

APPENDIX

The supplementary information (Table S1-S3) related to the transcriptome analysis results is available at the following Google Drive link: https://drive.google.com/drive/folders/1sLSpv50lKd-QKPe9TRuZGDdf9mOSQXaA?usp=drive_link

SNP_2: Female (A/A); male(A/G)

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TGCATGGCCTGGGCCTCCAACAACACCAAGTTCGCTGTTTGCACTGTTGACAGAGTGGTG	162
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AAGTATGGAAAGCAGAGCTACGTTGTGAATGACATGGTGTCTCACCTGACTCCACCAAA	282
K Y G K Q S Y V V N D M V F S P D S T K	80
ATTGCAATCGGGCAGTCCGACAACATCATCTTGTCTACAGAATTGGAGAGGATTGGGGC	342
I A I G Q S D N I I F V Y R I G E D W G	100
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D K K A I C N K F V Q T S S V T C L L W	120
CCTGCAGAGCATGCCATTGTTTATGGATTAATTGAAGGCAAGGTTCTGCTTGTAACT	462
P A E H A I V Y G L I E G K V R L A N T	140
CATACCAACAAGTCTCCACCATCTACGGCAGAGAGTCTGTGTCGTTTCACTGGCATCA	522
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AATGTTTTCAGGTAAAGGCGTCTGTCTGGCCACGCTGATGGGACAGTCGTTCTTACTTC	582
N V S G K G V L S G H A D G T V V Y F	180
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F D D E G S G E T Q G K L L I H P C P P	200
TACGCCTTGGCCTGGGGTATAAACAGCGTCATGGTGGGCGGCTGTGACAAGAAAATAGTG	702
Y A L A W G I N S V M V G G C D K K I V	220
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A Y S R E G R I L Q T F D Y T R D R T E	240
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D R L R V F N W A P R R G V W D E A K P	280
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K E V L N L Y T I T S L A W K R D G S R	300
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L C A G T L C G G V E L F D C S L R V	320
ATCTATAAGAACAAGTTTGAGATGACCTATGTGGGACTGAGCCAGGTGATCGTTAGGAAC	1062
I Y K N K F E M T Y V G L S Q V I V R N	340
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L S T G T R V V L K S Y Y G Y E I E E V	360
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K I M G Q D R F L V A H T S D T L L L G	380
GACCTGCTGACAAATAAGCTCAGCGAGGTGCCATGGCCCCGGTTCTGGGGGAAATGAAAAA	1242
D L L T N K L S E V P W P G S G G N E K	400
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F F F E N E T V C M I F N A G E L S L V	420
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E Y S N N E I L G S V R T E F M N P H L	440
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 L F R D K K L R L H L Y D I E T C V K T 520
 ACGCTGCTGAGTTTCTGCTCCTATGTGCAGTGGGTGCCTGGCAGTGATGTCGTAGTTGCG 1662
 T L L S F C S Y V Q W V P G S D V V V A 540
 CAGAACAGGGGAAGCCTCTGCATTTGGTACAGTATCGATAGCCCAGAGAGCATCACTATG 1722
 Q N R G S L C I W Y S I D S P E S I T M 560
 TTCCCTATGAAGGGAGACATTGTGGATCTAGAAAGAGCTGATGGAAAGACAGAAAGTGGTC 1782
 F P M K G D I V D L E R A D G K T E V V 580
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 T A I D D G D Y D R A T A F L E T L E M 620
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 S P E T E A M W K T L S K L A L E A R Q 640
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 L R S L P C V L T G Y P V L R S K I E F 1700
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 S S V G K V A N K E D W N K F L M A T K 1720
 ACCAGTCACAGTCCAGAGTGTGACGACGTCCTCAAGTTCATCAGCCAGTGGTGCGGTGGT 5262
 T S H S P E C Q D V L K F I S Q W C G G 1740
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 P A S G F S F Y * 1748
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tttcattaaaaggagcgtccccagaa	6906

SNP_3: Female (A/A); male(A/G)

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S L P C D I H L N L R T L E D P K E T	40
GGAAGTCCATCAGGAAGTGGCTCTCCTCCTTCACAGGAAAGGTTTGTACTGTAGCTCC	274
G S P S Q E V A L L L H R K G F D C S S	60
GCCCCTGAGCCTGCGCCGGCGTGACGTGGAGTTTCGCACGAGGAGGTAAATCTGGACGAT	334
A P E P A P A C T W S S H E E V N L D D	80
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L F S P L R F H S V R R S G L T L L R E	100
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SNP_4: Female (A/A); male(A/G)

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 acgattctgatgtacacattttactgttgcatgttagcagggagcattgtgttgctggtg 2100
 caaaaaggataaactgactcggggggccatatgttctcattctgctgtgatctaaatga 2160
 atgaacgaaatgaatgtagactgtccacaatgttagttagcactgtcttctcatgttagt 2220
 tgcgtcccttcagctcactgaatataccttaaaaaatactgctctgtgtccaagaatgt 2280
 ggtggtattattggtacatgcccttttgttttaacttttaactatatttgaaccatctt 2340
 gagccattttttatttaacttgggacattttagcttttttagattcagaagccagtttcttt 2400
 tgttttctctttaaactcctcctactctttattcaaaaactttgtccagttatgacataa 2460
 acactgtcatggccctctttctatttttgtttttcaatctatactttatctctacatttc 2520
 cctagtgccagagatcaagtaaatgatattgtgtacataattaccctttcttggagggg 2580
 tttactggtaagattgattcaatctactagtttacacctgacaatcatcaccatatttta 2640
 tcatacagctactggtttggaataaagcgagctaggtttgggactctgacataagctggt 2700
 ccttttttaacatgatctgtgagaacgtgctgtcctctcccaagtaaggttccctctca 2760
 aatgtcatggttcaatatcttctggccagcacaccatggcaccttttagggggcactgtagc 2820
 agcatacaaatgagaagattgtttcggaacaccttttctgccagtgctaaagacggtta 2880
 aaggagatgaaatttgattgttaacagaatgcacttaactgctttttactgatttgtat 2940
 tgatatatggtctccttttttctttatttttattaatctttgaatccctacaccatttagc 3000
 atcccaaaccttttaagctttccctaaaaagtgtctcctgtttttaccttttattttcag 3060
 cttggtcatattccaaaccaatgttaaaagacttgctattttaaaaatatttggctgactt 3120
 gatagaaaaatctgctgtttgaaactaacagttgtgtttaatgccaggttttttccattt 3180
 atattcctgtcgttatcaaatcaagcttctttgtcactgaaactgcacttggaaggtgct 3240
 tagctacgtaaatcattatcttataaattgtgttgcaataaaaaccaccaagaagtattt 3300
 ttttagtatccctgcatgaagtcacatccatttcttttaataaaaaagggaaggtggaaaa 3360
 atgccagtgaaaattgtgttaatatccaaatgtggcattttattataacactatattctt 3420
 tcaagacaattaaaattaccttttattttctgtagcatgtaatgtgttaatatactagta 3480
 aataaagtcacacccgtg 3496

SNP_5: Female (A/A); male(A/G)

	cg	2
cctcttaaatctgctgcagccgtagtggcggtgagtcgcagacggtgagcagtttgaag		62
cgtagctgtgctgaggcggaatatattgaaattggacaaactgtttgtagaccgggtaaaa		122
ataaactgcgatattgacgtctacacacgcagtagctcttgtcctagtcacagcctaac		182
cggaggacacgggttggtttttccggttagctgactcttggtagcgtaaagccggtgtcgcg		242
aaatagaatcgctccgtcctcctgagctaactgctagctagccacgaagctaacgttacc		302
agctagccggaacacgaaagcagctaatacctcaacacaaaggacgactttgctgtgttt		362
gttaaatcgaccccgaaatcacttcattgaatgtggactgagccttctgggcaggttcac		422
ATGGTGCTAACAGGGAACGTTTCGGAGAAGGGTCTGCCTGCTGGAAGAGGGTGAAA		482
M V L T G K R S E K G P A C W K R R V K		20
TCCGAGTACATGAGGCTTCGGCAGCTCAAACGTTTCAGACGAGCCGATGAAGTCAAGAGC		542
S E Y M R L R Q L K R F R R A D E V K S		40
ATGTTCAACACCAACCGCCAGAAAATAATGGAGAGAAGTACATTTTAAATCAGGAGTGG		602
M F N T N R Q K I M E R T D I L N Q E W		60
AAGACCAGGAGAATCCAGCCAGTGCATATCATGACCTCCGTGAGCTCCTTAAGAGGCAT		662
K T R R I Q P V H I M T S V S S L R G T		80
CGAGAGTGCAGTGTGGAGAGTGGTTTCTCTGAGTTCCCCAGGCAGGTCAATTCCTCTAAG		722
R E C T V E S G F S E F P R Q V I P L K		100
ACTCTTAACGCTGTGGCCTCGGTTCCAGTCATGTACTCCTGGTCAACACTGCAGCAGAAC		782
T L N A V A S V P V M Y S W S P L Q Q N		120
TTCATGGTGGGAAGATGAGACTGTGCTCCATAACATTCCTATATGGGAGATGAGATCCTG		842
F M V E D E T V L H N I P Y M G D E I L		140
GACCAAGATGGTACATTTATAGAAGAGCTTATTAAGAACTACGATGGAAAAGTCCATGGG		902
D Q D G T F I E E L I K N Y D G K V H G		160
GACAGAGAGTGTGGATTTCATAACGATGAGATCTTTGTGGAGTTGGTCAATGCTCTGGCA		962
D R E C G F I N D E I F V E L V N A L A		180
CAGTACAATGAAAATGAGGAGGATGAGGAGGAGGAAGAACAGGATTTCAAGGATGACAAG		1022
Q Y N E N E E D E E E E Q D F K D D K		200
ATGGACATGTGTGATGGCAAAGATCATCCAGAGGATCCTCGCAAGGATGGACTTCTTAAC		1082
M D M C D G K D H P E D P R K D G L L N		220
AATGAGAGCCGAACCAGCAATGACAGCACCAGGAAGTTTCCCTCTGACAAGATTTTGTAA		1142
N E S R T S N D S T R K F P S D K I F E		240
GCCATTTCCCTCCATGTTCCCTGACAAGGGAAGCACAGAGGAGCTTAAAGAGAAGTACAAG		1202
A I S S M F P D K G S T E E L K E Y K		260
GAGTTGACAGACACCAGCTGCCTGGCGCCCTACCACCTGAATGCACACCGAACKTYGAT		1262
E L T E H Q L P G A L P P E C T P N I D		280
GGTCCCAACGCTCGCTCAGTGCAGCGGGAGCAGAGCCTGCACTCCTTCCATACTTTGTTC		1322
G P N A R S V Q R E Q S L H S F H T L F		300
TGCAGACGCTGCTTTAAATATGACTGCTTTCTCCATCCCTTTCATGCAACTCCCAACACA		1382
C R R C F K Y D C F L H P F H A T P N T		320
TACAAGCGCAAGAACATGGAGATTCTAGAAGACAGTAAACCCTGCGGAATTGACTGTAC		1442
Y K R K N M E I L E D S K P C G I D C Y		340
ATGTACCTGGTGCAGGATGGGATAGTGAGGGAGTATCCCGCAGGTGTGGTTTCAGAGCGA		1502
M Y L V Q D G I V R E Y P A G V V S E R		360
GCCAAGACACCTCCAAACGCACTGTGGGCCGTGCGCGTGGACGACTGCCGAACAGCAAC		1562
A K T P S S K R T V G R R R G R L P N S N		380
AGCCGTCCCAGCACCCCACTGTTTCTCGGAAACCAAAGACAGACAGTGACCGAGAG		1622
S R P S T P T V S S E T K D T D S D R E		400
GGGAGCAAAGAAGACGAGAGAGACAATGACGAATACAAGAAAGATGAGAACCACGAGCAGC		1682
G S K E D E R D N D E Y K K D E N T S S		420
TCAGAAGGTAACCTCTCGCTGTCAAACCTCTGTGAAGATGAAGCTGAACAGTGAGCCTGAA		1742
S E G N S R C Q T P V K M K L N S E P E		440
GCCGTGGAATGGAGTGGTGTGAAGCCTCTTTGTTTAGGGTCTTATCGGGACATACTAT		1802
A V E W S G A E A S L F R V L I G T Y Y		460
GATAACTTCTGTGCCATTGCACGACTCATAGGCACCAAGACCTGCAGACAGGTTTACGAG		1862
D N F C A I A R L I G T K T C R Q V Y E		480
TTCAGGGTCAAGGAGTCGAGCATCATCGCCCGGGCTCCAGCTGAAGATGAGGACACACCA		1922
F R V K E S S I I A R A P A E D E D T P		500
CCCAGAAAGAAGAAGAGGAAACACAGACTGTGGGCCACTCACTGCAGGAAGATCCAGCTG		1982
P R K K K R K H R L W A T H C R K I Q L		520
AAGAAAGATGGCTCATCCAACCATGTATATAATTACCAGCCATGTGACCACCCGCGGAG		2042
K K D G S S N H V Y N Y Q P C D H P R Q		540
CCCTGTGACTCCTTGTCCATGCGTCACTGCTCAGAACTTTTGTGAGAAGTTCTGTGAG		2102

	P	C	D	S	S	C	P	C	V	T	A	Q	N	F	C	E	K	F	C	Q		560	
	T	G	C	A	G	C	T	C	T	G	A	G	T	G	C	C	G	T	G	C	A	A	2162
	C	S	S	E	C	Q	N	R	F	P	G	C	R	C	K	A	Q	C	N	T		580	
A/G	A	G	A	C	A	G	T	G	C	C	C	T	G	C	T	A	C	T	G	G	C	T	2222
K/E	Q	C	P	C	Y	L	A	V	R	E	C	D	P	D	L	C	L	T	C			600	
	G	G	C	G	T	G	C	A	G	C	A	C	T	G	G	G	A	C	T	G	T	C	2282
	G	A	A	D	H	W	D	S	K	N	V	S	C	K	N	C	S	I	Q	R		620	
	G	G	A	G	C	A	A	G	C	A	C	T	G	C	T	G	G	C	C	C	T	T	2342
	G	A	K	K	H	L	L	L	A	P	S	D	V	A	G	W	G	I	F	I		640	
	A	A	A	G	C	C	A	G	T	C	C	A	G	A	A	A	T	G	A	G	T	T	2402
	K	E	P	V	Q	K	N	E	F	I	S	E	Y	C	G	E	I	I	S	Q		660	
	G	A	T	G	A	A	G	C	A	G	C	C	A	G	G	C	A	A	A	G	T	C	2462
	D	E	A	A	D	R	R	G	K	V	Y	D	K	Y	M	C	S	F	L	F	N	680	
	C	T	T	A	C	A	A	T	G	A	T	T	T	G	T	C	G	A	T	T	T	2522	
	L	N	N	D	F	V	V	D	A	T	R	K	G	N	K	I	R	F	A	N		700	
	C	A	T	T	C	T	G	T	C	A	A	C	C	T	A	A	C	T	G	C	T	2582	
	H	S	V	N	P	N	C	Y	A	K	V	M	M	V	N	G	D	H	R	I		720	
	G	G	A	A	T	C	T	T	T	G	C	A	A	G	A	G	A	A	C	T	T	2642	
	G	I	F	A	K	R	A	I	Q	T	G	E	E	L	F	F	D	Y	R	Y		740	
	A	G	C	C	A	G	G	C	T	G	A	C	T	G	T	T	G	G	A	T	T	2702	
	S	Q	A	D	A	L	K	Y	V	G	I	E	R	E	M	E	I	P	*			758	
	t	g	a	c	t	t	c	a	c	c	g	g	t	g	a	t	c	a	a	c	a	a	2762
	t	t	t	t	t	g	t	a	t	c	a	a	a	a	g	c	t	a	t	a	t	g	2822
	g	t	t	t	g	t	t	t	t	t	t	t	t	g	t	t	g	a	t	t	c	2882	
	t	t	t	t	t	c	t	t	t	t	t	t	t	g	t	c	a	a	t	c	t	2942	
	a	a	c	g	t	g	t	c	c	a	g	a	t	g	a	a	a	c	t	g	t	3002	
	t	a	c	a	a	a	c	t	g	t	t	t	t	t	t	t	t	t	t	t	3062		
	g	t	t	g	t	c	c	g	t	c	g	t	g	t	t	g	t	t	t	t	3122		
	c	a	a	g	c	t	g	g	t	a	a	a	c	c	g	a	c	a	g	a	3182		
	c	a	g	a	a	g	c	a	c	c	t	g	c	g	a	t	g	a	t	t	3242		
	g	c	t	g	c	c	a	c	a	g	a	c	a	c	a	g	a	c	a	g	3302		
	c	g	c	t	t	g	t	g	t	t	g	c	t	t	g	a	t	t	a	3362			
	a	a	t	a	g	c	c	t	c	c	c	t	g	t	t	g	t	c	c	c	3422		
	t	t	t	a	g	t	g	a	a	g	c	c	c	c	c	c	c	c	c	t	3482		
	t	a	t	t	g	a	a	g	t	a	t	t	t	t	a	a	c	t	t	3542			
	g	a	c	a	t	g	t	t	t	t	t	t	a	g	a	t	t	g	t	3602			
	g	t	a	t	g	c	g	t	a	g	t	g	c	a	t	g	t	g	t	3632			

SNP 12: Female (A/A); male(A/G)

	gcggggcc	7
cgaatccctctttcaaccttctgcttttctggaggggcaccttcaaccagctacgcggtgca		67
ctgacagcgggcttttgatctttgttaaagaattagttgaaataacccttttacacagacaca		127
ATGTCCTCTCCTGACCGCCAGCAGGCTAGCACCCAAACTGCTAAATTCAAAGAATGCCACT		187
M S F L T A S R L A P K L L N S K N A T		20
TACTGTGTTTGGGCTGCCAGAAATGCCAGCGCATCAACAACAAATTTGAAGGATGTTCTT		247
Y L F V A A R N A S A S T T N L K D V L		40
GCAGATCTTATCCCTAAAGAACAACAAGGATTAAGAATTTCAAACAACAGTATGGAAAA		307
A D L I P K E Q T R I K N F K Q Q Y G K		60
ACCAACATAGGACAGATTACTGTAGACATGGTCTATGGAGGTATGAGAGGAATGAAAGGT		367
T N I G Q C I T V D M V Y G G M R G M K G		80
CTGTGTATGAGACATCAGTATTGGATCCTGAGGAGGGCATCCGGTTCCGAGGTTACAGC		427
L V Y E T S V L D P E E G I R F R G Y S		100
ATTCTGTAGTGTGAGAAAGCTTCTGCCTAGAGCTCCAGGAGGTGAGGAGCCTCTACCTGAA		487
I P E C Q K L L P R A P G G E E P L P E		120
GGACTCTTCTGGCTGCTGGTCACTGGACAGGTTCCCACCGAGGAGCAGGTCAACTGGGTG		547
G L F W L L V T G Q V P T E E Q V N W V		140
TCCAAAGAATGGGCAAAGAGAGCAGCACTCCATCTCACGTTGTCAACATGTTGGATAAT		607
S K E W A K R A A L P S H V V T M L D N		160
TTCCCTACAAACCTGCACCAATGTCTCAGTTTAGTGCTGCAATCACAGCTCTAAACAGT		667
F P T N L H P M S Q F S A A I T A L N S		180
GAGAGCAGTTTTGCACGGCGTACTCTGAGGEGTGCCACAAGTCCAAGTACTGGGAGTTT		727
E S S F A R A Y S E G V H K S K Y W E F		200

ATTTATGAAGACTCCATGGACTTAATTGCTAAGCTGCCCTGCATTGCAGCCAAGATCTAT 787
I Y E D S M D L I A K L P C I A A K I Y 220
 CGCAACCTGTACCGTGAAGGCAGCAGCATTGGAGCAATCGACTCCAACCTGGACTGGTCA 847
R N L Y R E G S S I G A I D S N L D W S 240
 CACAACCTTCACCAACATGCTTGGCTACAGTGATAACCAGTTCACTGAGCTAATGAGGCTC 907
H N F T N M L G Y S D N Q F T E L M R L 260
 TACCTCACCATCCACAGTGATCACGAAGGAGCAACGTCAGTGCCACACTAGCCATTTG 967
Y L T I H S D H E G G N V S A H T S H L 280
 GTGGGTAGTGCCCTGTCTGACCCCTATCTGTCTTCAGCGCTGCTATGAACGGTCTTGCA 1027
V G S A L S D P Y L S F S A A M N G L A 300
 GGTCTCTACATGGCCTGGCCAATCAGGAGGTGCTCGTGTGGCTAACTGCCCTGCAGAAG 1087
G P L H G L A N Q E V L V W L T A L Q K 320
 GAGTTGGGAGGAGAGGTGTGAGATGAGAGGATGAGGGATTACATCTGGAACACACTCAAG 1147
E L G G E V S D E R M R D Y I W N T L K 340
 TCTGGAAGGGTGTGCTGGGTATGGTACGCTGCTCCTAAGAAAGACTGACCCACGTTAC 1207
S G R V V P G Y G H A V L R K T D P R Y 360
 ACCTGCCAGCGGAGTTTGCCTTGAAGCACTTGCCCAATGACCCAATGTTCAAGTTGGTT 1267
T C Q R E F A L K H L P N D P M F K L V 380
 TCCCAGCTGTACAAGATTGTTCCCAATGTTCTCCTGGAGCAGGGTAAGGCCAAGAACCCC 1327
S Q L Y K I V P N V L L E Q G K A K N P 400
 TGGCCCAATGTGGATGCTCAGAGTGGAGTTCTGCTGCAGTACTACGGAATGACTGAGATG 1387
W P N V D A H S G V L L Q Y Y G M T E M 420
 AATTACTACACTGTGCTCTTTGGTGTGTCTCGAGCCCTCGGTGTGCTGGCCAGCTGGTG 1447
N Y Y T V L F G V S R A L G V L A Q L V 440
 TGGAGTAGAGCCCTGGGTTTTCCCTTGAGCGCCCTAAGTCCATGAGCACAGATGGACTA 1507
W S R A L G F P L E R P K S M S T D G L 460
 ATGTCACTGGTGGGAGTCAAGTCAGGCTGAagaacaaccttaagatgttgggagggggg 1567
M S L V G V K S G * 469
 gtagtgtgaacgggtggaggagatggtaatatcaagaggcagacgtacgttgacccccctg 1627
 tcattttcaaaccagggtattctgtgggattcaaagagacagtaagcttttaacttcatt 1687
 tcacaaatgaaggaccttttaattatcacacctagcggttttagttaatcagacaagttt 1747
 tcccatgtgtcgccatatttggaaactggcaatgtgaatgcatcacacacatgcctccag 1807
 cagtaggctcaaactgttctgttctatgtctacatgatgattttcccctgtgcagtgcct 1867
 gcgtgtttgtcattgagcactgggtctgatctataaatatagtggttcattcaaagggaact 1927
 gtgggagtgaactacactttgattgtgtttgttttaaaatctaaagttaataactcagcc 1987
 ttttgctcctgtggctaataagaatgatttgtttgaattattattcagctcattttatttc 2047
 ttctgtccagtggttccctaacctttttccaccagctctgtcaatgcatttcactcccattt 2107
 actctatgaacactccacttttaaaagtaaaaggtccttagcagtaaaacttgacaagcta 2167
 caagagaaacaaactataaaaccatagttaaaagataactgccccttta/a/gaatctttgg 2227
 ctccccctttttcaaagttgtattttctttttattcaaataattaaatgacctctatgatc 2287
 aaaataattttgtctatgtagaagtaattcccttagctcctttttgttaacatgcgtac 2347
 ctttttaacgggtctctctccgggtgttttctgagacacagagaactaaaaatgaagtac 2407
 agcaacagtaatgtacagtagtgataaagacttgagtaagggtgttgtagtcttggaacc 2467
 tgtggtaaatgcttaagagcaaggttgatgaaaagtgggacagatgggggggggggggg 2525

SNP_15: Female (A/A); male(A/G)

cacacacacacacacaaacatgaacagacacacacgcacacacacatatatcgtatatatc 60
 tgtgtgcagcgccgtttttacctggttttacatttaattggaggttcagaagtttggtgat 120
 tctttcttttgaggacaatgaaaagcagacttcatataacaatacggatgtagagcatgag 180
 tgatgaagacagacagaaaaggcggtaacctgcgcttaaaaagggtttaagaaaaggttc 240
 gtcgtgccgagggaaggaaggcgtgctcacctccttgcatgtacatatgagctgacagt
 300
 ctctgtttttccaataaaaactaatgtcgcaacccagagatcatctcagctggcagttt 360
a/ggtgaggtttgttgaaagatggccactgtgtgtgtgagcgtgtgtgtttgtttgtt 420
 gtgtgttttaggatgaatgcagagtgtgtgtacagtatcgggatgtttgtgcaatcttgat 480
 gtacacagaaaaagttatctttaagaacgtggctgatgacactacaacactagtgtacag 540
 cttagtttgccttttatttttgacagcacgtgggttacattgttaaatatgtggaggttt 600
 cttttatttctgctttgttctgtagaggagagcttctccaaaatgcctttcactttctgt 660
 ggagaaatatctttctagagaagggtctttttttttttttttatgtgtttggccttaccga 720
 tgtccacaagtgcacttagtgaaccgaggtggttccactttgtaagccacccatttataa 780
 aataaatatactgtaaaaaaataaa

SNP_19, 20: Female (GC/GC); male (GC/TT)

SNP_21: Female (G/G); male(G/A)

	ccaaaggagaaacgtcgccg	19
ctcctccatagtgctgcttgtgtgtgtgcatcggtgactagcacacagatttgaatgttc		79
gtgatttaactgtaaaccgtttataaaaatcctcttcacatcgctggtgaatttgaggaag		139
ATGGAGGATGATGCGCGCTACCTGAAACGCAAAGTGAAGTGCAGGAGTTGGATGTCCAC		199
M E D D A R Y L K R K V T A G S L D V H		20
CCCACGGAGAATGCCCTTGTGGTCCACTATGAGGTGGAAGCGTCCATACTAGGAGAGAGT		259
P T E N A L V V H Y E V E A S I L G E S		40
GGAGGTTGTATGGTGGGGGAACGCAAGGAGGGACAGAAAATTGTCCGTGTCAAAAGTCTT		319
G G C M V G E R K E G Q K I V R V K S L		60
TCTCGTAGCACTGATGTGACAGCTTTGGCCAAGAAGGTGGTGGAGGAGTGTAAAGCTCATC		379
S R S T D V T A L A K K V V E E C K L I		80
CCTTCTTCCCGCTTGCCCCAGGTGGAGCAGCTTTTGTACTACTTGCAAAACAGGAAATCT		439
P S S R L P Q V E Q L L Y Y L Q N R K S		100
TCTCCAGTGGTGGCAGGATGGATAAGAAGGAGAGAAAACCTGAAACCCAGAGAGCTG		499
S P V V G K V D K K E K K T L K P R E L		120
ACACCATTGGAAGGAATTGAGTTAAATGAGGAAGCCTGTATAACCAGAGTGGATGAGTAT		559
T P F E G I E L N E E A C I T R V D E Y		140
GTTGAGCTTCTCTATGAGGACATCCAGACAAGATCAGAGGCTGCGCTCTAATTCTACAA		619
V E L L Y E D I P D K I R G C A L I L Q		160
CTTGCCCGCAACCCAGACAACCTGGATGAGCTGCTTCAAAATGAGACAGCTCTAGGGGCT		679
L A R N P D N L D E L L Q N E T A L G A		180
CTGGCCAGAGTACTGAGGGAGGATTGGAACATAGTGTGGAGCTGGCCACCATTATCTTG		739
L A R V L R E D W K H S V E L A T I I L		200
TACATCTTTTTCTGCTTCTCTAGTTTCTCCCA G/A TTTCATGGAGTGGTGAATCATATAAA		799
Y I F F C F S S F S Q/Q F H G V V S H Y K		220
ATAGGTGCATTGTGTATGAGTGTGTGGAACATGAGCTGAAGCGACATGACGTGTGGCGT		859
I G A L C M S V V E H E L K R H D V W R		240
GAGGAGCTACACAAGAAGAACAAGCTTGTGAGTCAGCACCAGAGAATGGCTCCTTAAGA		919
E E L H K K N K A C E S A P E N G S L R		260
AGAGACCAAGGCAAAGCTCTAAAGAAATACCAAGGCCTTCTGGCCAAACAGGAGCAGCTC		979
R D Q G K A L K K Y Q G L L A K Q E Q L		280
ATTAGAGTGTCTCTTTACCTGTTGTTAAACCTTGCTGAAGACACAAGAACGGAGCTGAAG		1039
I R V S L Y L L L N L A E D T R T E L K		600
ATGAGGAATAAAAAACATTGTTGGTCTGTTGGTCAGGGTTCTTGAACGGGACGATGAGGAG		1099
M R N K N I V G L L V R V L E R D D E E		320
CTTCTGGTCTGGTGGTTACATTCCCTCAAGAACTGTCCATCTTTTGGAGAATAAAAAAT		1159
L L V L V V T F L K K L S I F L E N K N		340
GACATGGCTGAGGTGGATACTATTGAACGCTTGGCTCGCCTTGTCCCTGTGACCATGAA		1219
D M A E V D T I E R L A R L V P C D H E		360
TATTTGCTTAACTGATTTTGGCTCTGCTTCTAAACTTGTCTTTTGAAGTCTGGACTCAGA		1279
Y L L N L I L R L L L N L S F D S G L R		380
GCAAAGATGGTGAAGCTGGATTGTTACCTAACTATGTAAGTGTAGGTGATGAGAAT		1339
A K M V E A G L L P K L C N L L G D E N		400
AACCGTCTAGTAGCCATGCGTATCCTTTATCAGATCAGCATCGACGATCGTTTTAAGGGC		1399
N R L V A M R I L Y H I S I D D R F K G		420
ATGTTTGTGTTTACTGACTGCATACCCAGCTTATGCAAATGTTGTTTGAAGTGGTGAG		1459
M F V Y T D C I P Q L M Q M L F E N G E		440
GAGGAAAATGAAGCTGAGCTCATCTCTATCCTCATCAACCTGGCTGTAAACAAGAAGAT		1519
E E N E A E L I S I L I N L A V N K K N		460
GCACAAGTTATGTGTGAAGGAAATGGATTGAAGATGCTGATGAAAAGGGCTTTGAAGATA		1579
A Q V M C E G N G L K M L M K R A L K I		480
AAAGATAGCCTGCTAATGAAAATGATAAGAAACATTTACACAACATGATGGAGCAACCAA		1639
K D S L L M K M I R N I S Q H D G A T K		500
CCACTGTTTCATAGACTATGTTGGTGACCTGGCAGAGATCCGTGCAGAGGAAGAAGAG		1699
P L F I D Y V G D L A A E I R A E E E E		520
GAGTGGGTTCTGGAGTGTCTGGGACTTTGGCTAACCTTACCATTCTGACCTAGATTGG		1759
E W V L E C L G T L A N L T I P D L D W		540
GAGTTAGTGTCAAGGAGTACAACCTAGTACCTTACCTGAAAGACAGACTTGTACCAGGT		1819
E L V L K E Y N L V P Y L K D R L V P G		560
TCAGCAGAGGATGACCTCATCCTTGAGGTTGTAATTTTGATTGGAAGTGTTCATGGAT		1879
S A E D D L I L E V V I L I G T V S M D		580

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GATGCCTGTGCTGCCATGTTGGCTAAATCTGGCATTATCCCGGCACTTATTGAGTTACTA 1939
  D A C A A M L A K S G I I P A L I E L L 600
AATGTCCAGCAAGAGGATGATGAGTTTGTGTGTCAGATTGTCTACGTCTTCTATCAGATG 1999
  N V Q Q E D D E F V C Q I V Y V F Y Q M 620
GTTTTTCACCAAGCTACACGTGACGTCATAATCAAAGATACCCTTGCTCCAGCCTACCTT 2059
  V F H Q A T R D V I I K D T L A P A Y L 640
ATAGATCTGATGCACGACAAGAACACTGAAATTAGAAAAGTGTGTGACAACACCCTCGAT 2119
  I D L M H D K N T E I R K V C D N T L D 660
ATTATTGCTGAATACGATGAACAGTGGGGGAGGAAGATTTCAGTCAGAAAAGTTTCGTTTT 2179
  I I A E Y D E Q W G R K I Q S E K F R F 680
TATAACAACCAAGTGGTTGGAGATGGTTGAAAGTCGACAGGCTGATGAGTCTGAGCCATAT 2239
  Y N N Q W L E M V E S R Q A D E S E P Y 700
CTCTATGATAACGACAATGACAGGACGGATCTGTTCTACAGCGCAGATGGAATAACTCCA 2299
  L Y D N D N D R T D L F Y S A D G I T P 720
GGAGATGGTTCTATCAGTCCAGACTTCTTCTGTGATCCACAGACACAAAATGGAGATTCA 2359
  G D G S I S P D F F C D P Q T Q N G D S 740
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  H L T G D N D V F D Q T S S S P G R P A 760
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  H L A C * 784
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tccaataaactgaagtagctttgaa 4359

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Figure S1 Nucleotide sequences of SNP_2, SNP_3, SNP_4, SNP_5, SNP_12, SNP_15, SNP_19, SNP_20, and SNP_21. Lowercase letters indicate the 5' and 3' untranslated regions (UTRs). Underlined letters indicate the stop codon. SNP positions are highlighted in red. Note that SNP_4 and SNP_15 nucleotide sequences contain only 3'UTR.