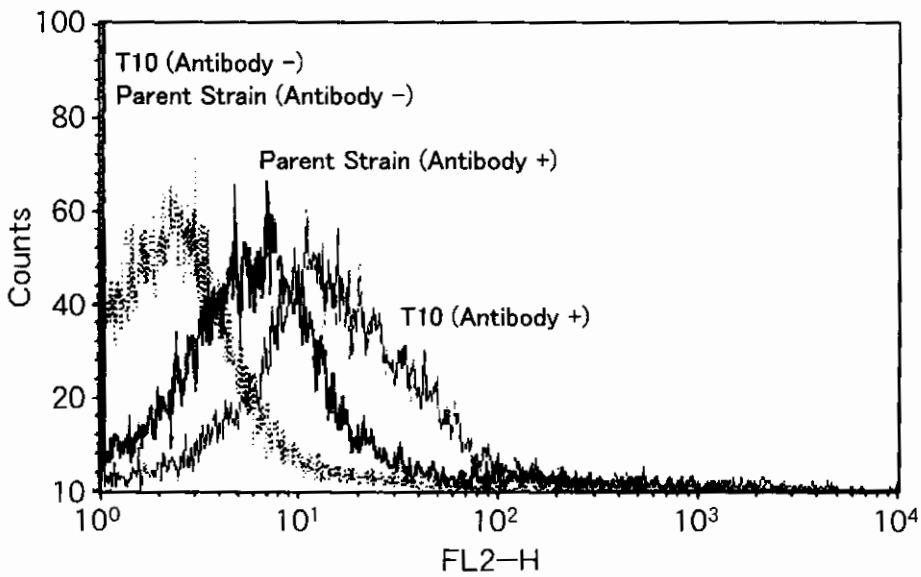

T10 (Antibody −)
Parent Strain (Antibody −)
Parent Strain (Antibody +)
T10 (Antibody +)
Counts
100
80
60
40
20
10
10^0
10^1
10^2
10^3
10^4
FL2−H

Fig. 11

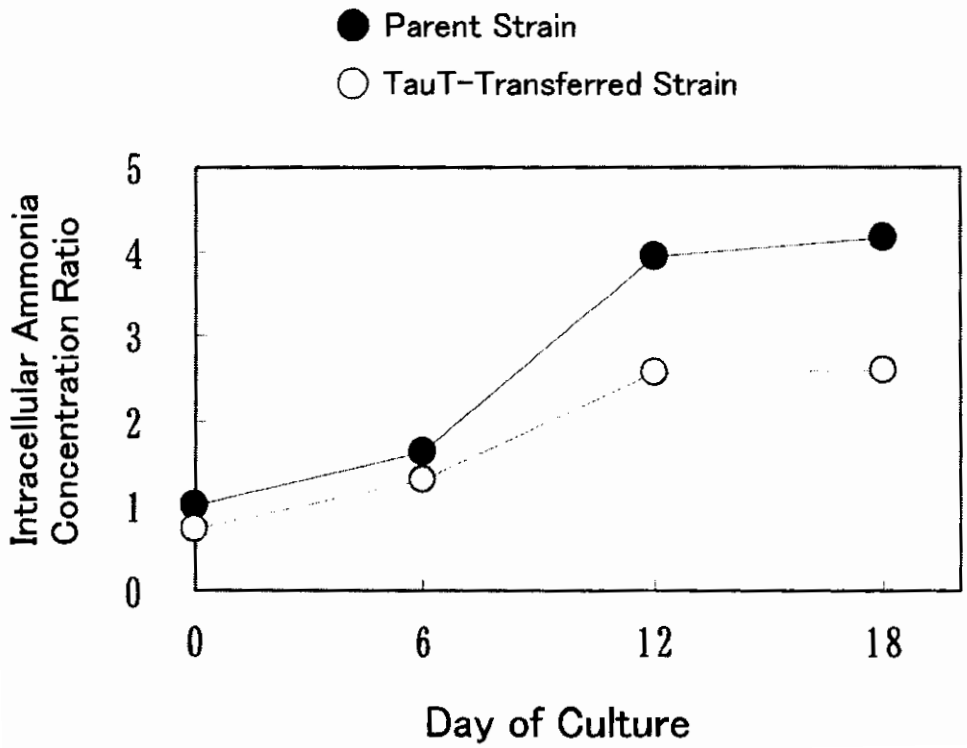
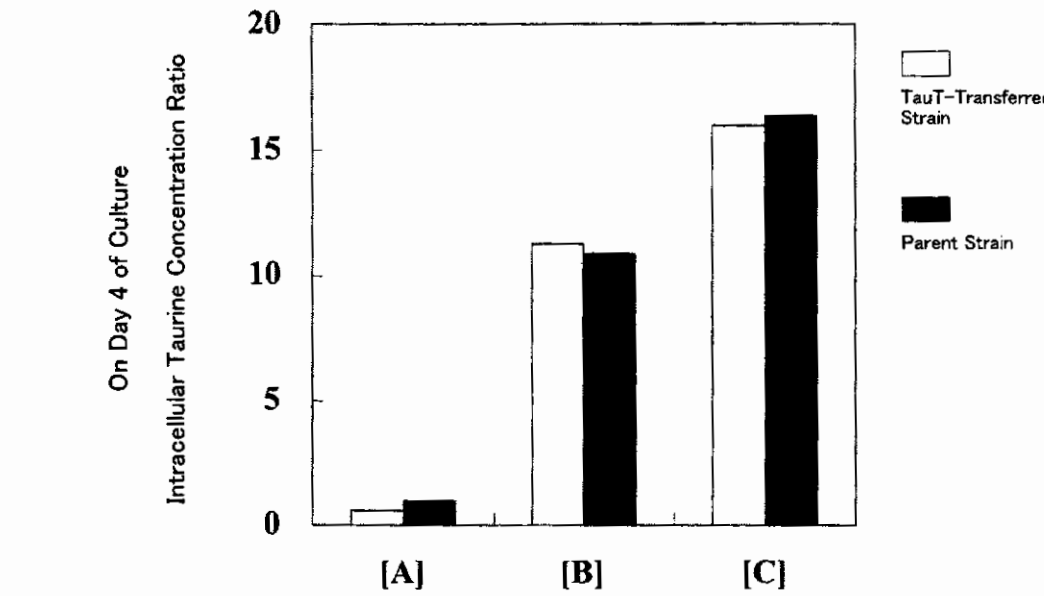
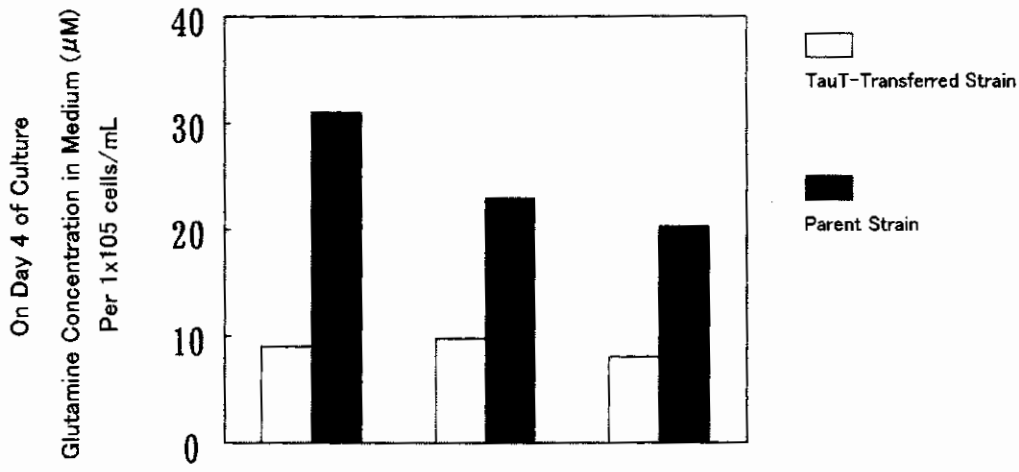

Parent Strain
TauT−Transferred Strain
Intracellular Ammonia Concentration Ratio
5
4
3
2
1
0
0
6
12
18
Day of Culture

Fig. 12



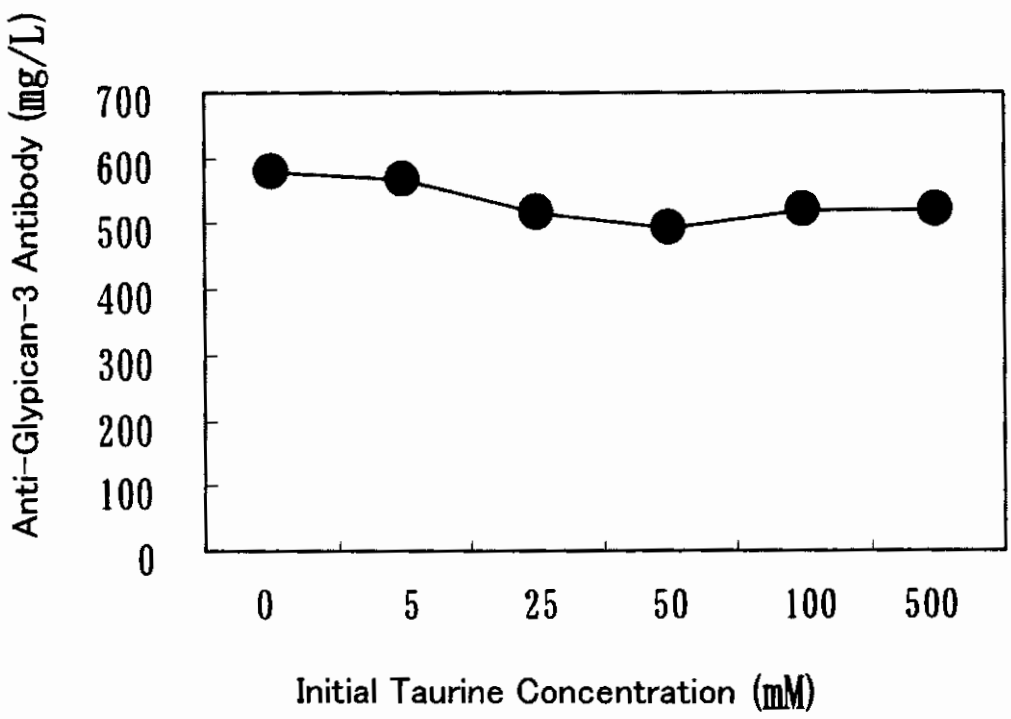
	[A]	[B]	[C]
Initial Glutamine Concentration (μM)	7000	7000	7000
Initial Taurine Concentration (μM)	0	1000	5000

Fig. 13



		[A]	[B]	[C]
Initial Glutamine Concentration	(μM)	7000	7000	7000
Initial Taurine Concentration	(μM)	0	1000	5000

Fig. 14


Anti-Glypican-3 Antibody (mg/L)
700
600
500
400
300
200
100
0
0
5
25
50
100
500
Initial Taurine Concentration (mM)