

**Table S4 False Positive Gene Conversion Primers**

Progeny	SNP	Left Primer	Right Primer
3b	164,089	ttggatccactttcaggagaa	ctaagagcgcaatcaaacc
2b	237,888	cgagaagccgtaaaaagcac	tgactgggacgcactaata
1b	268,501	ttgcgataaaagcacactgc	gcctgtcatgaacgcagtc
2e	268,501	cgacgcaaagggagaataag	ctaccatcgaggggatgaaa
1f	1,200,997	gcatttcgtggagaaagctc	cgggtactcgactatgttga
3e	3,762,602	tttgcactgatttgcgttg	gggggtgccactaattcagc
1e	5,189,307	tcataattcagcactcaaagtgga	caattggcctaagggtattca
3e	6,876,237	agcgaaacagctggctatga	tggcaatcaaagagaatctgg
3e	7,647,353	acgttgcggtcagtttaagg	atccattggccgactttagc
2h	8,250,117	caatgtttgctgcccaatta	aaaaagccactcacgaggaa
3g	8,250,117	caataattggaattagaatga	tccttaaaaagccactcacg
3h	8,804,104	tgagcactcgaataatgaaatg	cagaaaacaattggcctaaaa
3g	8,804,104	tgagcactcgaataatgaaatg	cagaaaacaattggcctaaaa
3b	8,874,618	gccaaaaattcgacacttacg	tggaaataaataactaaatggcct
3f	8,911,293	ctgagctttaataagctttacata	acccaaatagcttgctttgc
4b	8,911,293	ctgagctttaataagctttacata	acccaaatagcttgctttgc
1c	9,215,074	cgcaactgaccacatattc	gtggtgagtcctccatacag
3g	12,247,068	cgggcaatgtcaactgtctat	tgcacacagttacgacct
2b	12,707,830	tttttgaacataaccattcacia	tctgtgtgtgagtgccgagt
1e	17,689,327	gggacacgattttatcagca	ctgctcgaatgtgcgtttta
1d	18,999,675	gcactgcgggaacaataag	agcaatgagtgcttggcttc
2g	19,306,566	aagctaatagatgtgctgtgcaa	aaggcaacttagccctggtt
2d	20,586,835	cctgcagcctttgaaggta	tcgttttgctttcagcactt

Primers used to check candidate gene conversions which turned out to be false positives based on the WGS data. One PCR reaction was done for each segment. Validations were repeated at least in triplicate.