

Rothamsted Repository Download

A - Papers appearing in refereed journals

Troczka, B. J., Richardson, E., Homem, R. A. and Davies, T. G. E. 2018.
An analysis of variability in genome organisation of intracellular calcium
release channels across insect orders. *Gene*. 670, pp. 70-86.

The publisher's version can be accessed at:

- <https://dx.doi.org/10.1016/j.gene.2018.05.075>

The output can be accessed at: <https://repository.rothamsted.ac.uk/item/847vv/an-analysis-of-variability-in-genome-organisation-of-intracellular-calcium-release-channels-across-insect-orders>.

© 21 May 2018, Please contact library@rothamsted.ac.uk for copyright queries.

Supplementary information

SUP Table 1. Excel spreadsheet summary of exon assignment / alignment and intron and exon sequences for RyRs and IP₃Rs. It should be noted that in some species, due to scaffold fragmentation and a large intron size, the final annotation is distributed across several contigs with some gaps in intronic sequence still remaining.

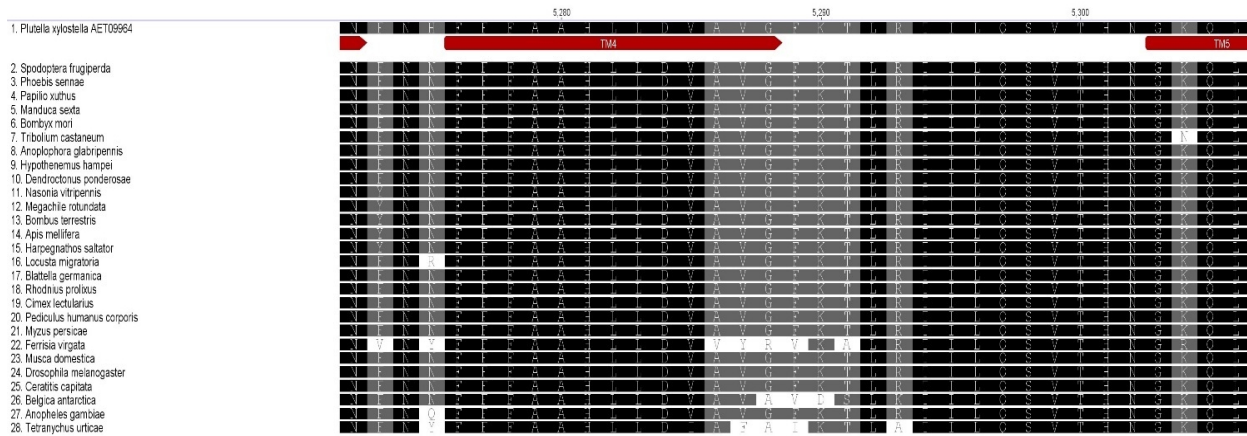
SUP Table 2. *Bombus terrestris* IP₃R Primers

Primer name	Sequence	Start	End
BB IP3R Start f	GAGATCCTCGGCTCCGCG	7	24
BB IP3R Start R	GGCGTTCCTGGTTCCAAAATCAC	547	570
BB IP3R A f	ACATCGTCAGCCTATACGCCG	44	64
BB IP3R A r	ACCTGACGAACGATGATTGTGGG	1,110	1,132
Exon 7 gap F	TGATTTTGGAAACCAGTGAACGCC	548	570
BB IP3R B f	GATCCGACTACATTAACGAGAGGC	1,075	1,098
BB IP3R B r	CGGGCGTATTTAACTGGTGTACAC	2,377	2,399
Exon 13 Gap F	AGAAAAACATATCACGGCAGCGG	1,794	1,816
BB IP3R C f	CGCGCCTCATTTTGTGCGACTTAT	2,317	2,339
BB IP3R C r	ACCGTATGTACTCCGACGTTACG	3,619	3,641
BB IP3R D f	AGCTCCGCCTCAATTGTCTACAT	3,429	3,451
BB IP3R D r	TCTTTGGTTGTTTCGAGCTTGA	4,812	4,834
BB IP3R E f	AGACGTAGCTAAAGGAAGAGGCA	4,704	4,726
BB IP3R E r	ACATGAGCGTTTTCGGATACCAGA	6,093	6,115
BB IP3R F f	AATGTGCGTAATCTTGCTCCGG	5,839	5,861
BB IP3R F r	ACCGGATTCTCGAGGTAAGGTAA	7,094	7,116
BB IP3R G f	TATCTGCTCTTATCTGGGCGGTG	7,046	7,068
BB IP3R G r	CGGATGCAGAATTCAAAAGGCCT	8,322	8,344
Exon 37 gap R	ATAACAAGAGAATCGCATGCCCCG	7,699	7,721
BB IP3R END F	CGGGCATGCGATTCTCTTGTAT	7,699	7,721

SUP Table 3. *Myzus persicae* IP₃R Primers

Primer name	Sequence	Start	End
Mz. IP3 1F	TAAGATGATGATTTCCACCAGGAG	1	19
Mz. IP3 1R	ACAAAGTACACAATGTCTGAAGCAGC	1,881	1,907
Mz. IP3 2F	CAACGATGCATGTAAAGTATTGG	1,791	1,813
Mz. IP3 2R	TCAATAGCGTTTTGGTGTAGTCTGAGC	3,348	3,373
Mz. IP3 3F	AGTTCTACCATAGCATTCTGTTGAGG	3,196	3,220
Mz. IP3 3R	AGACCATCCATACGTCGGTCTCC	4,894	4,916
Mz. IP3 4F	TGTAGGCGTACATACAGTAGTG	4,839	4,860
Mz. IP3 4R	TAATAGTGATAGTTTCACTTGGACC	6,669	6,693
Mz. IP3 5b F	GGAAAACACAATACGCACACTT	6,354	6,375
Mz. IP3 6b R	TAAGCTCGACATGCCACATC	8,869	8,888
Mz. IP3 6F	CCCTGCCATGACAATCAAAATTGT	8,641	8,664
Mz. IP3 6R	AGCCGAAGCCAAAATCTGACCCAGC	10,224	10,248

Mz. IP3 7F	ACATTATTAGTATCATGGGCAATCAGG	10,181	10,207
Mz. IP3 7R	ACTCTACCGCCTCCACCAACGCC	11,311	11,333



SUP Figure 1. G4946 (*P. xylostella* numbering) is conserved in most species except *F. virgata*, *B. antarctica* and *T. urticae*.