Additional File 2

Derivation of relative infectivities free virus infection and cell-cell transmission

A

Raw Data (in Relative Light Units, RLU):

	free virus infection	cell-cell transmission
wt env	*a*	*c*
mutant env	*b*	*d*

B

Normalization mutant to wt env infectivity:

Free virus infection:
% mutant infectivity (x) = $\dfrac{b}{a}$ x 100

Cell-cell transmission:
% mutant infectivity (y) = $\dfrac{d}{c}$ x 100

C

Relative cell-cell to free virus infection efficacy of mutant env:

Fold difference cell-cell transmission to free virus infectivity = $\dfrac{y}{x}$