Supplementary Information.

Figure S1. A cartoon showing the domain organisation of full-length myosin VI and a schematic and sequence alignment of C-terminal region of the tail. (a) The cartoon depicts the domain organisation of myosin VI highlighting the globular C-terminal tail with the relative positions of the splice inserts (LI: large insert, SI: small insert), the binding sites for Dab2 and GIPC/optineurin [positions 1184aa (W) and 1107-1109aa (RRL) respectively] and the PIP₂ binding site. Black arrowheads (1 and 2) indicate the tryptic cleavage sites and black lines show the positions of domains 1 and 2. The amino acid (aa) numbering refers to the chicken sequence. (b) An alignment of the human (H), chicken (C) and mouse (M) myosin VI C-terminal tail sequences (aa 1017 – end) using ClustalW from www.ch.EMBnet.org. The large and small inserts (LI and SI) and the RRL, WWY, and lipid (KSKNKKR) binding sites are shown in bold along with the phosphorylatable TINT sequence¹. Arrowheads 1 and 2 mark the trypsin cleavage sites. Predicted secondary structure for the chicken myosin sequence obtained by a consensus of 8 prediction algorithms² is shown: "c" is random coil, "e" is extended sheet, "h" is a helix and a blank space indicates no consensus.