Supplementary Figure Legends

Supplementary Figure 1 – Purified Ino80 core and SC2 complexes.

Supplementary Figure 2 – Raw data for MST measurements of Ino80 subunit deletion complexes.

Supplementary Figure 3 – Kinetic data for stimulated and unstimulated ATPase activity of Ino80 subunit deletion complexes.

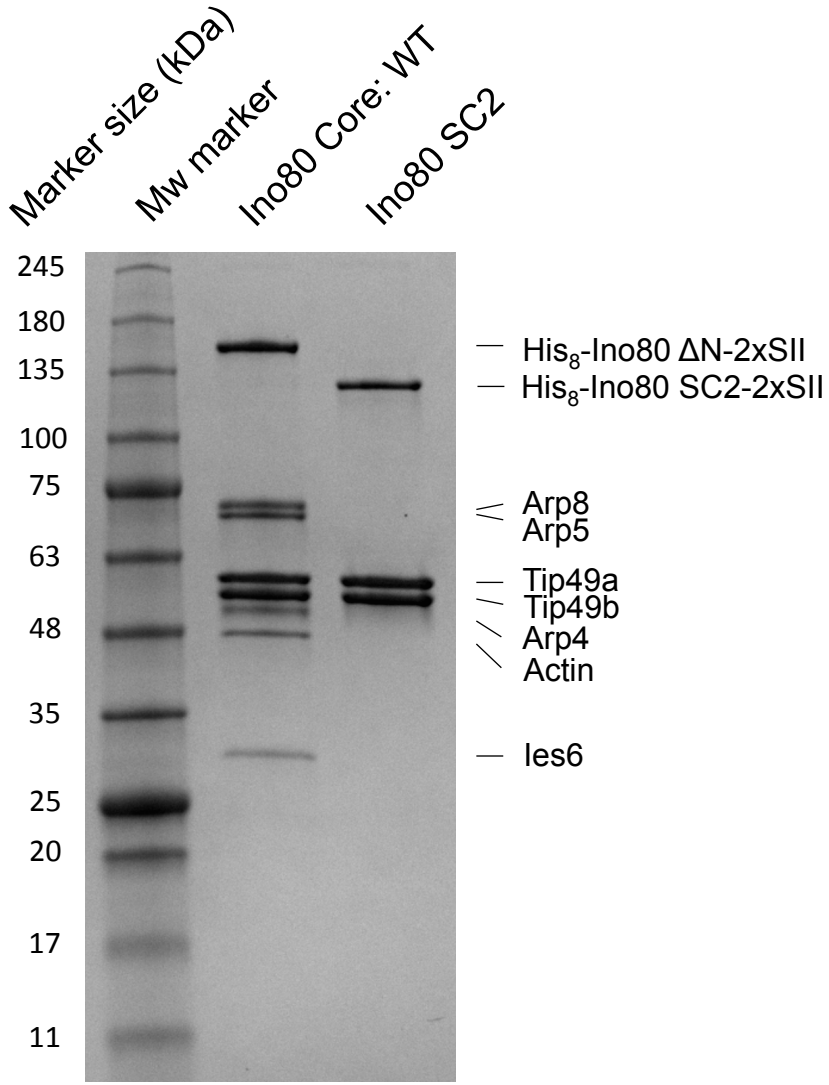
Supplementary Figure 4 –ATPase activity in the presence of saturating H2A nucleosome.

Supplementary Figure 5 – Kinetic data for Ino80 ATPase activity over a range of ATP and IP_6 concentrations.

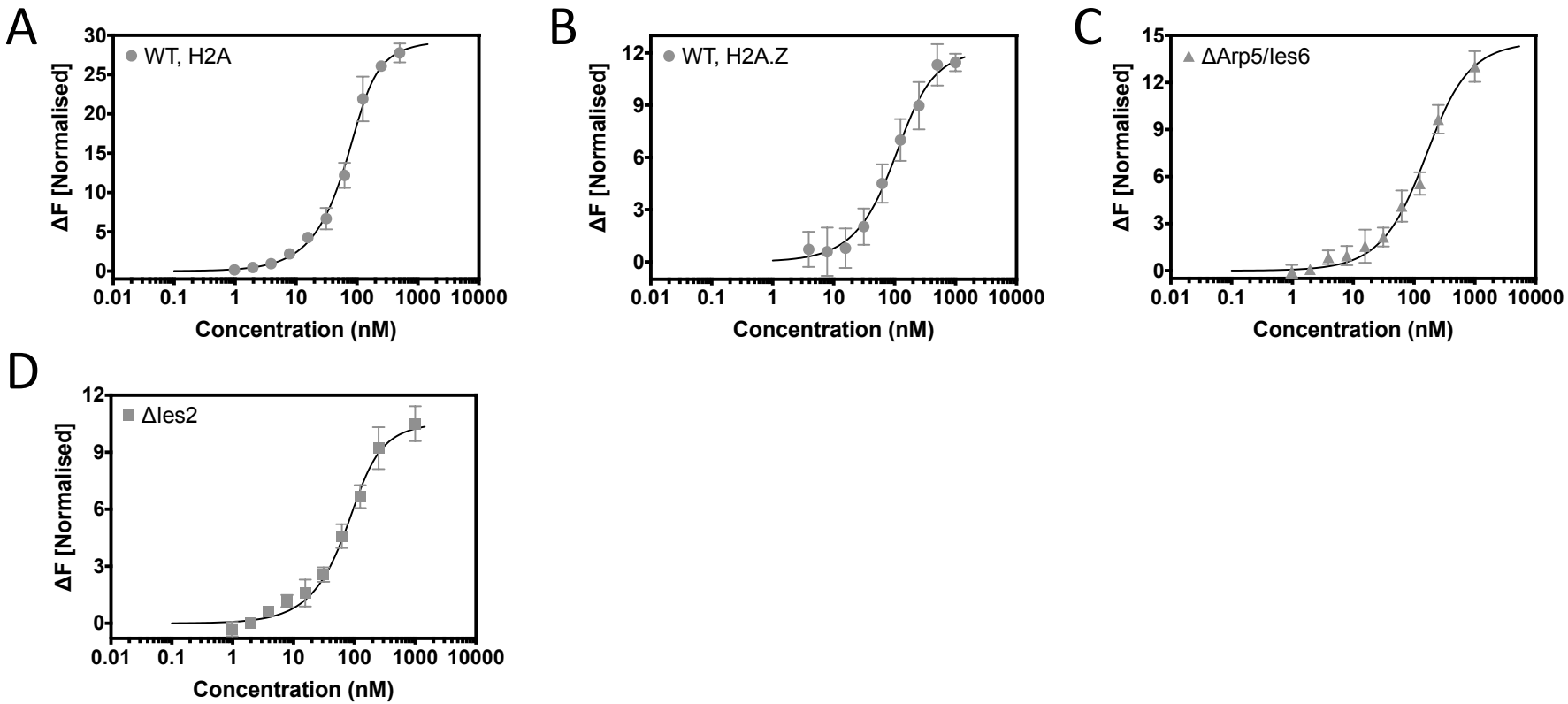
Supplementary Figure 6 – Kinetic data for Ino80 ATPase activity over a range of nucleosome and IP_6 concentrations.

Supplementary Figure 7 – Raw MST data of nucleosome biding in the presence of ligands. These experiments were conducted in the presence of 5 mM $MgCl_2$.

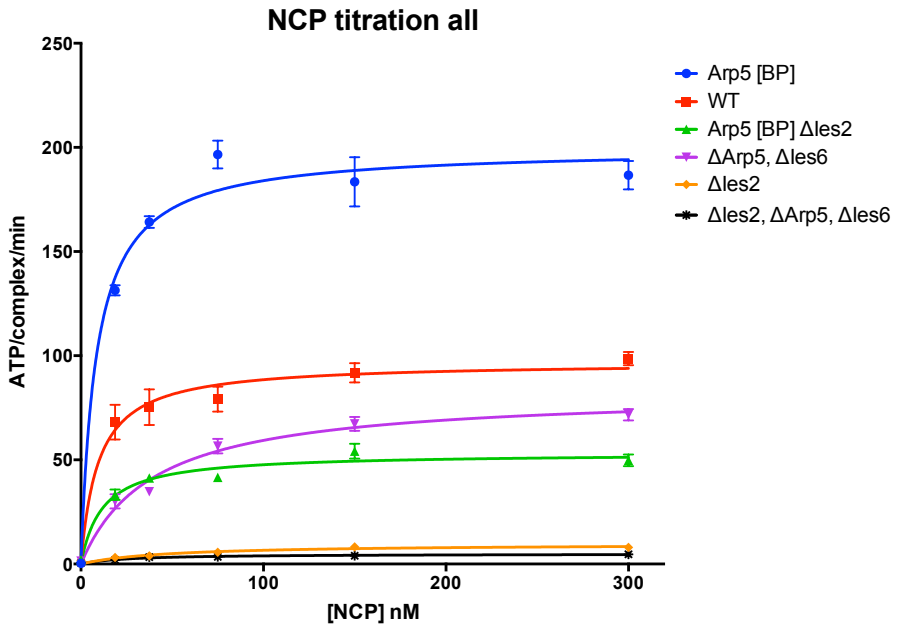
Supplementary Figure 1

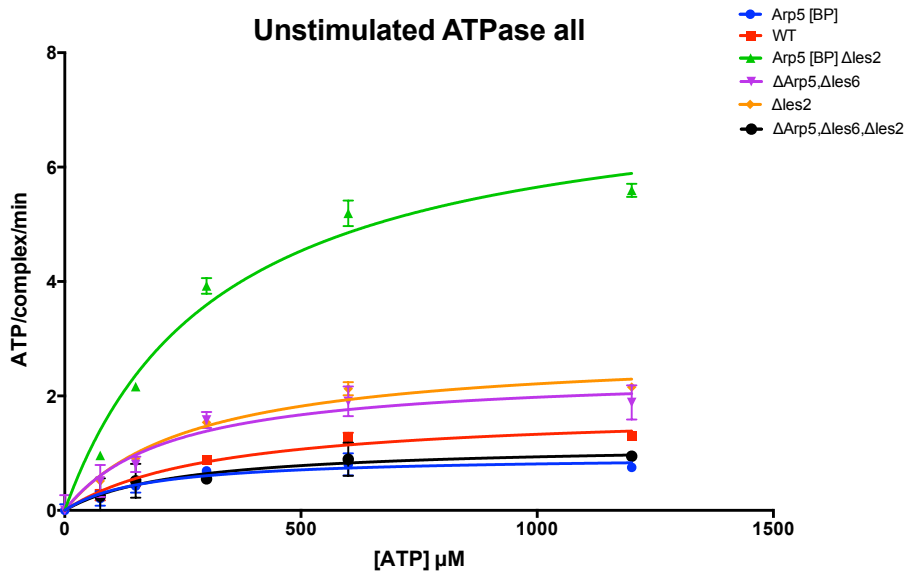


Supplementary Figure 2

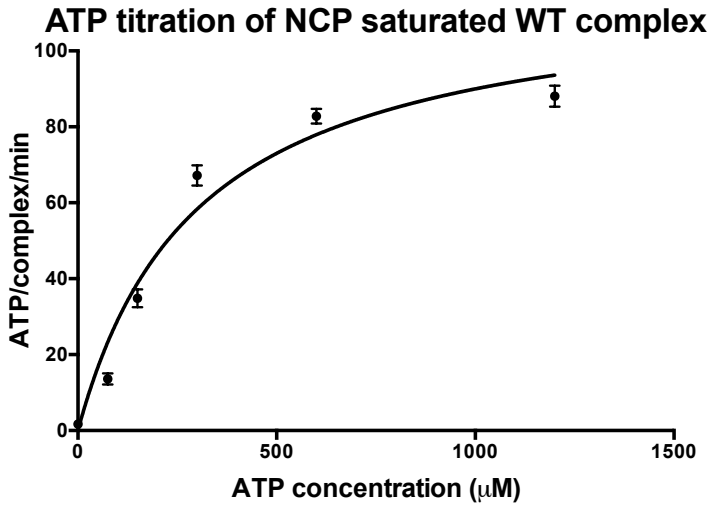


Supplementary Figure 3

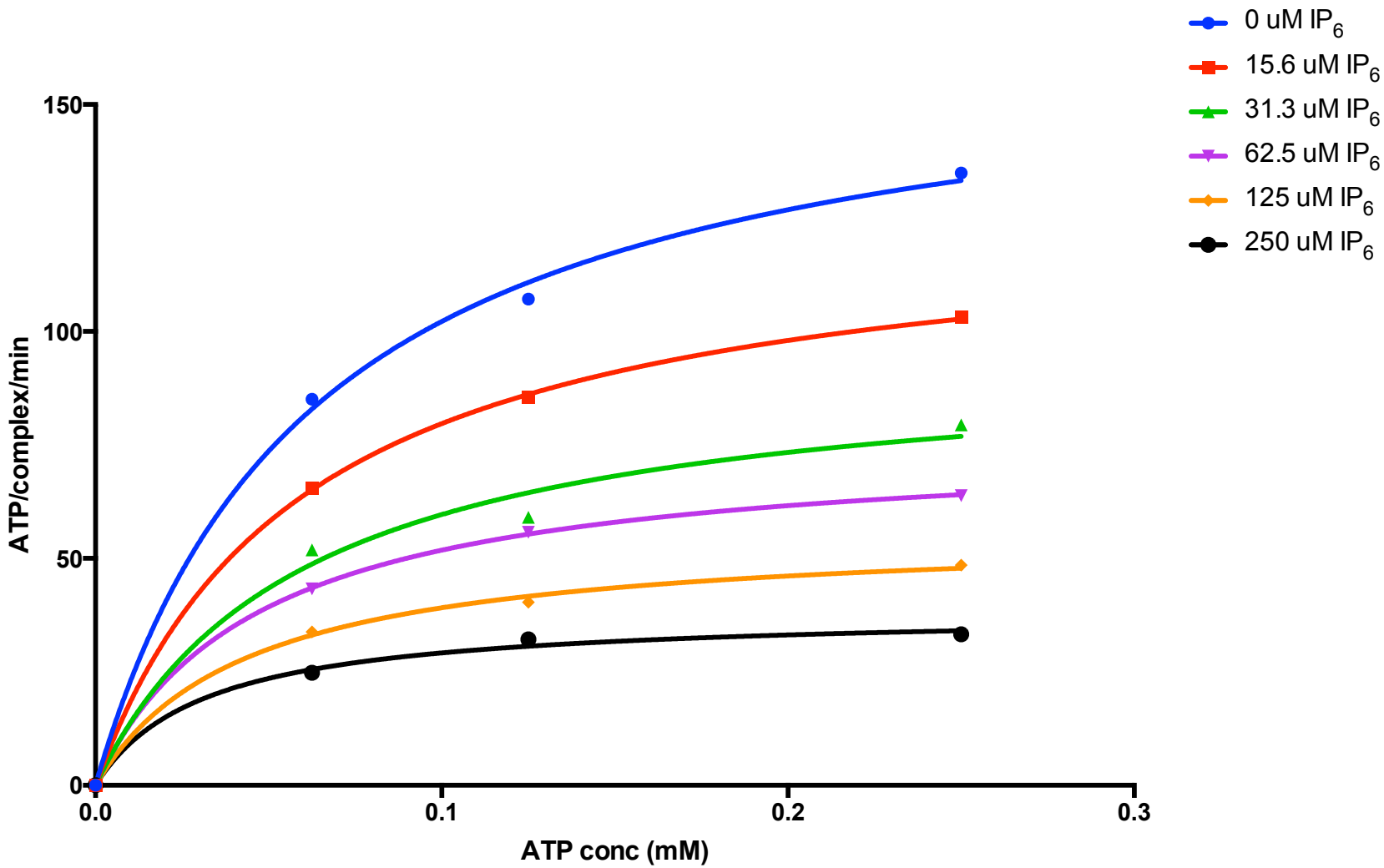




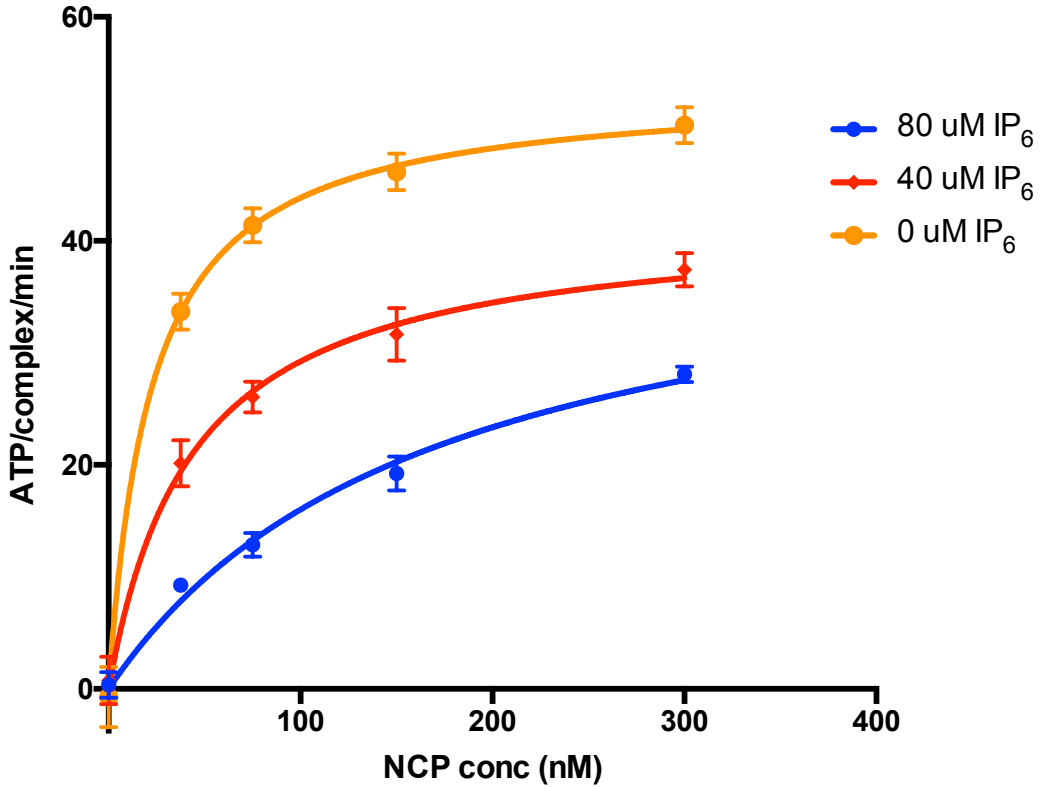
Supplementary Figure 4



Supplementary Figure 5

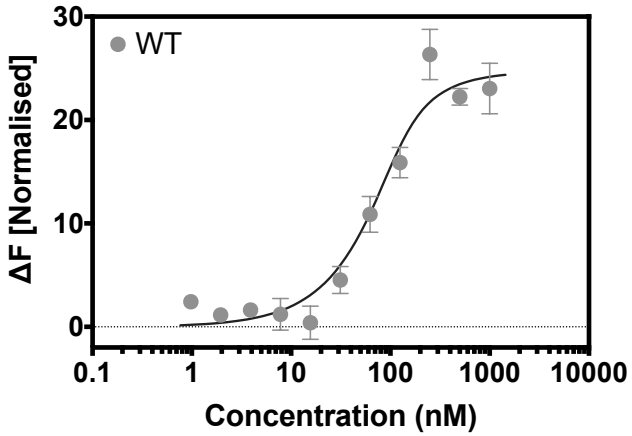


Supplementary Figure 6



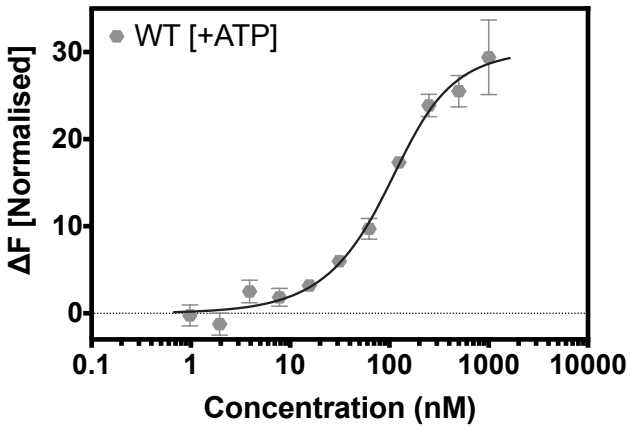
Supplementary Figure 7

Nucleosome = Human H2A-NCP, 100 bp overhang, **H3**$^{\underline{AF647}}$



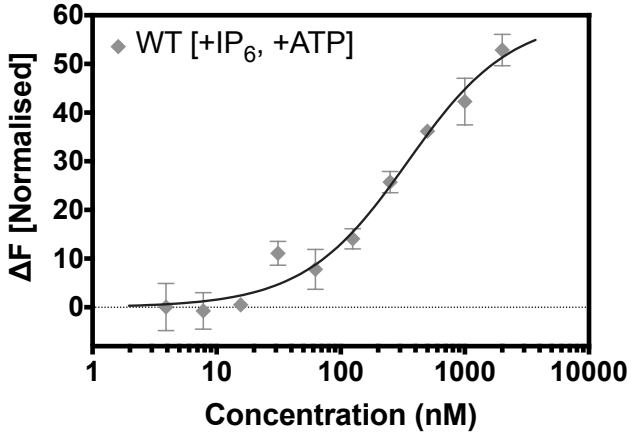
Kd = 22.9 ± 2.1 nM

Nucleosome = Human H2A-NCP, 100 bp overhang, **H3**$^{\underline{AF647}}$



Kd = 53.3 ± 2.4 nM

Nucleosome = Human H2A-NCP, 100 bp overhang, **H3**$^{\underline{AF647}}$



Kd = 321.0 ± 25.4 nM