Supplemental Table 1. Primers used in this study. Recognition sequences for restriction enzymes are shown in bold and italics and homologous sequences to the *hDHFR* cassette used for generation of a *PbPI3K* knock out construct are underlined.

Primer	Sequence (5' - 3')
155	***AGATCT ATCGAT***ACGTTTTTCTTACTTATATATTTATACC
156	***CTGCAG***ATCGAAATTGAAGGAAAAAC
157	***AGATCT***GGTGGACCTGGTGGTTACCCTTACGATGTTCCTG
158	***ATCGAT***TTATCGTCCTCCTGGTTCCATACAGCATCCTGGACAGCA GTTTAGGAAAGAACCTGCGACTCCAGCGTAATCTGG
159	***CCGCGG***CTTTAATTTTGCCAATAGATCC
160	***AGATCT***TCCACCAGGTCCACC TTTCCAGTTTAAAGCCCATTC
161	AAGAGATAAAAAATGAGAAAATCG
162	GCTGGGCTGCAGAGGCCTGTTAAC CTATTATCTTAAATCGATTGTATGG
164	ATTTTTATCTTATCCCAAATTAAGC
168	CGATGGGTACCCTCGAGGCTAGCGA TTTTTGTACTGCATTTACAATCC
175	GGTTCGCTAAACTGCATCG
176	GAGAACACCTGGGTATTCTGG
181	***CTCGAG***CTTTAATTTTGCCAATAGATCC
182	***GCTAGC***TTTCCAGTTTAAAGCCCATTC
185	TACAACCTAATGATGGCTTTGG
200	ACATATGGGGATTGTAAATGC
202	ATGAACAAATACATAAGAGCGCC
207	GCCCTCCCAACATAACCAG
211	ATGCATGCCAAGCCTTTGTCTCAAG
242	TGGGGTGATGATAAAATGAAAG
244	ATT***CCTAGG***ATGGTGAGCAAGGGCGAGG
245	TAT***CTTAAG***TTATGCCTTCTTGTTCAGCTGC
251	TGAGTACTTGTACAGCTCGTCC
272	***AAGCTT CTCGAG***CCGGAATTCGAAAGTG
273	GGATC***CTTAAG***CTCGACTCGACTTATGC
274	***AGATCT***TTATTTCCAGTTTAAAGCCCATTC
DHter	CATTTTTACAGTTATAAATACAATCAATTG