

		*	100	*	
AhTGA11-FH18	:	ATGCCAGAGGCAAGCAGAGTTGATTCTTTTGTGTTGTCCGACTTTGATCAATCAATTGGAAATCACTTGGAGAATGCTGTGCAATTGAGTGGAAATCCTGTAAATAACTCACTGAAAGTAAGTAGCCAGACGATTTCCTGGTCTCTGTT			: 150
AhTGA11-Tifrunner	:	ATGCCAGAGGCAAGCAGAGTTGATTCTTTTGTGTTGTCCGACTTTGATCAATCAATTGGAAATCACTTGGAGAATGCTGTGCAATTGAGTGGAAATCCTGTAAATAACTCACTGAAAGTAAGTAGCCAGACGATTTCCTGGTCTCTGTT			: 150
			200	*	300
AhTGA11-FH18	:	CACCTTGGCACTTCTGATAGGTTGCCAATTTTCAGTTGATAGAAGCTCATTATGTACCTAGAAGACCGGACTGAGTTTGCTGGCAGAAAAGGTACAATCAACAAATCACATTATAATACCAAGTGGTGATACAGAAAACAGGAAGGGTCT			: 300
AhTGA11-Tifrunner	:	CACCTTGGCACTTCTGATAGGTTGCCAATTTTCAGTTGATAGAAGCTCATTATGTACCTAGAAGACCGGACTGAGTTTGCTGGCAGAAAAGGTACAATCAACAAATCACATTATAATACCAAGTGGTGATACAGAAAACAGGAAGGGTCT			: 300
			400	*	
AhTGA11-FH18	:	GCCATGGCTGATGCCAGTCCTAGAAGTATTTCTACAGATGCCGATACTGATGATAAGAATCAGCGGTTTGATGGAAGTCAATCCCTTGCTGCAAGTGGCTTCAGACTCAAGTGACAGATCAAAAGGATAAAACAGATCAGAAGACTCTC			: 450
AhTGA11-Tifrunner	:	GCCATGGCTGATGCCAGTCCTAGAAGTATTTCTACAGATGCCGATACTGATGATAAGAATCAGCGGTTTGATGGAAGTCAATCCCTTGCTGCAAGTGGCTTCAGACTCAAGTGACAGATCAAAAGGATAAAACAGATCAGAAGACTCTC			: 450
			500	*	600
AhTGA11-FH18	:	CGCAGGCTTGCTCAGAATCGTGAGGCTGCAAGGAAAAGCCGATTGCGAAAAGAAAGTAGGATTTATCCCTTGAAGTTCCCTCCAGGGTAGCAGGTCTGGCTATGGTAACTCTTCATTGCTTAGTAGTGGACGAATGCAGAATCCAGCTTAT			: 600
AhTGA11-Tifrunner	:	CGCAGGCTTGCTCAGAATCGTGAGGCTGCAAGGAAAAGCCGATTGCGAAAAGAAAGTAGGATTTATCCCTTGAAGTTCCCTCCAGGGTAGCAGGTCTGGCTATGGTAACTCTTCATTGCTTAGTAGTGGACGAATGCAGAATCCAGCTTAT			: 600
			700	*	
AhTGA11-FH18	:	GTTCAACAATTTGGAAAGTAGTCGTTTGAAGTTGACGCAATTGGAGCAAGAGCTTCAGCGAGCCAGGCAGCAGGGAATCTTCATATCAAGTTCAGGTGATCAAGCACATTCAATGAGCGGCAATGGGGCCATGCAATTCGATGTCGAATAT			: 750
AhTGA11-Tifrunner	:	GTTCAACAATTTGGAAAGTAGTCGTTTGAAGTTGACGCAATTGGAGCAAGAGCTTCAGCGAGCCAGGCAGCAGGGAATCTTCATATCAAGTTCAGGTGATCAAGCACATTCAATGAGCGGCAATGGGGCCATGCAATTCGATGTCGAATAT			: 750
			800	*	900
AhTGA11-FH18	:	GCAAGGTGGCTGGAAGAGCAGAATCGACAAATTAATGAGCTTAGAGCTGCTGTAAATTCTCATGCAAGTGATACAGAACTTCGAATGATTATTGATGGTATATTGGCGCATTATGATGACATATTTCCGCTGAAGGGCGTTGCAGCTAAG			: 900
AhTGA11-Tifrunner	:	GCAAGGTGGCTGGAAGAGCAGAATCGACAAATTAATGAGCTTAGAGCTGCTGTAAATTCTCATGCAAGTGATACAGAACTTCGAATGATTATTGATGGTATATTGGCGCATTATGATGACATATTTCCGCTGAAGGGCGTTGCAGCTAAG			: 900
			1000	*	
AhTGA11-FH18	:	GCTGATGTCCTCCACCTGTTGTCTGGCATGTGGAAAACCCAGCTGAGAGGTGTTTTCTGTGGCTCGGTGGCTTTTCGGTCATCTGAAGTCTCTTAAGCTCCTGGTAAATCAGTTGGAGCCTCTCACTGAGCAGCAGTTGGTGGGTATTACC			: 1050
AhTGA11-Tifrunner	:	GCTGATGTCCTCCACCTGTTGTCTGGCATGTGGAAAACCCAGCTGAGAGGTGTTTTCTGTGGCTCGGTGGCTTTTCGGTCATCTGAAGTCTCTTAAGCTCCTGGTAAATCAGTTGGAGCCTCTCACTGAGCAGCAGTTGGTGGGTATTACC			: 1050
			1100	*	1200
AhTGA11-FH18	:	AACTTACAACAGTCTTCTCAACAGGCAGAGGATGCATTGTCTCAGGGCATGGAAGCACTGCAACAATCTCTTGCAGAGACTTTGTCTCTGGATCACTTGGCTCATCCGGTTCATCAGGGAATGTCCGAAATTACATGGGTCAAATGGCC			: 1200
AhTGA11-Tifrunner	:	AACTTACAACAGTCTTCTCAACAGGCAGAGGATGCATTGTCTCAGGGCATGGAAGCACTGCAACAATCTCTTGCAGAGACTTTGTCTCTGGATCACTTGGCTCATCCGGTTCATCAGGGAATGTCCGAAATTACATGGGTCAAATGGCC			: 1200
			1300	*	
AhTGA11-FH18	:	ATGGCCATGGGTAAGCTAGGGACACTCGAGGGGTTTATTCCGGCAGGCTGACAATTTGCGCCAGCAGACATTGCAACAAATGCACCGCATATTGACTACTCGCCAATCGGGCTCGTGCCTCCTTGCATACACGACTATTTTTCAAGGCTG			: 1350
AhTGA11-Tifrunner	:	ATGGCCATGGGTAAGCTAGGGACACTCGAGGGGTTTATTCCGGCAGGCTGACAATTTGCGCCAGCAGACATTGCAACAAATGCACCGCATATTGACTACTCGCCAATCGGGCTCGTGCCTCCTTGCATACACGACTATTTTTCAAGGCTG			: 1350
AhTGA11-FH18	:	CGCGCTCTTAGTTCCCTCTGGCTCGCCCGCCCCAAGAGATTAA	:	1392	
AhTGA11-Tifrunner	:	CGCGCTCTTAGTTCCCTCTGGCTCGCCCGCCCCAAGAGATTAA	:	1392	
		CGCGCTCTTAGTTCCCTCTGGCTCGCCCGCCCCAAGAGATTAA			

Figure S5 The coding region gene sequence of the orthologous gene *AhTGAl1*-Tifrunner (reference genome) was aligned with the alleles of *AhTGAl1*-FH18.