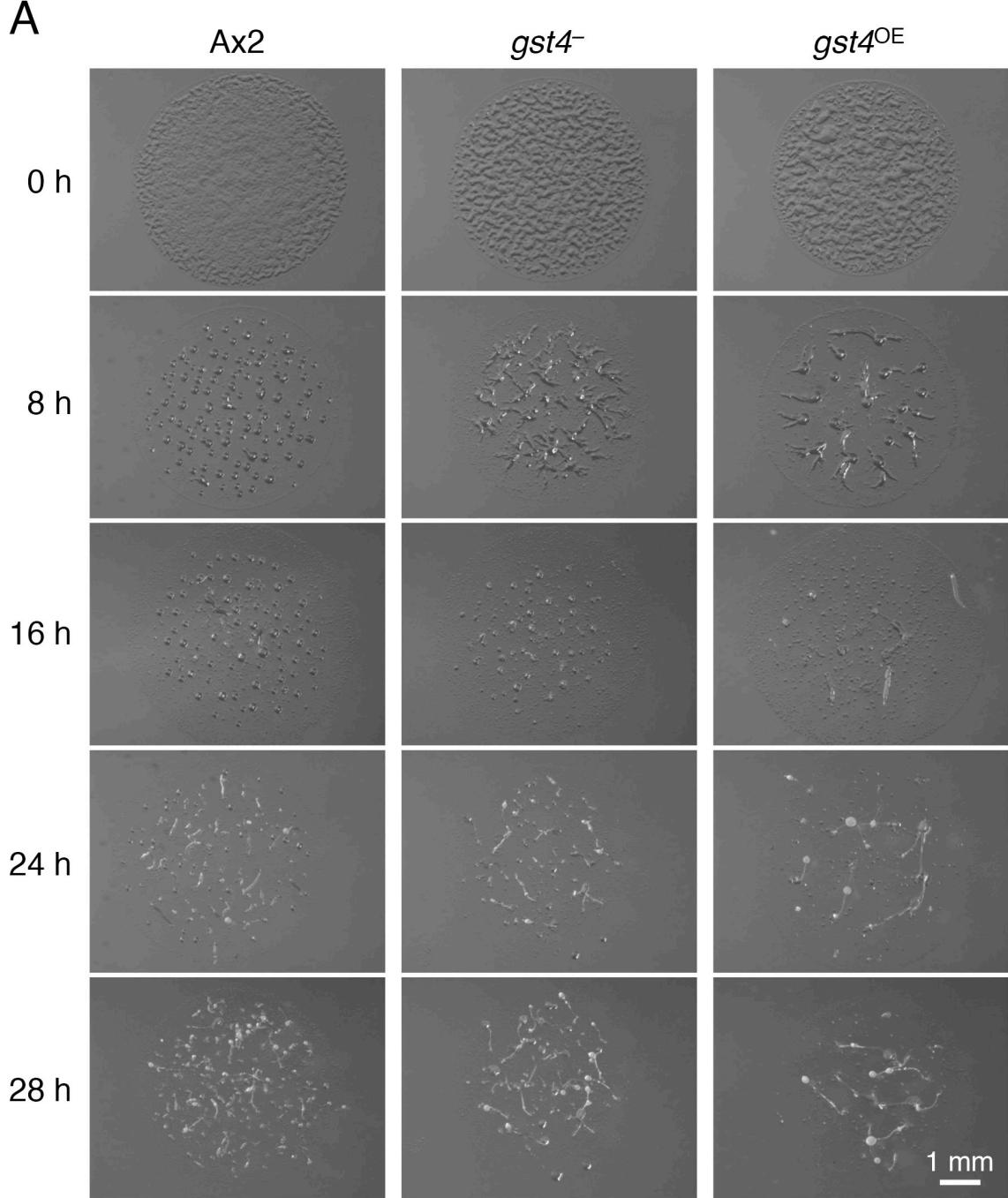
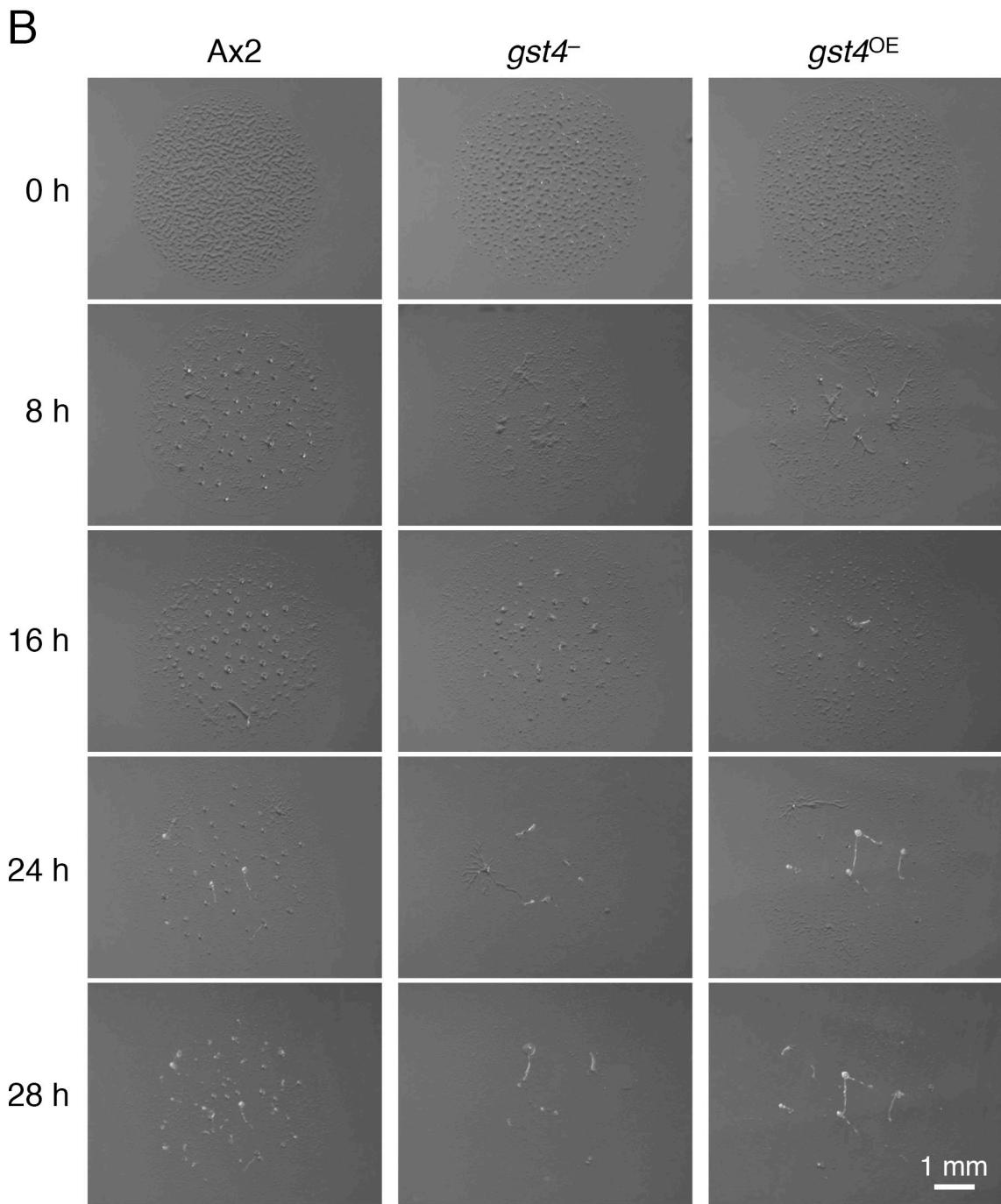


## Supplementary Materials

1	ATGTCTCATTAACCTCAAACAAACGTTTAAATGTATGGAGCAGGAACACAAACTTGAAAAAG	70
71	TTCAAATTATTAGAAGAAAAAAACATTCTCATGTTACCATAAAATTGATTTCAAAAATGAACA	140
141	ATTTGATCCAGAATTAAAGTTTACCAAAATAATAAAATTCCAGCAATTGTCGATAATACAGTTGAA	210
211	CCAAATGGTATTAGTGTATTGAAAGTGCAGCAATTAAATGACTTATCTGAAAAACATCAATTACCG	280
281	ATCTTATGCAGATTAAAAGTACAGGTCAATTAGGTTGGTCCTCGTCAACCAGAACAAAGAATACTCAA	350
351	GAGTGGTGGCCAAATGACAGGTCAATTAGGTTGGTCCTCGTCAACCAGAACAAAGAATACTCAA	420
421	GCAATTGAAAGATATTCTGAAGAAGTTAAAGATTATATAGAGTTTAGATAAAACTCTCAACTAATA	490
491	CTTGGGTAGCCGGTGAACAATATAGTATTGCTGATATCAGTCTTTAGGTTGGCCTTATATTCTTAAA	560
561	AGGTTATTATGATGATCATATCACCAGAGAACATTCCAAATGTTATCGTTGGTAGATTAGCTGCT	630
631	AAAAGACCAGCAATCATTAAAGTTAGAAACAATTCAACCAAAACAAAAATAA	684

**Fig. 1.** Open reading frame of *gst4* gene.

**A**



**Fig. 2.** Developmental phenotypes of *gst4* mutants at low cell densities ( $<5 \times 10^6$  cells/cm $^2$ ). Ax2, *gst4*<sup>-</sup>, and *gst4*<sup>OE</sup> cells were grown in an axenic medium, and starved cells were plated on agar at  $1 \times 10^6$  cells/cm $^2$  (**A**) or  $2 \times 10^5$  cells/cm $^2$  (**B**) and allowed to form fruiting bodies. The cells were evaluated at the indicated time points, and representative photos are shown. Bar=1 mm.