Fig. S1

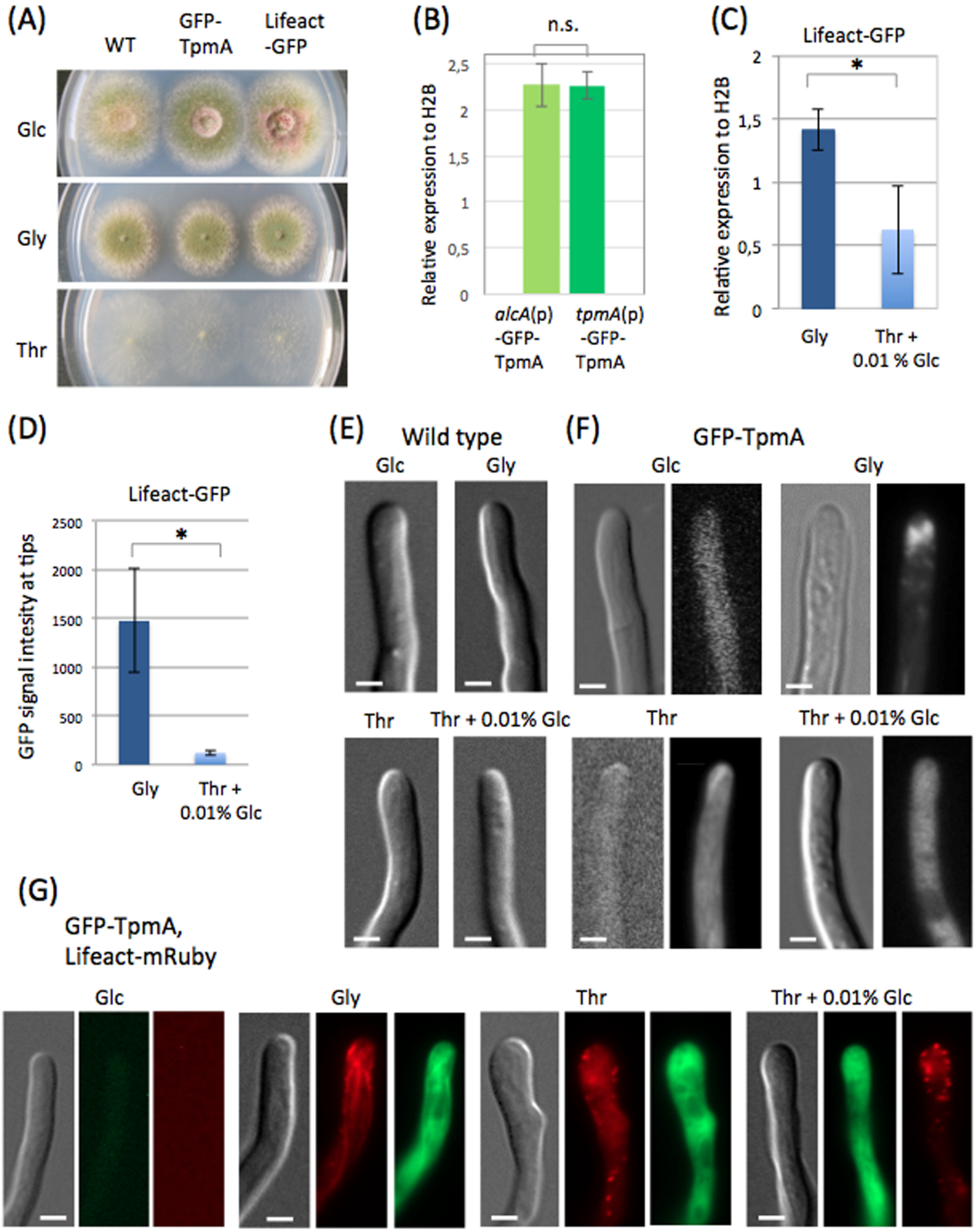
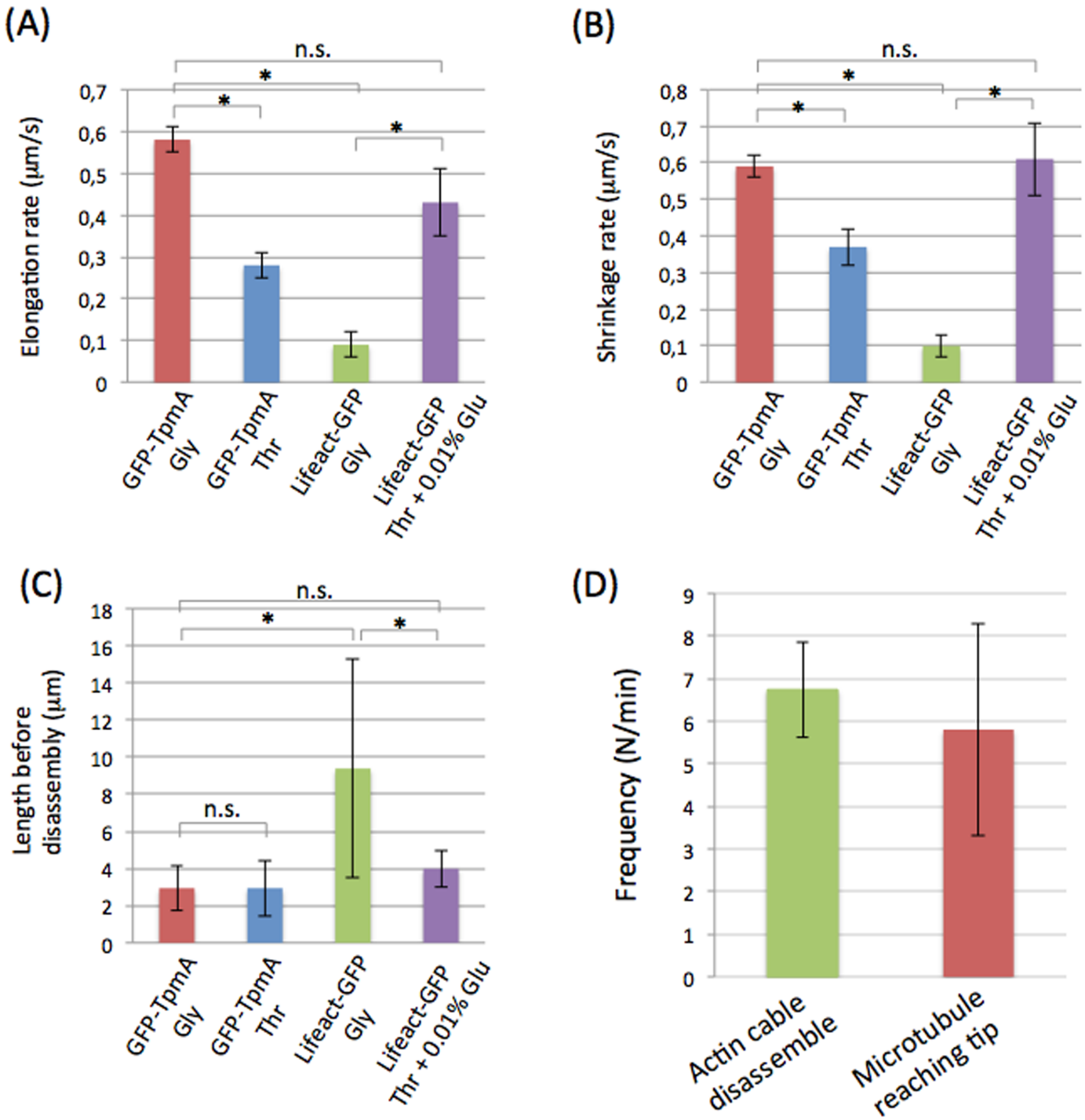

(A)
WT
GFP-TpmA
Lifeact-GFP
Glc
Gly
Thr
(B)
n.s.
Relative expression to H2B
2,5
2
1,5
1
0,5
0
alcA(p)-GFP-TpmA
tpmA(p)-GFP-TpmA
(C)
Lifeact-GFP
*
Relative expression to H2B
2
1,5
1
0,5
0
Gly
Thr + 0.01 % Glc
(D)
Lifeact-GFP
*
GFP signal intesity at tips
2500
2000
1500
1000
500
0
Gly
Thr + 0.01% Glc
(E)
Wild type
Glc
Gly
Thr
Thr + 0.01% Glc
(F)
GFP-TpmA
Glc
Gly
Thr
Thr + 0.01% Glc
(G)
GFP-TpmA, Lifeact-mRuby
Glc
Gly
Thr
Thr + 0.01% Glc

Fig. S2


(A)
Elongation rate (µm/s)
0
0,1
0,2
0,3
0,4
0,5
0,6
0,7
n.s.
*
*
*
GFP-TpmA Gly
GFP-TpmA Thr
Lifeact-GFP Gly
Lifeact-GFP Thr + 0.01% Glu
(B)
Shrinkage rate (µm/s)
0
0,1
0,2
0,3
0,4
0,5
0,6
0,7
0,8
n.s.
*
*
*
GFP-TpmA Gly
GFP-TpmA Thr
Lifeact-GFP Gly
Lifeact-GFP Thr + 0.01% Glu
(C)
Length before disassembly (µm)
0
2
4
6
8
10
12
14
16
18
n.s.
*
*
n.s.
GFP-TpmA Gly
GFP-TpmA Thr
Lifeact-GFP Gly
Lifeact-GFP Thr + 0.01% Glu
(D)
Frequency (N/min)
0
1
2
3
4
5
6
7
8
9
Actin cable disassemble
Microtubule reaching tip