## Supplementary Figure S11

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Theoretical o	considerations o	of membrane	fusion	energies

Energy released by SNARE complex refolding:

Energy required for membrane fusion: 40 to 120 k,T Energy released by Influenza HA trimer refolding: 30 to 60 k<sub>L</sub>T

20 to 65 k<sub>b</sub>T

Number of HA trimers estimated to partake in membrane fusion: 3 to 4 > total energy released 90 to 240 k, T

Number of SNAREs estimated to partake in membrane fusion: 1 to 3 > total energy released 20 to 195 k, T

Number of env trimers estimated to partake in membrane fusion: 2 to 7

Assuming that the energy required for membrane fusion is 40 to 120 k.T it follows that each HIV env trimer releases

> 20 to 60 k, T ifT=2

> 6 to 17 k, T if T=7