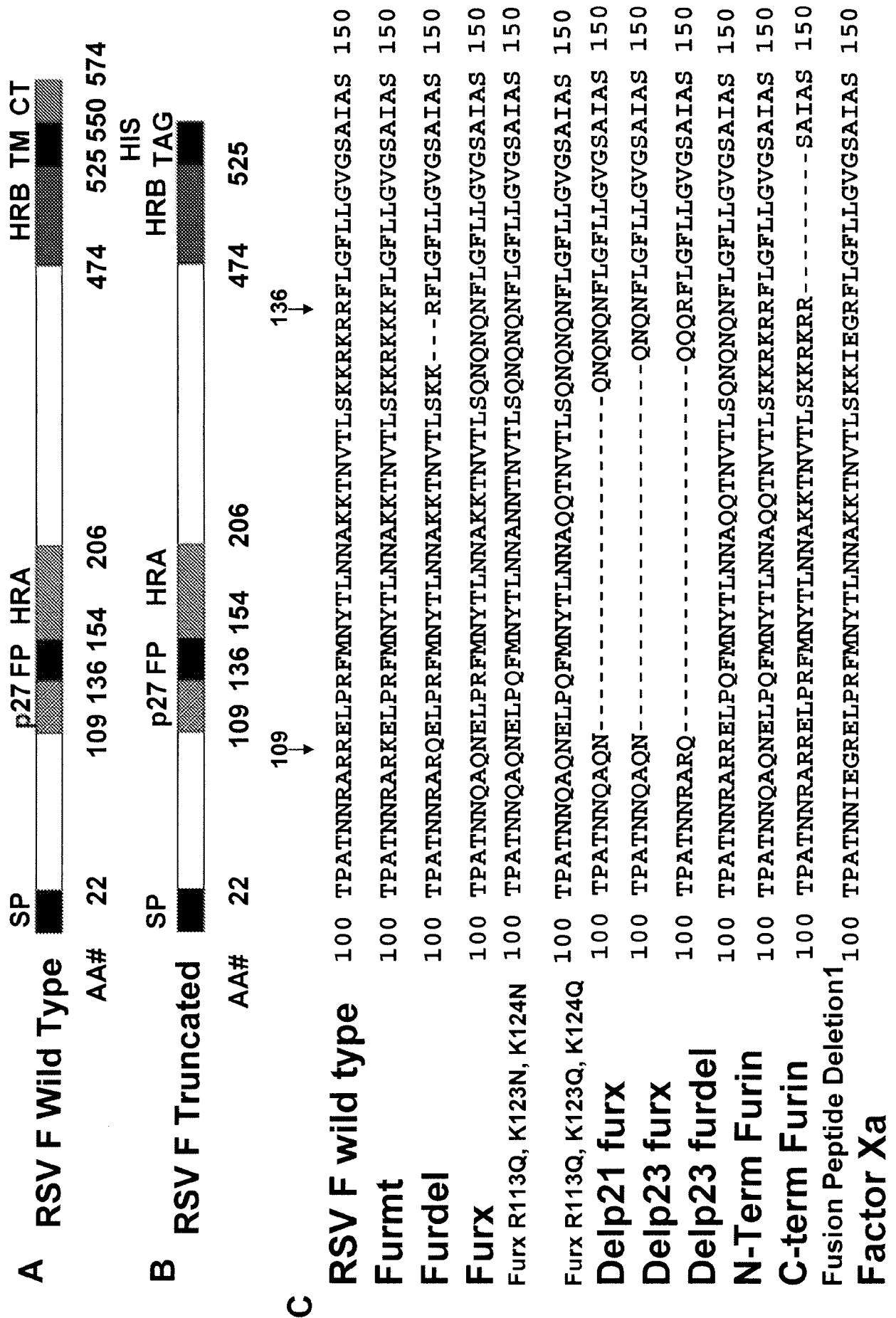


Figure 1



Constructs to Cleave from the Cell Surface

RSV F Wildtype	488	FDASISQVNEKINQSLAFIRKSDCLLHNVNAGKSTTN-----	TM-C
Idealized Ent	488	FDASISQINEKINQILAFIRKIDELLLHNINAGKSTTNGSGGDDDDKGGSG-----	TM-C
GCN Ent	488	FDASISQVNEKINQSLAFIRKSDCLLHNVNDKIEEILSKIYHIENEIARIKKLIGEGSGDDDDKGGSG	TM-C
Idealized FacXa	488	FDASISQINEKINQILAFIRKIDELLLHNINAGKSTTNGSGGIEGRGSG-----	TM-C
GCN Thr	488	FDASISQVNEKINQSLAFIRKSDCLLHNVNDKIEEILSKIYHIENEIARIKKLIGEGSGGIEGRGSG	TM-C
Idealized Thr	488	FDASISQINEKINQILAFIRKIDELLLHNINAGKSTTNGSGGLVPRGSG-----	TM-C
GCN Thr	488	FDASISQVNEKINQSLAFIRKSDCLLHNVNDKIEEILSKIYHIENEIARIKKLIGEGSGGLVPRGSG-	TM-C

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TM-C = Transmembrane domain + C-terminal tail =
 IMITTTIIIVILLSLIIVGLLYCKARSTPVTLSKDQLSGINNIAFSN
 Ent = Enterokinase cleavage site - DDDDK
 FacXa = Factor Xa cleavage site - IEGR
 Thr = Thrombin cleavage site - LVPR

Figure 2

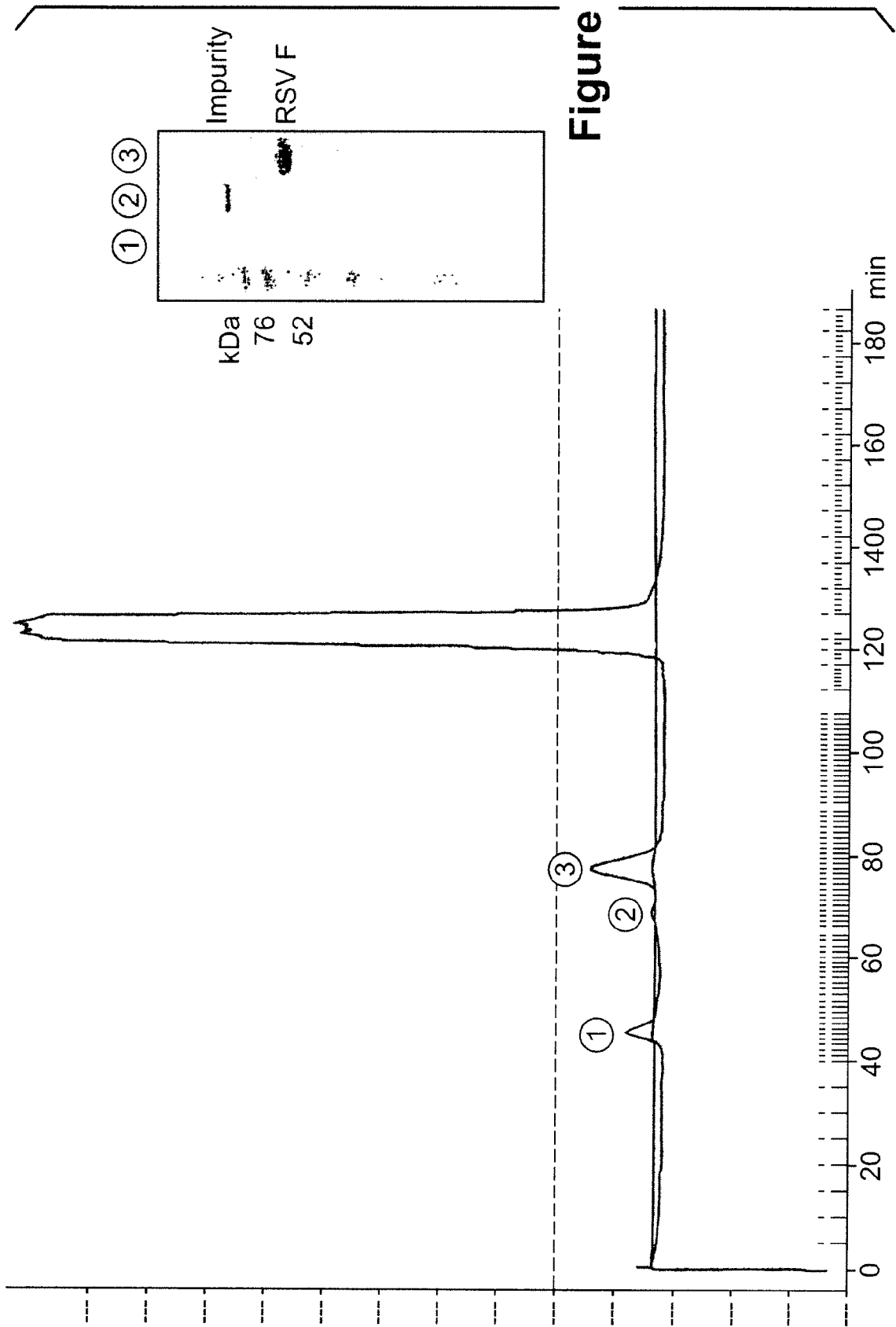


Figure 3

ATAGGCGGCGCATGAGAGAAGCCCAGACCAATTACCTACCCAAAATGGAGAAAGTTCACGTTGACATCGA
GGAAGACAGCCCATTCCTCAGAGCTTTGCAGCGGAGCTTCCCGCAGTTTGAGGTAGAAGCCAAGCAGGTC
ACTGATAATGACCATGCTAATGCCAGAGCGTTTTTCGCATCTGGCTTCAAACTGATCGAAACGGAGGTGG
ACCCATCCGACACGATCCTTGACATTGGAAGTGCGCCCCGCCGAGAATGTATTCTAAGCACAAGTATCA
TTGTATCTGTCCGATGAGATGTGCGGAAGATCCGGACAGATTGTATAAGTATGCAACTAAGCTGAAGAAA
AACTGTAAGGAAATAACTGATAAGGAATTGGACAAGAAAAATGAAGGAGCTCGCCGCCGTCTAGAGCGACC
CTGACCTGGAACTGAGACTATGTGCCTCCACGACGACGAGTCGTGTGCTACGAAGGGCAAGTCGCTGT
TTACCAGGATGTATACGCGGTTGACGGACCGACAAGTCTCTATCACCAGCCAATAAGGGAGTTAGAGTC
GCCTACTGGATAGGCTTTGACACCACCCCTTTTATGTTTAAGAACTTGGCTGGAGCATATCCATCATACT
CTACCAACTGGGCCGACGAAACCGTGTTAACGGCTCGTAACATAGGCCTATGCAGCTCTGACGTTATGGA
GCGGTCACGTAGAGGGATGTCCATTCTTAGAAAGAAGTATTTGAAACCATCCAACAATGTTCTATTCTCT
GTTGGCTCGACCATCTACCACGAGAAGAGGGACTTACTGAGGAGCTGGCACCTGCCGTCTGTATTTCACT
TACGTGGCAAGCAAAATTACACATGTCGGTGTGAGACTATAGTTAGTTGCGACGGGTACGTCGTTAAAAG
AATAGCTATCAGTCCAGGCCTGTATGGGAAGCCTTCAGGCTATGCTGCTACGATGCACCGCGAGGGATTC
TTGTGCTGCAAAGTGACAGACACATTGAACGGGGAGAGGGTCTCTTTTCCCGTGTGCACGTATGTGCCAG
CTACATTGTGTGACCAAATGACTGGCATACTGGCAACAGATGTCAGTGCGGACGACGCGCAAAAACCTGCT
GGTTGGGCTCAACCAGCGTATAGTCGTCAACGGTCGCACCCAGAGAAACACCAATACCATGAAAAATTAC
CTTTTGCCCGTAGTGGCCCAGGCATTTGCTAGGTGGGCAAAGGAATATAAGGAAGATCAAGAAGATGAAA
GGCCACTAGGACTACGAGATAGACAGTTAGTCATGGGGTGTGTTGGGCTTTTAGAAGGCACAAGATAAC
ATCTATTTATAAGCGCCCGGATACCCAAACCATCATCAAAGTGAACAGCGATTTCCACTCATTCTGTGCTG
CCCAGGATAGGCAGTAACACATTGGAGATCGGGCTGAGAACAAAGAATCAGGAAAATGTTAGAGGAGCACA
AGGAGCCGTCACCTCTCATTACCGCCGAGGACGTACAAGAAGCTAAGTGCGCAGCCGATGAGGCTAAGGA
GGTGCGTGAAGCCGAGGAGTTGCGCGCAGCTCTACCACCTTTGGCAGCTGATGTTGAGGAGCCCACTCTG
GAAGCCGATGTAGACTTGATGTTACAAGAGGCTGGGGCCGGCTCAGTGGAGACACCTCGTGGCTTGATAA
AGGTTACCAGCTACGATGGCGAGGACAAGATCGGCTCTTACGCTGTGCTTTCTCCGAGGCTGTACTCAA
GAGTGAAAAATTATCTTGTCATCCACCCTCTCGCTGAACAAGTCATAGTGATAACACACTCTGGCCGAAAA
GGGCGTTATGCCGTGGAACCATAACCATGGTAAAGTAGTGGTGCCAGAGGGACATGCAATACCCGTCCAGG
ACTTTCAAGCTCTGAGTGAAAGTGCCACCATTGTGTACAACGAACGTGAGTTCGTAAACAGGTACCTGCA
CCATATTGCCACACATGGAGGAGCGCTGAACACTGATGAAGAATATTACAAAACCTGTCAAGCCCAGCGAG
CACGACGGCGAATACCTGTACGACATCGACAGGAAACAGTGCGTCAAGAAAGAACTAGTCACTGGGCTAG
GGCTCACAGGCGAGCTGGTGGATCCTCCCTTCCATGAATTCGCCTACGAGAGTCTGAGAACACGACCAGC
CGCTCCTTACCAAGTACCAACCATAGGGGTGTATGGCGTGCCAGGATCAGGCAAGTCTGGCATCATTAAA
AGCGCAGTCACCAAAAAAGATCTAGTGGTGAGCGCCAAGAAAGAAAACTGTGCAGAAATTATAAGGGACG
TCAAGAAAAATGAAAGGGCTGGACGTCAATGCCAGAACTGTGGACTCAGTGCTCTTGAATGGATGCAACA
CCCCGTAGAGACCCTGTATATTGACGAAGCTTTTGCTTGTCTATGCAGGTACTCTCAGAGCGCTCATAGCC

FIG. 4A

ATTATAAGACCTAAAAAGGCAGTGCTCTGCGGGGATCCCAAACAGTGCGGTTTTTTTAACATGATGTGCC
TGAAAGTGCATTTTAACCACGAGATTTCACACAAGTCTTCCACAAAAGCATCTCTCGCCGTTGCACTAA
ATCTGTGACTTCGGTCGTCTCAACCTTGTTTTACGACAAAAAATGAGAACGACGAATCCGAAAGAGACT
AAGATTGTGATTGACACTACCGGCAGTACCAAACCTAAGCAGGACGATCTCATTCTCACTTGTTTCAGAG
GGTGGGTGAAGCAGTTGCAAATAGATTACAAAGGCAACGAAATAATGACGGCAGCTGCCTCTCAAGGGCT
GACCCGTAAAGGTGTGTATGCCGTTCCGGTACAAGGTGAATGAAAATCCTCTGTACGCACCCACCTCAGAA
CATGTGAACGTCTTACTGACCCGCACGGAGGACCGCATCGTGTGGAAAACACTAGCCGGCGACCCATGGA
TAAAAAACTGACTGCCAAGTACCCTGGGAATTTCACTGCCACGATAGAGGAGTGGCAAGCAGAGCATGA
TGCCATCATGAGGCACATCTTGGAGAGACCGGACCCTACCGACGTCTTCCAGAATAAGGCAAACGTGTGT
TGGGCCAAGGCTTTAGTGCCGGTGCTGAAGACCGCTGGCATAGACATGACCACTGAACAATGGAACACTG
TGGATTATTTTGAAACGGACAAAGCTCACTCAGCAGAGATAGTATTGAACCAACTATGCGTGAGGTTCTT
TGGACTCGATCTGGACTCCGGTCTATTTTCTGCACCCACTGTTCCGTTATCCATTAGGAATAATCACTGG
GATAACTCCCCGTCGCCTAACATGTACGGGCTGAATAAAGAAGTGGTCCGTCAGCTCTCTCGCAGGTACC
CACAACCTGCCTCGGGCAGTTGCCACTGGAAGAGTCTATGACATGAACACTGGTACACTGCGCAATTATGA
TCCGCGCATAAACCTAGTACCTGTAAACAGAAGACTGCCTCATGCTTTAGTCTCCACCATAATGAACAC
CCACAGAGTGACTTTTCTTCATTTCGTAGCAAAATGAAGGGCAGAACTGTCTGGTGGTCCGGGAAAAGT
TGTCGGTCCAGGCAAATGGTTGACTGGTTGTGACACCGGCCTGAGGCTACCTTCAGAGCTCGGCTGGA
TTTAGGCATCCCAGGTGATGTGCCCAAATATGACATAATATTTGTTAATGTGAGGACCCCATATAAATAC
CATCACTATCAGCAGTGTGAAGACCATGCCATTAAGCTTAGCATGTTGACCAAGAAAAGCTTGCTGTCATC
TGAATCCCGGCGGAACCTGTGTGACATAGGTTATGGTTACGCTGACAGGGCCAGCGAAAGCATCATTGG
TGCTATAGCGCGGCAGTTCAAGTTTTCCCGGGTATGCAAACCGAAATCCTCACTTGAAGAGACGGAAGTT
CTGTTTGTATTTCATTGGGTACGATCGCAAGGCCCCGTACGCACAATCCTTACAAGCTTTCATCAACCTTGA
CCAACATTTATACAGGTTCCAGACTCCACGAAGCCGGATGTGCACCCTCATATCATGTGGTGCAGGGGGA
TATTGCCACGGCCACCGAAGGAGTGATTATAAATGCTGCTAACAGCAAAGGACAACCTGGCGGAGGGGTG
TGCGGAGCGCTGTATAAGAAATTCCCGGAAAGCTTCGATTTACAGCCGATCGAAGTAGGAAAAGCGCGAC
TGGTCAAAGGTGCAGCTAAACATATCATTTCATGCCGTAGGACCAAACCTTCAACAAAGTTTCGGAGGTTGA
AGGTGACAAACAGTTGGCAGAGGCTTATGAGTCCATCGCTAAGATTGTCAACGATAACAATTACAAGTCA
GTAGCGATTCCACTGTTGTCCACCGGCATCTTTTCCGGGAACAAAGATCGACTAACCCAATCATTGAACC
ATTTGCTGACAGCTTTAGACACCCTGATGCAGATGTAGCCATATACTGCAGGGACAAGAAATGGGAAAT
GACTCTCAAGGAAGCAGTGGCTAGGAGAGAAGCAGTGGAGGAGATATGCATATCCGACGACTCTTCAGTG
ACAGAACCTGATGCAGAGCTGGTGAGGGTGCATCCGAAGAGTTCTTTGGCTGGAAGGAAGGGCTACAGCA
CAAGCGATGGCAAAACTTTCTCATATTTGGAAGGGACCAAGTTTACCAGGCGGCCAAGGATATAGCAGA
AATTAATGCCATGTGGCCCCGTGCAACGGAGGCCAATGAGCAGGTATGCATGTATATCCTCGGAGAAAAGC
ATGAGCAGTATTAGGTGAAATGCCCCGTGCAAGAGTGGGAAGCCTCCACACCACCTAGCACGCTGCCTT
GCTTGTGCATCCATGCCATGACTCCAGAAAGAGTACAGCGCCTAAAAGCCTCACGTCCAGAACAAATTAC

FIG. 4B

TGTGTGCTCATCCTTTCCATTGCCGAAGTATAGAATCACTGGTGTGCAGAAGATCCAATGCTCCCAGCCT
ATATTGTTCTCACCGAAAGTGCCTGCGTATATTCATCCAAGGAAGTATCTCGTGGAACACCACCGGTAG
ACGAGACTCCGGAGCCATCGGCAGAGAACCAATCCACAGAGGGGACACCTGAACAACCACCACTTATAAC
CGAGGATGAGACCAGGACTAGAACGCCTGAGCCGATCATCATCGAAGAGGAAGAAGAGGATAGCATAAGT
TTGCTGTCAGATGGCCCGACCCACCAGGTGCTGCAAGTCGAGGCAGACATTCACGGGCGGCCCTCTGTAT
CTAGCTCATCCTGGTCCATTCTCATGCATCCGACTTTGATGTGGACAGTTTATCCATACTTGACACCCT
GGAGGGAGCTAGCGTGACCAGCGGGGCAACGTCAGCCGAGACTAACTCTTACTTCGCAAAGAGTATGGAG
TTTCTGGCGCGACCGGTGCCTGCGCCTCGAACAGTATTCAGGAACCCTCCACATCCCGCTCCGCGCACAA
GAACACCGTCACTTGACCCAGCAGGGCCTGCTCGAGAACCAGCCTAGTTTCCACCCCGCCAGGCGTGAA
TAGGGTGATCACTAGAGAGGAGCTCGAGGCGCTTACCCCGTCACGCACTCCTAGCAGGTGGTCTCGAGA
ACCAGCCTGGTCTCCAACCCGCCAGGCGTAAATAGGGTGATTACAAGAGAGGAGTTTGAGGCGTTCGTAG
CACAACAACAATGACGGTTTGATGCGGGTGATACATCTTTTCCCTCCGACACCGGTCAAGGGCATTTACA
ACAAAAATCAGTAAGGCAAACGGTGCTATCCGAAGTGGTGTGGAGAGGACCGAATTGGAGATTTCTGTAT
GCCCCGCGCCTCGACCAAGAAAAGAAGAATTACTACGCAAGAAATTACAGTTAAATCCACACCTGCTA
ACAGAAGCAGATACCAGTCCAGGAAGGTGGAGAACATGAAAGCCATAACAGCTAGACGTATTCTGCAAGG
CCTAGGGCATTATTTGAAGGCAGAAGGAAAAGTGGAGTGCTACCGAACCTGCATCCTGTTCTTTGTAT
TCATCTAGTGTGAACCGTGCCTTTTCAAGCCCCAAGGTCGCAGTGGAAGCCTGTAACGCCATGTTGAAAG
AGAACTTTCCGACTGTGGCTTCTTACTGTATTATTCAGAGTACGATGCCTATTTGGACATGGTTGACGG
AGCTTCATGCTGCTTAGACACTGCCAGTTTTTGCCCTGCAAAGCTGCGCAGCTTTCCAAAGAAACACTCC
TATTTGGAACCCACAATACGATCGGCAGTGCCCTTCAGCGATCCAGAACACGCTCCAGAACGTCTGGCAG
CTGCCACAAAAGAAATTGCAATGTCACGCAAATGAGAGAATTGCCCGTATTGGATTGCGCGGCCCTTTAA
TGTGGAATGCTTCAAGAAATATGCGTGTAATAATGAATATTGGGAAACGTTTAAAGAAAACCCCATCAGG
CTTACTGAAGAAAACGTGGTAAATTACATTACCAAATTAAGAGGACCAAAGCTGCTGCTCTTTTTCGA
AGACACATAATTTGAATATGTTGCAGGACATACCAATGGACAGGTTTGTAATGGACTTAAAGAGAGACGT
GAAAGTGACTCCAGGAACAAAACATACTGAAGAACGGCCCCAAGGTACAGGTGATCCAGGCTGCCGATCCG
CTAGCAACAGCGTATCTGTGCGGAATCCACCGAGAGCTGGTTAGGAGATTAAATGCGGTCTGCTTCCGA
ACATTCATACACTGTTTGATATGTCGGCTGAAGACTTTGACGCTATTATAGCCGAGCACTTCCAGCCTGG
GGATTGTGTTCTGGAAACTGACATCGCGTCGTTTGATAAAAGTGAGGACGACGCCATGGCTCTGACCGCG
TTAATGATTCTGGAAGACTTAGGTGTGGACGCAGAGCTGTTGACGCTGATTGAGGCGGCTTTTCGGCGAAA
TTTCATCAATACATTTGCCCACTAAAATAAATTTAAATTCGGAGCCATGATGAAATCTGGAATGTTCTT
CACACTGTTTGTGAACACAGTCATTAACATTGTAATCGCAAGCAGAGTGTTGAGAGAACGGCTAACCGGA
TCACCATGTGCAGCATTCATTGGAGATGACAATATCGTGAAAGGAGTCAAATCGGACAAATTAATGGCAG
ACAGGTGCGCCACCTGGTTGAATATGGAAGTCAAGATTATAGATGCTGTGGTGGGCGAGAAAGCGCCTTA
TTTCTGTGGAGGGTTTATTTTGTGTGACTCCGTGACCGGCACAGCGTGCCGTGTGGCAGACCCCTAAAA
AGGCTGTTTAAGCTTGGCAAACCTCTGGCAGCAGACGATGAACATGATGATGACAGGAGAAGGGCATTGC

FIG. 4C

ATGAAGAGTCAACACGCTGGAACCGAGTGGGTATTCTTTCAGAGCTGTGCAAGGCAGTAGAATCAAGGTA
TGAAACCGTAGGAACTTCCATCATAGTTATGGCCATGACTACTCTAGCTAGCAGTGTTAAATCATTTCAGC
TACCTGAGAGGGGGCCCTATAACTCTCTACGGCTAACCTGAATGGACTACGACATAGTCTAGTCGACGCC
ACCATGGAAGTGTGATCCTGAAGGCCAACGCCATCACCACCATCCTGACCGCCGTGACCTTCTGCTTCG
CCAGCGGCCAGAACATCACCAGGAATTCTACCAGAGCACCTGCAGCGCCGTGAGCAAGGGCTACCTGAG
CGCCCTGCGGACCGGCTGGTACACCAGCGTGATCACCATCGAGCTGTCCAACATCAAAGAAAACAAGTGC
AACGGCACCGACGCCAAGGTGAACTGATCAAGCAGGAACTGGACAAGTACAAGAACGCCGTGACCGAGC
TGCAGCTGCTGATGCAGAGCACCCCGCCACCAACAACCGGGCCAGAAGAGAGCTGCCCCGGTTCATGAA
CTACACCCTGAACAACGCCAAGAAAACCAACGTGACCCTGAGCAAGAAGCGGAAGCGGCGGTTCCTGGGC
TTCCTGCTGGGCGTGGGCAGCGCCATCGCCAGCGGGGTGGCCGTGTCCAAGGTGCTGCACCTGGAAGGCG
AGGTGAACAAGATCAAGTCCGCCCTGCTGTCCACCAACAAGGCCGTGGTGTCCCTGAGCAACGGCGTGAG
CGTGTGACCGCAAGGTGCTGGATCTGAAGAACTACATCGACAAGCAGCTGCTGCCCATCGTGAACAAG
CAGAGCTGCAGCATCAGCAACATCGAGACCGTGATCGAGTTCAGCAGAAGAACAACCGGCTGCTGGAAA
TCACCCGGGAGTTCAGCGTGAACGCCGGCGTGACCACCCCGTGAGCACCTACATGCTGACCAACAGCGA
GCTGCTGTCCCTGATCAATGACATGCCCATCACCAACGACCAGAAAAAGCTGATGAGCAACAACGTGCAG
ATCGTGGCGCAGCAGAGCTACTCCATCATGAGCATCATCAAAGAAGAGGTGCTGGCCTACGTGGTGCAGC
TGCCCCCTGTACGGCGTGATCGACACCCCTGCTGGAAGCTGCACACCAGCCCCCTGTGCACCACCAACAC
CAAAGAGGGCAGCAACATCTGCCTGACCCGGACCGACCGGGGCTGGTACTGCGACAACGCCGGCAGCGTG
AGCTTCTTCCCCAAGCCGAGACCTGCAAGGTGCAGAGCAACCGGGTGTCTGCGACACCATGAACAGCC
TGACCCTGCCCTCCGAGGTGAACCTGTGCAACGTGGACATCTTCAACCCCAAGTACGACTGCAAGATCAT
GACCTCCAAGACCGACGTGAGCAGCTCCGTGATCACCTCCCTGGGCGCCATCGTGAGCTGCTACGGCAAG
ACCAAGTGCACCGCCAGCAACAAGAACCGGGGCATCATCAAGACCTTCAGCAACGGCTGCGACTACGTGA
GCAACAAGGGCGTGGACACCGTGAGCGTGGGCAACACACTGTACTACGTGAATAAGCAGGAAGGCAAGAG
CCTGTACGTGAAGGGCGAGCCCATCATCAACTTCTACGACCCCTGGTGTCCCCAGCGACGAGTTCGAC
GCCAGCATCAGCCAGGTCAACGAGAAGATCAACCAGAGCCTGGCCTTCATCCGGAAGAGCGACGAGCTGC
TGCACAATGTGAATGCCGGCAAGAGCACCACCAATATCATGATCACCACAATCATCATCGTGATCATTGT
GATCCTGCTGTCTCTGATTGCCGTGGGCTGCTGCTGTACTGCAAGGCCCGCAGCACCCCTGTGACCCTG
TCCAAGGACCAGCTGTCCGGCATCAACAATATCGCCTTCTCCAAGTGAAGTCTAGACGGCGCGCCACCC
AGCGGCCGCATACAGCAGCAATTGGCAAGCTGCTTACATAGAACTCGCGGCGATTGGCATGCCGCCTTAA
AATTTTATTTTATTTTCTTTTCTTTTCCGAATCGGATTTTGTTTTAAATTTTCAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAGGGTCGGCATGGCATCTCCACCTCCTCGCGGTCCGACCTGGGCATCCGA
AGGAGGACGCACGTCCACTCGGATGGCTAAGGGAGAGCCACGTTTAAACCAGCTCCAATTGCCCTATAG
TGAGTCGTATTACGCGCGCTCACTGGCCGTGTTTTTACAACGTGCTGACTGGGAAAACCTGGCGTTACC
CAACTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCCCGCACCGATC
GCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGGACGCGCCCTGTAGCGGCGCATTAAGCGCGGC

FIG. 4D

GGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTTCGCTTTC
TTCCCTTCCTTTCTCGCCACGTTTCGCCGGCTTTCCCCGTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGT
TCCGATTTAGTGCTTTACGGCACCTCGACCCCAAAAACTTGATTAGGGTGATGGTTCACGTAGTGGGCC
ATCGCCCTGATAGACGGTTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTTAATAGTGGACTCTTGTTTC
CAAACCTGGAACAACACTCAACCCTATCTCGGTCTATTCTTTTGATTTATAAGGGATTTTGCCGATTTTCGG
CCTATTGGTTAAAAAATGAGCTGATTTAACAAAAATTTAACGCGAATTTTAACAAAATATTAACGCTTAC
AATTTAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTTCTAAATACATTCAA
ATATGTATCCGCTCATGAGACAATAACCCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAG
TATTCAACATTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCCCTTCCTGTTTTTGCTCACCCA
GAAACGCTGGTGAAAGTAAAAGATGCTGAAGATCAGTTGGGTGCACGAGTGGGTACATCGAACTGGATC
TCAACAGCGGTAAGATCCTTGAGAGTTTTCGCCCCGAAGAACGTTTTCCAATGATGAGCACTTTTAAAGT
TCTGCTATGTGGCGCGGTATTATCCCGTATTGACGCCGGGCAAGAGCAACTCGGTGCGCGCATACACTAT
TCTCAGAATGACTTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTACGGATGGCATGACAGTAAGAG
AATTATGCAGTGCTGCCATAACCATGAGTGATAACACTGCGGCCAACTTACTTCTGACAACGATCGGAGG
ACCGAAGGAGCTAACCGCTTTTTTGACACAACATGGGGGATCATGTAACCTCGCCTTGATCGTTGGGAACCG
GAGCTGAATGAAGCCATACCAAACGACGAGCGTGACACCACGATGCCTGTAGCAATGGCAACAACGTTGC
GCAAACCTATTAACCTGGCGAACTACTTACTCTAGCTTCCCGGCAACAATTAATAGACTGGATGGAGGCGGA
TAAAGTTGCAGGACCACTTCTGCGCTCGGCCCTTCCGGCTGGCTGGTTTATTGCTGATAAATCTGGAGCC
GGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTCCCGTATCGTAGTTA
TCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAATAGACAGATCGCTGAGATAGGTGCCTCACT
GATTAAGCATTGGTAACTGTGACACCAAGTTTACTCATATATACTTTAGATTGATTTAAACTTTCATTTT
TAATTTAAAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAATCCCTTAACGTGAGTTTT
CGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTTCTGCGCGT
AATCTGCTGCTTGCAAACAAAAAACCACCGCTACCAGCGGTGGTTTGTGTTGCCGGATCAAGAGCTACCA
ACTCTTTTTTCCGAAGGTAACCTGGCTTCAGCAGAGCGCAGATACCAAATACTGTTCTTCTAGTGAGCCGT
AGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTACCAGT
GGCTGCTGCCAGTGGCGATAAGTCGTGTCTTACCGGGTTGGACTCAAGACGATAGTTACCGGATAAGGCG
CAGCGGTGCGGCTGAACGGGGGGTTCGTGCACACAGCCAGCTTGAGCGAACGACCTACACCGAACTGA
GATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCGGACAGGTATCCGGT
AAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTCCAGGGGAAACGCCTGGTATCTTTATAGT
CCTGTGCGGTTTTCGCCACCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGGGGGGCGGAGCCTAT
GGAAAAACGCCAGCAACGCGGCCCTTTTTACGGTTCCTGGCCTTTTGCTGGCCTTTTGCTCACATGTTCTT
TCCTGCGTTATCCCCTGATTCTGTGGATAACCGTATTACCGCCTTTGAGTGAGCTGATACCGCTCGCCGC
AGCCGAACGACCGAGCGCAGCGAGTCAGTGAGCGAGGAAGCGGAAGAGCGCCCAATACGCAAACCGCCTC
TCCCCGCGCGTTGGCCGATTCATTAATGCAGCTGGCACGACAGGTTTCCCGACTGGAAAGCGGGCAGTGA

FIG. 4E

GCGCAACGCAATTAATGTGAGTTAGCTCACTCATTAGGCACCCAGGCTTTACACTTTATGCTCCCGGCT
CGTATGTTGTGTGGAATTGTGAGCGGATAACAATTTACACAGGAAACAGCTATGACCATGATTACGCCA
AGCGCGCAATTAACCCTCACTAAAGGGAACAAAAGCTGGGTACCGGGCCCACGCGTAATACGACTCACTA
TAG

FIG. 4F

Figure 5

Figure 6: Typical SEC purification chromatograms of select RSV F Antigens

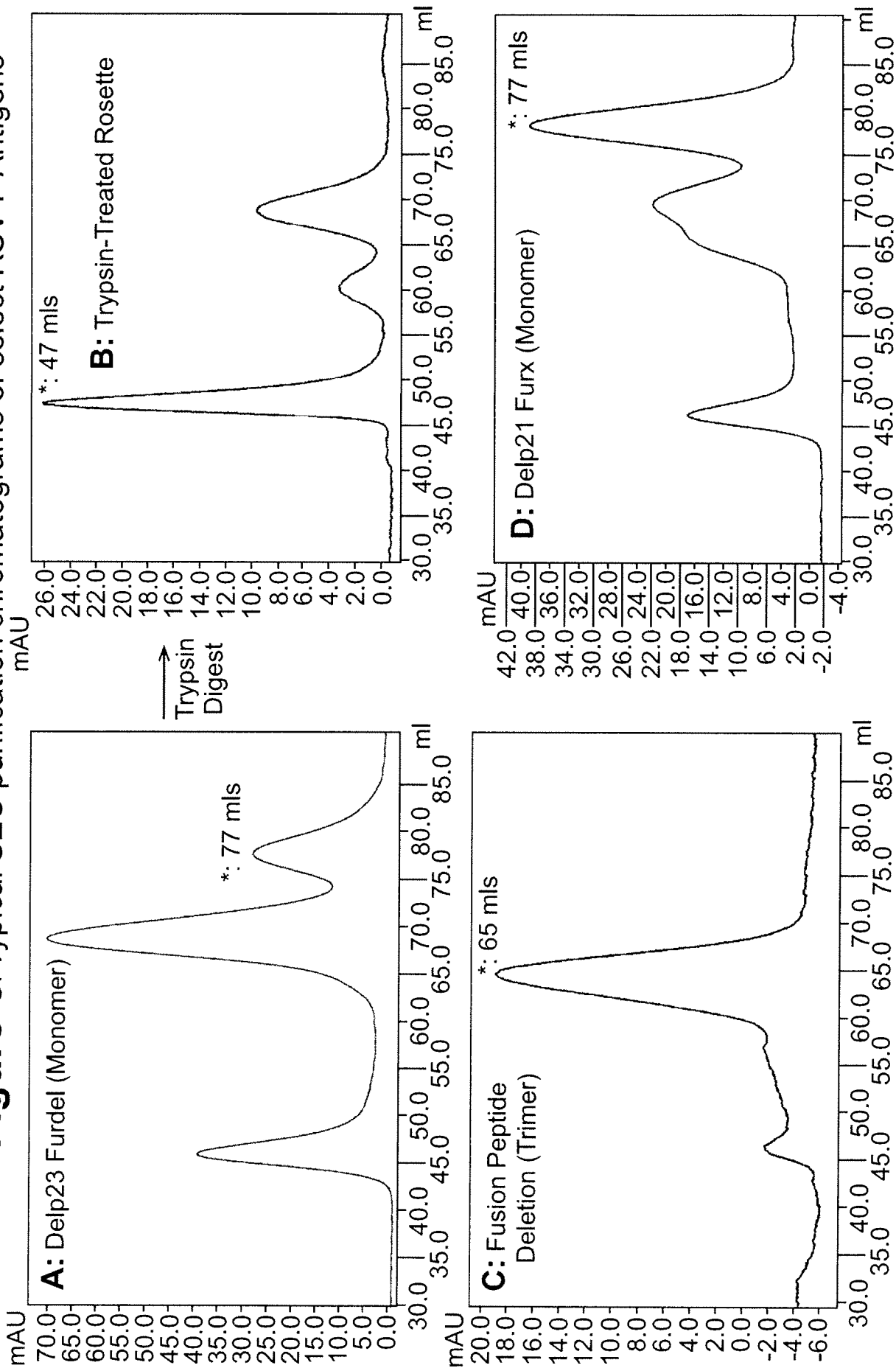


Figure 7: EM and SDS-PAGE analysis of RSV F antigen

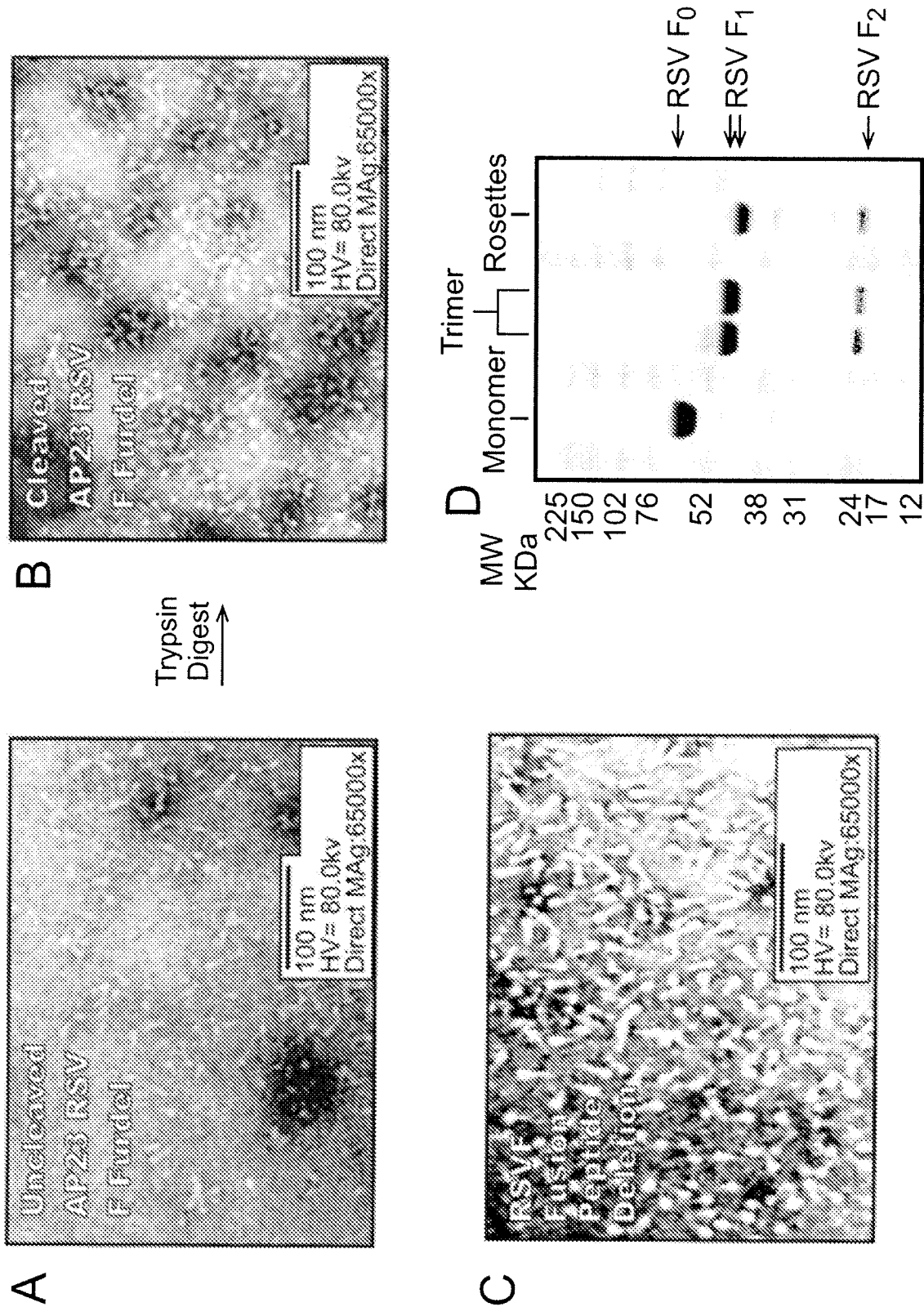


Figure 8: RSV-F subunit immunogenicity in cotton rats

