**Supplemental Table S2 Primer sequences used for the introduction of Flag-CPNE1 mutations.**

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| Mutations | Primer Sequences |
| K60R | F:AAGCCCTGAGTTCTCCAGGACTCTACAGCTTGAGTR:ACTCAAGCTGTAGAGTCCTGGAGAACTCAGGGCTT |
| K84R | F:CTATGACATAGACAACAGGACGCCAGAGCTGAGGGR:CCCTCAGCTCTGGCGTCCTGTTGTCTATGTCATAG |
| K120R | F:GATGCTGAAGCCTGGAAGGCCTGCTGGGCGGGGGAR:TCCCCCGCCCAGCAGGCCTTCCAGGCTTCAGCATC |
| K135R | F:CTCAGCTCAGGAATTAAGGGACAATCGTGTAGTAAR:TTACTACACGATTGTCCCTTAATTCCTGAGCTGAG |
| K157R | F:GAAGGACTTCCTGGGAAGGTCAGATCCATTTCTGGR:CCAGAAATGGATCTGACCTTCCCAGGAAGTCCTTC |
| K190R | F:CCTGAACCCTACATGGAGGCGTTTCTCAGTCCCCGTR:ACGGGGACTGAGAAACGCCTCCATGTAGGGTTCAGG |
| K522R | F:AGGGTTGGGCCCCGCTCAGGCCACTTCCACCCTCAGR:CTGAGGGTGGAAGTGGCCTGAGCGGGGCCCAACCCT |
| K529R | F:ACTTCCACCCTCAGCCAGGGATCCTGCACAGGCCR:GGCCTGTGCAGGATCCCTGGCTGAGGGTGGAAGT |