



Fig. S1. Sequence alignment of the β -groove region from various C2 domains including type I and II topologies. The C2 domain of PKC α was used to perform the sequence alignment. Residues for Type I topology C2 domains that have been shown to bind phosphoinositides, particularly PI(4,5)P $_2$ are shown in bold. For cPLA $_2\alpha$ residues that are conserved with the purported PI(4,5)P $_2$ binding residues are shown in bold, residues that are distinct from PI(4,5)P $_2$ binding residues are highlighted in red, and C1P binding residues including those involved in nonspecific electrostatics are shown in blue.