

Table S3

		CTR	CAP1-KO	P-Value (Change)	CTR	Cofilin1-KO	P-Value (Change)	CTR	dKO	P-Value (Change)
All	Length	1.51 ±0.10	1.42 ±0.09	0.488	1.42 ±0.08	1.46 ±0.05	0.643	1.62 ±0.08	1.56 ±0.07	0.553
	Head length	0.93 ±0.08	0.85 ±0.06	0.459	0.89 ±0.04	0.80 ±0.03	0.130	1.03 ±0.08	0.91 ±0.05	0.209
	Head width	0.51 ±0.01	0.67 ±0.03	<0.001 (+31%)	0.59 ±0.02	0.71 ±0.02	<0.001 (+20%)	0.60 ±0.03	0.87 ±0.05	<0.001 (+45%)
Filo-podia	Length	2.91 ±0.15	2.90 ±0.48	0.976	3.07 ±0.17	3.13 ±0.22	0.819	3.10 ±0.19	3.03 ±0.12	0.787
	Width	0.27 ±0.01	0.27 ±0.01	0.952	0.19 ±0.01	0.25 ±0.02	0.086	0.28 ±0.02	0.32 ±0.04	0.371
Thin	Length	1.28 ±0.05	1.13 ±0.07	0.100	1.36 ±0.06	1.26 ±0.04	0.190	1.41 ±0.06	1.21 ±0.08	<0.05 (-14%)
	Head length	0.80 ±0.05	0.79 ±0.05	0.933	0.91 ±0.05	0.84 ±0.05	0.307	0.84 ±0.0	0.79 ±0.07	0.607
	Head width	0.36 ±0.01	0.36 ±0.02	0.770	0.31 ±0.01	0.32 ±0.02	0.610	0.35 ±0.03	0.35 ±0.03	0.919
Stubby	Length	0.53 ±0.01	0.57 ±0.03	0.316	0.54 ±0.04	0.54 ±0.03	0.944	0.64 ±0.05	0.63 ±0.05	0.943
	Width	0.51 ±0.05	0.56 ±0.05	0.464	0.71 ±0.05	0.71 ±0.03	0.972	0.77 ±0.07	0.93 ±0.10	0.242
Mushroom	Length	1.59 ±0.09	1.69 ±0.11	0.510	1.55 ±0.07	1.70 ±0.04	0.085	1.75 ±0.12	1.82 ±0.07	0.649
	Head length	0.69 ±0.05	0.75 ±0.04	0.466	0.61 ±0.02	0.67 ±0.02	0.097	0.73 ±0.05	0.82 ±0.03	0.105
	Head width	0.76 ±0.02	0.93 ±0.05	<0.01 (+22%)	0.85 ±0.04	0.93 ±0.02	0.059	0.92 ±0.06	1.12 ±0.05	<0.05 (+22%)

N ≥ 15 spines per neuron, five neurons per group and experiment, three independent experiments