

## Supplementary information, Data S2 Sequences

Red highlighted sequences represent T7 promoter; blue highlighted sequences represent the sgRNA scaffold; red bold letters represent spacer sequence; Cas9 CDS is highlighted in green. Gray and blue italic letters represent PsiI and HindIII restriction sites, respectively.

>pUC19-T7-sgRNA-*vWF* (PsiI)

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>pEASY-T7-Cas9-SV40 pA (HindIII)

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