

S3 Table. Error prone PCR conditions used to produce “low”, “medium” and “high” libraries. Amount of DNA target used to generate eIF4E and VPg mutant libraries, using ep-PCR random mutagenesis. 30 cycles amplifications were performed . pDONR201-eIF4E YW and pDONR201-VPg SON41g were used as DNA templates to obtain eIF4E and VPg mutant libraries, respectively . For generating VPg-high and eIF4E-high, the highly mutated libraries, two successive epPCR were performed, (int) stands for conditions of the first epPCR round.

Library name	Amount of target gene	Total Amount of plasmid
eIF4E-Low	720ng	2200ng
VPg-Low	600ng	2000ng
eIF4E-Medium	45ng	137ng
VPg-Medium	64ng	200ng
eIF4E-High <i>eIF4E-(int)High</i>	15ng from eIF4E-(int)High <i>14ng</i>	- <i>42ng</i>
VPg-High <i>VPg-(int)High</i>	6ng from VPg(int)High <i>6ng</i>	- <i>20ng</i>