

Appendix 1. Primers used to amplify the exons of *FBN1*.

Primer name	Sequence	Melting temperature(°C)	Product size (bp)
FBN1_E1_F	gcggacgatactgaagagg	59.84	264
FBN1_E1_R	aaacgcaaaagcctccgt	60.78	
FBN1_E2_F	ccgatgccctgaaagtctc	60.75	442
FBN1_E2_R	ttgaaactgggagaccac	59.94	
FBN1_E3_F	ttggccatctctctcttc	59.36	204
FBN1_E3_R	catgcaaccaacacaacaaa	59.02	
FBN1_E4_F	gtgttccaaatccatgtgct	58.42	233
FBN1_E4_R	caggaaagaggaaagccaaa	59.42	
FBN1_E5_F	tgcatttaagttgcaaaagtga	59.82	230
FBN1_E5_R	tcgaagaaaatccatcagca	59.35	
FBN1_E6_F	gtccttcagaggaccacaa	60.09	228
FBN1_E6_R	cagcttaggtaccagcatgct	58.93	
FBN1_E7_F	gcatgatggttctgcttt	60.08	328
FBN1_E7_R	tcaactcattggagaatggc	60.07	
FBN1_E8_F	tcacattttattctgcaatgaatt	59.01	256
FBN1_E8_R	aatgttgagtttgctgcc	60.12	
FBN1_E9_F	tgagtccttctactgacgaatgg	60.67	246
FBN1_E9_R	tggaactgacttacacaaacca	58.19	
FBN1_E10_F	ctcagcgatgtgtgtgtg	59.93	245
FBN1_E10_R	agggctgggatggatatt	60.5	
FBN1_E11_F	tgacttctgtggcctatga	59.24	302
FBN1_E11_R	tgtaactgaacaatgcaagaaa	58.89	
FBN1_E12_F	tcaacatctgttcattattgtcaga	59.94	270
FBN1_E12_R	tacaacagacccttgggtgcc	60.95	
FBN1_E13_F	aaaaggaaccagaaagtcttagaa	60.05	256
FBN1_E13_R	gaagccaacccccagttag	59.54	
FBN1_E14_F	atgagtttgcaaatggaggg	59.93	258
FBN1_E14_R	actgcaatggaaggagagga	59.8	
FBN1_E15_F	tccagattggttcctctgt	59.53	238
FBN1_E15_R	ggagaaaaggcacgtgaaga	60.38	
FBN1_E16_F	tcttccccatttcaagggt	60.66	262
FBN1_E16_R	ggctgaacctctctcataagg	58.01	
FBN1_E17_F	gggggttctcatctgtttga	59.9	270
FBN1_E17_R	aaagacctcaatggtggcag	60.11	
FBN1_E18_F	accaagggcaggatctacct	59.96	188
FBN1_E18_R	accacaagaaagcctgatg	60.11	
FBN1_E19_F	cctctgtagctcctaaggtca	59.9	348
FBN1_E19_R	aagtgtccatttggcccagtc	59.97	
FBN1_E20_F	gatacaggcaaaagttgggc	59.57	234
FBN1_E20_R	tggcattccaaaagatagca	59.26	
FBN1_E21_F	ggccaagactagattttagca	59.76	243

FBN1_E21_R	ttttgcaggaaaagctgaca	59.58	
FBN1_E22_F	ttccaaggtgtatgttgaatttt	60.03	265
FBN1_E22_R	ggcttccccttttatgcaa	61.26	
FBN1_E23_F	tgtcagaactgcaaagtctgg	59.07	189
FBN1_E23_R	tccgagttaacacaaacattca	58.2	
FBN1_E24_F	taccaggtcaaaatgggga	60.16	359
FBN1_E24_R	ccctatcggacatgctgaat	59.92	
FBN1_E25_F	gaagccgtgtggctctattt	59.34	349
FBN1_E25_R	agtgctgagatcatgaaaatgc	59.34	
FBN1_E26_F	gacctcctgactgcttctc	60.14	228
FBN1_E26_R	taaaggacgtcccctctcct	60.07	
FBN1_E27_F	tctgagactcatttctctgc	59.12	259
FBN1_E27_R	agcaggaagaacctggaaca	59.84	
FBN1_E28_F	gtctggaggagatgagg	59.64	250
FBN1_E28_R	ccaacttggcaatgatgctc	58.98	
FBN1_E29_F	ttggaagcttatgttgggtg	59.98	340
FBN1_E29_R	ttgcagggaaacaagaaaga	58.47	
FBN1_E30_F	gggacagacatcaaaccat	59.64	248
FBN1_E30_R	aaagcctgggcctaacta	60.09	
FBN1_E31_F	accaatatcaacaacctgtgg	57.31	265
FBN1_E31_R	ggaatctttctactgacca	59.47	
FBN1_E32_F	tcgaggggaaagtactcaatg	59.18	351
FBN1_E32_R	caaatttcaaagaagtgggaagc	58.05	
FBN1_E33_F	catttctgctgagccttttc	59.87	208
FBN1_E33_R	tgcagtccttgataagcaacc	60.26	
FBN1_E34_F	ggttttaataaccacctttctg	58.08	230
FBN1_E34_R	gaatgcctggcttctctgac	59.96	
FBN1_E35_F	tagaaagcccctaaccgagg	60.56	224
FBN1_E35_R	atctcatcaagcccagcaag	60.36	
FBN1_E36_F	gcctaattatattggcaggtttt	60.02	237
FBN1_E36_R	acaccagggagctgattttg	60.11	
FBN1_E37_F	tgatgtctgcctacactggc	59.86	252
FBN1_E37_R	tggaatgttggctgctgttt	59.02	
FBN1_E38_F	ccccagtagaaagattctgcc	60.08	268
FBN1_E38_R	ggagaactggctggagtga	60.39	
FBN1_E39_F	tggatatgtgagtatttctctgagg	59.93	430
FBN1_E39_R	gcaggtcagttcttgatatctgc	60.28	
FBN1_E40_F	ggccattccaaaatgtgaag	60.31	253
FBN1_E40_R	tgaactgtgagctctctctc	60.18	
FBN1_E41_F	atcacaacctccaatcct	60.57	277
FBN1_E41_R	cgctaagactgatttcccca	60.21	
FBN1_E42_F	ctgaccctatcctcccac	60.67	169
FBN1_E42_R	tgtaacacaaaggcaaaaa	57.12	
FBN1_E43_F	cacagggatcatgtgctgctc	60.12	265
FBN1_E43_R	tcaatgttgaaattcgcc	59.52	
FBN1_E44_F	ggctttgtgactggacacc	60.55	229

FBN1_E44_R	caaacctcttggttagcatgt	59.11	
FBN1_E45_F	agctaggattactcctgagaatga	57.79	265
FBN1_E45_R	gctttcaacagcatatgaaaa	57.18	
FBN1_E46_F	ggcctggtgaaccctaaat	60.19	256
FBN1_E46_R	aaaactgacttcctttgctgatg	59.81	
FBN1_E47_F	tgctgggattatgacatctttg	59.96	228
FBN1_E47_R	tggagcattctttccaggt	59.67	
FBN1_E48_F	ttgatggaagtcatgccag	59.65	221
FBN1_E48_R	gacacccgacactcctcatt	59.97	
FBN1_E49_F	ccctttgtgtgtccacattg	59.85	253
FBN1_E49_R	acatgcagcattgaaagcc	59.82	
FBN1_E50_F	ttgctatggtgcaatacggga	60.1	276
FBN1_E50_R	ttacatcatggccagtctgc	59.68	
FBN1_E51_F	cctcaaaatactgtggagaagc	59.32	184
FBN1_E51_R	ttgagaatactgagaaatgctgaga	59.57	
FBN1_E52_F	ttttgtcccttcatttagatagc	58.01	352
FBN1_E52_R	tgccatcttggtacatatattcat	58.84	
FBN1_E53_F	aaggtattatctcaattcatcatgttt	57.73	232
FBN1_E53_R	caaccaattgttcccaggat	59.65	
FBN1_E54_F	ggttccctttgtgtctgtc	59.57	254
FBN1_E54_R	agggaagctttgaggacat	60.07	
FBN1_E55_F	ggcagatatatgcattttctttga	59.53	255
FBN1_E55_R	agagcccaggttccttctgt	60.25	
FBN1_E56_F	ggaaggaacgaaggaaggag	60.18	253
FBN1_E56_R	tggaggctgaggtaggaaa	59.81	
FBN1_E57_F	ggccaatgtctttctgccta	60.21	201
FBN1_E57_R	gcaaaggggatgtcaggaa	61	
FBN1_E58_F	atttctgacatcccctttg	58.84	343
FBN1_E58_R	ggcacatattgcaaacctcca	59.55	
FBN1_E59_F	cactgaagtgaccccctaca	58.56	244
FBN1_E59_R	aaatttccactgaggataagcc	59.87	
FBN1_E60_F	agaccctgtggaaattgagc	59.14	245
FBN1_E60_R	cagccatgtgtcaggagcta	60.01	
FBN1_E61_F	tgttggcttgactcaaatgc	59.85	244
FBN1_E61_R	tcttatccaacagcagagga	59.82	
FBN1_E62_F	ttggggaatttaaccctc	59.99	222
FBN1_E62_R	cacctccacaaggattcacc	60.36	
FBN1_E63_F	atggtgagttggcatcatgg	59.37	227
FBN1_E63_R	gcaagcagtgtttgcttca	60.18	
FBN1_E64_F	aagtggccagatccaatgtc	59.93	352
FBN1_E64_R	cgaatgaaagaatctccaacc	58.63	
FBN1_E65_F	ccacctacctgtcttccca	59.96	308
FBN1_E65_R	cttggaggaaaccacaggaa	60.08	
FBN1_E66_F	gtggcatatgtacattgtatttaaca	59.86	477
FBN1_E66_R	tcacctgtacctgtctttgg	59.06	