**6His-PlcC-NetB fusion protein,ER targeted (with signal peptide)**

ATGGCTAACAAgCAcCTcTCaTTGTCTCTcTTCCTtGTGCTcCTTGGTCTTTCTGCTTCTCTTGCTTCTGGTCACCATCACCATCATCACggatccGACCCaTCCGTGGGaAACAACGTtAAgGAgCTtGTGGCTTACATCTCCACTtctGGaGAgAAgGACGCTGGaACCGACGAtTACATGTAcTTCGGtATCAAgACCAAGGAtGGaAAgACTCAAGAATGGGAgATGGACAAtCCaGGtAACGACTTCATGGCTGGtAGCAAgGAtACTTAcACTTTCAAgTTgAAAGACGAgAACCTtAAgATcGACGACATCCAgAACATGTGGATTaggAAACGTAAgTAcACCGCcTTCCCaGACGCTTAcAAGCCtGAgAACATCAAGGTtATCGCtAACGGaAAgGTGGTtGTtGACAAGGAtATCAACGAGTGGATTTCtGGaAACTCCACTTAcAACATCAAAggaggttctggtggatcaggaggtccatctggaggttctggaggatccGAgCTtAACGACATCAACAAgATTGAGCTtAAgAACCTctcCGGaGAgATCATCAAgGAgAACGGtAAGGAgGCTATcAAgTAcACTTCttccGACACCGCTTCCCAcAAgGGaTGGAAGGCcACTCTttctGGaACCTTCATcGAAGACCCtCATTCtGACAAGAAgACTGCTttgCTtAACCTtGAAGGaTTcATCCCaTCtGACAAACAGATcTTCGGaTCTAAgTAcTACGGaAAgATGAAgTGGCCtGAgACTTAcaggATcAAcGTGAAgAGCGCTGACGTtAACAAcAACATCAAgATCGCcAACTCtATTCCGAAgAAcACTATCGACAAgAAgGACGTGTCCAATTCtATcGGtTAcTCCATCGGaGGTAACATCTCtGTtGAgGGtAAgACTGCTGGtGCTGGaATCAACGCTTCtTAcAACGTtCAgAACACTATCtccTATGAgCAACCtGACTTCagaACCATTCAgaggAAgGACGATGCtAACCTtGCATCCTGGGACATCAAATTCGTTGAGACTAAGGACGGaTAcAACATCGACTCCTAcCATGCTATcTATGGCAACCAgCTcTTCATGAAgagcagattgTAcAACAATGGtGACAAgAACTTCACCGACGATaggGACCTcTCCACCttgATcTCtGGtGGaTTCTCtCCaAACATGGCTCTtGCcttgACCGCtCCTAAgAAcGCTAAgGAgTCaGTGATCATCGTtGAATAcCAgaggTTCGACAACGACTATATcCTtAAcTGGGAgACTACTCAAGCTagaGGaACtAACAAgCTTTCtTCAACCtccGAgTAcAACGAgTTTATGTTCAAgATCAACTGGCAgGACCAcAAgATCGAATAcTATCTtTAA

MANKHLSLSLFLVLLGLSASLASGHHHHHHGSDPSVGNNVKELVAYISTSGEKDAGTDDYMYFGIKTKDGKTQEWEMDNPGNDFMAGSKDTYTFKLKDENLKIDDIQNMWIRKRKYTAFPDAYKPENIKVIANGKVVVDKDINEWISGNSTYNIKGGSGGSGGPSGGSGGSELNDINKIELKNLSGEIIKENGKEAIKYTSSDTASHKGWKATLSGTFIEDPHSDKKTALLNLEGFIPSDKQIFGSKYYGKMKWPETYRINVKSADVNNNIKIANSIPKNTIDKKDVSNSIGYSIGGNISVEGKTAGAGINASYNVQNTISYEQPDFRTIQRKDDANLASWDIKFVETKDGYNIDSYHAIYGNQLFMKSRLYNNGDKNFTDDRDLSTLISGGFSPNMALALTAPKNAKESVIIVEYQRFDNDYILNWETTQARGTNKLSSTSEYNEFMFKINWQDHKIEYYL

**6His-PlcC-NetB fusion protein, cytoplasm targeting(no signal peptide)**

ATGGCTCACCATCACCATCATCACggatccGACCCaTCCGTGGGaAACAACGTtAAgGAgCTtGTGGCTTACATCTCCACTtctGGaGAgAAgGACGCTGGaACCGACGAtTACATGTAcTTCGGtATCAAgACCAAGGAtGGaAAgACTCAAGAATGGGAgATGGACAAtCCaGGtAACGACTTCATGGCTGGtAGCAAgGAtACTTAcACTTTCAAgTTgAAAGACGAgAACCTtAAgATcGACGACATCCAgAACATGTGGATTaggAAACGTAAgTAcACCGCcTTCCCaGACGCTTAcAAGCCtGAgAACATCAAGGTtATCGCtAACGGaAAgGTGGTtGTtGACAAGGAtATCAACGAGTGGATTTCtGGaAACTCCACTTAcAACATCAAAggaggttctggtggatcaggaggtccatctggaggttctggaggatccGAgCTtAACGACATCAACAAgATTGAGCTtAAgAACCTctcCGGaGAgATCATCAAgGAgAACGGtAAGGAgGCTATcAAgTAcACTTCttccGACACCGCTTCCCAcAAgGGaTGGAAGGCcACTCTttctGGaACCTTCATcGAAGACCCtCATTCtGACAAGAAgACTGCTttgCTtAACCTtGAAGGaTTcATCCCaTCtGACAAACAGATcTTCGGaTCTAAgTAcTACGGaAAgATGAAgTGGCCtGAgACTTAcaggATcAAcGTGAAgAGCGCTGACGTtAACAAcAACATCAAgATCGCcAACTCtATTCCGAAgAAcACTATCGACAAgAAgGACGTGTCCAATTCtATcGGtTAcTCCATCGGaGGTAACATCTCtGTtGAgGGtAAgACTGCTGGtGCTGGaATCAACGCTTCtTAcAACGTtCAgAACACTATCtccTATGAgCAACCtGACTTCagaACCATTCAgaggAAgGACGATGCtAACCTtGCATCCTGGGACATCAAATTCGTTGAGACTAAGGACGGaTAcAACATCGACTCCTAcCATGCTATcTATGGCAACCAgCTcTTCATGAAgagcagattgTAcAACAATGGtGACAAgAACTTCACCGACGATaggGACCTcTCCACCttgATcTCtGGtGGaTTCTCtCCaAACATGGCTCTtGCcttgACCGCtCCTAAgAAcGCTAAgGAgTCaGTGATCATCGTtGAATAcCAgaggTTCGACAACGACTATATcCTtAAcTGGGAgACTACTCAAGCTagaGGaACtAACAAgCTTTCtTCAACCtccGAgTAcAACGAgTTTATGTTCAAgATCAACTGGCAgGACCAcAAgATCGAATAcTATCTtTAA

MAHHHHHHGSDPSVGNNVKELVAYISTSGEKDAGTDDYMYFGIKTKDGKTQEWEMDNPGNDFMAGSKDTYTFKLKDENLKIDDIQNMWIRKRKYTAFPDAYKPENIKVIANGKVVVDKDINEWISGNSTYNIKGGSGGSGGPSGGSGGSELNDINKIELKNLSGEIIKENGKEAIKYTSSDTASHKGWKATLSGTFIEDPHSDKKTALLNLEGFIPSDKQIFGSKYYGKMKWPETYRINVKSADVNNNIKIANSIPKNTIDKKDVSNSIGYSIGGNISVEGKTAGAGINASYNVQNTISYEQPDFRTIQRKDDANLASWDIKFVETKDGYNIDSYHAIYGNQLFMKSRLYNNGDKNFTDDRDLSTLISGGFSPNMALALTAPKNAKESVIIVEYQRFDNDYILNWETTQARGTNKLSSTSEYNEFMFKINWQDHKIEYYL