p37delta: *PIK3CD_v2$^{p37\delta}$* Human

gagggggctttgctggtctttcttggactattccagagaggacaactgtcatctgggaagtaacaacgcaggATGcccccctggggtggactgc
cccatggaattctggaccaaggaggagaatcagagcgttgtggttgacttcctgctgcccacaggggtctacctgaacttccctgtgtcccgc
aatgccaacctcagcaccatcaagcagctgctgtggcaccgcgcccagtatgagccgctcttccacatgctcagtggccccgaggcctatgtg
ttcacctgcatcaaccagacagcggagcagcaagagctggaggacgagcaacggcgtctgtgtgacgtgcagcccttcctgcccgtcctgcgc
ctggtggcccgtgagggcgaccgcgtgaagaagctcatcaactcacagatcagcctcctcatcggcaaaggcctccacgagtttgactccttg
tgcgacccagaagtgaacgactttcgcgccaagatgtgccaattctgcgaggaggcggccgcccgccggcagcagctgggctgggaggcctgg
ctgcagtacagtttccccctgcagctggagccctcggctcaaacctgggggcctggtaccctgcggctcccgaaccgggcccttctggtcaac
gttaagtttgagggcagcgagGTGAGCCCATGCGTGGCCTGCGGCATCCAGGCTGCTCTGTCCATGGGGAGCACTTCCTCTGTGAAACTCCTC
AGTCATCCGCAAGCCCCCCTCCCCCAGTGGCATCAGATGGTGTTTGCCAGGTGTCTGTGCATGTGTGGGGCTCAACTGAATGTCCCCCCAGga
gagcttcaccttccaggtgtccaccaaggacgtgccgctggcgctgatggcctgtgccctgcggaagaaggccacagtgttccggcagccgct
ggtggagcagccggaagactacacgctgcaggtgaacggcaggcaTGAgtacctgtatg

N-Dp110: N-terminal *PiK92E* Drosophila

atccgaggcaccagatccaaaatccgaacttgaagatcaaatagtcATGaacatgatggacaaccgggcgttggcctacgtggcccaccagcc
caagtatgagacaccgccggaagaagcggagccgccctgcatgcgcttttcggttaacctgtggaaaaacgagatgctgaactgggtggacct
aatctgcctgttgcccaatggattcctgctggagctcagggtcaatccggccaacaccatccaggtaatcaaggtggagatggtcaaccaggc
caaacagatgccactgggctatgtgatcaaagaggcctgcgagtaccaggtgtacggcatctcgaccttcaacatcgaaccttacaccgacga
aacgaagcgactcagtgaggtccagccgtacttcggcatcctcagcctcggcgagcgcaccgacacaacgagctttagcagcgactacgagct
gaccaagatggttaacggaatgatcggcaccaccttcgatcataatcgaacgcacggctcgcccgagattgacgacttccggctgtatatgac
ccaaacttgcgacaacatcgaactggagcgctccgcctacacctggcagcagagactgctctacgagcatcctctgcgactggcgaactcgac
taaaatgcccgagctgatacgggagcggcatccgaccagaacctttctcatcgtcgtaaagaacgagaacgacTAGa

Dp37: N-terminal *PiK92E* Drosophila + C-terminal *PIK3CD_v2$^{p37\delta}$* Human

atccgaggcaccagatccaaaatccgaacttgaagatcaaatagtcATGaacatgatggacaaccgggcgttggcctacgtggcccaccagcc
caagtatgagacaccgccggaagaagcggagccgccctgcatgcgcttttcggttaacctgtggaaaaacgagatgctgaactgggtggacct
aatctgcctgttgcccaatggattcctgctggagctcagggtcaatccggccaacaccatccaggtaatcaaggtggagatggtcaaccaggc
caaacagatgccactgggctatgtgatcaaagaggcctgcgagtaccaggtgtacggcatctcgaccttcaacatcgaaccttacaccgacga
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ccaaacttgcgacaacatcgaactggagcgctccgcctacacctggcagcagagactgctctacgagcatcctctgcgactggcgaactcgac
taaaatgcccgagctgatacgggagcggcatccgaccagaacctttctcatcgtcgtaaagaacgagaacgaccagGTGAGCCCATGCGTGGC
CTGCGGCATCCAGGCTGCTCTGTCCATGGGGAGCACTTCCTCTGTGAAACTCCTCAGTCATCCGCAAGCCCCCCTCCCCCAGTGGCATCAGAT
GGTGTTTGCCAGGTGTCTGTGCATGTGTGGGGCTCAACTGAATGTCCCCCCAGgagagcttcaccttccaggtgtccaccaaggacgtgccgc
tggcgctgatggcctgtgccctgcggaagaaggccacagtgttccggcagccgctggtggagcagccggaagactacacgctgcaggtgaacg
gcaggcaTGAgtacctgtatgg

Figure S1. **Sequences for constructs p37delta, N-Dp110 and Dp37, cloned into the pUASTattB-vector for expression in *Drosophila Melanogaster*.** PCR primer sequences are underlined, start and stop-codons are indicated by red lettering and sequence corresponding intron 5 of human *PIK3CD* is capitalized. The stop-codon in N-Dp110 was introduced in the PCR.