

Panel	Chr	ChrLength(Mb)	Marker	ChrLoc(Mb)	Predicted Length	B6 Length	C3H Length	Forward Primer	Reverse Primer	Vendor	Color	Row	Column
A1	1	197	d1mit242	4.19	84	83.82	147	TGTC AATCAGTAAGGCACAAGG	CATGTGATTTGTTTATTC AATCACC	Sigma	6fam	E	1
A1	1		D1Mit169.1	24.07	220	218	221	CIDR	CIDR	ABI-Cidr	ned	D	1
A1	1		d1mit243	35.13	145	146	132.72	CCAGGGCAATTGGATACAAT	GTTGTGCCAAAATGGAGGAC	ABI	ned	A	2
A1	1		d1mit161	59.28	112	112.97	115.08	ACCAGCCCTCCTTTTTTGT	CITGGCTCTTCAGGCACCT	Sigma	6fam	C	1
A1	1		D1Mit380.1	72.98	117	115.71	148.52	CIDR	CIDR	ABI-Cidr	vic	B	2
A1	1		d1mit10	92.58	139	135.1	141.45	AAACCATGCAGGTACTGATATGG	GAAGAAATTAAGTGAAGCAAGGC	Sigma	6fam	A	1
E1	1		d1mit136	103.89	103	105	111	TAGCCCTACACACTGTAGAAATGC	TGAACACAAAAGTAGTAAATGCGTG	ABI	ned	H	9
A1	1		D1Mit495.1	129.52	144	145.56	139.48	CIDR	CIDR	ABI-Cidr	ned	H	1
A1	1		D1Mit159.1	161.59	206	206.6	187.54	CIDR	CIDR	ABI-Cidr	vic	B	1
C1	1		d1mit115	179.61	147	151.24	146.99	AAGGGAATGGAATTAGGGTCA	TAACGGACACCCATTTTAAACA	ABI	ned	E	5
A1	1		D1Mit292.1	193.23	212	210.33	208.26	CIDR	CIDR	ABI-Cidr	6fam	G	1
C1	2	182	d2mit1	3.8	123	130.73	126.49	CTTTTTCGTATGTGGTGGG	AACATTGGGCCTCTATGCAC	ABI	ned	F	5
A1	2		d2mit365	27.66	100	108.2	112.37	GAGATCCCCTGATGATACAAGC	AGATGTGCCCAAGGTCC	ABI	vic	F	2
B1	2		d2mit237	40.85	123	126.6	112.04	TTCCAAGTACCTATTATCAAAAGG	TTGATACGGACACCAGCAAA	ABI	ned	H	4
A1	2		d2mit242	57.2	136	138	142	TTCCACACTCATGCCTATATGC	AAATGAACCTCTCAGGATCATATACC	ABI	6fam	E	2
A1	2		d2mit75	80.42	113	114.46	108.75	TCAGCATGTGGATGAATACACA	AACTTTTTAAAACTACGAGCGTG	ABI	6fam	G	2
B1	2		d2mit100	106.38	112	114	129	GTGTTCTAAGGTTGTATTTTGGC	GAAATTTGACAATTGCTAGGTGC	ABI	6fam	C	3
C1	2		d2mit277	123.26	277	279	126.24?	ATTCTGCATTCAAGCAAATCA	CTTGAAAGTAGTTGGTTGGTTGG	ABI	vic	G	5
C1	2		D2Mit285.1	152.68	151	151.57	162.13	CIDR	CIDR	ABI-Cidr	ned	A	5
B1	2		D2Mit148.1	178.54	116	115.15	118.7	CIDR	CIDR	ABI-Cidr	6fam	G	4
D1	3	160	d3mit221	7.89	146	146.39	158.59	ATATAAGGCATATAACAGGCATTCT	AAAATGTAGATCCCTTCATACATGC	Sigma	6fam	C	7
B1	3		D3Mit203.1	26.84	263	261	247	CIDR	CIDR	ABI-Cidr	6fam	D	3
G1	3		d3mit182	50.39	151	162	166?	TTATCTTGTGGGAGGTGG	AGAGAAGTATTCCCTTAAGTTGTCC	ABI	vic	F	14
C1	3		d3mit154	68.61	145	145.99	141.24	TGGAGGTTTGAAGTGGC	AGAGTGTCTAGATGCCTGCC	Sigma	6fam	B	5
A1	3		D3Mit98.1	85.99	95	92.59	106.26	CIDR	CIDR	ABI-Cidr	ned	C	2
B1	3		d3mit57	115.53	157	163	161	TCCAGTACTTGGTGAATCCA	ATATGTGTACATGTTTCATGGTGTG	ABI	vic	A	3
A1	3		d3mit116	154.2	259	268.09	282	TCACTGCCCATCTTTGTAACC	CCCAGAGACCCGGAATAGAA	ABI	vic	H	2
F1	4	156	d4mit235	8.26	116	118	101	AGGCCAAAGGTTGGATTTCT	GAGACTTGAATTAAGCATTTAGG	ABI	ned	G	11
D1	4		d4mit268	20.54	148	150.88	152.96	TAATCTGATCCAAACACTAAAACAGA	GCAGCCTTATGGAAAACCTTCA	ABI	6fam	E	8
B1	4		d4mit236	39.06	202	201	183.97	TCTTAGCATGCTTACCGCCT	GGCCCGTAGGATGACTGTC	Sigma	6fam	F	3
B1	4		d4mit178	66.84	147	156.22	174.4	GCCTGAAGGTAATCAGTAACT	GCTCAGGAGGTACATTCCT	ABI	ned	E	3
H1	4		d4mit301	88.75	104	103.55	111.81	CATTCTAAAATATGCTCCAAGTGTG	CGAGAATGTGGTTATTAACATTTCC	Sigma	6fam	B	15
C1	4		d4mit176	101.16	138	140.7	147.32	AGATAATCTCCAGACAGACATCC	GTAAGGATATACCTATGAAGGGTTCCG	ABI	vic	C	6
E1	4		D4Mit203.1	129.25	98	96.28	105.86	CIDR	CIDR	ABI-Cidr	6fam	A	10
E1	4		d4mit253	152.38	147	144.58	140.23	ATGATCCCTCTTCTGGCCT	AATGACTACAACAGGACATTCATT	Sigma	6fam	B	10
B1	5	153	d5mit193	4.23	136	138.15	148.99	TGTCTTTAAAAGTGGCCAGG	TGTTTTCTATGTGTTTTATGCTTCA	ABI	vic	B	4
B1	5		d5mit348	24.43	123	125.67	131.53?	CTGACCAGAACACAGCATAGTACA	TTAAAAATGAAAAAGCATTCTTTCC	ABI	ned	C	4
B1	5		d5mit352	35.96	110	117	125	CCCAGAGCCCACATCAAG	TAGGTGGGTGTGTCTCTCCC	ABI	ned	D	4
D1	5		d5mit81	50.72	210	206.89	193.04	GGGAGTCCAGGTTCAATGA	ATGTGCATTATGGCATGATAATG	ABI	6fam	A	8
E1	5		D5Mit309.1	79.93	141	137.98	146.57	CIDR	CIDR	ABI-Cidr	6fam	E	10
C1	5		d5mit239	107.84	146	155.41	134.87	ATTGCAGACATAAAGGATATTTGG	GCCAGCCTGGCTTACATAAG	ABI	vic	A	6
D1	5		d5mit425	120.33	124	126	129	TGCGCTTTCTTCCCTCC	AAAATTACATTTGCATCTGGGG	ABI	6fam	F	8
B1	5		d5mit98	138.66	156	164	171	TCCTTCATTTTATCTTCTGCC	TGAATTCACCTCGCACCTG	ABI	ned	A	4
C1	6	150	d6mit166	5.32	100	100.24	110.49	CATTTATTTTATGATGGATGTGTG	GTTGTCTTATGGCTGCCATG	Sigma	6fam	D	6
E1	6		d6mit307	29.07	99	98.66	91.88	TTTTAATCTTTTGCTCTTTCTCG	TGGGCTCAGGCACTTCTTAT	Sigma	6fam	F	10
D1	6		D6Mit274.1	48.68	111	108.85	89.57	CIDR	CIDR	ABI-Cidr	6fam	G	8
H1	6		d6mit209	75.49	134	142.79	147.21	CTCCCCCTCTGTGTGATTGT	TTATTACACCAGACCCATGTGG	ABI	ned	F	16
H1	6		D6Mit284.1	92.56	206	206.45	195.12	CIDR	CIDR	ABI-Cidr	ned	G	16
H1	6		d6mit328	112.73	125	122.55	129	ACCTGGGTAACAGGGAAGC	ACATCTTTGTCTGGATTTGGG	ABI	6fam	H	16
C1	6		d6mit59	138.93	169	165.55	175.02	GCCATCCTTTGTAATAACAAACA	CGTCTGGGAAAACCTCAAAA	Sigma	6fam	B	6
F1	7	153	d7mit152	4.65	129	122.3	118.48	GCCTAGCACACGCCAAAG	CCTTGTGCATGGTTGCTATG	Sigma	6fam	H	11
D1	7		d7mit76	19.58	224	224	255	CATGAGCACGTGGAGAAAGA	CGTGAAAACCTGATAAACTGA	Sigma	6fam	B	8
F1	7		d7mit27	51.22	246	252	260	TGAACCTGGGAGGAAAAGTTG	AACATGAAAAGACATTTCCCCC	ABI	6fam	E	11
F1	7		d7mit317	79.64	102	96.88	90	ATGTCTCCTTGACATTGGGC	TCTTGAATCTCACATCTAAGTGTGTG	Sigma	6fam	E	12

F1	7		D7Mit350.1	90.73	223	220	226 CIDR		CIDR	ABI-Cidr	ned	A	12
C1	7		D7Mit98.1	122.06	186	186.13	180.17 CIDR		CIDR	ABI-Cidr	6fam	E	6
E1	7		d7mit71	138.17	117	118.3	114.21 CCACCTGGAATACATGTAACCC	TAAGATCCAAGAGATGGGTTAAGC		Sigma	6fam	G	10
H1	8	132	d8mit124	14.72	129	124.33	130.14 CAACGTGTATCATAAACTGGGAA	GAAGAATCACTCAGCAGTGTATGG		Sigma	6fam	A	16
E1	8		d8mit3	25.72	172	174.27	180.41 TCCTATTCTCGCATAAGTCC	GATGGGAAGACAGGGTAGCA		Sigma	6fam	C	10
H1	8		d8mit339	41.39	123	125	107 ACCTATGGTACACACACATCGC	CAAACATTTTTAGGCATTAGATCC		ABI	ned	D	16
H1	8		d8mit25	67.12	117	124	134 TCAGACTAATGTCCAGTAGCAAGC	ATTGCATGTCCATGTCTGGGA		ABI	ned	B	16
B1	8		D8Mit45.1	89.83	95	96.2	102.58 CIDR		CIDR	ABI-Cidr	vic	E	4
F1	8		d8mit183	103.57	149	158	165 TCTCAAATAACTATCAACTCTTAGGGG	TCTTTGAACTGGCTATAATCACTCA		ABI	ned	F	12
G1	8		D8Mit88.1	117.36	131	129.57	142.95 CIDR		CIDR	ABI-Cidr	6fam	D	14
H1	9	124	d9_14.1	14.13	288	288	284.6 GGCCATGAAAGTGAATGATGATAGGTG	GCTGTGAACATAAAGGCAAGCGTTC		Sigma	6fam	E	16
C1	9		D9Mit2.1	37.2	191	190.27	194.37 CIDR		CIDR	ABI-Cidr	ned	F	6
F1	9		d9mit4	51.93	122	126	136 TGCTGAGCAAGCTATGAGGA	GACAGCCCATCACAGCTACA		ABI	vic	G	12
F1	9		D9Mit336.1	65.43	175	175.43	158.76 CIDR		CIDR	ABI-Cidr	ned	C	12
F1	9		d9mit196	85.79	143	152	162 GCCTTCTGTTCAGAACTTTCTG	TCTGTATTTAAGCATGCATGTGC		ABI	6fam	B	12
F1	9		D9Mit355.1	98.72	117	116.38	126.94 CIDR		CIDR	ABI-Cidr	ned	D	12
E1	9		d9mit151	121.39	114	123	119 TGGTCAAGGTGTGGTATCGA	AAAACCTCAGCATCCAATGGG		ABI	vic	D	10
C1	10	130	d10mit298	8.51	150	151.84	162.51 TCCTGTTCACTGACTGTCTTCC	AAACAACCAGGCTCCCAAG		Sigma	6fam	C	5
F1	10		D10Mit213.1	20.13	260	258.01	244.95 CIDR		CIDR	ABI-Cidr	ned	C	11
G1	10		d10mit194	46.56	81	79.76	90.89 GATTGTTGTAAAGACATGATCACG	AGATGTGGAATAGGAAGTATGATCG		Sigma	6fam	H	13
F1	10		D10Mit31.1	67.72	138	135	139 CIDR		CIDR	ABI-Cidr	ned	F	11
F1	10		d10mit230	89.66	115	119.25	116 AGATAGCCTAGGGGGTGCAT	ATCAGTTTCCAATCGCTGCT		ABI	6fam	B	11
D1	10		D10Mit233.1	113.82	136	132.95	111.91 CIDR		CIDR	ABI-Cidr	ned	H	8
D1	10		d10mit271	123.78	117	119	106 ACAACCAAAGTCTTTGTAGAAGA	AATATATAGGCACACCTTAATAGCCA		ABI	vic	D	7
C1	11	122	D11Mit2.1	12.22	104	102.03	117.1? CIDR		CIDR	ABI-Cidr	6fam	H	5
B1	11		d11mit205	33.09	104	108	111 GGCAGAGTCTAGTCTGATATCTTGG	CAGTGCACAGCCAGGTTG		ABI	vic	G	3
E1	11		d11mit235	44.19	180	185	200 GAGAGGGCAGTAGCAGCAAC	ATTTATGAGAAGGTCTGAAGGGC		ABI	ned	A	9
B1	11		D11Mit4.1	68.42	176	176.35	170.26 CIDR		CIDR	ABI-Cidr	vic	H	3
C1	11		d11mit284	88.99	86	87.99	101.97 GCTCGACCTAGGGGAAGAAG	AGAATGCTGTGCAACTGGTG		ABI	ned	G	6
D1	11		D11Mit333.1	108.58	99	99.56	79.87 CIDR		CIDR	ABI-Cidr	ned	E	7
C1	12	121	d12mit269	16.76	118	120	126 TCCACAATCTATTCTTGACC	ATACGTTTCCCAGAGGACATG		ABI	vic	H	6
D1	12		D12Mit60.1	35.47	121	118.48	112.75 CIDR		CIDR	ABI-Cidr	ned	F	7
G1	12		d12mit54	54.96	150	151.49	144.39 TGGTAAATTCACCTCTTGG	CCCTGTGCTGGTAGGTGTG		Sigma	6fam	H	14
H1	12		d12mit158	83.72	150	159	141 CATTGGGCAATGGAATTTG	ATGAGAGAAAACCAGAAAACAAAGG		ABI	6fam	C	15
C1	12		d12mit133	111.54	113	121	115 TGAGCAAAAGTTATTGGGTGG	GGAGATATTGCTTATGTCTCCCC		ABI	vic	D	5
H1	13	120	d13mit57	17.09	140	135.74	144.16 GATATACTTGTTCACACCTTGGG	AGAGAGTATGTGCCACCATGG		Sigma	6fam	E	15
D1	13		d13mit245	45.16	137	139	147.52 TGATGAGTCCACAGCAACA	ATTCCAGTGGTTAGGCATGG		ABI	ned	G	7
B1	13		d13mit281	68.86	99	101	97 TGTCTAAGTGCACGTGGAGC	ATGTGAATTGATTTTGTGGGC		ABI	vic	F	4
H1	13		d13mit314	86.07	113	115.14	119.22 AGACTGAGCAGGTTGATTTAGGC	CTTATTTTTAAATGGTTTTACACACA		Sigma	6fam	D	15
D1	13		D13Mit144.1	96.87	138	136.28	140.77 CIDR		CIDR	ABI-Cidr	vic	A	7
G1	13		D13Mit260.1	113.16	206	205.81	195.02 CIDR		CIDR	ABI-Cidr	6fam	A	13
E1	14	125	d14mit49	14.72	250	245	205.03 TTCACTGAATAAAAAGACTCCTCG	TCCTTTACTTGGTGTACGTCTGC		Sigma	6fam	E	9
D1	14		d14mit174	32.46	146	148.91	153.04 ACTGCAGAGTCCACACAAGTG	TCTGAGCCACTATGCCTGG		ABI	ned	B	7
E1	14		D14Mit5.1	60.34	194	193.28	180.83 CIDR		CIDR	ABI-Cidr	6fam	F	9
H1	14		d14mit92	91.51	89	95	116.37? CTGCTGCAGAATTAATTGATTTT	GGATATATGGATTTATACAGACACACA		ABI	ned	F	15
G1	14		d14mit197	105.72	101	97.49	93.5 TCCCATAGCAAATCTCTAGGTAGG	CATTCTGCAATAGATTTCTTGGG		Sigma	6fam	E	13
D1	14		d14mit135	121.21	172	168.51	172.44 TTTATTTATGTGTGATTGTGCACA	TGTGTGCGTGTACACTGAT		Sigma	6fam	H	7
E1	15	103	d15mit176	12.33	150	159	157 GCTTTCTCCTGGATAAACAGGC	CTCTCCTTTTGACTACCCTAGCC		ABI	ned	C	9
H1	15		d15mit201	29.44	99	98.94	92.35 TTTTGGAGTCTTTAGTTTTCTCC	TTGAGTGGTATAATTTGATTTACACA		Sigma	6fam	G	15
E1	15		D15Mit143.1	51.99	135	123? 131.85	CIDR		CIDR	ABI-Cidr	vic	B	9
B1	15		D15Mit67.1	70.03	182	180.89	179.05 CIDR		CIDR	ABI-Cidr	vic	B	3
G1	15		D15Mit242.1	90.22	100	97.71	99.74 CIDR		CIDR	ABI-Cidr	6fam	B	13
G1	16	98	d16mit181	6.32	109	110.56	120.83 CTGTGTGAACGTGTTAGTATGTATGC	CATGGTTGACAATTGGCTTG		Sigma	6fam	E	14
G1	16		d16mit101	23.74	150	147.59	143.22 TTATGAAATGTTTATCTTTTGGGG	CTCCAGATGTAGAAATTAATAATCTTGG		Sigma	6fam	F	13

G1	16		d16mit125	42.38	150	154	146	CAGAGATTACAAGCATACATCTTAGC	CAAACAACAAAACACATTCAACTC	ABI	ned	G	13
G1	16		D16Mit139.1	65.67	155	154.25	181.41	CIDR	CIDR	ABI-Cidr	6fam	C	13
D1	16		D16Mit153.1	87.58	153	151.56	155.66	CIDR	CIDR	ABI-Cidr	vic	D	8
E1	17	95	d17mit57	10.06	300	301.99	319.5	GCTGATAAACGTGGTGGCTT	GTTTAGTGGCTTCAAGTCACCC	Sigma	6fam	G	9
A1	17		phmx17.1	31.84	330	334.23	326.42	GATACAATGGGTCAGGTGGG	GTAGTCCTGGCTGGCTTCAG	ABI	vic	D	2
G1	17		d17mit181	57.39	124	130	124	TTTCCGAGGATTGGAAAAA	GAGACCACACGCACTCACAC	ABI	6fam	D	13
G1	17		d17mit76	86.03	124	126	93	CTCCTCACCCAGATTCTTGTA	TTTCGCAAGTTATTTAACCCG	ABI	ned	A	14
G1	18	91	d18mit146	12.56	143	151	142	ATGTCCTCTGCTCTTTAGTTACC	GGACCACAGAGTCATTCCGT	Sigma	6fam	B	14
G1	18		d18mit225	30.78	116	114.86	117.08	AGGACAAATAAATAAAAAGAGTGTGTG	CTTCCATATTGCTGTAACCTAAATGG	ABI	6fam	C	14
H1	18		d18mit238	57.18	122	124	128	TGTATCCTTTGACTTAGAGACACAGC	ACATGCCTGACAAATTTATTGG	ABI	vic	A	15
A1	18		D18Mit186.1	72.18	93	92.64	72.81	CIDR	CIDR	ABI-Cidr	6fam	F	1
H1	19	61	d19mit59	5.32	199	194.24	136.46	CTCTAACTATCCTCTGACCTTCACA	TTTTAAGCAGAACATTGAGGACC	Sigma	6fam	H	15
H1	19		d19mit96	21.92	119	126.84	118.45	CTTAACTGCAGTTTTAAAGACATTTG	CATTTGAGAGAATGTTTGAACATACA	ABI	vic	C	16
F1	19		D19Mit17.1	45.63	107	103.48	97.71	CIDR	CIDR	ABI-Cidr	6fam	D	11
E1	19		d19mit33	56.27	262	259	322	CCTTTTCAAGAGCATCCTTAAA	GGTGGGACTTGAGAGATGCA	ABI	6fam	D	9
G1	x	167	dxmit81	33.74	200	211.66	213.78	GAGGAGCATCAACCTTCTCG	GAGGTGGGGAGAAACAGAGG	ABI	vic	G	14
F1	x		DXMit68.1	50.68	147	147.78	138.32	CIDR	CIDR	ABI-Cidr	ned	A	11
F1	x		dxmit114	95.34	146	155.28	161.71	ATGGCATCCACAGTACCACA	GTAATAATCAATTTGTGAATAAGGAAGC	ABI	vic	H	12
D1	x		DXMit172.1	119.2	219	218.72	200.09	CIDR	CIDR	ABI-Cidr	vic	C	8
E1	x		DXMit121.1	157.87	127	123.2	121.32	CIDR	CIDR	ABI-Cidr	ned	H	10

Notes:

- Based on NCBI Build v37.1
- Dyes- VIC (Applied Biosystems) excitation $\lambda=488$ nm, emission $\lambda=552$ nm (green)
NED excitation $\lambda=$ nm, emission $\lambda=$ nm (yellow)
6FAM excitation $\lambda=$ nm, emission $\lambda=$ nm (blue)
- CIDR markers are proprietary, and primer sequences are not publicly available.