**Table S2: sgRNA sequences for CRISPR/Cas9-mediated genome editing**

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| --- | --- | --- | --- |
| **Gene locus** | **sgRNA (5'-3')** | **PAM** | **Plasmid Name** |
| NuMA1 (C-terminus) | gtggggccactcactggtac | tgg | pTK372 |
| DHC1 (C-terminus) | cctcgcagcttctacgagcg | ggg | pTK308 |
| DHC1 (N-terminus) | cgaggacggctcggccggat | tgg | pTK371 |
| DCTN1 (C-terminus) | agatgaggcgactgtgaagc | tgg | pTK525 |
| LGN | cttataatatgactcgatgg | agg | pTK473 |
| AAVS1 | ggggccactagggacaggat | tgg | AAVS1 T2 ( Addgene#72833) |
| Rosa 26 | ttgcagctcgcgccggtttt | tgg | hROSA26 CRISPR-pX330 (Addgene#105927) |