**Table S2: Crispr Nup-mEGFP Cell Lines**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Construct Name** | **Nup** | **Position of mEGFP within Nup** | **Size of mEGFP Deletion**  **(AAs)** | **Net Linker Size**  **(AAs)** | **Amino Acid Linker Sequence**  **Nup Sequence in Blue**  **mEGFP Sequence in Green** | **Figures** |
| Nup133\_mEGFP(-9)† | Nup133 | Carboxyl-Terminus -3 | 6 | **- 9** | EYYVQELFT | Fig. 4C,E,G,I,K; Fig. 5 |
| Nup133\_mEGFP(-8) | Nup133 | Carboxyl-Terminus -2 | 6 | **- 8** | EYYVQGELFT | Fig. 4C; Fig. S5A |
| Nup54-mEGFP494(0)†† | Nup54 | 494AA + 5AA rigid | 5 | **0** | DIKLVAEAAAEELFT | Fig. 4D,F,H,J,L; Fig. 5 |
| Nup54-mEGFP494(1) | Nup54 | 494AA + 6AA rigid | 5 | **1** | DIKLVAEAAAKEELFT | Fig. 4D; Fig. S5B |
| Nup54-mEGFP494(2) | Nup54 | 494AA + 7AA rigid | 5 | **2** | DIKLVAEAAAKEEELFT | Fig. 4D; Fig. S5C |

† This cell line is the Nup133\_mEGFP cell line used for the experiments to reduce transport in Figure 4 and the experiments to manipulate transport factors in Figure 5.

†† This cell line is the Nup54\_mEGFP cell line used for experiments to reduce transport in Figure 4 and the experiments to manipulate transport factors in Figure 5.