### Table S1. Summary of oligonucleotides used in this study

| Oligo                   | 5’-3’ sequence                                      | final vector                      | parental line |
|-------------------------|-----------------------------------------------------|-----------------------------------|---------------|
| 3'UTR MLC1 fw           | CGGAGCTCGTTGGATCGAATTTTGCGCGCATTTCGCG             | loxPMLC1loxP–YFP–HX              | ku80::diCre   |
| 3'UTR MLC1 rv           | GGGAGCTCAATTACGGTGGCATCTCTCGGTAACAAAACCCCG        | loxPMLC1loxP–YFP–HX              | ku80::diCre   |
| MLC1 ORF fw             | GGGAATTCCGAAATGTTTATAGCGAAGCAGCCGAGAAATGCCCGCG   | loxPMLC1loxP–YFP–HX              | ku80::diCre   |
| 3'UTR MLC1 rv           | CGTTAATTAATCTCCCTCGTCATACGCTCGGC                 | loxPMLC1loxP–YFP–HX              | ku80::diCre   |
| 5'UTR MLC1 fw           | GCGGGCCCCAAGGATACGGTCCGATCCGACCGG                | loxPMLC1loxP–YFP–HX              | ku80::diCre   |
| 5'UTR MLC1 rv           | CCGCTTAAATGTTTATAGCGAAGTTCGAGATACGCAAGCGG       | loxPMLC1loxP–YFP–HX              | ku80::diCre   |
| GAP45 ORF fw            | GGGAATTCCGAAATGTTTATAGCGAAGCAGCCGAGAAATGCCCGCG   | loxPGAP45loxP–YFP–HX             | diCre         |
| GAP45 ORF rv            | GGGAGCTCAATTACGGTGGCATCTCTCGGACCGG                | loxPGAP45loxP–YFP–HX             | ku80::diCre   |
| 3'UTR GAP45 fw          | CCACATGTGGACGTCCGATCTGTCGTTATAGCGGTGCG          | loxPGAP45loxP–YFP–HX             | ku80::diCre   |
| 3'UTR GAP45 rv          | GGGAATTCCGAAATGTTTATAGCGAAGCAGCCGAGAAATGCCCGCG   | loxPGAP45loxP–YFP–HX             | ku80::diCre   |
| 5'UTR MyoB/C fw         | CGGAGCTCGTTGGATCGAATTTTGCGCGCATTTCGCG             | Myosin B/C KO–Bleo               | loxPMyoA      |
| 5'UTR MyoB/C rv         | GGGAGCTCAATTACGGTGGCATCTCTCGGTAACAAAACCCCG        | Myosin B/C KO–Bleo               | loxPMyoA      |
| 3'UTR MyoB/C fw         | CCGCTTAAATGTTTATAGCGAAGTTCGAGATACGCAAGCGG       | Myosin B/C KO–Bleo               | loxPMyoA      |
| 3'UTR MyoB/C rv         | GGGAATTCCGAAATGTTTATAGCGAAGCAGCCGAGAAATGCCCGCG   | Myosin B/C KO–Bleo               | loxPMyoA      |
| YFP rv                  | ATGGGCACACCCCGG                                    | Myosin B/C KO–Bleo               | loxPMyoA      |
| 5'UTR MyoB/C gene fw    | TACCTTCAATCCATACATATATAGGCCGCGTCTCGCCGAGCTATACGCTCGG | Myosin B/C KO–Bleo               | loxPMyoA      |
| 3'UTR MyoB/C gene rv    | TACCTTCAATCCATACATATATAGGCCGCGTCTCGCCGAGCTATACGCTCGG | Myosin B/C KO–Bleo               | loxPMyoA      |
| 5'UTR MyoB/C gene rv    | TACCTTCAATCCATACATATATAGGCCGCGTCTCGCCGAGCTATACGCTCGG | Myosin B/C KO–Bleo               | loxPMyoA      |
| 3'UTR MyoB/C gene rv    | TACCTTCAATCCATACATATATAGGCCGCGTCTCGCCGAGCTATACGCTCGG | Myosin B/C KO–Bleo               | loxPMyoA      |