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| **primer name**  **Table supplement 2. Primers used in this study.** | **Primer 5'-3'** |
| pBINGFP2-PsAvh52-SmaI-F | CCCGGGATGCTCACGTTGACCAAGGATT |
| pBINGFP2-PsAvh52-SmaI-R | CCCGGGTCAGTTGGCCGCCTTATAAACC |
| pICH86988-FlagPsAvh52-RFP-F | TACAATTATCGATACAATGGATTACAAGGATG  ACGACGATAAGCTCACGTTGACCAAGGATTCC |
| pICH86988-FlagPsAvh52-RFP-R | GGAGGAGGCCATCCCGGGGTTGGCCGCCTT  ATAAACCTC |
| pYF2.3G-PsAvh52-sgRNA-F | CTAGCTAGCCGTAATCTGATGAGTCCGTGAGGAC |
| pYF2.3G-PsAvh52-sgRNA-R | CTAGGGTCTCGAAACCTGTTCGTCTTGCTCG  TAATGACGAGCTTACTCGTTTCG |
| pBluescriptII-PsAvh52-Up-F | ACTAGTGGATCCCCCAGAACGGGTCTGTATGTGTC |
| pBluescript II-PsAvh52-Up-R | AAGGTACGCGATCAGTTGTTACTCGGCGTT  CGTTCGATGA |
| pBluescript II-PsAvh52-down-F | TCATCGAACGAACGCCGAGTAACAACTGATC  GCGTACCTTAAC |
| pBluescript II-PsAvh52-down-R | GAATTCCTGCAGCCCGTGAGAAATGGT  GTAGCACGAT |
| pBINGFP2-GmTAP1-F | TACAAGGGTACCCCCATGTCAATGCTATCTCTTCTTCG |
| pBINGFP2-GmTAP1-R | GGATCCGTCGACCCCGTGGTTCGGGTACCAAAAC |
| pBIN-GmTAP1-mRFP-F | GCCATGGGTACCCCCGGGATGTCAATGCTATCTCTTCT |
| pBIN-GmTAP1-mRFP-R | CTCGGAGGAGGCCATCCCGGGGTGGTTCGGGT  ACCAAAACATGCC |
| pBINGFP2-GmTAP2-F | TACAAGGGTACCCCCATGCTAACCTTCAATCTCAATGC |
| pBINGFP2-GmTAP2-R | GGATCCGTCGACCCCTTAGTGATTCGGGTACCAAAACA |
| pBINGFP2-GmTAP1-NLS-F | TACAAGGGTACCCCCATGTCAATGCTATCTCTTCTTCG |
| pBINGFP2-GmTAP1-NLS-R | GGATCCGTCGACCCCCTATCCTCCAACCTTTCTC  TTCTTCTTAGGCTGGTGGTTCGGGTACCAAAAC |
| pBINGFP2-GmTAP1-NES-F | TACAAGGGTACCCCCGGGATGTCAATGCTATCTCTTCTTC |
| pBINGFP2-GmTAP1-NES-R | GGATCCGTCGACCCCCTTGTTAATATCAAGTCCAGCCA  ACTTAAGAGCAAGCTCGTTGTGGTTCGGGTACCAAAAC |
| pBINGFP2-GmTAP11-140-F | TACAAGGGTACCCCCATGTCAATGCTATCTCTTCTTCG |
| pBINGFP2-GmTAP11-140-R | GGATCCGTCGACCCCGGGTGACCCATGTGACTTTCTTATA |
| pBINGFP2-GmTAP1atd-F | TACAAGGGTACCCCCGGGATGGAGGGGAATGAACAGAA |
| pBINGFP2-GmTAP1atd-R | GGATCCGTCGACCCCGTGGTTCGGGTACCAAAAC |
| pGEX4T-2-GmTAP1-F | TCCCCAGGAATTCCCATGTCAATGCTATCTCTTCTTCG |
| pGEX4T-2-GmTAP1-R | CGCTCGAGTCGACCCTCAGTGGTTCGGGTACCAAAAC |
| pGEX4T-2-GmTAP2-F | TCCCCAGGAATTCCCATGCTAACCTTCAATCTCAATGC |
| pGEX4T-2-GmTAP2-R | CGCTCGAGTCGACCCTTAGTGATTCGGGTACCAAAACA |
| pET32a-PsAvh52-F | AAGGCCATGGCTGATATGCTCACGTTGACCAAGGATT |
| pET32a-PsAvh52-R | GAATTCGGATCCGATTCAGTTGGCCGCCTTATAAACC |
| pFGC5941-3UTRGmTAP1-AscIF | ttacaattaccatggggcgcgccTTGCAACCCTACCAAAGCTTTT |
| pFGC5941-3UTRGmTAP1-AscIR | ttaaatcatcgattgggcgcgccCCACAGTCAGTAAGTGGTGG |
| pFGC5941-3UTRGmTAP1-BamHIR | aatttgcaggtatttggatccCCACAGTCAGTAAGTGGTGG |
| pFGC5941-3UTRGmTAP1-BamHIF | ctctagactcacctaggatccTTGCAACCCTACCAAAGCTTTT |

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| qPCR-PsAvh52-F | GATTGCCAACGGAGATTC |
| qPCR-PsAvh52-R | CACTTTCTTCCGTTTAGCC |
| qPCR-PsACTIN-F | ACTGCACCTTCCAGACCATC |
| qPCR-PsACTIN-R | CCACCACCTTGATCTTCATG |
| qPCR-3UTRGmTAP1-F | GGCTTTGATTAGTAGGCCTGC |
| qPCR-3UTRGmTAP1-R | GCCCGAAGAAAACCACTAACC |
| qPCR-GmTAP2-F | ATGCTAACCTTCAATCTCAATG |
| qPCR-GmTAP2-R | AGGAGTAACTAAGATTGGAAGG |
| qPCR-GmCYP2-F | CGGGACCAGTGTGCTTCTTCA |
| qPCR-GmCYP2-R | CCCCTCCACTACAAAGGCTCG |
| qPCR-MtN3-F | AAAAAAGAAAATAACCTAATTAAACG |
| qPCR-MtN3-R | CACCTTTACATTAATCAAACGAA |
| qPCR-PG-F | TGTGCATTATGTAGTAGAAGCCA |
| qPCR-PG-R | ACGCATAACTAGCCAGGCAT |
| qPCR-LOX-1-F | GCCCGTGTATTCATATTTTGCA |
| qPCR-LOX-1-R | CGGAAATAGGACTGCAGAATGT |
| qPCR-LOX-2-F | TGGGTGATGTTCAGAATGCT |
| qPCR-LOX-2-R | TGGTCGAATCTTGACACCAA |
| ChipPCR-MtN3-F | TATTAGGGTCAGGCACCATCGT |
| ChipPCR-MtN3-R | AGATGAATTAAGAAAGAGGTTAATTAA |
| ChipPCR-PG-F | AAAATAACATGCACAACAACATGA |
| ChipPCR-PG-R | GCAGTGAGAGTGAAGAGAAACTGT |
| ChipPCR-Lox-1-F | CTTCTCGTAGATACATTTGCTCC |
| ChipPCR-Lox-1-R | GAGTTGGGTTATCATAACTTCAAC |
| ChipPCR-Lox-2-F | TCTCACAAGCCAAACAAGGA |
| ChipPCR-Lox-2-R | TGAACAACCCTTTCACCCC |
| ChipPCR-UBQ5-F | CCAGCAAAACATAGGCCCAAA |
| ChipPCR-UBQ5-R | TGTGGCTAGCTAGGGTTTCT |