Fig. S1

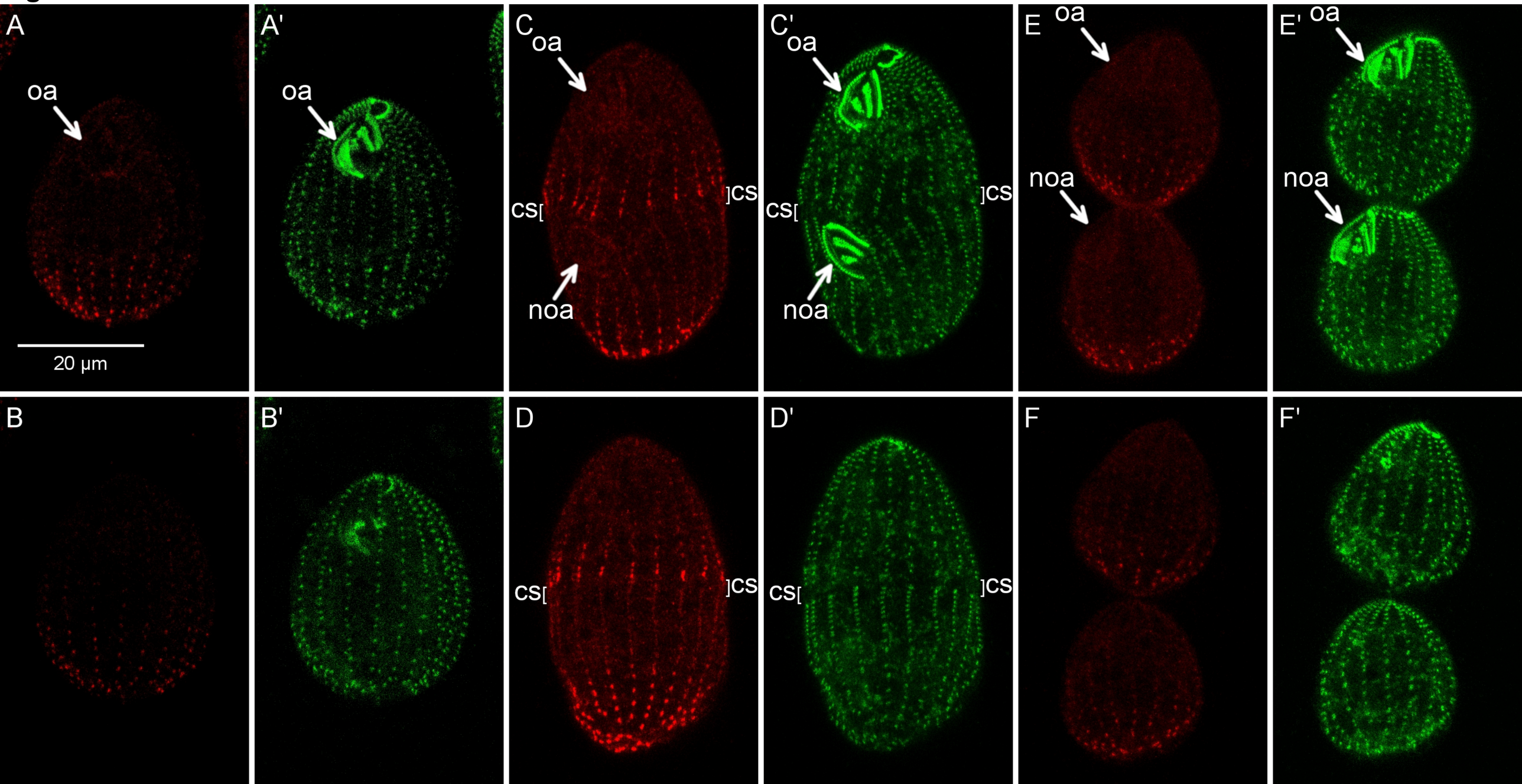
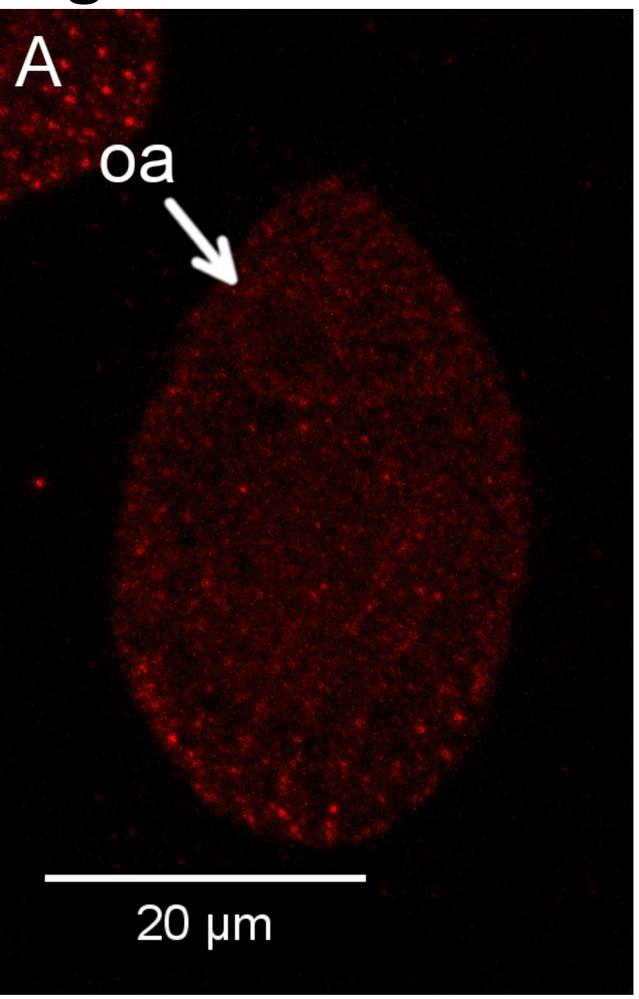
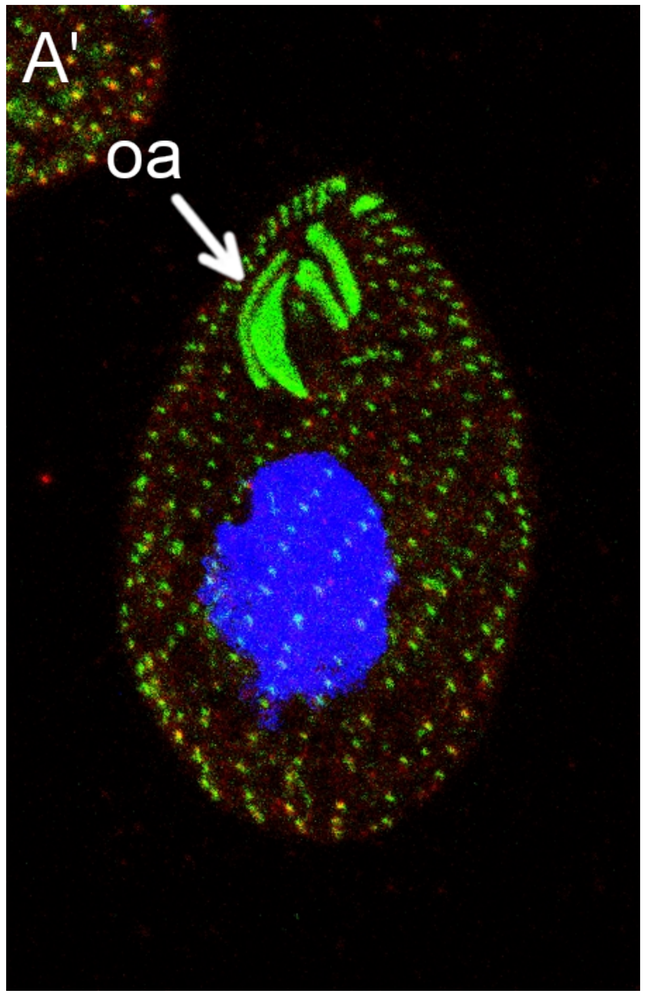
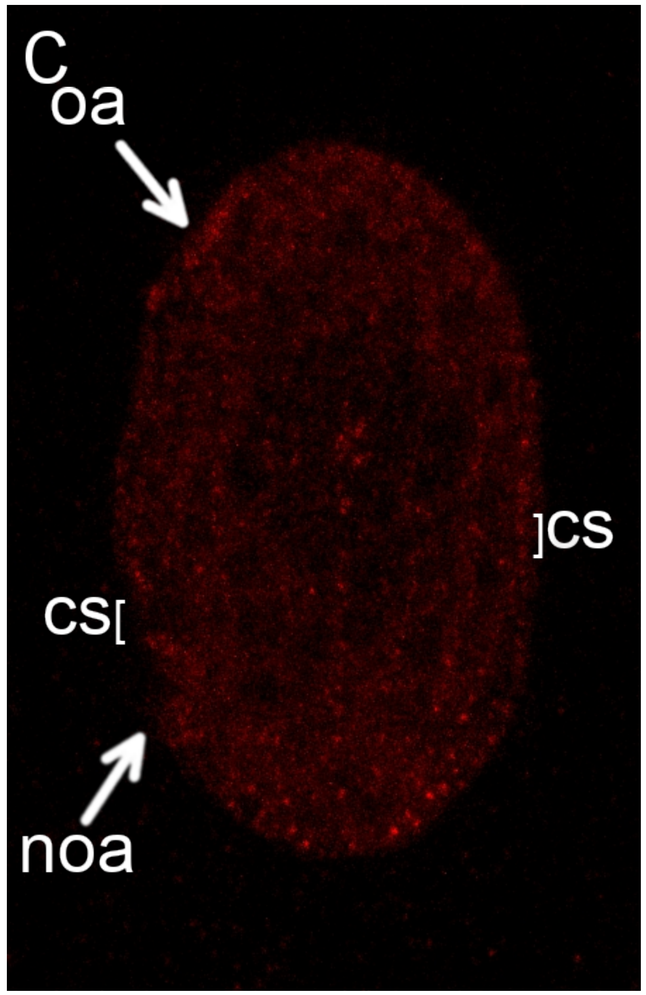

A
oa
20 µm
A'
oa
C
oa
cs[
]cs
noa
C'
oa
cs[
]cs
noa
E
oa
noa
E'
oa
noa
B
B'
D
cs[
]cs
D'
cs[
]cs
F
F'

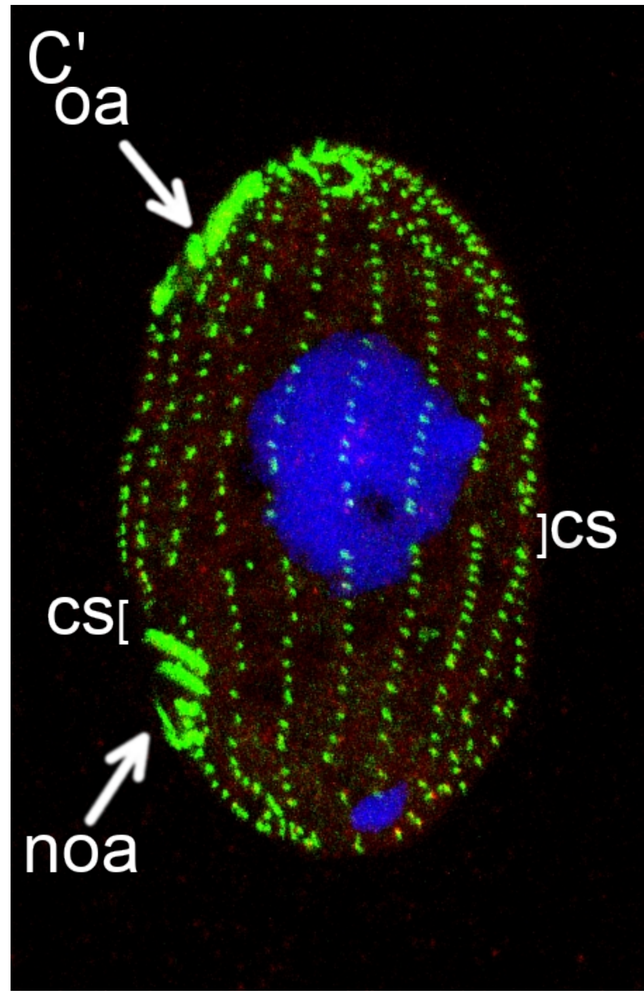
Figure S1. A detailed presentation of the images shown in Fig. 4. The cells expressing Elo1-GFP were labeled with antibodies against GFP (red) and centrin (green). Pairs of panels represent the same cell imaged in two color channels. (A-B') A cell in interphase viewed from either ventral (A-A') or dorsal (B-B') side. (C-D') A cell during cortical subdivision viewed from either ventral (C-C') or dorsal (D-D') side. (E-F') A cell in cytokinesis shown from the ventral (E-E') or dorsal (F-F') side.

Fig. S2


A
oa
20 µm


A'
oa


C
oa
]cs
cs[
noa


C'
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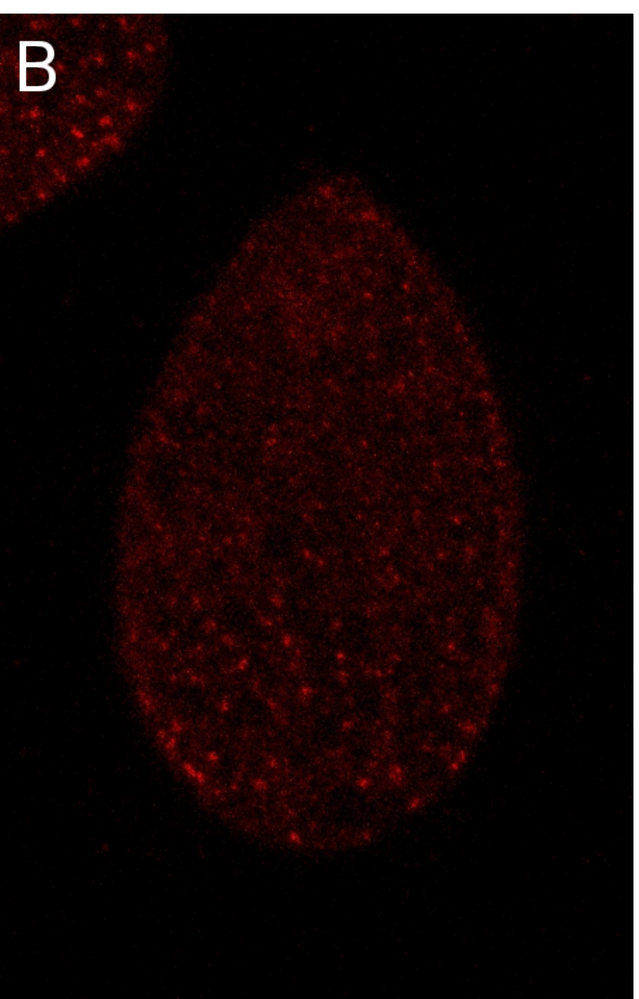
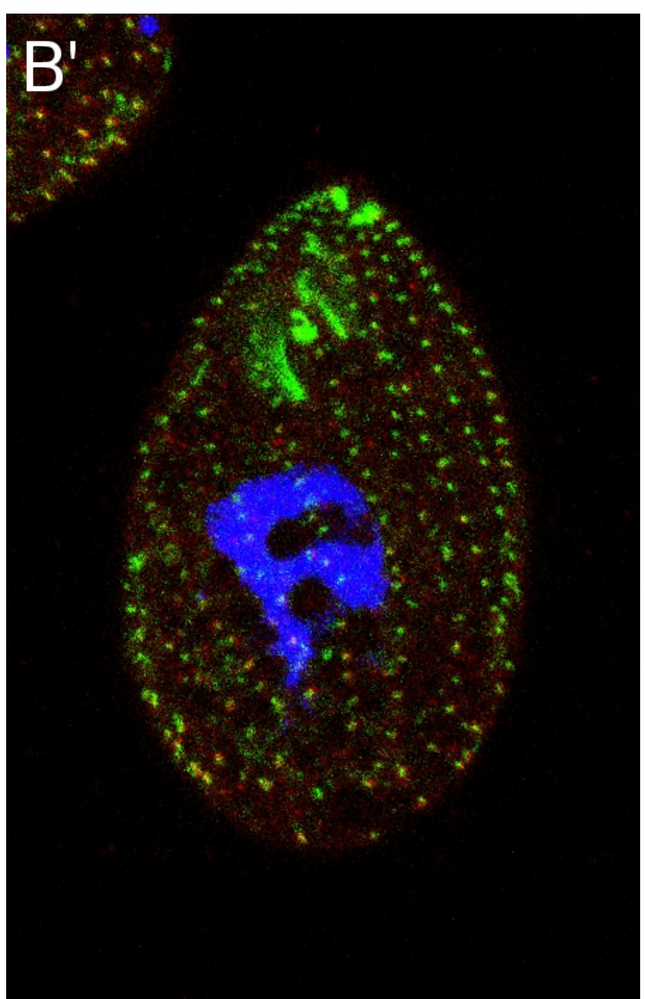
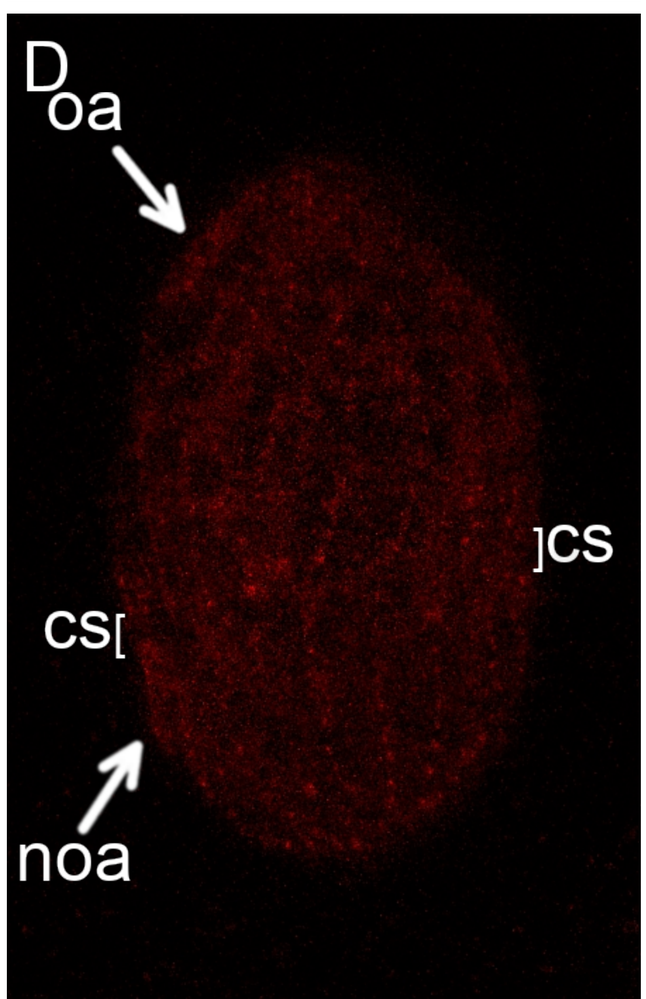

B


B'


D
oa
]cs
cs[
noa

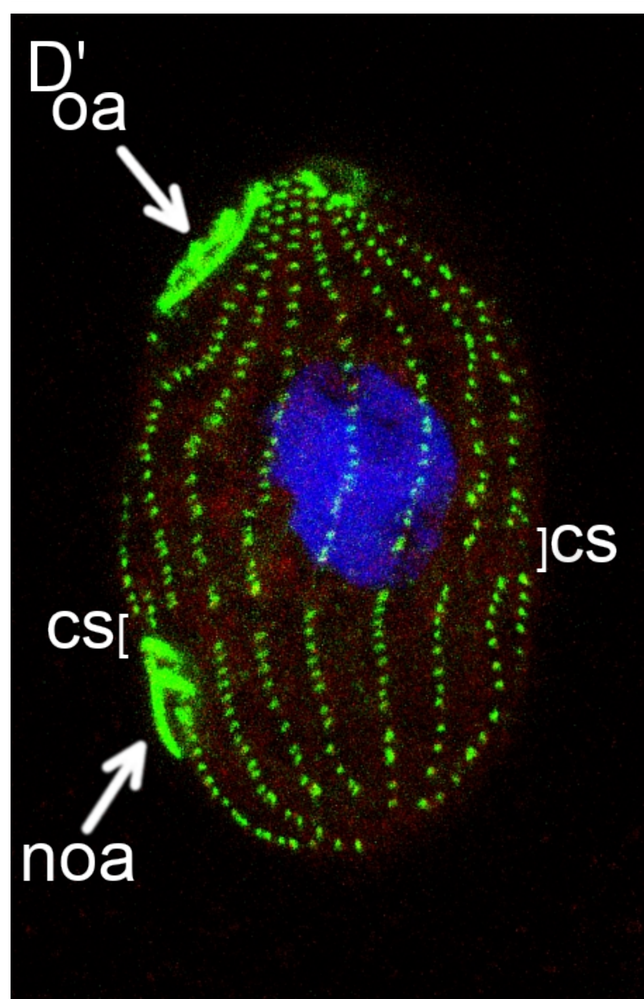

D'
oa
]cs
cs[
noa

Figure S2. Images of *elo1-1* cells that express mutant Elo1 protein Elo1(G249V)-GFP. These cells were obtained using the same approach as cells expressing the wild-type Elo1-GFP protein (Figs. 4 and S1) Importantly, these cells were subject to phenotypic assortment in parallel with the cells expressing the wild-type GFP tagged protein and therefore the transgene copy number is expected to be similar in the two genetic backgrounds. Pairs of images show the Elo1(G249V)-GFP (red) and centrin (green) signals. We quantified the Elo1-GFP and Elo1-(G249V)-GFP pixel intensity in the area close to the posterior cell end (within a zone of 5 most posterior basal bodies). The average pixel intensity of Elo1-(G249V)-GFP was 0.25 +/- 0.23 (n=44 basal bodies; n=2 cells) as compared to 1.12 +/- 0.57 for Elo1-GFP (n=50 basal bodies; n=2 cells).