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| **Supplementary File 1. Sequences of guide RNA spacers** |  |
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| **Name** | **Guide sequence** | **Species** |
| Traffic Light Reporter\_2.0 | GAGACAAATCACCTGCCTCG | *eGFP* |
| GAPDH | gagagagaccctcactgctg | *H.spaiens* |
| SEC61B-1 | CCCTCATCTCCAATATGGTA | *H.spaiens* |
| TOMM20 | AATTGTAAGTGCTCAGAGCT | *H.spaiens* |
| EMX1 | GAGTCCGAGCAGAAGAAGAA | *H.spaiens* |
| GFP-to-BFP | GCACTGCACGCCGTAGGTCA | *eGFP* |
| CMG-48 (*gfp*) | CCATCTAATTCAACAAGAAT | *C.elegans* |
| CMG-49*(gfp)* | CCTGAAAATTTAAATATGTA | *C.elegans* |
| CMG-67(gfp mutant(ne4807)) | GTTGTCCTGTTGTTAGTTAG | *C.elegans* |
| CMG-33(Flag::linker::tev) | TATAAAGACGATGACGATAA | *C.elegans* |
| 9209(*hey2* Lb-cpf1) | GTGTCTGTACCTGCGCGCACTGC | *D. rerio* |
| CMG-63 (*Sox2*) | TGCCCCTGTCGCACATGTGA | *Mus musculus* |
| CMG-89 (*Tyr*) | AACTGCGGAAACTCTAAGTT | *Mus musculus* |