

Table S1 All exons sequences of porcine *RNF20* gene

Exon1:

AGGTTAGATCTCGGCCAAGGAAGGGACCAGACTGTGCGG **A(G)** CACCAGGAATCTCCACCTCCT
CCCGCTCCAGAGTCTCTCTCTGGGGCCTGC **C(A)** GTTGGCCTCGTCGGAGGCTGGGATCCTAGGCC
CCTCTCGAGTCGGATTGAGGCCCTTGTCTGCCCTCTCTCTCCATGCGAGGTCCCATCCAG

Exon2:

GAAAACAGCTATCATCTTGTGCCAAG **ATG** TCAGGAATTGGAAATAAAAGGGCAGCTGGAGAGC
CTGGCACATCTGTGCCTCCGGAGAAGAAGACAGCTGTTGAAGATTCAGGGACTACAGTGGAAA
CAATTAAGCTCGGGGGTGTCTCTTCAACG

Exon3:

GAGGAGTTAGACATTCGAACACTGCAAACCAAAAATCGCAAACCTGGCAGAAATGCTGGATCAA
CGGCAGGCCATTGAAGATGAACTCCGTGAGCACATTGAAAACTGGAGCGAAGACAGGCCACC
GATGATGCCTCACTGTTGATTGTCAACCGGTATTGGAGTCAG

Exon4:

TTTGATGAGAATATCCGTATCATCCTGAAACGTTATGATCTGGAGCAAGGTTTGGGAGACCTACT
CACAGAAAGAAAAGCTCTTGTCTGCGTGCCCCGAGCCAGAACCAGACTCCGATAGCAATCAGGAACG
GAAGGATGAG

Exon5:

GGGAAGGGCAAGAGCCAGCTTTCTCTTTCCTTGCTACTTTGGCCAGCAGTTCCAGTGAAGAGAT
GGAGTCTCAGCTGCAGGAGCGTGTGGAATCCTCCCGCCGAGCTGTATCCAGATTGTGACTGTCT
ATGATAAACTTCAGGAAAAAGTGGAGCTCTTATCACGGAAGCTCAACAGTGGAG

Exon6:

ATAATCTGATAGTGGAGGAAGCAGTACAAGAGCTGAATTCCTTCCTCGCACAAGAGAACATGAG
GCTTCAGGAATTGACAGACCTCCTTCAGGAGAAGCATCGCACCATGTCTCAGGAG

Exon7:

TTCTCCAAGTTGCAGAGTAAGGTGGAGACAGCGGAGTCAAGAGTGTCTGTCTTAGAGTCCATGA
TTGATGACCTGCAATGGGATATTGACAAAATTCGTAAGAGGGAACAGAGACTCAACCGACACTT
AGCAGAAGTCCTAGAGCGG

Exon8:

GTGAATTCGAAAGGTTATAAAGTATATGGTGCAGGCAGCAGTCTCTATGGTGGCACAATCACTAT
CAATGCCCGGAAG

Exon9:

TTTGAGGAGATGAATGCGGAGCTTGAGGAGAACAAAGAGTTGGCTCAGAACCGTCACTGTGAA
CTGGAGAACTTCGGCAAGACTTTGAAGAAGTCACTGCACAAAATGAAAAGCTGAAG

Exon10:

GTGGAATTGCGAAGCGCAGTGGAGGAAGTGGTCAAGGAGACACCGGAATATCGCTGCATGCAA
TCACAGTTCTCTGTCTATACAATGAGAGCCTGCAGTTGAAAGCACACTTGATGAGGCTCGGA
CCCTGCTTCATGGCACCAGGGGGACCCACCAGCGCCAAGTTGAGCTCATTGAG

Exon11:

CGGGATGAGGTTAGTCTTCATAAGAAGCTGAGGACTGAAGTGATCCAGCTCGAAGATACACTGG
CCCAGGTCCGCAAGGAGTATGAAATGCTGAGGATAGAATTTGAGCAGACCCTTGCTGCCAATGA
ACAAGCAG

Exon12:

GCCCCATAAACCGGGAGATGCGTCACCTCATCAGTAGCCTCCAGAATCACAATCACCAGCTGAA
AGGGGAGGTTCTGAGGTATAAGCGGAAACTGAGAGAAGCCCAGTCTGACCTGAACAAG

Exon13:

ACTCGATTGCGCAGTGGCAGTGCCCTCTTGCACTCTCAGTCCAGTACTGAGGACCCCAAAGAAG
AGCCTGCAGAGCTAAAACAAGATCCTGAGGACTTACCCGCCAGTCCGCTACCTCGAAGACATC
TCAGGAGGAAGTCAATGAAATTAAGTCCAAAAGGGATGAGGAAGAGCGAGAACGAGAAAGGA
GGGAGAAAGAGAGAGAACGGGAAAGAGAGCGGGAGAAGGAAAAGGAGAGAGAACGTGAGA
AGCAGAAACTAAAAGAGTCAGAAAAAGAAAGAGATTCTGCTAAGGATAAAGAGAAAGGGAA
ACATGATGATGGAAGGAAAAAGGAAGCAGAAATTATCAAACAATTGAAGATTGAACTCAA

Exon14:

GAAGGCACAGGAGAGCCAAAAGGAGATGAAACTATTGCTAGATATGTACCGCTCTGCCCCAAA
GGAACAGAGAGACAAAGTTCAGCTAATGGCAGCTGAGAAGAAGTCTAAGGCAGAG

Exon15:

TTGGAAGATTTGAGGCAAAGACTTAAGGACCTGGAGGATAAGGAGAAAAAAGAGAATAAGAA
AATGGCCGATGAGGATGCCTTGAGGAAGATCCGAGCAGTAGAGGAGCAGATAGAGTACCTGCA
GAAGAAGCTGGCCATGGCCAAGCAG

Exon16:

GAGGAAGAAGCTCTCCTCTCTGAGATGGATGTACAGGCCAGGCCTTTGAAGACATGCAGGAG
CAGAATATCCGTTTGATGCAGCAGTTGAGGGAGAAAGATGATGCAAACCTCAAGCTCATGTCAG
AACGTATCAAATCCAATCAGATCCATAAACTGCTAAAAGAAGAGAAGGAAGAGCTGGCAGACC
AGGTTTTGACTCTCAAGACTCAG

Exon17:

GTTGATGCCCAGTTACAGGTGGTAAGAAAACCTGGAAGAGAAGGAGCACTTGTTACAAAGCAAC
ATTGGCACAGGGGAGAAGGAGCTGGGTCTTAGGACCCAAGCCTTAGAGATGAATAAACGTAAG

Exon18:

GCAATGGAGGCAGCCCAGCTTGACAGATGACCTCAAAGCACAGTTGGAGTTGGCTCAGAAGAAG
CTACATGATTTTCAGGATGAGATTGTGGAAAACAGTGTACCAAAGAAAAAGATATGTTCAATTT
CAAACGAGCCCAG

Exon19:

GAGGACATCTCTAGACTGCGAAGGAAGCTGGAGACCACAAAGAAGCCAGACAACGTACCCAA
ATGTGATGAGATTCTGATGGAGGAGATAAAGGATTACAAG

Exon20:

GCACGTCTGACCTGTCCCTGTTGCAACATGCGTAAAAAGGATGCTGTACTTACCAAGTGTTCAT
TGTTTTCTGCTTTGAGTGTGTAAAGACCCGCTATGACACCCGCCAGCGCAATGTCCCAAGTGCA
ATGCTGCTTTTGGTGCCAATGATTTCCATCGCATCTACATTGGTTGATCCAAGGCCAGAGAAGAC
GATGAGCTGGCTAGACAGGCACTTAGTCATTAACCACCAAACCTCTACCTCTTCTCTCCTTGACT
GTCACCTGCAAGGCAGTTTGTCTGTGCGACTTCCTTTTCTTTGTAGACAGGTTGTCCTGTCTAATAG
CTAGATGACTTTGGGGGAAAGGACTGGTAATGCAAGTCTTGGGTTTTAGAATGAATTACAAACA
ACTTTTATTTGTCTCCTCTACCAGCTTTGTGTATTTCTGCTTTTAGACTTTTGTATCTTCTTCAGG
CCCACTGTATAATCTTGGATTGTTCAATTCCTCCTGAGGAAGTCAAATTGGTATTTGTGACACAGAG
AAAGGAACACATGGAGACACATGGCTACTTGTGGGTGATCTTTAGAAATAAGCTGTCTACGAG
CATAAATAGTACTTGATTTGGGCAGTAACTTTTGTACACTTGGGTTATAAAATGGTATCATTGTG
CTGCTGTTTCCTGGATGGTTTGAAGCCTTAATGAAATTTATGTCCAGGATGATTCAAGTCCATTCTT
ATTGACTAGCTAAGTAATTTGTTAAGGTCAGCTGGCTTCCTTGTTATTTAAGTTTTAAATGTTCTGC

TCACTGATATCTTTAAATTTTGTGAGGCCAGAATAATTTCAAATACTATATCCCCTTTTATCTTATAA
TGA ACTCACAATTGGAAAGGATGGCATGCAGGACTGAGATGGTAAAGAGATCTTCTGGGTGCTC
GGGGA ACTTGTTCAGGGAGGCCTTGGTGAGCTATGAATTACTCTCATCTGCCTGTCCACAGGGG
TTGTTGTGGCTCTTGT TTTCCAGAAGATTCTCTGTAATGTTTCTATTGGACTTTATACTCCACAAGC
TTCAATTAAAGCAGGATTCAGTT

Note: At the beginning and end of sequence, the grey shadow represented 5'-UTR and 3'-UTR, respectively. The initiation codon (ATG) and stop codon (TGA) were marked with yellow shadow in exon 2 and exon 20, respectively. The SNP1 (A-1027G) and SNP2 (C-975A) were shown in exon 1.