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Homem, R. A., Buttery, B., Richardson, E., Tan, Y., Field, L. M., Williamson, M. S. and Davies, T. G. E. 2020. Evolutionary trade-offs of insecticide resistance – the fitness costs associated with target-site mutations in the nAChR of *Drosophila melanogaster*. *Molecular Ecology*. pp. 1-15.

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Supplementary Table 1: List of primers used in the study

Primer name	Purpose	Sequence (5'-3')
A6_Seq_5'_gRNA_F	Sequencing gRNA target site on 5' end of the nAChR α 6 gene	AATTTTCTTTGACTTTTCTT
A6_Seq_5'_gRNA_R		TTGAGTCAAATTGTGGAT
A6_Seq_3'_gRNA_F	Sequencing gRNA target site on 3' end of the nAChR α 6 gene	AAGAGTGTAGAAAATGGTTT
A6_Seq_3'_gRNA_R		AGATTTGATATGAGACGATT
A6_DsRed_int_5`_F	Genotyping nAChR α 6 knock-out/ DsRed knock-in	ATACGAAGTTATCTACGC
A6_DsRed_int_5`_R		TGATAAAAATGATAAGTGTG
A6_DsRed_int_3`_F	Genotyping nAChR α 6 knock-out/ DsRed knock-in	TTTTGCTTTTGGACTTA
A6_DsRed_int_3`_R		GAGCACTAGTATAACTTCGT
A6_RT-PCR_F	Validating nAChR α 6 knock-out	CCGCGCCGTAATAAATTGCA
A6_RT-PCR_R		GCATCATGTTTCATGGTCGCC
R81T_RT-PCR_F	Validating R81T knock-in	CCGCGCCGTAATAAATTGCA
R81T_RT-PCR_R		GCATCATGTTTCATGGTCGCC
B1_Seq_HA_Left_F	Sequencing nAChR β 1 target region and genotyping R81T integration	GGCGCATTCAACGTTTCAGT
B1_Seq_HA_Left_R		ATGGTGGTGGTTTGGTGGTT
B1_Seq_HA_Right_F	Sequencing nAChR β 1 target region	CGTACCCGTACTIONTCGTACCG
B1_Seq_HA_Right_R		AGGTCACATCGATGGTGCAG
attP2_BglII_F	Restriction ligation cloning of second attP site into pDsRed-attP to generate pDsRed-2attP	TGAAGATCTGTAGTGCCCCAACTGGG
attP2_SpeI_R		GCCACTAGTATAACTTCGTATAGCATACATTATACG
A6_5'_HA_SphI_F	Restriction ligation cloning nAChR α 6 5' homology arm into pDsRed-2attP	GCATGCCCAAGGCAGGCGAATGGC
A6_5'_HA_EcoRI_R		GAATTCATCGCTGCAGCTGTCGCTGTCTC

A6_3'_HA_XhoI_F	Restriction ligation cloning nAChR_α6 3' homology arm into pDsRed-2attP	CTCGAGTAACGGTTTAATAATTATGCAATAAG
A6_3'_HA_BglIII_R		AGATCTCGGAGGGTGTGTGCATTTT
A6_3'_gRNA_pCDF4_F	Gibson assembly of nAChR_α6 3' and 5' gRNA sequences into pCFD4	TATATAGGAAAGATATCCGGGTGAACTTCGCTAACGGTACAC ACACGCCAGTTTTAGAGCTAGAAATAGCAAG
A6_5'_gRNA_pCDF4_R		ATTTTAACTTGCTATTTCTAGCTCTAAAACCCGCAGCTCTCG CTCTCTATCGACGTTAAATGAAAATAGGTC
B1_left_gRNA_pCDF4_F	Gibson assembly of nAChR_β1 left and right gRNA sequences into pCFD4	TATATAGGAAAGATATCCGGGTGAACTTCGTGATTGTGATCA GATGGTGGGTTTTAGAGCTAGAAATAGCAAG
B1_right_gRNA_pCDF4_R		ATTTTAACTTGCTATTTCTAGCTCTAAAACCCGTAGTCGGCC TCATCCCACGACGTTAAATGAAAATAGGTC
RpL32_F	Housekeeping genes used as control in RT-PCRs	GCGCTTGTTCGATCCGTAAC
RpL32_R		GCCCAAGGGTATCGACAACA