Table S2: List of oligonucleotides for guide RNA design

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| **Target Gene** | **Sequence** | **Source** |
| GFP 1 F | TAATACGACTCACTATAG GTGAACCGCATCGAGC | This study |
| GFP 1 R | TTCTAGCTCTAAAACTTCAGCTCGATGCGGTTCA | This study |
| GFP 2 F | TAATACGACTCACTATAG GGAGCGCACCATCTTC | This study |
| GFP 2 R | TTCTAGCTCTAAAACTGAAGAAGATGGTGCGCTC | This study |
| POLR2A 1 F | TAATACGACTCACTATAGGGCAAAAACATATGCG | This study |
| POLR2A 1 R | TTCTAGCTCTAAAACCCCTCGCATATGTTTTTGC | This study |
| POLR2A 2 F | TAATACGACTCACTATAGGCAAAAACATATGCGA | This study |
| POLR2A 2 R | TTCTAGCTCTAAAACACCCTCGCATATGTTTTTG | This study |
| ATG7 1 F | TAATACGACTCACTATAGGTATGATGAGAACATG | This study |
| ATG7 1 R | TTCTAGCTCTAAAACGCACCATGTTCTCATCATA | This study |
| ATG7 2 F | TAATACGACTCACTATAGGAAGCTGAACGAGTAT | This study |
| ATG7 2 R | TTCTAGCTCTAAAACGCCGATACTCGTTCAGCTT | This study |
| FIP200 1 F | TAATACGACTCACTATAGGTGTACCTACAGTGCT | This study |
| FIP200 1 R | TTCTAGCTCTAAAACTCCCAGCACTGTAGGTACA | This study |
| FIP200 2 F | TAATACGACTCACTATAGGATGAACATCTTCAAC | This study |
| FIP200 2 R | TTCTAGCTCTAAAACTGGTGTTGAAGATGTTCAT | This study |
| STX17 1 F | TAATACGACTCACTATAGGATAGTAATCCCAACA | This study |
| STX17 1 R | TTCTAGCTCTAAAACGGTCTGTTGGGATTACTAT | This study |
| STX17 2 F | TAATACGACTCACTATAGGTATCAAAGGTGCAGA | This study |
| STX17 2 R | TTCTAGCTCTAAAACAGATTCTGCACCTTTGATA | This study |
| PTEN 1 F | TAATACGACTCACTATAGGCAGCAATTCACTGTA | This study |
| PTEN 1 R | TTCTAGCTCTAAAACGCTTTACAGTGAATTGCTG | This study |
| PTEN 2 F | TAATACGACTCACTATAGGAGTAACTATTCCCAG | This study |
| PTEN 2 R | TTCTAGCTCTAAAACCTGACTGGGAATAGTTACT | This study |
| ATG12 1 F | TAATACGACTCACTATAGGAGCGAACACGAACCATCC | This study |
| ATG12 1 R | TTCTAGCTCTAAAACTGGATGGTTCGTGTTCGCT | This study |
| ATG12 2 F | TAATACGACTCACTATAGGACATTTTGCTAAAGGCTG | This study |
| ATG12 2 R | TTCTAGCTCTAAAACACAGCCTTTAGCAAAATGT | This study |
| LAMP2 1 F | TAATACGACTCACTATAGGAGCTGTGCGGTCTTATGCA | This study |
| LAMP2 1 R | TTCTAGCTCTAAAACATGCATAAGACCGCACAGC | This study |
| LAMP2 2 F | TAATACGACTCACTATAGGTCCGAACTGCACTGCTATT | This study |
| LAMP2 2 R | TTCTAGCTCTAAAACAAATAGCAGTGCAGTTCGG | This study |
| ULK2 1 F | TAATACGACTCACTATAGGACACTTGATTTTCTGCGA | This study |
| ULK2 1 R | TTCTAGCTCTAAAACATCGCAGAAAATCAAGTGT | This study |
| ULK2 2 F | TAATACGACTCACTATAGGATGCGAATCCTGCACAGCA | This study |
| ULK2 2 R | TTCTAGCTCTAAAACTTGCTGTGCAGGATTCGCA | This study |
| Beclin1 1 F | TAATACGACTCACTATAGGCCTGGACCGTGTCACCATC | This study |
| Beclin1 1 R | TTCTAGCTCTAAAACGGATGGTGACACGGTCCAG | This study |
| Beclin1 2 F | TAATACGACTCACTATAGGCACACGAAGCTCACCTGC | This study |
| Beclin1 2 R | TTCTAGCTCTAAAACTGCAGGTGAGCTTCGTGTG | This study |
| ATG13 1 F | TAATACGACTCACTATAGGCACATGGACCTCCCGACTG | This study |
| ATG13 1 R | TTCTAGCTCTAAAACGCAGTCGGGAGGTCCATGT | This study |
| ATG13 2 F | TAATACGACTCACTATAGGAGTCGGGAGGTCCATGTGT | This study |
| ATG13 2 R | TTCTAGCTCTAAAACCACACATGGACCTCCCGAC | This study |
| ATG3 1 F | TAATACGACTCACTATAGGTAGATACATATCACAACA | This study |
| ATG3 1 R | TTCTAGCTCTAAAACGTGTTGTGATATGTATCTA | This study |
| ATG3 2 F | TAATACGACTCACTATAGGAGCCGTTAAAGAGATCACA | This study |
| ATG3 2 R | TTCTAGCTCTAAAACGTGTGATCTCTTTAACGGC | This study |
| VPS34 1 F | TAATACGACTCACTATAGGGCAGGTCAGGGTATTTTA | This study |
| VPS34 1 R | TTCTAGCTCTAAAACGTAAAATACCCTGACCTGC | This study |
| VPS34 2 F | TAATACGACTCACTATAGGAGGGCCACTTGGGCATTC | This study |
| VPS34 2 R | TTCTAGCTCTAAAACGGAATGCCCAAGTGGCCCT | This study |
| AMBRA 1 F | TAATACGACTCACTATAGGCAGGAGCTGAGCCGTAGG | This study |
| AMBRA 1 R | TTCTAGCTCTAAAACCCCTACGGCTCAGCTCCTG | This study |
| AMBRA 2 F | TAATACGACTCACTATAGGTCGACGGGAACCCTTTGCT | This study |
| AMBRA 2 R | TTCTAGCTCTAAAACCAGCAAAGGGTTCCCGTCG | This study |
| ATG5 1 F | TAATACGACTCACTATAGGAACGTCAAATAACTTACTC | This study |
| ATG5 1 R | TTCTAGCTCTAAAACAGAGTAAGTTATTTGACGT | This study |
| ATG5 2 F | TAATACGACTCACTATAGGATGAAGGCACACCACTGAA | This study |
| ATG5 2 R | TTCTAGCTCTAAAACTTTCAGTGGTGTGCCTTCA | This study |
| eEF2a 1 F | TAATACGACTCACTATAGGTCTCCGAGAGCTCGTAGAA | This study |
| eEF2a 1 R | TTCTAGCTCTAAAACCTTCTACGAGCTCTCGGAG | This study |
| eEF2a 2 F | TAATACGACTCACTATAGGCCGAGTCACCGATGGCGCA | This study |
| eEF2a 2 R | TTCTAGCTCTAAAACATGCGCCATCGGTGACTCG | This study |
| PCNA 1 F | TAATACGACTCACTATAGGCAAGGTATCCGCGTTATCT | This study |
| PCNA 1 R | TTCTAGCTCTAAAACAAGATAACGCGGATACCTT | This study |
| PCNA 5 F | TAATACGACTCACTATAGGCAGGTTGCGGTCGCAGCGG | This study |
| PCNA 5 R | TTCTAGCTCTAAAACACCGCTGCGACCGCAACCT | This study |