

S2 Table. Absolute numbers of different dynamic modes observed for WT MinE and MinE $\Delta(2-12)$, L3E and F6E in PDMS microcompartments. Modes were counted in three independent experiments imaging multiple compartments respectively ($N \geq 55$ compartments). If mode switching occurred within the same compartment, both modes were counted.

MinE Variant	Pole-to-pole oscillations	Traveling waves	Rotations
WT	81	0	0
$\Delta(2-12)$	13	12	40
L3E	41	17	44
F6E	104	15	20