Supplementary Data

Supplementary data consists of two figures.

Supplementary Figure 1. Nek9[Δ 346-732, S944A] activity. (A) anti-FLAG immunoprecipitates from HEK293T cells expressing the indicated forms of FLAG-Nek9[Δ 346-732] (Δ RCC1), were immunobloted with antibodies against FLAG and active Nek9 (a-Nek9[Thr210-P]) (B) The indicated forms of FLAG-Nek9 [Δ 346-732] (Δ RCC1), were immunoprecipitated from HEK293T cells, washed and incubated for the indicated times at 30°C in phosphorylation buffer with [γ -32P]ATP and MBP. The reaction was stopped by addition of SDS sample buffer plus boiling, followed by SDS-PAGE. ³²P incorporation into MBP as measured by PhosphoImager is shown together with MBP Coomassie staining (*Coomassie*) and ³²P incorporation (³²P autorad.).

Supplementary Figure 2. Structural model for the interaction between LC8 (*surface*) and Nek9 recognition motif (*sticks*) based on PDB ID 3E2B. Nek9[Ser944] and Nek9[Q948] are labeled.





