

**Supplementary Table 1.** Sequences and amplicon sizes of primer pairs used in quantitative polymerase chain reactions.

Gene transcript [Reference]	Primer Sequences (5'-3')	Size (bp)	NCBI Accession Number
KPNA1 [1]	F: GTGATCTCCTCACGGTCATG R: CATAGGAGCCTCACACTG	314	NM_002264.4
KPNA5 <sup>†</sup>	F: TGACTCACTGGGTGTGGTCT R: GTTTCGCAAGCAGCCAGTAG	352	NM_001366306.2
KPNA6 [2]	F: ACTGTTTCAGCCCTACCTTGC R: CCTCCTGATGTGGCATTGGT	226	NM_012316.5

**Abbreviations:** KPNA1=karyopherin subunit alpha 1, KPNA5=karyopherin subunit alpha 5, KPNA6=karyopherin subunit alpha 6. <sup>†</sup>Primers designed in-house and amplicon confirmed by sequencing.

### References

- Kim NH, Yoshimaru T, Chen YA, Matsuo T, Komatsu M, Miyoshi Y, Tanaka E, Sasa M, Mizuguchi K, Katagiri T. BIG3 inhibits the estrogen-dependent nuclear translocation of PHB2 via multiple karyopherin-alpha proteins in breast cancer cells. *PLoS One* 2015; 10:e0127707.
- Yu M, Sun L, Zhang Z, Zhang Y, Zhang H, Na L, Wang X. KPNA6 is a cofactor of ANP32A/B in supporting influenza virus polymerase activity. *Microbiol Spectr* 2022; 10:e0207321.

**Supplementary Figure 1.** Expression of importin gene transcripts in human retinal pigment epithelial cells. After transfection with *Zaire ebolavirus* viral protein 24 (VP24) or no-insert control (NI) expression plasmid for 48 h followed by polyinosinic-polycytidylic acid (poly I:C) for an additional 4 or 24 h (hrs), cellular levels of three importin gene transcripts were measured by quantitative polymerase chain reaction and normalized to two stable reference genes (GAPDH=glyceraldehyde 3-phosphate dehydrogenase; PPIA=peptidylprolyl isomerase A). An additional control replacing poly I:C with water was included for the 4-h condition. In *All Isolate* graphs, circles represent mean expression in individual isolates, crossbars indicate mean, and error bars indicate standard deviation (n = 4 isolates/condition). In *Isolate 1-4* graphs, bars indicate mean normalized expression, and error bars indicate standard deviation (n = 4 replicates/condition). KPNA1, karyopherin subunit alpha 1; KPNA5, karyopherin subunit alpha 5; KPNA6, karyopherin subunit alpha 6; ns, not significant. \*p < 0.05.

