

	GAAGCTCTGGCTCACCCGATGCGCGCGCGCGCAACCTCTGTCGTCTCGTCTCGTCTCGGCGTCATGCTGCTCGCGCGGGGCTCGCGGGCCATGAGCGC	1971
	CGACCTCTGGCTCACCCGATGCGCGCGCGCGCAACCTCTGTCGTCTCGTCTCGTCTCGGCGTCATGCTGCTCGCGCGGGGCTCGCGGGCCATGAGCGC	1993
1	CTCTCTCGCTCTCGCGCGGCTCTCCGGGGCAGGGAGCGCGCTCCGAGGATCGGCTGCTCGGCTCCGCTCCGCTCGCGCGGGCGGCTGGCGGGGAGGCTGAGGAG	2071
	CTCTCTCGCTCTCGCGCGGCTCTCCGGGGCAGGGAGCGCGCTCCGAGGATCGGCTGCTCGGCTCCGCTCGCGCGGGCGGCTGGCGGGGAGGCTGAGGAG	2093
	GGCGGGGTGGCAGATGAOCTACGGCTTCCTGCCGCTGCAAGCAGAGCGCGGGGGGGAACCTCTTCCTCGGCTCGGCTACGGCTTCCTCATGTTCAAGTCGCG	2171
	GGCGGGGTGGCAGATGAOCTACGGCTTCCTGCCGCTGCAAGCAGAGCGCGGGGGGGAACCTCTTCCTCGGCTCGGCTACGGCTTCCTCATGTTCAAGTCGCG	2193
	CAACCTACTCTTCGCGCGAGCGAGCTGCTGCTCGAGATCTCTCGGCGGGGATGCTCGCGCGGCTCTTCCTCCCATCTTCGCGCGGCTGCGCAGACGCG	2271
	CAACCTACTCTTCGCGCGAGCGAGCTGCTGCTCGAGATCTCTCGGCGGGGATGCTCGCGCGGCTCTTCCTCCCATCTTCGCGCGGCTGCGCAGACGCG	2293
	CTCTCTAACTCTCGTTTTCGCGCTCTCTGCGCACTAAGGAGTTGCTCAAATCAGGTTTGTATCGGAATGGGCTCTGTCGGCGGATCGACGATCATGCTT	2371
	CTCTCTAACTCTCGTTTTCGCGCTCTCTGCGCACTAAGGAGTTGCTCAAATCAGGTTTGTATCGGAATGGGCTCTGTCGGCGGATCGACGATCATGCTT	2393
	TTGACCATACTTTGGGGATCTTGTGTTATTGTCGGTAAATGTGATCTGTCAGAGAATTCACATACAGTTGATTCACAGATACCAAAGCCTTCAGTCTTT	2471
	TTGACCATACTTTGGGGATCTTGTGTTATTGTCGGTAAATGTGATCTGTCAGAGAATTCACATACAGTTGATTCACAGATACCAAAGCCTTCAGTCTTT	2493
	TGGGCTCTGGTTTCAACTGATTTCGACAGCAGCTATGCAAGAGAATCATGGCAATATCTGTTCCGCTTTATTGTTGTCAGATACCAAAATTC	2571
	TGGGCTCTGGTTTCAACTGATTTCGACAGCAGCTATGCAAGAGAATCATGGCAATATCTGTTCCGCTTTATTGTTGTCAGATACCAAAATTC	2593
	GAAGCTCCAACTCTGCTCATGCTTAATCTACTGCTTGGGCTTATAGTTGCASTGCTACTTCTGCTTAAGTTATTGCTATACAGATCTTTACGACATGG	2671
	GAAGCTCCAACTCTGCTCATGCTTAATCTACTGCTTGGGCTTATAGTTGCASTGCTACTTCTGCTTAAGTTATTGCTATACAGATCTTTACGACATGG	2693
	ATCCAGAGGAGAAATTAGAATATTCAAGACTGAAGCATGTAATGCTGGGCTCTGAAACATGCTCAATGCATACTTTTGGTCACTTATTGATGATG	2771
	ATCCAGAGGAGAAATTAGAATATTCAAGACTGAAGCATGTAATGCTGGGCTCTGAAACATGCTCAATGCATACTTTTGGTCACTTATTGATGATG	2793
	ATGGCACACAAATGTTTCTGTCATAGAGAATATTCTCAAAATGATCTGGACATGATGGAATGATAGGGGCTGGTGAATACAAAGCTTCATTG	2871
	ATGGCACACAAATGTTTCTGTCATAGAGAATATTCTCAAAATGATCTGGACATGATGGAATGATAGGGGCTGGTGAATACAAAGCTTCATTG	2893
	TGGTGTGAATTTTGAAGATATTGAGTTGGATAGTAACCTAGCTGCGACCAAGTCATGGCTGACTTTGATAGGCTCTCGGAATAGTTCATTTGAAAGGGA	2971
	TGGTGTGAATTTTGAAGATATTGAGTTGGATAGTAACCTAGCTGCGACCAAGTCATGGCTGACTTTGATAGGCTCTCGGAATAGTTCATTTGAAAGGGA	2993
	GAATTCTGTTATGGGCTCCTTAGATGCGTGGAAAGAGCTAAGCGCTGTTGTCGTGTTTCTGGTGGCTACTCAAAAAGTTTATGATGATATTTCACATTA	3071
	GAATTCTGTTATGGGCTCCTTAGATGCGTGGAAAGAGCTAAGCGCTGTTGTCGTGTTTCTGGTGGCTACTCAAAAAGTTTATGATGATATTTCACATTA	3093
	CAACAGGGGGAAGAGCAATATGCACTGCTTGACAAGCATGAAGAGGATGATGAATCTATTGAAAATCAAACCTGGACATGCTTCAAGGCTATTTCACATTT	3171
	CAACAGGGGGAAGAGCAATATGCACTGCTTGACAAGCATGAAGAGGATGATGAATCTATTGAAAATCAAACCTGGACATGCTTCAAGGCTATTTCACATTT	3193
	GCTCTCTGGAACTCAATGGCAGCTGCATTGCGACAGCCACTTGTGATGCTGCGACAACTTTTCAAGTGCTACAGTATACGGCTCTTTTTCATTTCG	3271
	GCTCTCTGGAACTCAATGGCAGCTGCATTGCGACAGCCACTTGTGATGCTGCGACAACTTTTCAAGTGCTACAGTATACGGCTCTTTTTCATTTCG	3293
	TTCAATTGCGATGCCCTTGTGCTACCAATTCCGATGAGGCTGTCTCAGCAATTATCTTTGCGAGCGGAAAGAGCAACGCACTCTGTGCTGACATTTCTAG	3371
	TTCAATTGCGATGCCCTTGTGCTACCAATTCCGATGAGGCTGTCTCAGCAATTATCTTTGCGAGCGGAAAGAGCAACGCACTCTGTGCTGACATTTCTAG	3393
	AGGTGTACGGTGGAGTGACCATGAACACACGCTCTGCGTGGCGTGTCTCGGCTCTGCTCTGCTCATACAGGGGCTTAACTTGGGACTTCTCATCGGAGGT	3471
	AGGTGTACGGTGGAGTGACCATGAACACACGCTCTGCGTGGCGTGTCTCGGCTCTGCTCTGCTCATACAGGGGCTTAACTTGGGACTTCTCATCGGAGGT	3493
	CTCGCTCACTCTCCGCTCTGCTGTCATTAAGGGACCTTCAACAGCTCTCGGACCATGTTGCCCTCTGGACGTGCTTCGTCGCATTCCTCTGTACCGC	3571
	CTCGCTCACTCTCCGCTCTGCTGTCATTAAGGGACCTTCAACAGCTCTCGGACCATGTTGCCCTCTGGACGTGCTTCGTCGCATTCCTCTGTACCGC	3593
	CTGCTGCTGATCTGGTTTACATCTCTGACTCAAGTTTGGCTGGTCTGA	3622
	CTGCTGCTGATCTGGTTTACATCTCTGACTCAAGTTTGGCTGGTCTGA	3644

Fig. S5 The promoter and CDS sequence of *HvNCX* in Franklin and TAM407227