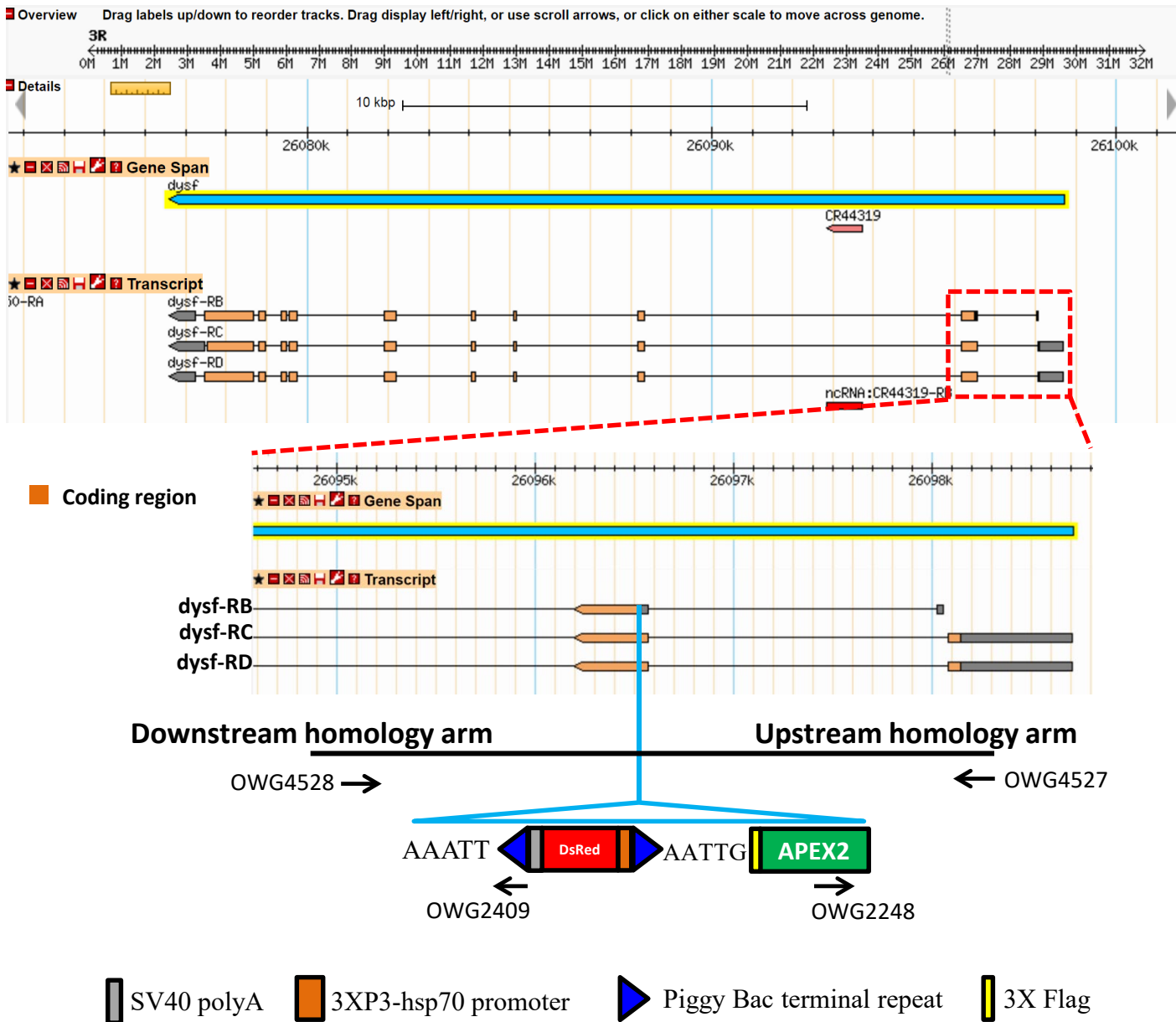


Genomic map of *dysf*^{F^W}



Upstream PCR:

Forward primer (OWG2248) and reverse primer (OWG4527) are complementary to APEX2 and the 3' of upstream homology respectively. Only successful insertion of *APEX2-3XFlag-DsRed* cassette into the target locus can produce a amplicon (1395bps) by PCR.

Downstream PCR:

Forward primer (OWG4528) is at the 5' of downstream homology arm and reverse primer (OWG2409) is at PBac terminal repeat as illustrated above. Only when *APEX2-3XFlag-DsRed* cassette is inserted into the gene locus, a 1488bp-fragment can be amplified.

Primers:

OWG2248 5'- TTATCAAAGGTTCCGGCGCT
 OWG2409 5'- TTTGACTCACGCGGTCGTTA
 OWG4527 5'- CTCCGTCGTCTCTGCTTGTT
 OWG4528 5'- ATTCAGAAGCAACGGCAGC

Result of Genomic Sequencing

Upstream PCR:

Sequences:

>dysf[JW]_upPCR_OWG4527

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ATTCTTCTTGGCGCCATCACAAGTGGCCAGGAAATGGTCCGAGTGTGCTTTCAGTTATAAGAAAAGTGATAGTGACCTT
TTTCTGTTTTAGCCAAAACAATTTGGCCAGGAAAAGTTGGGAGCCAGTTGGGAAAACAAAAGTTGTACAAAAATG
TAGGTCACAGCTCTGAAGAATTATTATAAGACCAACTAAGTTAGGTTGAAATGCTAGTATTGGACTTACATTTAAAGCATT
CAAATTTAATATTAATAGCTTTTATTTCGATAGCTATTTTTTTTTTAAAGTTTATAAAGCTTACCTTGATAATAGTAATCAAGT
AATAAAGTATTACAGTAAATTCAGATTGACACAAATTTGTTTACACAAAGACATTCAGATTTCCCTTTTCAAGAAAACAC
TTACAAGCTTCGGTTCGCTTCTTAGAAAAGCCAAATCATAAATTGATTGATCATTATTTAAGACTTAACGAGTTTCAAATGTG
ATCAACACAGATCGTAGCCCAACGAGTGTTTAGTATTTGTGTTGTAAGACATTTCATTAAACCCTAGTTACTTATCCGCCA
TCGCAGAGCGAAACGCCGAGCAAATGCTATAAATCATTTTTCAACTCCTTATGCAATCGAAGTGCCCAAATAAAAAACAC
GTCAAAGCGCCAATCATTGGAGGGCATTGGGGATACTCCGAGCACAGCGAGCAATTGTTCAAATAGGCAATAACAA
TACAAATCAGTTCCTTCAAATATGCTTTTTGTGCCGACAGACATTCAAACATATCTTGGACTATTTCCAACGTATGAAAA
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CATTCTGCTTTGAATGTAACAATATTTGCACTGCAATCGACGATTGATGGCGGAAAGATACCGACTGATGCCAATCGAGT
CCTGGGAAGGCAAGAAGTCCGAATATTTGCCGAAGCGCGTGGC
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> dysf[JW]_upPCR_OWG2248

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CGCAGCTTCTTCTTGGCCTTCTCCACGGCATCCTGATAGTCGGCACTCACTGTGGGTAAGTCTTTCCGCCCATCATATCG
TCGATCGCACGTTTGCAAATATTTGTTACCAATTCTAAAAGCAGAAATGACAAGGCGTTTTTCAGCACTGAGTCTCGGATT
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GAAATAGTCCAAGATATTGTTTGAATTGTCTGCGGCACAAAAGCATATTTTGAAGGAACTGATTTGTATTGTTATTGCC
TATTTGAACAATTGCTCGCTGTGCTCGGAGTATCCCAATGCCCTCCAATGAGTTGGCGCTTTTGACGTGTTTTTTATTTG
GGCACTTCGATTGCATAAGGAGTTGAAAATGATTTATAGCATTGCTCGGCGTTTTGCTCTGCGATGGCGGATAAGTAA
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CGTTAAGTCTTAAATAATGATCAATCAATTTATGATTTGGCTTTCTAAGAAGCGACCGAAGCTTGTAAGTGTTTTTCTTGAA
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TAGCTTTATACTTAAAAAAAATAGCTTTTGAATAAAGCTATTTATATAAATTTGTATGCTTTAAATGTAGTCATACTAGC
ATTTCACTAGTAGTGGTCTTATAATATCTCAGCTGTGACTACTTTTTGTACACTTTTGTTCCTGCTCCAACCTTCTGCAGT
GTGGCTAACGAAAGTCATATACTCTAACTGAGCCATCGGACATCTGCATTGTGATGCCAGAGATCTTAT
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Result of Genomic Sequencing

Downstream PCR:

Sequences:

>dysf[JW]_dnPCR_OWG4528

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CGAAGCGTGCGAAACAAATTGAAATTAAGTTTGCATGTTTTCGCTGTCTGCGATGCGTGGCTGTGTGAAAATGGAG
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TGCTGGAGTTATGATGCGTATGCATCTGGTGCTGCAAGTGATGTGCTGCTGCTGAGGTGTGCTGCTGTTTGCCTGCTGC
AATGCAGACATGCTGCAATGCTGCTGCTGCTGTTGGGATGTGCTGCTGCTGCTGCTGCTGAGCTTGTGCGGGTGTGCTG
GTCACCTGGCTAGGCCACGTTATTATCCGCCATCATTACCTAGAAAGAATA
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