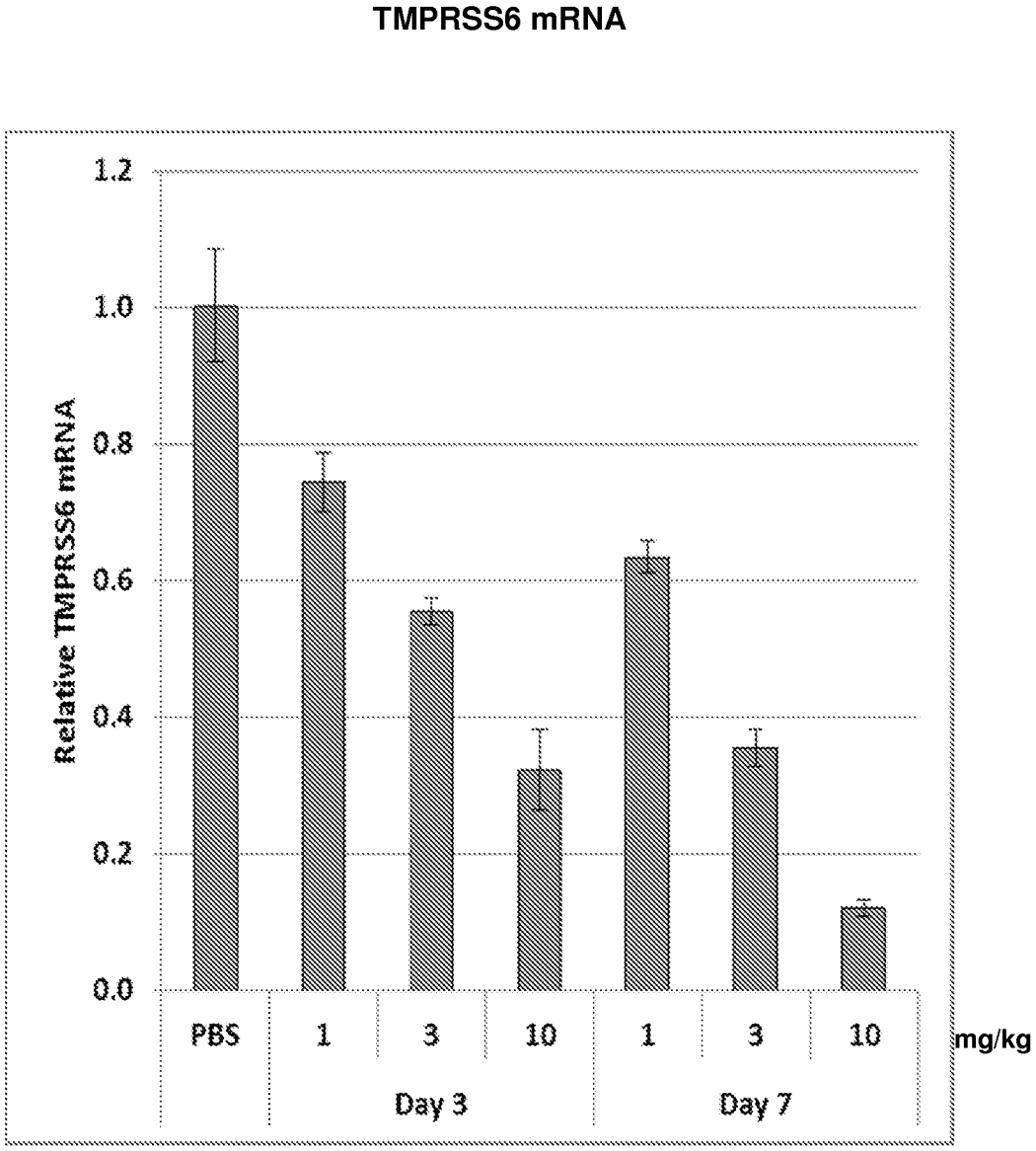

TMPRSS6 mRNA
Relative TMPRSS6 mRNA
1.2
1.0
0.8
0.6
0.4
0.2
0.0
PBS
1
3
10
1
3
10
mg/kg
Day 3
Day 7

Figure 1

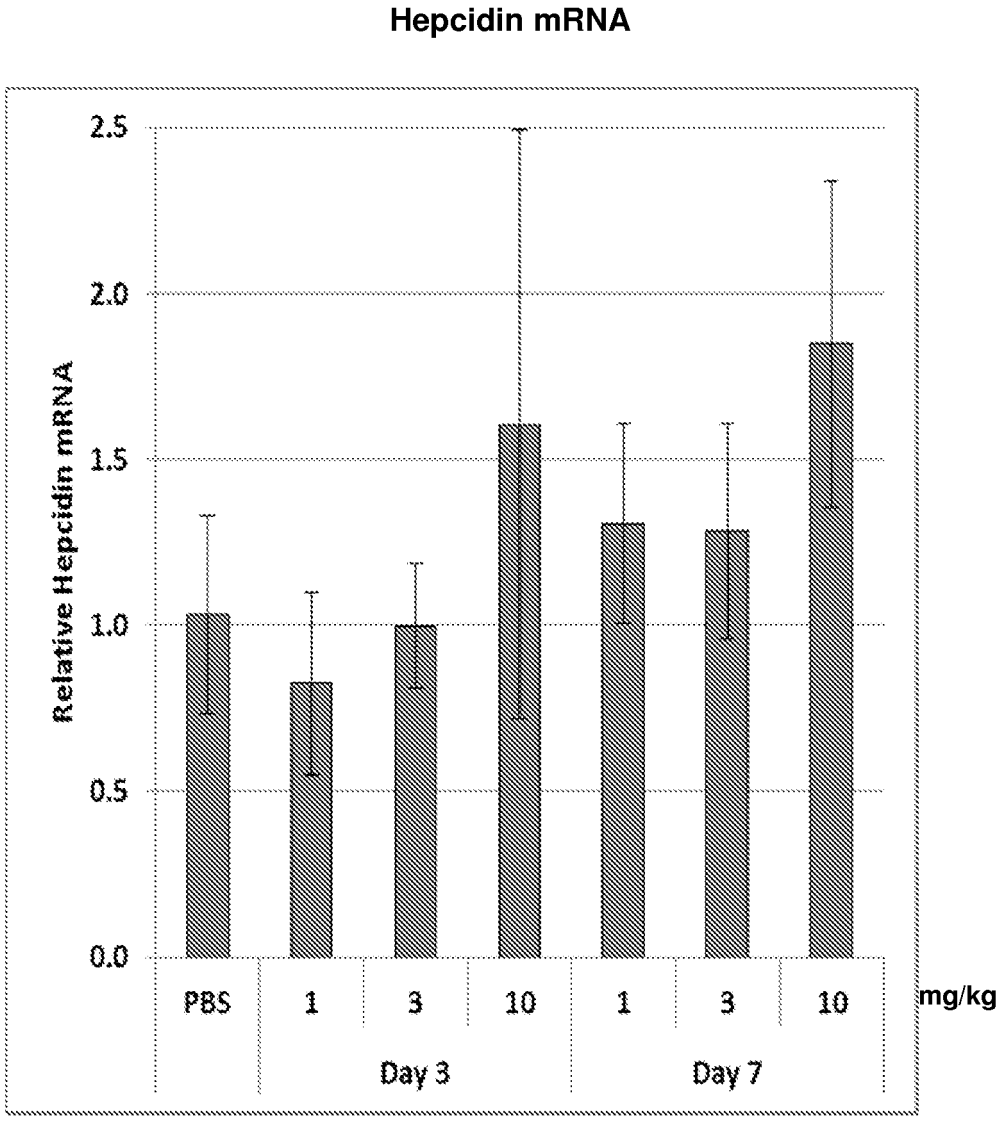

Hepcidin mRNA
Relative Hepcidin mRNA
2.5
2.0
1.5
1.0
0.5
0.0
PBS
1
3
10
1
3
10
mg/kg
Day 3
Day 7

Figure 2

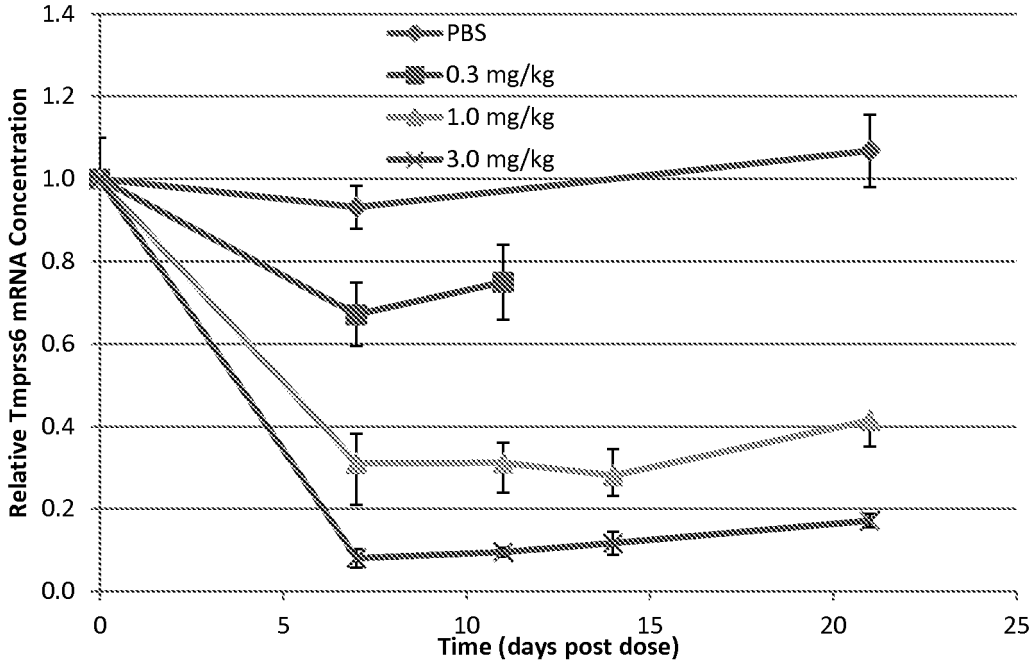


Figure 3A

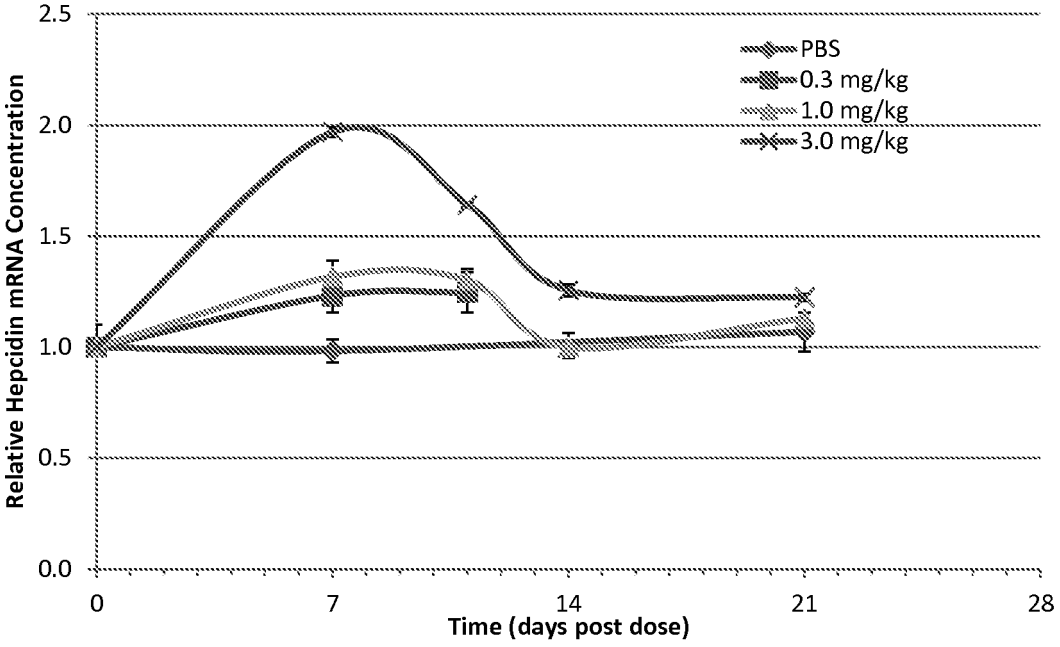


Figure 3B

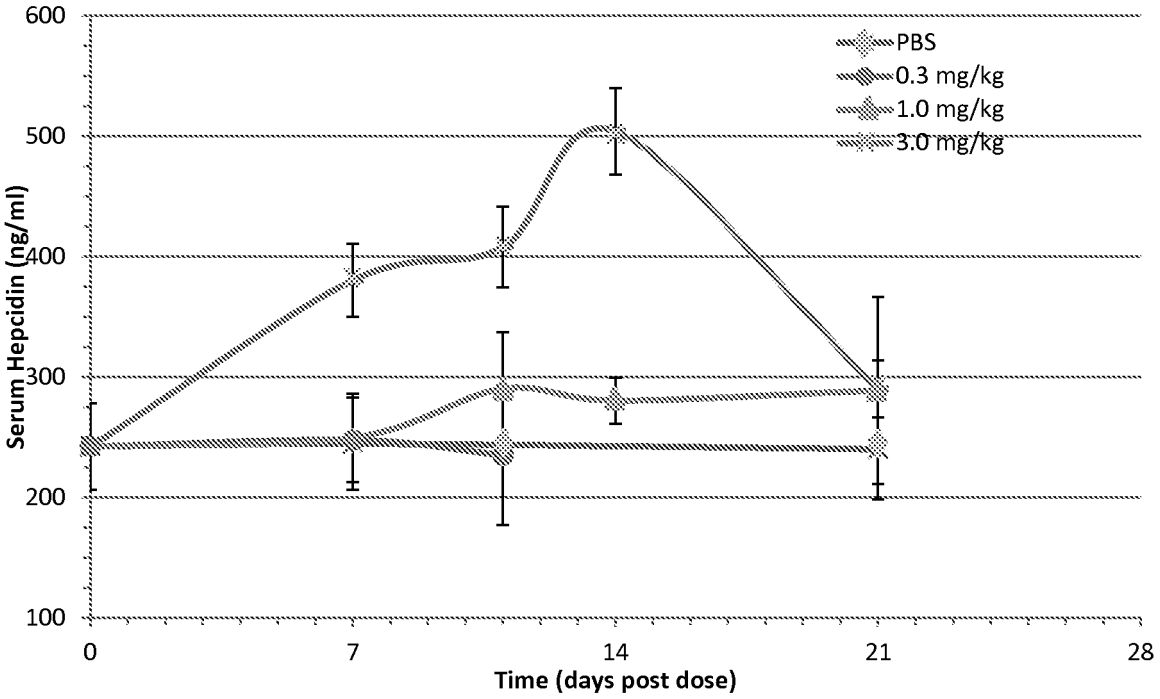


Figure 3C

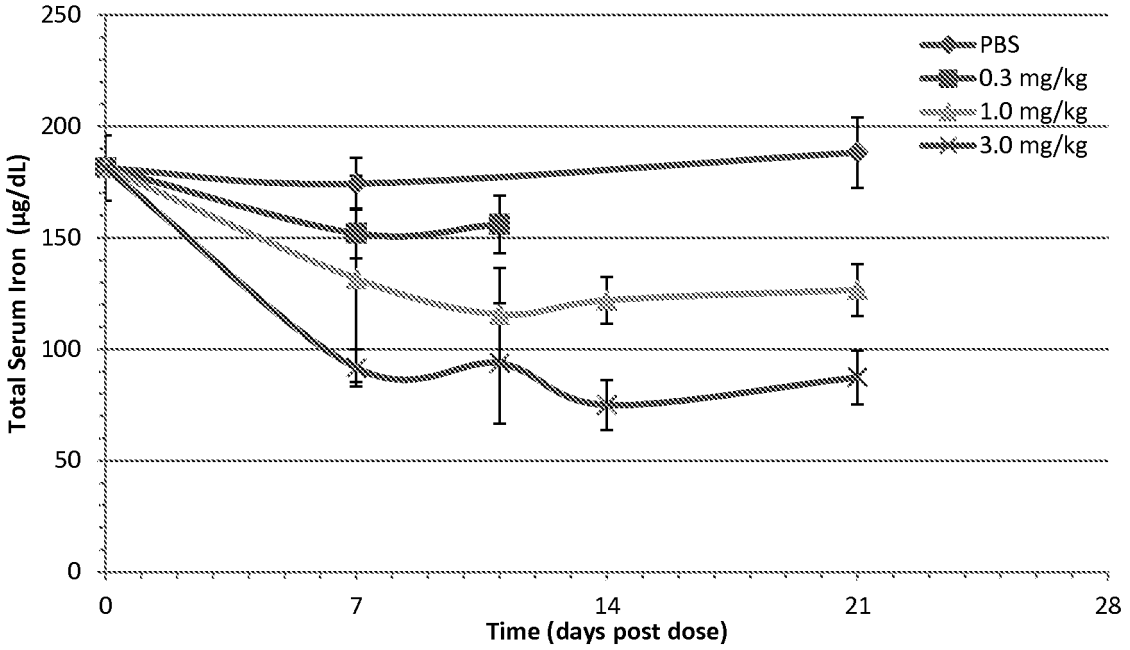


Figure 3D

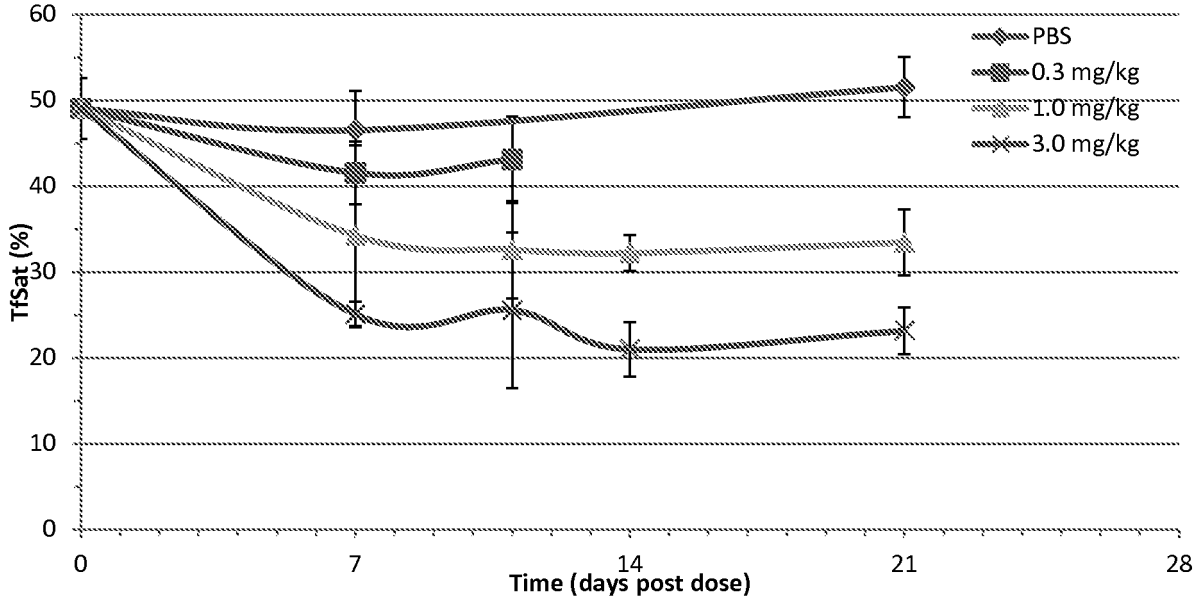


Figure 3E

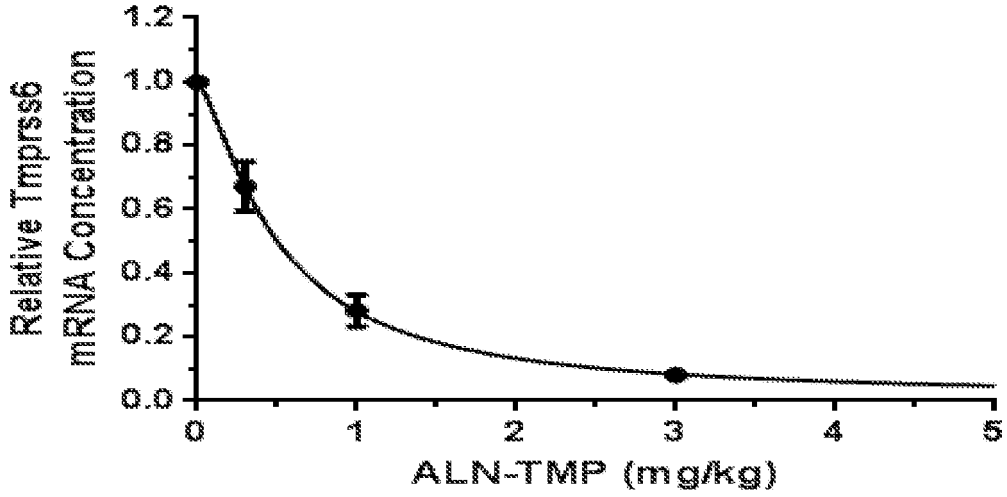


Figure 3F

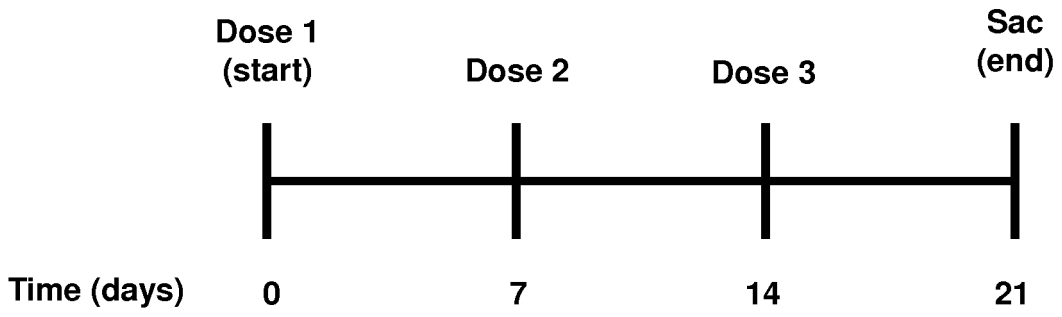


Figure 4A

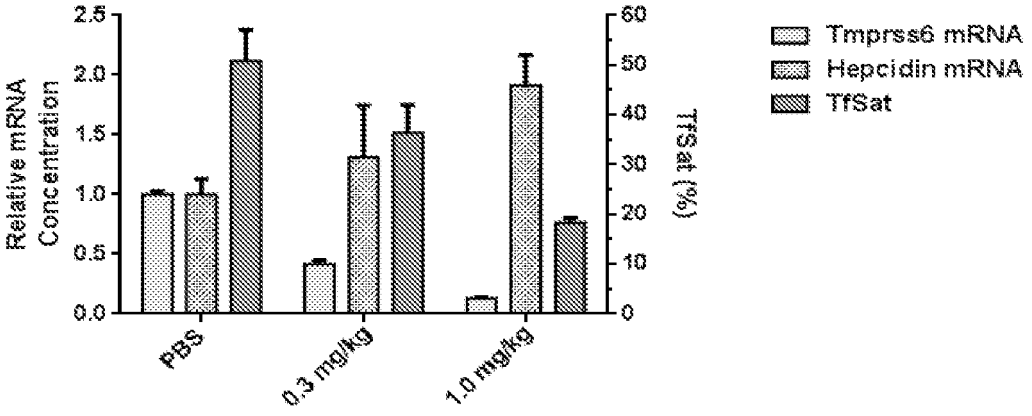


Figure 4B

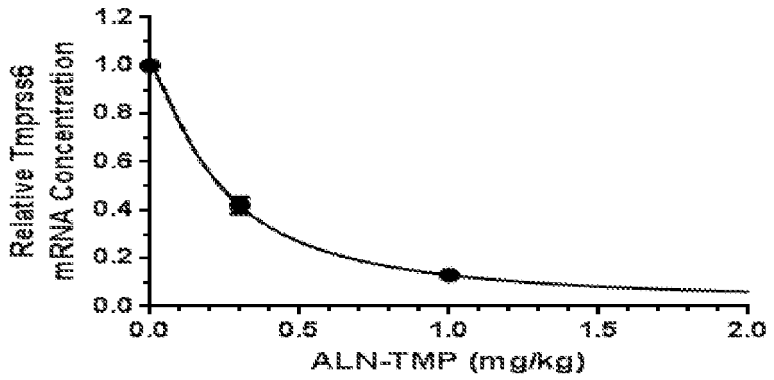


Figure 4C

Figure 5A

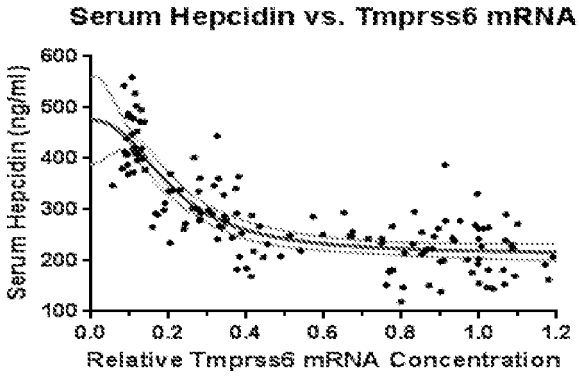


Figure 5B

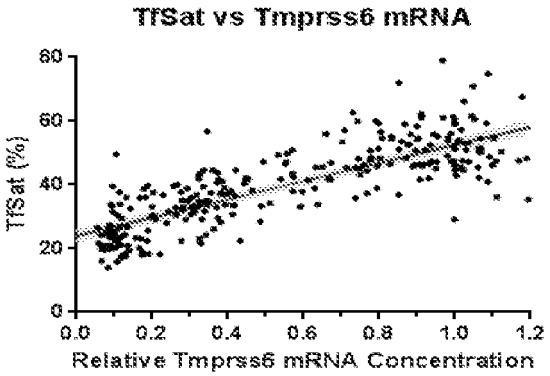


Figure 5C

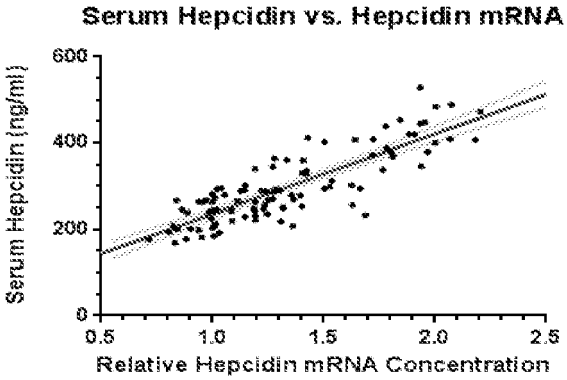
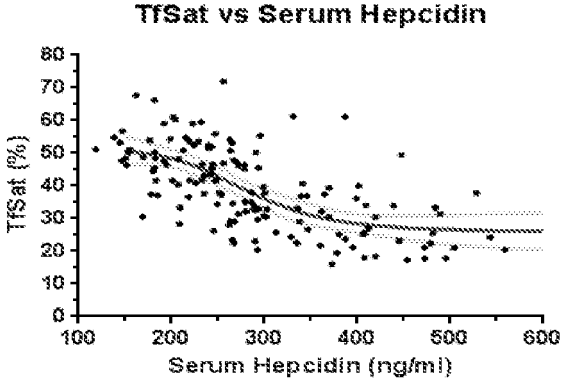


Figure 5D



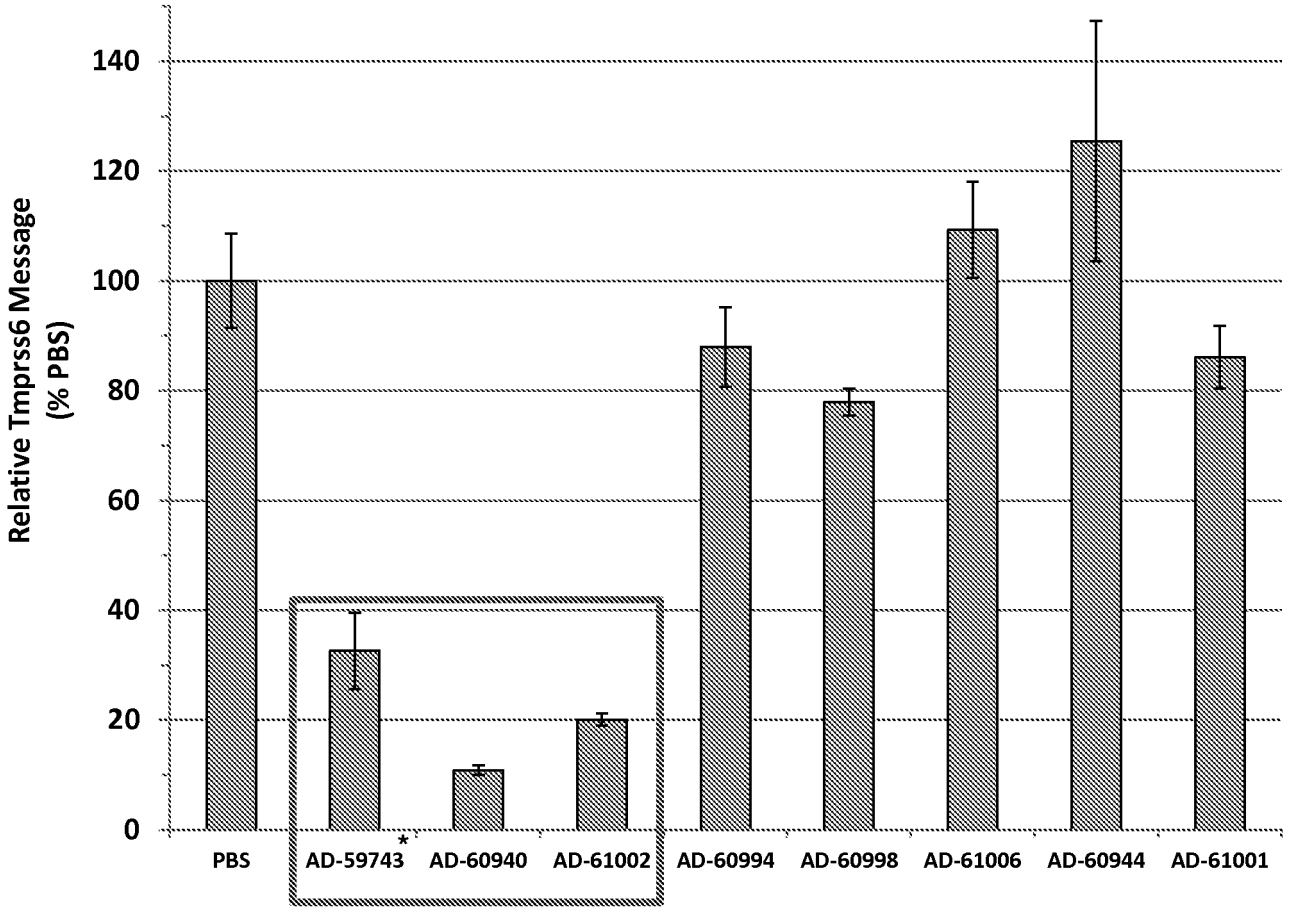

Relative Tmprss6 Message (% PBS)
140
120
100
80
60
40
20
0
*
PBS
AD-59743
AD-60940
AD-61002
AD-60994
AD-60998
AD-61006
AD-60944
AD-61001

Figure 6

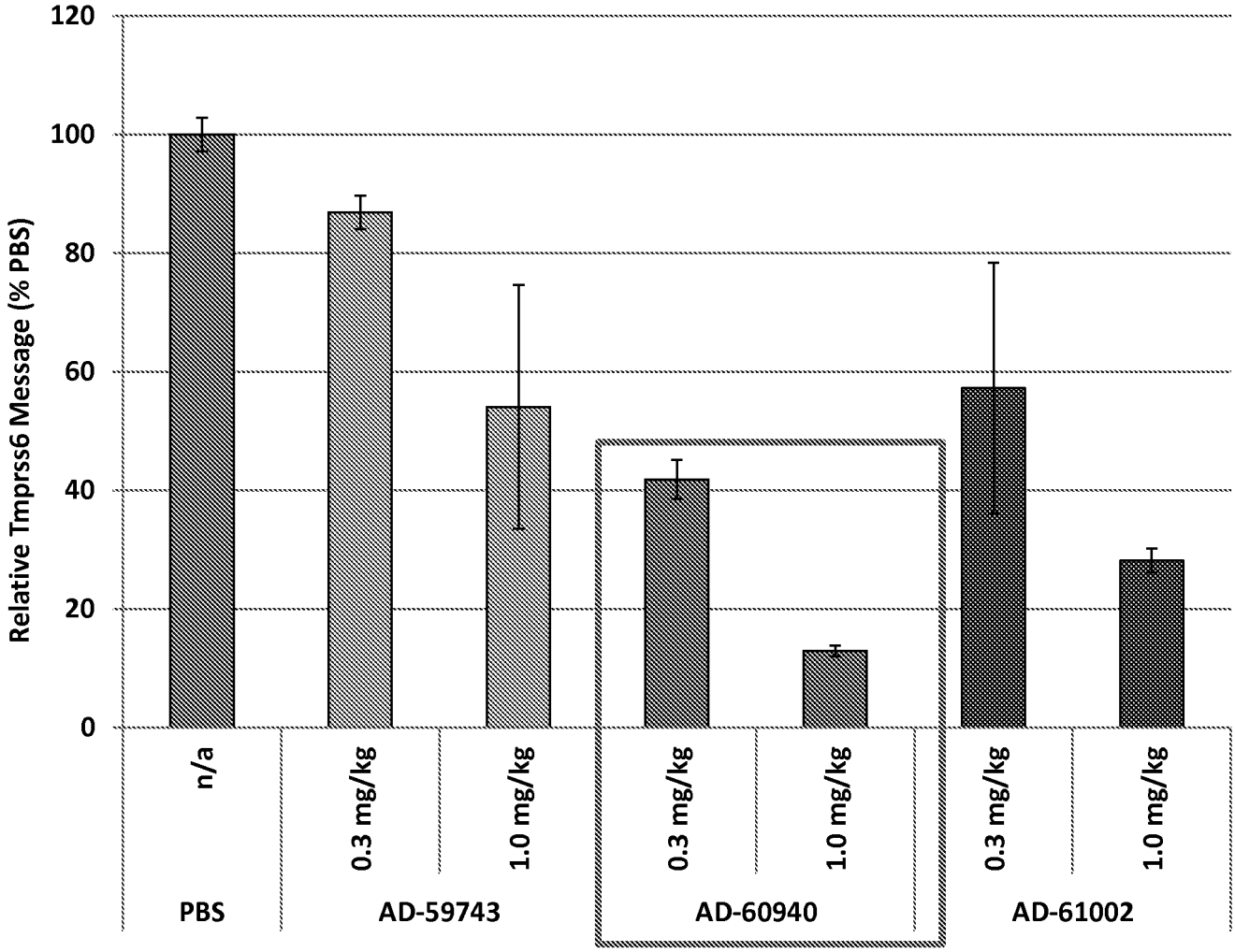

120
100
80
60
40
20
0
Relative Tmprss6 Message (% PBS)
n/a
0.3 mg/kg
1.0 mg/kg
0.3 mg/kg
1.0 mg/kg
0.3 mg/kg
1.0 mg/kg
PBS
AD-59743
AD-60940
AD-61002

Figure 7

SEQ ID NO:1
>gi|56682967|ref|NM_153609.2| Homo sapiens transmembrane protease, serine 6 (TMPRSS6), mRNA

CTTGAGCCAGACCCAGTCCAGCTCTGGTGCCTGCCCTCTGGTGCGAGCTGACCTGAGATGCACTTCCCTC
CTCTGTGAGCTGTCTCGGCACCCACTTGCAGTCACTGCCGCCTGATGTTGTTACTCTTCCACTCCAAAAG
GATGCCCGTGGCCGAGGCCCCCCAGGTGGCTGGCGGGCAGGGGGACGGAGGTGATGGCGAGGAAGCGGAG
CCGGAGGGGATGTTCAAGGCCTGTGAGGACTCCAAGAGAAAAGCCCGGGGCTACCTCCGCCTGGTGCCCC
TGTTTGTGCTGCTGGCCCTGCTCGTGCTGGCTTCGGCGGGGGTGCTACTCTGGTATTTCCTAGGGTACAA
GGCGGAGGTGATGGTCAGCCAGGTGTACTCAGGCAGTCTGCGTGTACTCAATCGCCACTTCTCCCAGGAT
CTTACCCGCCGGGAATCTAGTGCCTTCCGCAGTGAAACCGCCAAAGCCCAGAAGATGCTCAAGGAGCTCA
TCACCAGCACCCGCCTGGGAACTTACTACAACTCCAGCTCCGTCTATTCCTTTGGGGAGGGACCCCTCAC
CTGCTTCTTCTGGTTCATTCTCCAAATCCCCGAGCACCGCCGGCTGATGCTGAGCCCCGAGGTGGTGCAG
GCACTGCTGGTGGAGGAGCTGCTGTCCACAGTCAACAGCTCGGCTGCCGTCCCCTACAGGGCCGAGTACG
AAGTGGACCCCGAGGGCCTAGTGATCCTGGAAGCCAGTGTGAAAGACATAGCTGCATTGAATTCCACGCT
GGGTTGTTACCGCTACAGCTACGTGGGCCAGGGCCAGGTCCTCCGGCTGAAGGGGCCTGACCACCTGGCC
TCCAGCTGCCTGTGGCACCTGCAGGGCCCCAAGGACCTCATGCTCAAACTCCGGCTGGAGTGGACGCTGG
CAGAGTGCCGGGACCGACTGGCCATGTATGACGTGGCCGGGCCCCTGGAGAAGAGGCTCATCACCTCGGT
GTACGGCTGCAGCCGCCAGGAGCCCGTGGTGGAGGTTCTGGCGTCGGGGGCCATCATGGCGGTCGTCTGG
AAGAAGGGCCTGCACAGCTACTACGACCCCTTCGTGCTCTCCGTGCAGCCGGTGGTCTTCCAGGCCTGTG
AAGTGAACCTGACGCTGGACAACAGGCTCGACTCCCAGGGCGTCCTCAGCACCCCGTACTTCCCCAGCTA
CTACTCGCCCCAAACCCACTGCTCCTGGCACCTCACGGTGCCCTCTCTGGACTACGGCTTGGCCCTCTGG
TTTGATGCCTATGCACTGAGGAGGCAGAAGTATGATTTGCCGTGCACCCAGGGCCAGTGGACGATCCAGA
ACAGGAGGCTGTGTGGCTTGCGCATCCTGCAGCCCTACGCCGAGAGGATCCCCGTGGTGGCCACGGCCGG
GATCACCATCAACTTCACCTCCCAGATCTCCCTCACCGGGCCCGGTGTGCGGGTGCACTATGGCTTGTAC
AACCAGTCGGACCCCTGCCCTGGAGAGTTCCTCTGTTCTGTGAATGGACTCTGTGTCCCTGCCTGTGATG
GGGTCAAGGACTGCCCCAACGGCCTGGATGAGAGAAACTGCGTTTGCAGAGCCACATTCCAGTGCAAAGA
GGACAGCACATGCATCTCACTGCCCAAGGTCTGTGATGGGCAGCCTGATTGTCTCAACGGCAGCGACGAA
GAGCAGTGCCAGGAAGGGGTGCCATGTGGGACATTCACCTTCCAGTGTGAGGACCGGAGCTGCGTGAAGA
AGCCCAACCCGCAGTGTGATGGGCGGCCCGACTGCAGGGACGGCTCGGATGAGGAGCACTGTGACTGTGG
CCTCCAGGGCCCCTCCAGCCGCATTGTTGGTGGAGCTGTGTCCTCCGAGGGTGAGTGGCCATGGCAGGCC
AGCCTCCAGGTTCGGGGTCGACACATCTGTGGGGGGGCCCTCATCGCTGACCGCTGGGTGATAACAGCTG
CCCACTGCTTCCAGGAGGACAGCATGGCCTCCACGGTGCTGTGGACCGTGTTCCTGGGCAAGGTGTGGCA
GAACTCGCGCTGGCCTGGAGAGGTGTCCTTCAAGGTGAGCCGCCTGCTCCTGCACCCGTACCACGAAGAG
GACAGCCATGACTACGACGTGGCGCTGCTGCAGCTCGACCACCCGGTGGTGCGCTCGGCCGCCGTGCGCC
CCGTCTGCCTGCCCGCGCGCTCCCACTTCTTCGAGCCCGGCCTGCACTGCTGGATTACGGGCTGGGGCGC
CTTGCGCGAGGGCGGCCCCATCAGCAACGCTCTGCAGAAAGTGGATGTGCAGTTGATCCCACAGGACCTG
TGCAGCGAGGTCTATCGCTACCAGGTGACGCCACGCATGCTGTGTGCCGGCTACCGCAAGGGCAAGAAGG
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CAGAGAGCCCAGGGCAACTGCCAAGCAGGGGGACAAGTATTCTGGCGGGGGGTGGGGGAGAGAGCAGGCC
CTGTGGTGGCAGGAGGTGGCATCTTGTCTCGTCCCTGATGTCTGCTCCAGTGATGGCAGGAGGATGGAGA
AGTGCCAGCAGCTGGGGGTCAAGACGTCCCCTGAGGACCCAGGCCCACACCCAGCCCTTCTGCCTCCCAA
TTCTCTCTCCTCCGTCCCCTTCCTCCACTGCTGCCTAATGCAAGGCAGTGGCTCAGCAGCAAGAATGCTG
GTTCTACATCCCGAGGAGTGTCTGAGGTGCGCCCCACTCTGTACAGAGGCTGTTTGGGCAGCCTTGCCTC
CAGAGAGCAGATTCCAGCTTCGGAAGCCCCTGGTCTAACTTGGGATCTGGGAATGGAAGGTGCTCCCATC
GGAGGGGACCCTCAGAGCCCTGGAGACTGCCAGGTGGGCCTGCTGCCACTGTAAGCCAAAAGGTGGGGAA
GTCCTGACTCCAGGGTCCTTGCCCCACCCCTGCCTGCCACCTGGGCCCTCACAGCCCAGACCCTCACTGG
GAGGTGAGCTCAGCTGCCCTTTGGAATAAAGCTGCCTGATCAAAAAAAAAAAAAAAAAAAAA

Figure 8

SEQ ID NO:2
>gi|125656151|ref|NM_027902.2| Mus musculus transmembrane serine protease 6 (Tmprss6), mRNA

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GGGCCAGACACCCCAGCCATGGCTCCAGGCCATTGATCCAACCTAAGCTGGCCAGTTGGGGGTGGAAAGA
CCTTGGCCTGGATAAACAGAGGCCTCCAGGCCTGTGTGCAGGCCCGGCACCTACCTTCCACTCTTGAAGA
TGCCGAGATGTTTCCAGCTCCCCTGTTCTACCAGGATGCCCACCACCGAGGTCCCCCAAGCGGCTGATGG
TCAGGGCGATGCGGGTGATGGAGAGGAAGCTGCTGAGCCAGAGGGGAAGTTCAAGCCCCCAAAAAACACC
AAGAGAAAAAACCGGGACTACGTCCGCTTCACGCCACTGTTGCTGGTCTTGGCTGCGCTGGTCTCAGCAG
GGGTCATGCTTTGGTATTTCCTAGGGTACAAAGCGGAAGTGACCGTAAGCCAGGTGTACTCTGGCAGCCT
CCGGGTGCTCAACCGTCATTTCTCCCAGGACCTGGGCCGACGGGAGTCTATTGCTTTCCGCAGTGAATCT
GCCAAAGCCCAGAAGATGCTCCAAGAACTGGTTGCCAGCACCCGCCTGGGTACTTACTACAACTCTAGTT
CTGTCTACTCCTTTGGGGAGGGACCCCTCACCTGCTTCTTCTGGTTTATCCTTGACATCCCTGAGTACCA
GCGACTGACCCTGAGCCCTGAAGTAGTGCGCGAGCTCCTGGTGGATGAGCTACTGTCCAACAGCTCAACC
CTGGCTTCCTATAAGACCGAATATGAGGTGGACCCGGAAGGCCTGGTGATCCTGGAAGCCAGTGTGAACG
ACATAGTCGTACTGAATTCCACGCTGGGCTGTTATCGCTACAGCTATGTGAACCCAGGCCAGGTCCTCCC
ATTGAAGGGGCCTGACCAGCAGACCACAAGCTGCCTGTGGCATCTGCAAGGGCCCGAAGACCTCATGATC
AAAGTGCGGCTGGAGTGGACCCGGGTCGATTGCAGAGACAGGGTGGCGATGTACGACGCAGCTGGGCCCC
TGGAGAAGAGACTTATCACCTCGGTCTATGGGTGCAGCCGCCAGGAACCTGTGATGGAGGTGCTGGCATC
GGGCTCCGTCATGGCCGTGGTGTGGAAAAAGGGCATGCATAGCTACTATGACCCTTTCCTGCTCTCAGTG
AAGTCTGTGGCCTTCCAGGACTGCCAGGTGAACCTGACACTGGAGGGCCGGCTGGACACACAGGGCTTCC
TCCGTACACCCTACTACCCCAGTTACTACTCTCCCAGTACCCACTGCTCCTGGCATCTCACGGTACCCTC
TCTGGACTACGGCTTGGCGCTCTGGTTCGATGCCTACGCACTGAGGAGGCAGAAGTACAACCGACTGTGT
ACTCAGGGCCAGTGGATGATCCAGAACAGGAGGCTGTGTGGCTTCCGTACCCTGCAGCCATATGCTGAGA
GGATCCCCATGGTGGCCTCAGATGGTGTCACCATCAACTTCACCTCCCAGATCTCCCTCACAGGCCCGGG
TGTGCAAGTGTACTACAGCTTGTACAACCAATCAGACCCCTGCCCTGGTGAGTTCCTCTGCTCTGTGAAT
GGACTGTGTGTCCCTGCGTGTGACGGGATCAAGGACTGCCCCAATGGCCTGGATGAGAGAAACTGTGTCT
GCAGAGCCATGTTCCAGTGCCAAGAGGACAGCACGTGCATTTCACTGCCTAGAGTCTGTGACCGGCAGCC
CGACTGTCTCAATGGCAGTGACGAAGAACAGTGCCAAGAAGGAGTGCCCTGTGGGACATTCACTTTCCAG
TGTGAGGACCGGAGCTGTGTGAAGAAGCCCAACCCAGAGTGTGACGGCCAGTCAGATTGCAGAGACGGCT
CAGATGAGCAACACTGTGACTGTGGCCTCCAGGGCCTCTCCAGCCGTATTGTGGGCGGGACCGTGTCCTC
CGAGGGTGAGTGGCCATGGCAGGCCAGCCTCCAGATTCGGGGTCGACACATCTGTGGGGGGGCTCTCATC
GCTGACCGCTGGGTCATAACGGCCGCCCACTGCTTCCAGGAGGACAGCATGGCCTCCCCGAAGCTGTGGA
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GTTCCTGCACCCGTACCACGAGGAGGACAGCCATGACTACGACGTGGCCCTGCTGCAGCTCGACCACCCC
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CGTACAGCTGGTCCCTCAGGACCTCTGCAGTGAGGCCTACCGCTACCAGGTGTCCCCACGCATGCTCTGT
GCTGGCTACCGCAAGGGCAAGAAAGATGCCTGCCAGGGTGACTCTGGAGGCCCACTGGTTTGCAGGGAGC
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CGTCTACACCCGTGTCACACGTGTGATCAACTGGATCCAGCAGGTGCTGACCTGAGGGCTGTTCTACAGA
GCTGGACCTGCCTCCAGGCCAAGTTCAGGGTGTCCACCCAGCCAGGACACAAGTATTCTGGGGCAAGTGA
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TTCCCCTCCCTGCTCCTACCACTGTTTTGGAGTGGGGTCTGGCGGCCATGACCTTGGCCTCCGGGTCTCT
GTAGGAAAGAAAGAATCCTTCCCCTTGCAAAAGCCTCTTGGGGGAACTGCACAGAGAAAGAAGGTGCCTC
TATCAAGGCTCTATCAGAGCCCTTGAGTCTGCCAAGTGGGCTGTACTCTAAGCCAAATCACCGGGCAGCC
TCAGCTGCAGATGCCTGCTGAAGCTCTGCCTGCTACAGGGGCCTCCCTGCCATTCACTGGAGGCCCACTG
TCTGTTCTGGGAATAAAGCACTTGACCAAGCCCTGACACTGAAAAAAAAAAAAAAA

Figure 9

SEQ ID NO:3
>gi|194474097|ref|NM_001130556.1| Rattus norvegicus transmembrane protease, serine 6 (Tmprss6), mRNA

ATTGTCCGTCCTGGACCTGACAGGAGGCCCATGGAACTTGGGGCCACAGGCCACGAGGGACAAGGGCCAG
ACACCCCAGTCATGGTTCCAGGCTATTGATCCAACCTAAGCTGGCCAGTTGTGGGTGGAGAGACCTTGGC
CTGGATAAACAGAGGCCTCCAGGCCTGTGTTCAGGCCCAGCACCTACCTTCCACTCTTGAAGATGCCAAG
ATGTTTCCAGCTCCCCTGTTCTACCAGGATGCCCACCGCTGAGGTTCCCCAAGCAGCTGGTGGTCAGGGT
GATGGAGGTGATGGAGAGGAAGCTGCAGAGCCAGAGGGGGTGTTCAAGGCCCCCAGAAACGCCAAGAGAA
AAGACAGGGACTACGTCCGCTTCACACCACTGTTGCTGGTCTTGGCTGCGTTGGCTTCGGCAGGAGTCAT
GCTCTGGTATTTCCTAGGGTACAAGGCGGAAGTGACCATAAGCCAGGTGTACTCTGGCAGCCTCCGGGTG
CTCAACCGCCATTTTTCACAGGACTTGGCCCGACGGGAGTCTATTGCTTTCCGCACTGAAACTGCCAAAG
CCCAGAAGATGTTCCAAGAGCTGGTTGCCAGCACCCGCTTGGGTACTTACTACAACTCCAGTTCCATCTA
CGCCTTTGGGGAGGGACCCCTTATCTGCTTCTTCTGGTTCATCCTTGACATCCCCGAGTACCAGCGACTG
ACCCTGAGCCCTGAGGTGGTGCGCGAGCTCCTGGTGGGTGAGCTACTGTCCAACAGCTCAGCCTTGGCTT
CCTATAGGACCGAATATGAGGTGGACCCGGAAGGCCTGGTGATACTAGAAGCCAGCGTGAACGACATAGT
CGTACTGAATTCCACGCTGGGCTGTTACCGCTACAGCTACGTGAACCCGGGCCAGGTCCTCCGGTTGAGG
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TGGCCTTCCAGGACTGCCAGGTGAACCTGACCCTGGAAGGCCGGCTGGATCCACAGGGCTTCCTCCGTAC
ACCCTACTACCCCAGTTACTACTCGCCCAGTACCCACTGCTCCTGGCATCTCACGGTTCCCTCTCTGGAC
TATGGCTTGGCACTCTGGTTTGACGCCTATGCACTGAGGAGGCAGAAGTACAACCTACTATGTACTCAGG
GCCAGTGGATGATCCAGAACAGGAGGCTATGTGGCTTCCGTACCCTGCAGCCATATGCTGAGAGGATCCC
CGTGGTGGCCTCGGATGGTATCACCATCAACTTCACCTCCCAGATCTCCCTCACAGGCCCGGGTGTGCAA
GTGTACTACAGCTTGTACAACCAATCAGACCCCTGCCCTGGAGAGTTCCTCTGCTCTGTGAATGGATTGT
GTGTCCCTGCTTGTGACGGAATCAAGGACTGCCCCAACGGCCTGGATGAGAGGAACTGTGTCTGCAGAGC
CATGTTCCAGTGCCAAGAGGACAGCACGTGCATCTCACTGCCGAGAGTCTGTGACCGGCAGCCCGACTGT
CTCAATGGTAGCGACGAAGAGCAGTGCCAAGAAGGAGTGCCCTGTGGGACATTCACTTTCCAGTGTGAGG
ACCGGAGCTGTGTGAAGAAGCCCAACCCCGAGTGTGACGGGCAGGCAGACTGCAGGGATGGCTCGGATGA
GGAGCACTGTGACTGTGGCCTCCAGGGCCCCTCCAGCCGCATTGTGGGCGGGGCCATGTCCTCGGAGGGT
GAGTGGCCCTGGCAGGCCAGTCTCCAGATTCGGGGTCGACACATCTGTGGGGGGGCTCTCATCGCTGACC
GCTGGGTCATAACAGCCGCTCACTGCTTCCAGGAGGACAGCATGGCCTCCCCGAGGCTGTGGACCGTGTT
TCTGGGAAAGATGCGGCAGAATTCACGCTGGCCGGGCGAGGTGTCCTTCAAGGTGAGCCGCCTGTTCCTG
CACCCGTATCATGAGGAGGACAGCCATGACTACGACGTGGCCCTGCTGCAGCTGGACCACCCTGTGGTGT
ACTCGGCCACCGTGCGCCCCGTCTGCCTGCCCGCACGCTCTCACTTCTTTGAGCCAGGCCAGCACTGCTG
GATCACAGGCTGGGGAGCCCAGCGAGAGGGTGGTCCTGGTAGCAGCACCCTTCAGAAGGTGGATGTGCAA
CTGATCCCTCAGGACCTGTGCAATGAGGCCTACCGTTACCAGGTGACCCCACGCATGCTCTGTGCTGGTT
ATCGCAAGGGCAAGAAAGATGCCTGCCAGGGCGACTCTGGAGGCCCACTGGTTTGCAAGGAGCCCAGGTG
ACCACCCAGCCAGGGCACAAGTATTCTGGGGCGAGCGACCCTGCTAAGGCCTGTCCCCTCATGCCTACCC
CAGGGACAGTACAGAGAAGGATGTCAGCTGGTGGTTAGGATGCCTCCAGGGGCTAGCCTCAGCTCGGCTT
CACTTCCAACCCTTTCTTATTCTAGTCCTTTCCCCTCTCCCCTCCTACTGCTGTTTTGGGGTGGGGTCTG
GTGGCAATGATGCTGGTTCCAAGGTCTGTGGGAAAGTAAGATTCCTTCCCCTTGCAAAAGCCTCTAGGGG
GAACTGGATCCGAGAAAGAAGGTGCCTCTATCAAGGCTCTGTCAGAGCCCTTGAGACTGCCAAGTAGGGC
CATACCGTAAGCCAAATCATGGGGCAGCCTCAGCTGCGGGTGCCTGCTGTGCTCTGCCTGCTACAGGGCC
CTCCCTGCCATTCACTGGAGGCCCACTGTCTGTTCCGGAAATAAAGCAGTTGGCCAAGC

Figure 10

SEQ ID NO:4
>gi|297260989|ref|XM_001085203.2| PREDICTED: Macaca mulatta
transmembrane protease, serine 6, transcript variant 3 (TMPRSS6), mRNA
CAGGATGCCTGTGGCCAAGGCCCCCCAGGTGGCTGGTGGGCAGGGGGACGGAGGTGATGGCGAGGAAGCG
GAGCCAGAGGGGATGTTCGAGGCCCGTGAGGACTCCAAGAGAAAAGCCCGGGGCTACCTCCGCCTGGCGC
CCCTGTGGCTGACCCTGGTTGTGCTGACTTCAGTGGGGGTGCTACTCTGGTATTTCCTAGGGTACAAGGC
GGAGGTGACGGTCAGCCAGGTGTACTCAGGCAGCCTGCGCGTGCTCAATCGCCACTTCTCCCAGGATCTT
ACCCGCCGGGAATCCAGTGCCTTCCGCAGTGAAACCGCCAAAGCCCAGAAGATGCTCAAGGAGCTCATCG
CCAGCACCCGCCTGGGAACTTATTACAACTCCAGCTCCGTCTATTCCTTTGGGGAGGGACCGCTCACCTG
CTTCTTCTGGTTCATTCTCCAAATCCCCGAGCACCGCCGGCTGATGCTGAGCCCCGAGGTGGTGCAGGCA
CTGCTGGTGGAGGAGCTGCTGTCCACAGTCAACAGCTCGGCGGCTGTCCCCTACAGGGCCGAGTACGAAG
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TGGCTGCAGCCGCCAGGAGCCTGTGGTGGAAGTCCTGGCATCGGGGGCCATCATGGCGGTGGTCTGGAAG
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TAAACCTGACGCTGGATGACAGGCTGGACTCCCAGGGCGTCCTCAGCACCCCGTACTTCCCCAGCTACTA
CTCGCCCCGAACCCACTGCTCCTGGCACCTCACGGTGCCCTCTCTGGACTACGGCTTGGCCCTCTGGTTT
GACGCCTACGCACTGCGGAGGCAGAAGTATGATTTGCCGTGCACCCAGGGCCAGTGGACGATCCAGAACA
GGAGGCTGTGTGGCCTGCGCATCCTGCAGCCTTACGCCGAGAGGATCCCCGTGGTGGCCACGGCCGGCAT
CACCATCAATTTCACCTCCCAGATCTCCCTCACAGGGCCTGGTGTGCGGGTGCACTATGGCTTGTACAAC
CAGTCGGACCCCTGCCCTGGAGAGTTCCTCTGCTCTGTGAACGGACTCTGCGTCCCTGCCTGTGATGGGG
TCAAGGACTGCCCCAACGGCCTGGATGAGAGAAACTGCGTTTGCAGAGCCACATTCCAGTGCCAAGAGGA
CAGCACGTGCATCTCACTGCTTAAGGTCTGTGACGGGCAGCCTGACTGTCTCAACGGCAGCGATGAAGAG
CGGTGCCAGGAAGGGGTGCCCTGCGGGACATTCACCTTCCAGTGTGAGGACCAGAGCTGCGTGAAGAAGC
CCAACCCACAGTGTGATGGGCGGCCCGACTGCAGGGACGGCTCAGACGAGCAGCACTGTGACTGTGGCCT
CCAGGGCCCCTCCAGTCGCATTGTTGGTGGGGCCGTGTCCTCCGAGGGTGAGTGGCCATGGCAGGCCAGC
CTCCAGGTTCGGGGTCGACACATCTGTGGGGGCGCCCTCATCGCTGACCGCTGGGTGATAACAGCTGCCC
ATTGCTTCCAGGAGGACAGCATGGCCTCCCCGGCGCTGTGGACGGTGTTCCTGGGCAAGGTGTGGCAGAA
CTCGCGCTGGCCTGGAGAGGTGTCCTTCAAGGTGAGCCGCCTACTCCTGCATCCGTATCACGAAGAGGAC
AGCCACGACTACGACGTGGCGCTGTTGCAGCTCGACCACCCGGTGGTGCGCTCGGCCGCCGTGCGTCCAG
TCTGCCTGCCCGCGCGCTCCCACTTCTTCGAACCCGGCCTGCACTGCTGGATCACTGGCTGGGGCGCCCT
GCGCGAAGGCGGCCCCCACCAGCAATGCTCTGCAGAAAGTGGACGTGCAGTTGATCCCACAGGACCTGTGC
AGCGAGGCCTATCGCTACCAGGTGACGCCACGCATGCTGTGTGCCGGCTACCGCAAGGGCAAGAAGGATG
CCTGCCAGGGTGACTCGGGTGGTCCGCTGGTATGCAAGGCACTCAGTGGCCGCTGGTTCCTGGCAGGGCT
GGTCAGCTGGGGCCTGGGCTGTGGCCGGCCTAACTACTTCGGCGTCTACACCCGCATCACAGGTGTGATC
GGCTGGATCCAGCAAGTGGTGACCTGAGGAACTGCCCCCCTGCAGAGCAGGTCCCACCTC

Figure 11

SEQ ID NO:5
>gi|109094061|ref|XM_001085319.1| PREDICTED: Macaca mulatta similar to transmembrane protease, serine 6, transcript variant 4 (LOC696094), mRNA

CTTGAGCCACACCCAGTCCAGCTCTGGTGCCTGCCCTCTGGGGTGAGCTGCCTTGAGATGCACTTCGCTC
CTCTGTGAACTGTCTCGGCACCCACTTCCGGTCACTGCCGCCTGATGTTGTTACTCTTCCACTCTGAAAG
GATGCCTGTGGCCAAGGCCCCCCAGGTGGCTGGTGGGCAGGGGGACGGAGGTGATGGCGAGGAAGCGGAG
CCAGAGGGGATGTTCGAGGCCCGTGAGGACTCCAAGAGAAAAGCCCGGGGCTACCTCCGCCTGGCGCCCC
TGTGGCTGACCCTGGTTGTGCTGACTTCAGTGGGGGTGCTACTCTGGTATTTCCTAGGGTACAAGGCGGA
GGTGACGGTCAGCCAGGTGTACTCAGGCAGCCTGCGCGTGCTCAATCGCCACTTCTCCCAGGATCTTACC
CGCCGGGAATCCAGTGCCTTCCGCAGTGAAACCGCCAAAGCCCAGAAGATGCTCAAGGAGCTCATCGCCA
GCACCCGCCTGGGAACTTATTACAACTCCAGCTCCGTCTATTCCTTTGGGGAGGGACCGCTCACCTGCTT
CTTCTGGTTCATTCTCCAAATCCCCGAGCACCGCCGGCTGATGCTGAGCCCCGAGGTGGTGCAGGCACTG
CTGGTGGAGGAGCTGCTGTCCACAGTCAACAGCTCGGCGGCTGTCCCCTACAGGGCCGAGTACGAAGTGG
ACCCCGAGGGCCTAGTGATCCTAGAAGCCAGTGTGAAAGACATAGCTGCACTGAATTCCACGCTGGGTTG
TTACCGCTACAGCTACGTGGGCCAGGGTCAGGTCCTCCGGCTGAAGGGACCCGACCACCTGGCCTCCAGC
TGCCTGTGGCACCTGCAGGGCCCCGAAGACCTCATGCTGAAACTCCGGCTGGAGTGGACGCTGGCCGAGT
GCCGGGACCGACTGGCCATGTATGACGTGGCTGGGCCCCTGGAGAAGAGGCTCATCACCTCGGTGTATGG
CTGCAGCCGCCAGGAGCCTGTGGTGGAAGTCCTGGCATCGGGGGCCATCATGGCGGTGGTCTGGAAGAAG
GGCCTGCACAGCTACTACGACCCCTTTATGCTCTCCGTGCAGTCGGTGGTCTTCCAGGCCTGCGAGGTAA
ACCTGACGCTGGATGACAGGCTGGACTCCCAGGGCGTCCTCAGCACCCCGTACTTCCCCAGCTACTACTC
GCCCCGAACCCACTGCTCCTGGCACCTCACGGTGCCCTCTCTGGACTACGGCTTGGCCCTCTGGTTTGAC
GCCTACGCACTGCGGAGGCAGAAGTATGATTTGCCGTGCACCCAGGGCCAGTGGACGATCCAGAACAGGA
GGCTGTGTGGCCTGCGCATCCTGCAGCCTTACGCCGAGAGGATCCCCGTGGTGGCCACGGCCGGCATCAC
CATCAATTTCACCTCCCAGATCTCCCTCACAGGGCCTGGTGTGCGGGTGCACTATGGCTTGTACAACCAG
TCGGACCCCTGCCCTGGAGAGTTCCTCTGCTCTGTGAACGGACTCTGCGTCCCTGCCTGTGATGGGGTCA
AGGACTGCCCCAACGGCCTGGATGAGAGAAACTGCGTTTGCAGAGCCACATTCCAGTGCCAAGAGGACAG
CACGTGCATCTCACTGCTTAAGGTCTGTGACGGGCAGCCTGACTGTCTCAACGGCAGCGATGAAGAGCGG
TGCCAGGAAGGGGTGCCCTGCGGGACATTCACCTTCCAGTGTGAGGACCAGAGCTGCGTGAAGAAGCCCA
ACCCACAGTGTGATGGGCGGCCCGACTGCAGGGACGGCTCAGACGAGCAGCACTGTGACTGTGGCCTCCA
GGGCCCCTCCAGTCGCATTGTTGGTGGGGCCGTGTCCTCCGAGGGTGAGTGGCCATGGCAGGCCAGCCTC
CAGGTTCGGGGTCGACACATCTGTGGGGGCGCCCTCATCGCTGACCGCTGGGTGATAACAGCTGCCCATT
GCTTCCAGGAGGACAGCATGGCCTCCCCGGCGCTGTGGACGGTGTTCCTGGGCAAGGTGTGGCAGAACTC
GCGCTGGCCTGGAGAGGTGTCCTTCAAGGTGAGCCGCCTACTCCTGCATCCGTATCACGAAGAGGACAGC
CACGACTACGACGTGGCGCTGTTGCAGCTCGACCACCCGGTGGTGCGCTCGGCCGCCGTGCGTCCAGTCT
GCCTGCCCGCGCGCTCCCACTTCTTCGAACCCGGCCTGCACTGCTGGATCACTGGCTGGGGCGCCCTGCG
CGAAGGCGGCCCCACCAGCAATGCTCTGCAGAAAGTGGACGTGCAGTTGATCCCACAGGACCTGTGCAGC
GAGGCCTATCGCTACCAGGTGACGCCACGCATGCTGTGTGCCGGCTACCGCAAGGGCAAGAAGGATGCCT
GCCAGGGTGACTCGGGTGGTCCGCTGGTATGCAAGGCACTCAGTGGCCGCTGGTTCCTGGCAGGGCTGGT
CAGCTGGGGCCTGGGCTGTGGCCGGCCTAACTACTTCGGCGTCTACACCCGCATCACAGGTGTGATCGGC
TGGATCCAGCAAGTGGTGACCTGAGGAACTGCCCCCCTGCAGAGCAGGTCCCACCTCTTGGACTCAGAGA
GCCCAGGGCAATTGCCAAGCAGGGGGACAAGTATTCTGGGGGGGAGGGGGGCGCGAGCAGGCCCTGTGGTG
GCAGGAGGTGGCATCTTGTCTTGTCCCTGATGTCTGCTCCAGTGATGGCAGGAGGATGGAGGAGTGCCAG
CAGCTGGGGGTCAAGACGTCCCCTAGGGACCCAGGCCCACACCCAGCCCTTCTGCCTCCCGATTCTCTCT
CCTCTGTCCCCTTCCTCCACTGCTGCCTATTGCAAGGAAGTGGCTCAGCAGCAAGAATGCTGGCTCTACG
TCCCCAGGAGTGTCTGAGCTGTGCCCCACTCTGTACAGAGGCTGCTTGGGCAGCCTTGCCTCTAGAGAGC
AGATGCCAGCTTCGGAAGCCCCTGGTCTAACTTGGGATCTGGGAATGGAAGGTGCCCCCATAGGAGGGGA
CCCTCACAGCCCCGGGGACTGCCAGGTGGGCCGGCTGCCACCGTAAGCCAAAAAAGGTGGGGAAGCCCTG
ACTCCAAGGTCCTTGCCCCACCCCTGCCTGCCACCTGGCCCCTCACAGCCCAGACCCTCACCGGCAGGTG
AGCTCAGCTGCCCTTTGGAATAAAGCTGCCTGATCCAA

Figure 12

SEQ ID NO:6
Reverse Complement of >gi|56682967|ref|NM_153609.2| Homo sapiens transmembrane protease, serine 6 (TMPRSS6), mRNA

TTTTTTTTTTTTTTTTTTTTTGATCAGGCAGCTTTATTCCAAAGGGCAGCTGAGCTCACCTCCCAGTGAGGG
TCTGGGCTGTGAGGGCCCAGGTGGCAGGCAGGGGTGGGGCAAGGACCCTGGAGTCAGGACTTCCCCACCTTT
TGGCTTACAGTGGCAGCAGGCCCACCTGGCAGTCTCCAGGGCTCTGAGGGTCCCCTCCGATGGGAGCACCTT
CCATTCCCAGATCCCAAGTTAGACCAGGGGCTTCCGAAGCTGGAATCTGCTCTCTGGAGGCAAGGCTGCCCA
AACAGCCTCTGTACAGAGTGGGGCGCACCTCAGACACTCCTCGGGATGTAGAACCAGCATTCTTGCTGCTGA
GCCACTGCCTTGCATTAGGCAGCAGTGGAGGAAGGGGACGGAGGAGAGAGAATTGGGAGGCAGAAGGGCTGG
GTGTGGGCCTGGGTCCTCAGGGGACGTCTTGACCCCCAGCTGCTGGCACTTCTCCATCCTCCTGCCATCACT
GGAGCAGACATCAGGGACGAGACAAGATGCCACCTCCTGCCACCACAGGGCCTGCTCTCTCCCCCACCCCCC
GCCAGAATACTTGTCCCCCTGCTTGGCAGTTGCCCTGGGCTCTCTGAGTCCAGGAGGTGGGCCCTGCTTTGC
AGGGGGGCAGTTCCTCAGGTCACCACTTGCTGGATCCAGCTGATCACACCTGTGATGCGGGTGTAGACGCCG
AAGTAGTTAGGCCGGCCACAGCCCAGGCCCCAGCTGACCAGCCCCGCCAGGAACCAGCGGCCACTGAGTGCC
TTGCACACCAGCGGACCACCTGAGTCACCCTGACAGGCATCCTTCTTGCCCTTGCGGTAGCCGGCACACAGC
ATGCGTGGCGTCACCTGGTAGCGATAGACCTCGCTGCACAGGTCCTGTGGGATCAACTGCACATCCACTTTC
TGCAGAGCGTTGCTGATGGGGCCGCCCTCGCGCAAGGCGCCCCAGCCCGTAATCCAGCAGTGCAGGCCGGGC
TCGAAGAAGTGGGAGCGCGCGGGCAGGCAGACGGGGCGCACGGCGGCCGAGCGCACCACCGGGTGGTCGAGC
TGCAGCAGCGCCACGTCGTAGTCATGGCTGTCCTCTTCGTGGTACGGGTGCAGGAGCAGGCGGCTCACCTTG
AAGGACACCTCTCCAGGCCAGCGCGAGTTCTGCCACACCTTGCCCAGGAACACGGTCCACAGCACCGTGGAG
GCCATGCTGTCCTCCTGGAAGCAGTGGGCAGCTGTTATCACCCAGCGGTCAGCGATGAGGGCCCCCCCACAG
ATGTGTCGACCCCGAACCTGGAGGCTGGCCTGCCATGGCCACTCACCCTCGGAGGACACAGCTCCACCAACA
ATGCGGCTGGAGGGGCCCTGGAGGCCACAGTCACAGTGCTCCTCATCCGAGCCGTCCCTGCAGTCGGGCCGC
CCATCACACTGCGGGTTGGGCTTCTTCACGCAGCTCCGGTCCTCACACTGGAAGGTGAATGTCCCACATGGC
ACCCCTTCCTGGCACTGCTCTTCGTCGCTGCCGTTGAGACAATCAGGCTGCCCATCACAGACCTTGGGCAGT
GAGATGCATGTGCTGTCCTCTTTGCACTGGAATGTGGCTCTGCAAACGCAGTTTCTCTCATCCAGGCCGTTG
GGGCAGTCCTTGACCCCATCACAGGCAGGGACACAGAGTCCATTCACAGAACAGAGGAACTCTCCAGGGCAG
GGGTCCGACTGGTTGTACAAGCCATAGTGCACCCGCACACCGGGCCCGGTGAGGGAGATCTGGGAGGTGAAG
TTGATGGTGATCCCGGCCGTGGCCACCACGGGGATCCTCTCGGCGTAGGGCTGCAGGATGCGCAAGCCACAC
AGCCTCCTGTTCTGGATCGTCCACTGGCCCTGGGTGCACGGCAAATCATACTTCTGCCTCCTCAGTGCATAG
GCATCAAACCAGAGGGCCAAGCCGTAGTCCAGAGAGGGCACCGTGAGGTGCCAGGAGCAGTGGGTTTGGGGC
GAGTAGTAGCTGGGGAAGTACGGGGTGCTGAGGACGCCCTGGGAGTCGAGCCTGTTGTCCAGCGTCAGGTTC
ACTTCACAGGCCTGGAAGACCACCGGCTGCACGGAGAGCACGAAGGGGTCGTAGTAGCTGTGCAGGCCCTTC
TTCCAGACGACCGCCATGATGGCCCCCGACGCCAGAACCTCCACCACGGGCTCCTGGCGGCTGCAGCCGTAC
ACCGAGGTGATGAGCCTCTTCTCCAGGGGCCCGGCCACGTCATACATGGCCAGTCGGTCCCGGCACTCTGCC
AGCGTCCACTCCAGCCGGAGTTTGAGCATGAGGTCCTTGGGGCCCTGCAGGTGCCACAGGCAGCTGGAGGCC
AGGTGGTCAGGCCCCTTCAGCCGGAGGACCTGGCCCTGGCCCACGTAGCTGTAGCGGTAACAACCCAGCGTG
GAATTCAATGCAGCTATGTCTTTCACACTGGCTTCCAGGATCACTAGGCCCTCGGGGTCCACTTCGTACTCG
GCCCTGTAGGGGACGGCAGCCGAGCTGTTGACTGTGGACAGCAGCTCCTCCACCAGCAGTGCCTGCACCACC
TCGGGGCTCAGCATCAGCCGGCGGTGCTCGGGGATTTGGAGAATGAACCAGAAGAAGCAGGTGAGGGGTCCC
TCCCCAAAGGAATAGACGGAGCTGGAGTTGTAGTAAGTTCCCAGGCGGGTGCTGGTGATGAGCTCCTTGAGC
ATCTTCTGGGCTTTGGCGGTTTCACTGCGGAAGGCACTAGATTCCCGGCGGGTAAGATCCTGGGAGAAGTGG
CGATTGAGTACACGCAGACTGCCTGAGTACACCTGGCTGACCATCACCTCCGCCTTGTACCCTAGGAAATAC
CAGAGTAGCACCCCCGCCGAAGCCAGCACGAGCAGGGCCAGCAGCACAAACAGGGGCACCAGGCGGAGGTAG
CCCCGGGCTTTTCTCTTGGAGTCCTCACAGGCCTTGAACATCCCCTCCGGCTCCGCTTCCTCGCCATCACCT
CCGTCCCCCTGCCCGCCAGCCACCTGGGGGGCCTCGGCCACGGGCATCCTTTTGGAGTGGAAGAGTAACAAC
ATCAGGCGGCAGTGACTGCAAGTGGGTGCCGAGACAGCTCACAGAGGAGGGAAGTGCATCTCAGGTCAGCTC
GCACCAGAGGGCAGGCACCAGAGCTGGACTGGGTCTGGCTCAAG

Figure 13

SEQ ID NO:7
Reverse Complement of >gi|125656151|ref|NM_027902.2| Mus musculus transmembrane serine protease 6 (Tmprss6), mRNA

TTTTTTTTTTTTTTTCAGTGTCAGGGCTTGGTCAAGTGCTTTATTCCCAGAACAGACAGTGGGCCTCCAGTG
AATGGCAGGGAGGCCCCTGTAGCAGGCAGAGCTTCAGCAGGCATCTGCAGCTGAGGCTGCCCGGTGATTTGG
CTTAGAGTACAGCCCACTTGGCAGACTCAAGGGCTCTGATAGAGCCTTGATAGAGGCACCTTCTTTCTCTGT
GCAGTTCCCCCAAGAGGCTTTTGCAAGGGGAAGGATTCTTTCTTTCCTACAGAGACCCGGAGGCCAAGGTCA
TGGCCGCCAGACCCCACTCCAAAACAGTGGTAGGAGCAGGGAGGGGAAAGGACTAGAATAAGAAAGGGTTAG
AAGTGAAACCTAGCCGAGGCTGGCCCCTGGACCTCAGGAGGCATCCTAACCACCAGCTGACATCCTTCTCTG
TACTGTCACTGGGGTAGGCCTGAGGGAAACAGGCCTTAGCAGGGTCACTTGCCCCAGAATACTTGTGTCCTG
GCTGGGTGGACACCCTGAACTTGGCCTGGAGGCAGGTCCAGCTCTGTAGAACAGCCCTCAGGTCAGCACCTG
CTGGATCCAGTTGATCACACGTGTGACACGGGTGTAGACGCCAAAGAAATTGGGTCGGCCACAGCCCAGGCC
CCAGCTAACCAACCCTGCCAGGAACCAGCGGCCACTGGGCTCCCTGCAAACCAGTGGGCCTCCAGAGTCACC
CTGGCAGGCATCTTTCTTGCCCTTGCGGTAGCCAGCACAGAGCATGCGTGGGGACACCTGGTAGCGGTAGGC
CTCACTGCAGAGGTCCTGAGGGACCAGCTGTACGTCCACCTTCTGCAGGGTGTTGCTCACCGGACCACCCTC
TCGCTGGGCTCCCCAGCCTGTGATCCAGCAGTGCTGGCCTGGCTCAAAGAAGTGGGAGCGGGCAGGCAGGCA
GACGGGGCGCACAGTGGCCGAGTACACCACGGGGTGGTCGAGCTGCAGCAGGGCCACGTCGTAGTCATGGCT
GTCCTCCTCGTGGTACGGGTGCAGGAACAGACGGCTCACCTTGAAGGACACCTCGCCTGGCCAGCGCGAGTT
CTGCCGCATCTTTCCCAGGAACACGGTCCACAGCTTCGGGGAGGCCATGCTGTCCTCCTGGAAGCAGTGGGC
GGCCGTTATGACCCAGCGGTCAGCGATGAGAGCCCCCCCCACAGATGTGTCGACCCCGAATCTGGAGGCTGGC
CTGCCATGGCCACTCACCCTCGGAGGACACGGTCCCGCCCACAATACGGCTGGAGAGGCCCTGGAGGCCACA
GTCACAGTGTTGCTCATCTGAGCCGTCTCTGCAATCTGACTGGCCGTCACACTCTGGGTTGGGCTTCTTCAC
ACAGCTCCGGTCCTCACACTGGAAAGTGAATGTCCCACAGGGCACTCCTTCTTGGCACTGTTCTTCGTCACT
GCCATTGAGACAGTCGGGCTGCCGGTCACAGACTCTAGGCAGTGAAATGCACGTGCTGTCCTCTTGGCACTG
GAACATGGCTCTGCAGACACAGTTTCTCTCATCCAGGCCATTGGGGCAGTCCTTGATCCCGTCACACGCAGG
GACACACAGTCCATTCACAGAGCAGAGGAACTCACCAGGGCAGGGGTCTGATTGGTTGTACAAGCTGTAGTA
CACTTGCACACCCGGGCCTGTGAGGGAGATCTGGGAGGTGAAGTTGATGGTGACACCATCTGAGGCCACCAT
GGGGATCCTCTCAGCATATGGCTGCAGGGTACGGAAGCCACACAGCCTCCTGTTCTGGATCATCCACTGGCC
CTGAGTACACAGTCGGTTGTACTTCTGCCTCCTCAGTGCGTAGGCATCGAACCAGAGCGCCAAGCCGTAGTC
CAGAGAGGGTACCGTGAGATGCCAGGAGCAGTGGGTACTGGGAGAGTAGTAACTGGGGTAGTAGGGTGTACG
GAGGAAGCCCTGTGTGTCCAGCCGGCCCTCCAGTGTCAGGTTCACCTGGCAGTCCTGGAAGGCCACAGACTT
CACTGAGAGCAGGAAAGGGTCATAGTAGCTATGCATGCCCTTTTTCCACACCACGGCCATGACGGAGCCCGA
TGCCAGCACCTCCATCACAGGTTCCTGGCGGCTGCACCCATAGACCGAGGTGATAAGTCTCTTCTCCAGGGG
CCCAGCTGCGTCGTACATCGCCACCCTGTCTCTGCAATCGACCCGGGTCCACTCCAGCCGCACTTTGATCAT
GAGGTCTTCGGGCCCTTGCAGATGCCACAGGCAGCTTGTGGTCTGCTGGTCAGGCCCCTTCAATGGGAGGAC
CTGGCCTGGGTTCACATAGCTGTAGCGATAACAGCCCAGCGTGGAATTCAGTACGACTATGTCGTTCACACT
GGCTTCCAGGATCACCAGGCCTTCCGGGTCCACCTCATATTCGGTCTTATAGGAAGCCAGGGTTGAGCTGTT
GGACAGTAGCTCATCCACCAGGAGCTCGCGCACTACTTCAGGGCTCAGGGTCAGTCGCTGGTACTCAGGGAT
GTCAAGGATAAACCAGAAGAAGCAGGTGAGGGGTCCCTCCCCAAAGGAGTAGACAGAACTAGAGTTGTAGTA
AGTACCCAGGCGGGTGCTGGCAACCAGTTCTTGGAGCATCTTCTGGGCTTTGGCAGATTCACTGCGGAAAGC
AATAGACTCCCGTCGGCCCAGGTCCTGGGAGAAATGACGGTTGAGCACCCGGAGGCTGCCAGAGTACACCTG
GCTTACGGTCACTTCCGCTTTGTACCCTAGGAAATACCAAAGCATGACCCCTGCTGAGACCAGCGCAGCCAA
GACCAGCAACAGTGGCGTGAAGCGGACGTAGTCCCGGTTTTTTCTCTTGGTGTTTTTTGGGGGCTTGAACTT
CCCCTCTGGCTCAGCAGCTTCCTCTCCATCACCCGCATCGCCCTGACCATCAGCCGCTTGGGGGACCTCGGT
GGTGGGCATCCTGGTAGAACAGGGGAGCTGGAAACATCTCGGCATCTTCAAGAGTGGAAGGTAGGTGCCGGG
CCTGCACACAGGCCTGGAGGCCTCTGTTTATCCAGGCCAAGGTCTTTCCACCCCCAACTGGCCAGCTTAGGT
TGGATCAATGGCCTGGAGCCATGGCTGGGGTGTCTGGCCCTTGTCCCTTGTGGCCTGTGGCCCCAAGTTCCA
TGGGCCTCTCCTGTCAGGTCCAGGGCGACAATGAAACT

Figure 14

SEQ ID NO:8
Reverse Complement of >gi|194474097|ref|NM_001130556.1| Rattus norvegicus transmembrane protease, serine 6 (Tmprss6), mRNA

GCTTGGCCAACTGCTTTATTTCCGGAACAGACAGTGGGCCTCCAGTGAATGGCAGGGAGGGCCCTGTAGCAG
GCAGAGCACAGCAGGCACCCGCAGCTGAGGCTGCCCCATGATTTGGCTTACGGTATGGCCCTACTTGGCAGT
CTCAAGGGCTCTGACAGAGCCTTGATAGAGGCACCTTCTTTCTCGGATCCAGTTCCCCCTAGAGGCTTTTGC
AAGGGGAAGGAATCTTACTTTCCCACAGACCTTGGAACCAGCATCATTGCCACCAGACCCCACCCCAAAACA
GCAGTAGGAGGGGAGAGGGGAAAGGACTAGAATAAGAAAGGGTTGGAAGTGAAGCCGAGCTGAGGCTAGCCC
CTGGAGGCATCCTAACCACCAGCTGACATCCTTCTCTGTACTGTCCCTGGGGTAGGCATGAGGGGACAGGCC
TTAGCAGGGTCGCTCGCCCCAGAATACTTGTGCCCTGGCTGGGTGGTCACCTGGGCTCCTTGCAAACCAGTG
GGCCTCCAGAGTCGCCCTGGCAGGCATCTTTCTTGCCCTTGCGATAACCAGCACAGAGCATGCGTGGGGTCA
CCTGGTAACGGTAGGCCTCATTGCACAGGTCCTGAGGGATCAGTTGCACATCCACCTTCTGAAGGGTGCTGC
TACCAGGACCACCCTCTCGCTGGGCTCCCCAGCCTGTGATCCAGCAGTGCTGGCCTGGCTCAAAGAAGTGAG
AGCGTGCGGGCAGGCAGACGGGGCGCACGGTGGCCGAGTACACCACAGGGTGGTCCAGCTGCAGCAGGGCCA
CGTCGTAGTCATGGCTGTCCTCCTCATGATACGGGTGCAGGAACAGGCGGCTCACCTTGAAGGACACCTCGC
CCGGCCAGCGTGAATTCTGCCGCATCTTTCCCAGAAACACGGTCCACAGCCTCGGGGAGGCCATGCTGTCCT
CCTGGAAGCAGTGAGCGGCTGTTATGACCCAGCGGTCAGCGATGAGAGCCCCCCCACAGATGTGTCGACCCC
GAATCTGGAGACTGGCCTGCCAGGGCCACTCACCCTCCGAGGACATGGCCCCGCCCACAATGCGGCTGGAGG
GGCCCTGGAGGCCACAGTCACAGTGCTCCTCATCCGAGCCATCCCTGCAGTCTGCCTGCCCGTCACACTCGG
GGTTGGGCTTCTTCACACAGCTCCGGTCCTCACACTGGAAAGTGAATGTCCCACAGGGCACTCCTTCTTGGC
ACTGCTCTTCGTCGCTACCATTGAGACAGTCGGGCTGCCGGTCACAGACTCTCGGCAGTGAGATGCACGTGC
TGTCCTCTTGGCACTGGAACATGGCTCTGCAGACACAGTTCCTCTCATCCAGGCCGTTGGGGCAGTCCTTGA
TTCCGTCACAAGCAGGGACACACAATCCATTCACAGAGCAGAGGAACTCTCCAGGGCAGGGGTCTGATTGGT
TGTACAAGCTGTAGTACACTTGCACACCCGGGCCTGTGAGGGAGATCTGGGAGGTGAAGTTGATGGTGATAC
CATCCGAGGCCACCACGGGGATCCTCTCAGCATATGGCTGCAGGGTACGGAAGCCACATAGCCTCCTGTTCT
GGATCATCCACTGGCCCTGAGTACATAGTAGGTTGTACTTCTGCCTCCTCAGTGCATAGGCGTCAAACCAGA
GTGCCAAGCCATAGTCCAGAGAGGGAACCGTGAGATGCCAGGAGCAGTGGGTACTGGGCGAGTAGTAACTGG
GGTAGTAGGGTGTACGGAGGAAGCCCTGTGGATCCAGCCGGCCTTCCAGGGTCAGGTTCACCTGGCAGTCCT
GGAAGGCCACAGACTTCACTGAGAGCAGAAAAGGGTCATAGAAGCTATGCAAGCCCTTCTTCCACACCACGG
CCATGACAGAGCCCGACGCCAGCACCTCCATCACGGGTTCCTGGCGGCTGCACCCATAGACCGAGGTGATAA
GTCTCTTCTCCAGGGGCCCAGCTGCGTCGTACATCGCCACCCTGTCTCTGCAATCAACCCGAGTCCACTCTA
GCTGCACTTTGAGCATGAGGTCCTCGGGCCCCTGCAGGTGCCACAGGCAGCTAGTGGTCTGCTGGTCGGGCC
CCCTCAACCGGAGGACCTGGCCCGGGTTCACGTAGCTGTAGCGGTAACAGCCCAGCGTGGAATTCAGTACGA
CTATGTCGTTCACGCTGGCTTCTAGTATCACCAGGCCTTCCGGGTCCACCTCATATTCGGTCCTATAGGAAG
CCAAGGCTGAGCTGTTGGACAGTAGCTCACCCACCAGGAGCTCGCGCACCACCTCAGGGCTCAGGGTCAGTC
GCTGGTACTCGGGGATGTCAAGGATGAACCAGAAGAAGCAGATAAGGGGTCCCTCCCCAAAGGCGTAGATGG
AACTGGAGTTGTAGTAAGTACCCAAGCGGGTGCTGGCAACCAGCTCTTGGAACATCTTCTGGGCTTTGGCAG
TTTCAGTGCGGAAAGCAATAGACTCCCGTCGGGCCAAGTCCTGTGAAAAATGGCGGTTGAGCACCCGGAGGC
TGCCAGAGTACACCTGGCTTATGGTCACTTCCGCCTTGTACCCTAGGAAATACCAGAGCATGACTCCTGCCG
AAGCCAACGCAGCCAAGACCAGCAACAGTGGTGTGAAGCGGACGTAGTCCCTGTCTTTTCTCTTGGCGTTTC
TGGGGGCCTTGAACACCCCCTCTGGCTCTGCAGCTTCCTCTCCATCACCTCCATCACCCTGACCACCAGCTG
CTTGGGGAACCTCAGCGGTGGGCATCCTGGTAGAACAGGGGAGCTGGAAACATCTTGGCATCTTCAAGAGTG
GAAGGTAGGTGCTGGGCCTGAACACAGGCCTGGAGGCCTCTGTTTATCCAGGCCAAGGTCTCTCCACCCACA
ACTGGCCAGCTTAGGTTGGATCAATAGCCTGGAACCATGACTGGGGTGTCTGGCCCTTGTCCCTCGTGGCCT
GTGGCCCCAAGTTCCATGGGCCTCCTGTCAGGTCCAGGACGGACAAT

Figure 15

SEQ ID NO:9
Reverse Complement of >gi|297260989|ref|XM_001085203.2| PREDICTED: Macaca mulatta transmembrane protease, serine 6, transcript variant 3 (TMPRSS6), mRNA

GAGGTGGGACCTGCTCTGCAGGGGGGCAGTTCCTCAGGTCACCACTTGCTGGATCCAGCCGATCACACCTGT
GATGCGGGTGTAGACGCCGAAGTAGTTAGGCCGGCCACAGCCCAGGCCCCAGCTGACCAGCCCTGCCAGGAA
CCAGCGGCCACTGAGTGCCTTGCATACCAGCGGACCACCCGAGTCACCCTGGCAGGCATCCTTCTTGCCCTT
GCGGTAGCCGGCACACAGCATGCGTGGCGTCACCTGGTAGCGATAGGCCTCGCTGCACAGGTCCTGTGGGAT
CAACTGCACGTCCACTTTCTGCAGAGCATTGCTGGTGGGGCCGCCTTCGCGCAGGGCGCCCCAGCCAGTGAT
CCAGCAGTGCAGGCCGGGTTCGAAGAAGTGGGAGCGCGCGGGCAGGCAGACTGGACGCACGGCGGCCGAGCG
CACCACCGGGTGGTCGAGCTGCAACAGCGCCACGTCGTAGTCGTGGCTGTCCTCTTCGTGATACGGATGCAG
GAGTAGGCGGCTCACCTTGAAGGACACCTCTCCAGGCCAGCGCGAGTTCTGCCACACCTTGCCCAGGAACAC
CGTCCACAGCGCCGGGGAGGCCATGCTGTCCTCCTGGAAGCAATGGGCAGCTGTTATCACCCAGCGGTCAGC
GATGAGGGCGCCCCCACAGATGTGTCGACCCCGAACCTGGAGGCTGGCCTGCCATGGCCACTCACCCTCGGA
GGACACGGCCCCACCAACAATGCGACTGGAGGGGCCCTGGAGGCCACAGTCACAGTGCTGCTCGTCTGAGCC
GTCCCTGCAGTCGGGCCGCCCATCACACTGTGGGTTGGGCTTCTTCACGCAGCTCTGGTCCTCACACTGGAA
GGTGAATGTCCCGCAGGGCACCCCTTCCTGGCACCGCTCTTCATCGCTGCCGTTGAGACAGTCAGGCTGCCC
GTCACAGACCTTAAGCAGTGAGATGCACGTGCTGTCCTCTTGGCACTGGAATGTGGCTCTGCAAACGCAGTT
TCTCTCATCCAGGCCGTTGGGGCAGTCCTTGACCCCATCACAGGCAGGGACGCAGAGTCCGTTCACAGAGCA
GAGGAACTCTCCAGGGCAGGGGTCCGACTGGTTGTACAAGCCATAGTGCACCCGCACACCAGGCCCTGTGAG
GGAGATCTGGGAGGTGAAATTGATGGTGATGCCGGCCGTGGCCACCACGGGGATCCTCTCGGCGTAAGGCTG
CAGGATGCGCAGGCCACACAGCCTCCTGTTCTGGATCGTCCACTGGCCCTGGGTGCACGGCAAATCATACTT
CTGCCTCCGCAGTGCGTAGGCGTCAAACCAGAGGGCCAAGCCGTAGTCCAGAGAGGGCACCGTGAGGTGCCA
GGAGCAGTGGGTTCGGGGCGAGTAGTAGCTGGGGAAGTACGGGGTGCTGAGGACGCCCTGGGAGTCCAGCCT
GTCATCCAGCGTCAGGTTTACCTCGCAGGCCTGGAAGACCACCGACTGCACGGAGAGCATAAAGGGGTCGTA
GTAGCTGTGCAGGCCCTTCTTCCAGACCACCGCCATGATGGCCCCCGATGCCAGGACTTCCACCACAGGCTC
CTGGCGGCTGCAGCCATACACCGAGGTGATGAGCCTCTTCTCCAGGGGCCCAGCCACGTCATACATGGCCAG
TCGGTCCCGGCACTCGGCCAGCGTCCACTCCAGCCGGAGTTTCAGCATGAGGTCTTCGGGGCCCTGCAGGTG
CCACAGGCAGCTGGAGGCCAGGTGGTCGGGTCCCTTCAGCCGGAGGACCTGACCCTGGCCCACGTAGCTGTA
GCGGTAACAACCCAGCGTGGAATTCAGTGCAGCTATGTCTTTCACACTGGCTTCTAGGATCACTAGGCCCTC
GGGGTCCACTTCGTACTCGGCCCTGTAGGGGACAGCCGCCGAGCTGTTGACTGTGGACAGCAGCTCCTCCAC
CAGCAGTGCCTGCACCACCTCGGGGCTCAGCATCAGCCGGCGGTGCTCGGGGATTTGGAGAATGAACCAGAA
GAAGCAGGTGAGCGGTCCCTCCCCAAAGGAATAGACGGAGCTGGAGTTGTAATAAGTTCCCAGGCGGGTGCT
GGCGATGAGCTCCTTGAGCATCTTCTGGGCTTTGGCGGTTTCACTGCGGAAGGCACTGGATTCCCGGCGGGT
AAGATCCTGGGAGAAGTGGCGATTGAGCACGCGCAGGCTGCCTGAGTACACCTGGCTGACCGTCACCTCCGC
CTTGTACCCTAGGAAATACCAGAGTAGCACCCCCACTGAAGTCAGCACAACCAGGGTCAGCCACAGGGGCGC
CAGGCGGAGGTAGCCCCGGGCTTTTCTCTTGGAGTCCTCACGGGCCTCGAACATCCCCTCTGGCTCCGCTTC
CTCGCCATCACCTCCGTCCCCCTGCCCACCAGCCACCTGGGGGGCCTTGGCCACAGGCATCCTG

Figure 16

SEQ ID NO:10
Reverse Complement of >gi|109094061|ref|XM_001085319.1| PREDICTED: Macaca mulatta similar to transmembrane protease, serine 6, transcript variant 4 (LOC696094), mRNA

TTGGATCAGGCAGCTTTATTCCAAAGGGCAGCTGAGCTCACCTGCCGGTGAGGGTCTGGGCTGTGAGGGGCC
AGGTGGCAGGCAGGGGTGGGGCAAGGACCTTGGAGTCAGGGCTTCCCCACCTTTTTTGGCTTACGGTGGCAG
CCGGCCCACCTGGCAGTCCCCGGGGCTGTGAGGGTCCCCTCCTATGGGGGCACCTTCCATTCCCAGATCCCA
AGTTAGACCAGGGGCTTCCGAAGCTGGCATCTGCTCTCTAGAGGCAAGGCTGCCCAAGCAGCCTCTGTACAG
AGTGGGGCACAGCTCAGACACTCCTGGGGACGTAGAGCCAGCATTCTTGCTGCTGAGCCACTTCCTTGCAAT
AGGCAGCAGTGGAGGAAGGGGACAGAGGAGAGAGAATCGGGAGGCAGAAGGGCTGGGTGTGGGCCTGGGTCC
CTAGGGGACGTCTTGACCCCCAGCTGCTGGCACTCCTCCATCCTCCTGCCATCACTGGAGCAGACATCAGGG
ACAAGACAAGATGCCACCTCCTGCCACCACAGGGCCTGCTCGCGCCCCCCTCCCCCCAGAATACTTGTCCCC
CTGCTTGGCAATTGCCCTGGGCTCTCTGAGTCCAAGAGGTGGGACCTGCTCTGCAGGGGGGCAGTTCCTCAG
GTCACCACTTGCTGGATCCAGCCGATCACACCTGTGATGCGGGTGTAGACGCCGAAGTAGTTAGGCCGGCCA
CAGCCCAGGCCCCAGCTGACCAGCCCTGCCAGGAACCAGCGGCCACTGAGTGCCTTGCATACCAGCGGACCA
CCCGAGTCACCCTGGCAGGCATCCTTCTTGCCCTTGCGGTAGCCGGCACACAGCATGCGTGGCGTCACCTGG
TAGCGATAGGCCTCGCTGCACAGGTCCTGTGGGATCAACTGCACGTCCACTTTCTGCAGAGCATTGCTGGTG
GGGCCGCCTTCGCGCAGGGCGCCCCAGCCAGTGATCCAGCAGTGCAGGCCGGGTTCGAAGAAGTGGGAGCGC
GCGGGCAGGCAGACTGGACGCACGGCGGCCGAGCGCACCACCGGGTGGTCGAGCTGCAACAGCGCCACGTCG
TAGTCGTGGCTGTCCTCTTCGTGATACGGATGCAGGAGTAGGCGGCTCACCTTGAAGGACACCTCTCCAGGC
CAGCGCGAGTTCTGCCACACCTTGCCCAGGAACACCGTCCACAGCGCCGGGGAGGCCATGCTGTCCTCCTGG
AAGCAATGGGCAGCTGTTATCACCCAGCGGTCAGCGATGAGGGCGCCCCCACAGATGTGTCGACCCCGAACC
TGGAGGCTGGCCTGCCATGGCCACTCACCCTCGGAGGACACGGCCCCACCAACAATGCGACTGGAGGGGCCC
TGGAGGCCACAGTCACAGTGCTGCTCGTCTGAGCCGTCCCTGCAGTCGGGCCGCCCATCACACTGTGGGTTG
GGCTTCTTCACGCAGCTCTGGTCCTCACACTGGAAGGTGAATGTCCCGCAGGGCACCCCTTCCTGGCACCGC
TCTTCATCGCTGCCGTTGAGACAGTCAGGCTGCCCGTCACAGACCTTAAGCAGTGAGATGCACGTGCTGTCC
TCTTGGCACTGGAATGTGGCTCTGCAAACGCAGTTTCTCTCATCCAGGCCGTTGGGGCAGTCCTTGACCCCA
TCACAGGCAGGGACGCAGAGTCCGTTCACAGAGCAGAGGAACTCTCCAGGGCAGGGGTCCGACTGGTTGTAC
AAGCCATAGTGCACCCGCACACCAGGCCCTGTGAGGGAGATCTGGGAGGTGAAATTGATGGTGATGCCGGCC
GTGGCCACCACGGGGATCCTCTCGGCGTAAGGCTGCAGGATGCGCAGGCCACACAGCCTCCTGTTCTGGATC
GTCCACTGGCCCTGGGTGCACGGCAAATCATACTTCTGCCTCCGCAGTGCGTAGGCGTCAAACCAGAGGGCC
AAGCCGTAGTCCAGAGAGGGCACCGTGAGGTGCCAGGAGCAGTGGGTTCGGGGCGAGTAGTAGCTGGGGAAG
TACGGGGTGCTGAGGACGCCCTGGGAGTCCAGCCTGTCATCCAGCGTCAGGTTTACCTCGCAGGCCTGGAAG
ACCACCGACTGCACGGAGAGCATAAAGGGGTCGTAGTAGCTGTGCAGGCCCTTCTTCCAGACCACCGCCATG
ATGGCCCCCGATGCCAGGACTTCCACCACAGGCTCCTGGCGGCTGCAGCCATACACCGAGGTGATGAGCCTC
TTCTCCAGGGGCCCAGCCACGTCATACATGGCCAGTCGGTCCCGGCACTCGGCCAGCGTCCACTCCAGCCGG
AGTTTCAGCATGAGGTCTTCGGGGCCCTGCAGGTGCCACAGGCAGCTGGAGGCCAGGTGGTCGGGTCCCTTC
AGCCGGAGGACCTGACCCTGGCCCACGTAGCTGTAGCGGTAACAACCCAGCGTGGAATTCAGTGCAGCTATG
TCTTTCACACTGGCTTCTAGGATCACTAGGCCCTCGGGGTCCACTTCGTACTCGGCCCTGTAGGGGACAGCC
GCCGAGCTGTTGACTGTGGACAGCAGCTCCTCCACCAGCAGTGCCTGCACCACCTCGGGGCTCAGCATCAGC
CGGCGGTGCTCGGGGATTTGGAGAATGAACCAGAAGAAGCAGGTGAGCGGTCCCTCCCCAAAGGAATAGACG
GAGCTGGAGTTGTAATAAGTTCCCAGGCGGGTGCTGGCGATGAGCTCCTTGAGCATCTTCTGGGCTTTGGCG
GTTTCACTGCGGAAGGCACTGGATTCCCGGCGGGTAAGATCCTGGGAGAAGTGGCGATTGAGCACGCGCAGG
CTGCCTGAGTACACCTGGCTGACCGTCACCTCCGCCTTGTACCCTAGGAAATACCAGAGTAGCACCCCCACT
GAAGTCAGCACAACCAGGGTCAGCCACAGGGGCGCCAGGCGGAGGTAGCCCCGGGCTTTTCTCTTGGAGTCC
TCACGGGCCTCGAACATCCCCTCTGGCTCCGCTTCCTCGCCATCACCTCCGTCCCCCTGCCCACCAGCCACC
TGGGGGGCCTTGGCCACAGGCATCCTTTCAGAGTGGAAGAGTAACAACATCAGGCGGCAGTGACCGGAAGTG
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TGGACTGGGTGTGGCTCAAG

Figure 17