**Figure 3B\_C\_F Movie legends**

Time-lapse movies of IFT46-YFP of *Chlamydomonas* cilia of control cells, *fla8* cells expressing FLA8 or KIF3B’ or KIF3B’-YFP. Images were acquired at 20 fps, movies are played at the same speed. Bars, 2 m. The data for anterograde velocity, IFT injection rate and IFT frequency are presented in Figure 3B, C and F, respectively.