

Supplementary Table 1.

	Strain	Engineered mutations
hrR3	KOS	1. Wild type of both γ 34.5 copies 2. LacZ insertion in UL39 (ICP6-inactivation)
rHSVQ	F	1. Deletion of both γ 34.5 copies 2. GFP insertion in UL39 (ICP6-inactivation)
rQnestin34.5	F	1. Deletion of both γ 34.5 copies 2. Re-insertion of γ 34.5 regulated by nestin promoter 2. GFP insertion in UL39 (ICP6-inactivation)