**Table S2. Plasmids constructed in this study**

|  |  |
| --- | --- |
| Plasmid names | Descriptions |
| NHB0234 | *ACTB*-gRNA5 in pSpCas9(BB)-P2A-Puro |
| NHB0250  | Nuclear marker donor: 1kb\_UP-NLS-iRFPx2-P2A-1kb\_Down in pUC19 |
| NHB0186 | STAT1 gRNA1 in pSpCas9(BB)-P2A-Puro |
| NHB0235 | STAT1 donor: 1.5kb\_Up-mCherry-1.5kb\_Down in pUC19 |
| NHB0434 | IRF9 gRNA2 in pSpCas9(BB)-P2A-Puro |
| NHB0443 | IRF9 Donor: 1kb\_Up-mCitrine-P2A-1kb\_Down in pUC19 |
| NHB0503 | shRNA for USP18 in pSuperRetro-puro |
| NHB0504 | shRNA for negative control in pSuperRetro-puro |
| NHB0616 | shRNA for SOCS1 in pLenti-puro |
| NHB0636 | *USP18* gRNA3 in pSpCas9(BB)-P2A-Puro |
| NHB0647 | 1.5kb\_Up-NLS-mCerulean-P2A-1.5kb\_Down in pUC19 |
| NHB0670 | DHB-mCherry in pLenti-puro |
| NHB0817 | pCMV-mCherry-Gem1-P2A-mCitrine-Cdt1 in pLenti-puro |