



Supplement Figure 1. Key experiments are reproduced in CHO cell lines. **A)** The N-terminus fragment of LHFPL5 comprising residues LHFPL5¹⁻²³, does not preclude trafficking of the AGR system to the plasma membrane (PM) when expressed in CHO cells. **B)** Extracellular loop 1, consisting of the LHFPL5⁴⁷⁻⁹⁶ fragment, also halts any detectable trafficking to the PM when expressed in CHO cells. **C-E)** AGR-based constructs containing the remaining intracellular loop 1, LHFPL5¹²⁰⁻¹²⁵ (C), extracellular loop 2, LHFPL5¹⁴⁹⁻¹⁷⁶ (D) or the C-terminus, LHFPL5²⁰⁰⁻²¹⁹ (E) show PM labeling when expressed in CHO cells. To label the PM, wheat germ agglutinin (WGA) Alexa Fluor 594 conjugate was used (ThermoFisher Scientific, MA). Scale bars: 10 μ m.