

Supplementary material Table S2.

Summary of all log-likelihood ratio tests for various cargos.

Cargo	NH	$G$	df	$P$
Kap104	$f = \text{uniform}$	15.6	2	< 0.001
Kap121	$f = \text{uniform}$	50.4	2	< 0.001
Gle1	$f = \text{uniform}$	32.0	2	< 0.001
Dbp5	$f = \text{uniform}$	26.0	2	< 0.001
GFP	$f = \text{uniform}$	0.26	2	0.88
Kap104	$f_M = f_W$	0.89	2	0.64
Kap121	$f_M = f_W$	30.2	2	< 0.001
Kap121*	$f = \text{uniform}$	0.76	2	0.68

Two types of test are presented that are distinguished by the null hypothesis (NH).  $f = \text{uniform}$  indicates the NH “gold particles are uniformly distributed within the NPC”, whereas  $f_M = f_W$  indicates the NH “the distribution of gold particles within the NPC is the same for both the wild type and mutant strains”.  $G$  is the test statistic, df is the associated degrees of freedom and  $P$  is the level of statistical significance. The asterisk indicates that the data are from the mutant strain.