***Supplementary Material***

1. **Supplementary Tables**

**Supplementary Table S1**. GO functional significant enrichment

**Supplementary Table S2**. 20 KEGG pathway enrichment of differentially expressed genes

**Supplementary Table S3.** KEGG functional categorization of up-regulated DEGs

**Supplementary Table S4.** Comparison of fold changes of DEGs between VP1 transfected cells and negative controls by qRT-PCR and RNA-Seq