

<b>Pool Name</b>	<b>Strains</b>	<b>Geographical origin</b>	<b>Reference</b>
Wi	wi1, wi3, wi15, wi18,wi41.5, wi45, wi68,wi77,wi83,wi98	Wolfskill Orchard, Davis, CA	Sergey Nuzhdin
We1	we4, we10, we11, we25, we44, we47, we50, we60, we67, we80	Raleigh, NC	Greg Gibson
We2	we13, we17, we28, we33, we37, we63, we70, we75, we88, we91	Raleigh, NC	Greg Gibson
NB	NB1, NB6, NB7, NB8, NB12, NB13, NB14, NB16	New Buffalo, MI	Bettina Harr
CSW	3B, 6D, 11D, 20C, 23D, 25C, 29B, 36D	Countryside Winery, Blountville, TN	Lev Yampolsky
Zmel	zmel58, zmel81, zmel125, zmel131, zmel145, zmel159, zmel178, zmel191, zmel196	Zimbabwe	Charles Aquadro
ZW	ZW104, ZW109, ZW122, ZW140, ZW141, ZW142, ZW144, ZW149, ZW155, ZW156, ZW177, ZW183	Zimbabwe	Peter Andolfatto
KY	KY01, KY10, KY12, KY16, KY20, KY23, KY24, KY38, KY42, KY91, KY106	Kenya	Peter Andolfatto
MW	MW7, MW8, MW11, MW12, MW14, MW15, MW27, MW28, MW35, MW56, MW60	Malawi	–

Table S1: Summary of strains used.

Flybase ID	Primer	Sequence (5' → 3')	Primer	Sequence (5' → 3')	Primer	Sequence (5' → 3')
Fbit0018877	18877_FL	AACGTCGATTTTCGATTGACT	18877_R	AGGATGGTGGCTTTGGTACTT	18877_L	TCCTCACATGATTAGTGAGAGGTTTG
Fbit0018878	18878_FL	TACTGTTTGCCTGCCGTTTTGTA	18878_R	ATAAGGAACCCCAACAACA	18878_L	TCCTCACATGATTAGTGAGAGGTTTG
Fbit0018879	18879_FL	ACAGCCGAAACTGAGAGAAAGAG	18879_R	AATACTTTTGTGCAGAAAAGGAAAA	18879_L	GTCCTCACATGATTAGTGAGAGGTTTG
Fbit0019079	19079_FL	GGTGCAAAAGAAAGGGCTAAAGAA	19079_R	ATGCGAAATTTTATTGAACGGCT	19079_L	GGAATACAGATCTGGGGTATCGC
Fbit0019133	19133_FL	ACGTTTAACTGGGGCTTAAGAA	19133_R	TTTTTCACTGCCAATTGGTACTC	19133_L	TCCTCACATGATTAGTGAGAGGTTTG
Fbit0019158	19158_FL	GAAATGGGTGCAACTTTTGATG	19158_R	AAAGATTAGCAGTGAATCGGCTC	19158_L	TCCTCACATGATTAGTGAGAGGTTTG
Fbit0019165	19165_FL	ACACCAATTAAGCCGTCAGGTTT	19165_R	TGATTTAAACGCCAACAACCC	19165_L	GGAATACAGATCTGGGGTATCGC
Fbit0019312	19312_FL	ATTTGACACACTGTGTCTGTTGC	19312_R	TCGACTCCCAATTACAGTTAGCG	19312_L	TCCTCACATGATTAGTGAGAGGTTTG
Fbit0019315	19315_FL	GTCGGTTTTGCTGTCCAACTATG	19315_R	GTCCCTAAAAGTGGGAGTGACG	19315_L	TCCTCACATGATTAGTGAGAGGTTTG
Fbit0019378	19378_FL	AGAAACAAGTGTCCAAAAGCAGT	19378_R	CGCAGATTTTAAATGTACTTGCCCTC	19378_L	TCCTCACATGATTAGTGAGAGGTTTG
Fbit0019388	19388_FL	TGTCATTTCAATAATTTGGCCCAAG	19388_R	ATTTGGCACTCCTGAAATTTGTT	19388_L	CACCTGGACAACCCATAAGACCC
Fbit0019410	19410_FL	AGCAATCCATCGAATACGAAAAA	19410_R	CCAAACCCAGACTAGTCAGCAATGG	19410_L	GGAATACAGATCTGGGGTATCGC
Fbit0019426	19426_FL	AAAAGTCGGACCTATGAGGCAACT	19426_R	AAAAATAAGACAAAGTGACACGCGG	19426_L	TCCTCACATGATTAGTGAGAGGTTTG
Fbit0019604	19604_FL	GAGCCATCATGTACACACACAAG	19604_R	AAACAGGAACCAACAAGGAAGC	19604_L	GATTA AAAAGGAGGTTTCCGC
Fbit0020056	20056_FL	GATTAGCATCACACTGGATTCCG	20056_R	GGGAGCTGCCATCCTATTTTCTA	20056_L	TCAAAGGATGCAACAACCTCGAT
Fbit0020057	20057_FL	ATTTCTGTGCAAGAGGTTGTGTG	20057_R	CCCATATCACATTTAGCTGATCTTTC	20057_L	TCCTCACATGATTAGTGAGAGGTTTG
Fbit0020125	20125_FL	GGGCACAGCATGGAGAAATAATA	20125_R	GGAACTTACCCACACACTTGCAG	20125_L	GGAATACAGATCTGGGGTATCGC
Fbit0020149	20149_FL	TCGCCCTCCATTAACITTTGATTT	20149_R	GAAAAGGTTTCGTTAGCAATGTG	20149_L	GGAATACAGATCTGGGGTATCGC

Table S2: Summary of primers used in this study. The primer label '\*\_FL' corresponds to a 'Flanking' primer, 5' of the insertion (see also **Materials and Methods**); the label '\*\_L' corresponds to a 'Left' primer found in the interior of the insertion; the label '\*\*\_R' corresponds to a 'Right' primer found 3' of the insertion.