|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **HHSV1**  **infection** | **Comparison to MEFwt** | | | | | | **Comparison to**  **neuronswt** | | |
| α1-/- | α1-shRNA | α3-/- | α3  shRNA | α4-/- | α4  shRNA | α1-shRNA | α3  shRNA | α4  shRNA |
| capsids at  nuclear envelope | OK | N.D. | OK | N.D. | OK | N.D. | OK | N.D. | N.D. |
| nuclear import of VP16 | OK | N.D. | OK | N.D. | OK | N.D. | N.D. | N.D. | N.D. |
| nuclear import of  incoming genomes | OK | N.D. | OK | N.D. | OK | N.D. | N.D. | N.D. | N.D. |
| nuclear import of ICP4  immediate early gene | ↓↓ | ↓↓ | ↓↓ | ↓↓ | OK | OK | ↓↓↓ | N.D. | N.D. |
| nuclear import of ICP0  immediate early gene | ↓↓ | ↓↓ | ↓↓ | ↓↓ | OK | OK | N.D. | N.D. | N.D. |
| nuclear import of  ICP8 - early gene | ↓↓ | ↓↓ | ↓↓ | ↓↓ | ↑↑ | OK | N.D. | N.D. | N.D. |
| nuclear import of  pUL42 - early gene | ↓↓ | ↓↓ | ↓↓ | ↓↓ | OK | ↑↑ | N.D. | N.D. | N.D. |
| GFP reporter  gene expression | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | ↓↓↓ | ↓↓↓ | ↓↓ |
| nuclear capsid protein | OK | ↓↓ | OK | ↓↓ | ↑ | OK | ↓↓↓ | N.D. | N.D. |
| intracellular titer | ↓ | N.D. | delayed | N.D. | OK | N.D. | N.D. | N.D. | N.D. |
| extracellular titer | ↓ | N.D. | delayed | N.D. | OK | N.D. | N.D. | N.D. | N.D. |

**Supplementary Table S2: Summary of HSV1 replication in MEFs and neurons.**