**Appendix S1.** Sequence for DsiRNA, CPT1Aresistant and CPT1Amutant

**The DsiRNA sequence for siRNA #1:**

5’- GCCUUUACGUGGUGUCUAAAUAUCT-3’

3’- GACGGAAAUGCACCACAGAUUUAUAGA-5’

**The DsiRNA sequence for siRNA #2:**

5’- UCAAUGGACAGCUACGCCAAAUCTC-3’

3’- GCAGUUACCUGUCGAUGCGGUUUAGAG-5’

**The DNA sequence for CPT1Aresistant:**

atggcagaagctcaccaagctgtggcctttcagttcacggtcactccggacgggattgacctgcggctgagccacgaggccttgcggcagatttatctctctggacttcattcctggaaaaagaagttcatcagattcaagaacggcatcatcactggcgtgtacccggcaagcccctccagttggcttatcgtggtggtgggcgtgatgacaacgatgtacgccaagatcgacccctcgttaggaataattgcaaaaatcaatcggactctggaaacggccaactgcatgtccagccagacgaagaacgtggtcagcggcgtgctgtttggcaccggcctgtgggtggccctcatcgtcaccatgcgctactccctgaaagtgctgctctcctaccacgggtggatgttcactgagcacggcaagatgagtcgtgccaccaagatctggatgggtatggtcaagatcttttcaggccgaaaacccatgttgtacagcttccagacatcgctgcctcgcctgccggtcccggctgtcaaagacactgtgaacaggtatctacagtcggtgaggcctcttatgaaggaagaagacttcaaacggatgacagcacttgctcaagattttgctgtcggtcttggaccaagattacagtggtatttgaagttaaaatcctggtgggctacaaattacgtgagcgactggtgggaggagtacatctacctccgaggacgagggccgctcatggtgaacagcaactattatgccatggatctgctgtatatccttccaactcacattcaggcagcaagagccggcaacgccatccatgccatcctgctttacaggcgcaaactggaccgggaggaaatcaaaccaattcgtcttttgggatccacgattccactctgctccgctcagtgggagcggatgtttaatacttcccggatcccaggagaggagacagacaccatccagcacatgagagacagcaagcacatcgtcgtgtaccatcgaggacgctacttcaaggtctggctctaccatgatgggcggctgctgaagccccgggagatggagcagcagatgcagaggatcctggacaatacctcggagcctcagcccggggaggccaggctggcagccctcaccgcaggagacagagttccctgggccaggtgtcgtcaggcctattttggacgtgggaaaaataagcagtctcttgatgctgtggagaaagcagcgttcttcgtgacgttagatgaaactgaagaaggatacagaagtgaagacccggataccagcatggattcttatgctaaatctctactacacggccgatgttacgacaggtggtttgacaagtcgttcacgtttgttgtcttcaaaaacgggaagatgggcctcaacgctgaacactcctgggcagatgcgccgatcgtggcccacctttgggagtacgtcatgtccattgacagcctccagctgggctatgcggaggatgggcactgcaaaggcgacatcaatccgaacattccgtaccccaccaggctgcagtgggacatcccgggggaatgtcaagaggttatagagacctccctgaacaccgcaaatcttctggcaaacgacgtggatttccattccttcccattcgtagcctttggtaaaggaatcatcaagaaatgtcgcacgagcccagacgcctttgtgcagctggccctccagctggcgcactacaaggacatgggcaagttttgcctcacatacgaggcctccatgacccggctcttccgagaggggaggacggagaccgtgcgctcctgcaccactgagtcatgcgacttcgtgcgggccatggtggacccggcccagacggtggaacagaggctgaagttgttcaagttggcgtctgagaagcatcagcatatgtatcgcctcgccatgaccggctctgggatcgatcgtcacctcttttgtttgtatgtcgtcagcaaatatctcgctgtggagtcccctttccttaaggaagttttatctgagccttggagattatcaacaagccagacccctcagcagcaagtggagctgtttgacttggagaataacccagagtacgtgtccagcggagggggctttggaccggttgctgatgacggctatggtgtgtcgtacatccttgtgggagagaacctcatcaatttccacatttcttccaagttctcttgccctgagacggattctcatcgctttggaaggcacctgaaagaagcaatgactgacatcatcactttgtttggtctcagttctaattccaaaaagtaa

**The DNA sequence for CPT1Amutant (G709E, G710E):**

atggcagaagctcaccaagctgtggcctttcagttcacggtcactccggacgggattgacctgcggctgagccacgaggccttgcggcagatttatctctctggacttcattcctggaaaaagaagttcatcagattcaagaacggcatcatcactggcgtgtacccggcaagcccctccagttggcttatcgtggtggtgggcgtgatgacaacgatgtacgccaagatcgacccctcgttaggaataattgcaaaaatcaatcggactctggaaacggccaactgcatgtccagccagacgaagaacgtggtcagcggcgtgctgtttggcaccggcctgtgggtggccctcatcgtcaccatgcgctactccctgaaagtgctgctctcctaccacgggtggatgttcactgagcacggcaagatgagtcgtgccaccaagatctggatgggtatggtcaagatcttttcaggccgaaaacccatgttgtacagcttccagacatcgctgcctcgcctgccggtcccggctgtcaaagacactgtgaacaggtatctacagtcggtgaggcctcttatgaaggaagaagacttcaaacggatgacagcacttgctcaagattttgctgtcggtcttggaccaagattacagtggtatttgaagttaaaatcctggtgggctacaaattacgtgagcgactggtgggaggagtacatctacctccgaggacgagggccgctcatggtgaacagcaactattatgccatggatctgctgtatatccttccaactcacattcaggcagcaagagccggcaacgccatccatgccatcctgctttacaggcgcaaactggaccgggaggaaatcaaaccaattcgtcttttgggatccacgattccactctgctccgctcagtgggagcggatgtttaatacttcccggatcccaggagaggagacagacaccatccagcacatgagagacagcaagcacatcgtcgtgtaccatcgaggacgctacttcaaggtctggctctaccatgatgggcggctgctgaagccccgggagatggagcagcagatgcagaggatcctggacaatacctcggagcctcagcccggggaggccaggctggcagccctcaccgcaggagacagagttccctgggccaggtgtcgtcaggcctattttggacgtgggaaaaataagcagtctcttgatgctgtggagaaagcagcgttcttcgtgacgttagatgaaactgaagaaggatacagaagtgaagacccggataccagcatggattcttatgctaaatctctactacacggccgatgttacgacaggtggtttgacaagtcgttcacgtttgttgtcttcaaaaacgggaagatgggcctcaacgctgaacactcctgggcagatgcgccgatcgtggcccacctttgggagtacgtcatgtccattgacagcctccagctgggctatgcggaggatgggcactgcaaaggcgacatcaatccgaacattccgtaccccaccaggctgcagtgggacatcccgggggaatgtcaagaggttatagagacctccctgaacaccgcaaatcttctggcaaacgacgtggatttccattccttcccattcgtagcctttggtaaaggaatcatcaagaaatgtcgcacgagcccagacgcctttgtgcagctggccctccagctggcgcactacaaggacatgggcaagttttgcctcacatacgaggcctccatgacccggctcttccgagaggggaggacggagaccgtgcgctcctgcaccactgagtcatgcgacttcgtgcgggccatggtggacccggcccagacggtggaacagaggctgaagttgttcaagttggcgtctgagaagcatcagcatatgtatcgcctcgccatgaccggctctgggatcgatcgtcacctcttttgtttgtatgtcgtcagcaaatatctcgctgtggagtcccctttccttaaggaagttttatctgagccttggagattatcaacaagccagacccctcagcagcaagtggagctgtttgacttggagaataacccagagtacgtgtccagcgaggagggctttggaccggttgctgatgacggctatggtgtgtcgtacatccttgtgggagagaacctcatcaatttccacatttcttccaagttctcttgccctgagacggattctcatcgctttggaaggcacctgaaagaagcaatgactgacatcatcactttgtttggtctcagttctaattccaaaaagtaa