**Primers used in this study:**

**Primers for generating pNP-PI4KIIIα-KD**

5’-ctagcagtCCCGTTCTCAAGAGTAGCAAAtagttatattcaagcataTTTGCTACTCTTGAGAACGGGgcg-3’

5’-aattcgcCCCGTTCTCAAGAGTAGCAAAtatgcttgaatataactaTTTGCTACTCTTGAGAACGGGactg-3’

**Primers for generating pNP-PI4KIIα-KD**

5’-ctagcagtATGGTCATATTCAATAATTAAtagttatattcaagcataTTAATTATTGAATATGACCATgcg-3’

5’-aattcgcATGGTCATATTCAATAATTAAtatgcttgaatataactaTTAATTATTGAATATGACCATactg-3’

**Primers for generating pNP-fwd-KD**

5’-ctagcagtACGGTTATCAATACTACACTAtagttatattcaagcataTAGTGTAGTATTGATAACCGTgcg-3’

5’-aattcgcACGGTTATCAATACTACACTAtatgcttgaatataactaTAGTGTAGTATTGATAACCGTactg

**Primer for generating pGU-P4M::GFP**

5’- tcgGCTAGCggctagcgaacaggcATGacggcaagcacggaaaactttaaaaatgTTAAAGAAAAATATCAGTGTCGGCGCGCC TTTTATCTTAATGGTTTGTCTTTCTTG

5’- AGTGTCGGCGCGCC TTTTATCTTAATGGTTTGTCTTTCTTG

**Primer for generating pGU-P4MX2::GFP**

5’-AGTGTCGCTAGCggctagcgaacaggcATGGTGAGCAAGGGCGAGGAGCTGTTCAC

5’-CTGGACACGCGTTTATGATCAGTTATCTAGATCCGGTGGA

**Primer for generating pGU-PLC-PH::GFP**

5’-tcgAGATCT ggc tag cga aca ggc ATG ATGGACTCGGGCCGGGACTTC

WD417: AGTGTC GGTACC TTA GTTCAGATCCTCCTCGGA

**Primer for generating pGU-PLC-PH::RFP**

5’-tcgAGATCTggctagcgaacaggcATGATGGACTCGGGCCGGGACTTC

5’-AAGGAGCTGCAGAACTTCCTGAAGGTGTCTAAGGGCGAAGAGCTGATTAAG

5’-CTTAATCAGCTCTTCGCCCTTAGACACCTTCAGGAAGTTCTGCAGCTCCTT

5’-AGTGTCGGTACCTTAATTAAGTTTGTGCCCCAGTTT