



results of BLAST

BLASTN 2.2.9 [May-01-2004]

Reference:

Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

RID: 1096573325-7535-15845173151.BLASTQ4

Query=

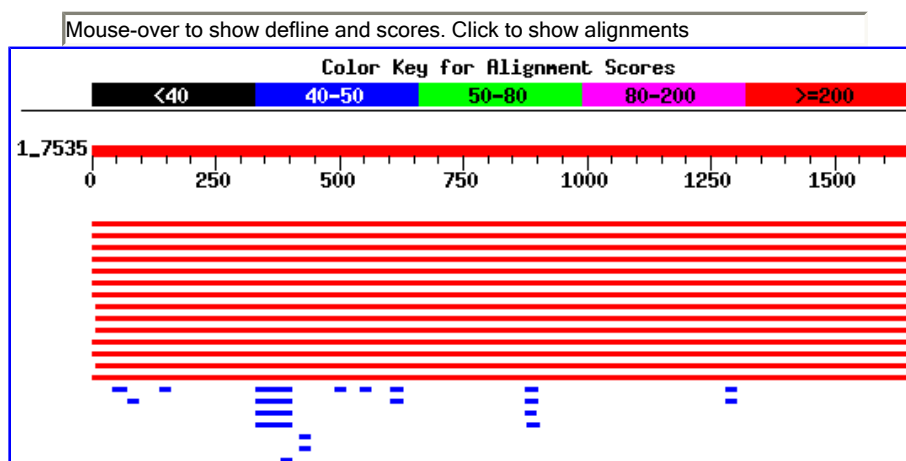
(1656 letters)

Database: All GenBank+EMBL+DDBJ+PDB sequences (but no EST, STS, GSS, environmental samples or phase 0, 1 or 2 HTGS sequences)
2,615,833 sequences; 11,857,287,733 total letters

If you have any problems or questions with the results of this search please refer to the [BLAST FAQs](#)

[Taxonomy reports](#)

Distribution of 34 Blast Hits on the Query Sequence



Sequences producing significant alignments:	Score (bits)	E Value
gi 9998888 emb AJ278916.1 PPA278916 Porcine parainfluenza v...	3283	0.0
gi 40218085 gb AY491509.1 Canine parainfluenza virus fusio...	3196	0.0
gi 2981085 gb AF052755.1 AF052755 Simian parainfluenza viru...	3108	0.0
gi 4127234 dbj AB021962.1 Simian parainfluenza virus 5 mRN...	3108	0.0
gi 335116 gb K02253.1 SV5PFC Simian virus 5, protein F mRNA...	3108	0.0
gi 49455228 emb AJ749980.1 Simian virus 5 P gene for phosp...	3069	0.0
gi 49455252 emb AJ749992.1 Simian virus 5 F gene for fusio...	3061	0.0
gi 49455246 emb AJ749989.1 Simian virus 5 F gene for fusio...	3051	0.0
gi 49455240 emb AJ749986.1 Simian virus 5 F gene for fusio...	3051	0.0
gi 49455244 emb AJ749988.1 Simian virus 5 F gene for fusio...	3035	0.0
gi 49455250 emb AJ749991.1 Simian virus 5 F gene for fusio...	3029	0.0
gi 49455248 emb AJ749990.1 Simian virus 5 F gene for fusio...	3029	0.0
gi 49455242 emb AJ749987.1 Simian virus 5 F gene for fusio...	3027	0.0
gi 6070393 dbj AB033629.1 Simian parainfluenza virus 5 SV5...	2942	0.0

gi 34194404 gb BC032915.2 	Homo sapiens cDNA clone IMAGE:52...	44	1.0	U
gi 46200439 emb BX072558.7 	Zebrafish DNA sequence from clo...	44	1.0	
gi 45725459 emb BX255895.6 	Zebrafish DNA sequence from clo...	44	1.0	
gi 61985 emb X57559.1 SNDNPPMF	Parainfluenza type 2 virus N...	44	1.0	
gi 12057238 emb AL390878.6 	Human DNA sequence from clone R...	44	1.0	
gi 26655523 gb AF533012.1 	Human parainfluenza virus 2 stra...	44	1.0	
gi 17149791 gb AC073957.7 	Homo sapiens BAC clone RP11-449P...	44	1.0	
gi 51890190 emb BX664731.12 	Zebrafish DNA sequence from cl...	44	1.0	
gi 332698 gb M60182.1 PIFFPRO	Human parainfluenza virus typ...	44	1.0	
gi 332696 gb M55698.1 PIFF0PB	Human parainfluenza type 2 vi...	44	1.0	G
gi 45774100 emb CR382279.1 	M.truncatula DNA sequence from ...	42	4.0	
gi 50839038 gb AC102229.7 	Mus musculus chromosome 15, clon...	42	4.0	
gi 50203518 gb AC142256.4 	Mus musculus chromosome 3 clone ...	42	4.0	
gi 50199014 gb AC145219.16 	Medicago truncatula clone mth2-...	42	4.0	
gi 11493281 emb AL356288.15 	Human DNA sequence from clone ...	42	4.0	
gi 17402760 gb AC026703.4 	Homo sapiens chromosome 5 clone ...	42	4.0	
gi 1082158 emb Z68121.1 CET24D3	Caenorhabditis elegans cosm...	42	4.0	
gi 46240889 gb AC118249.11 	Mus musculus chromosome 19, clo...	42	4.0	
gi 26093895 dbj AK050310.1 	Mus musculus adult male liver t...	42	4.0	U
gi 46559239 emb BX649547.7 	Zebrafish DNA sequence from clo...	42	4.0	

Alignments

Get selected sequences Select all Deselect all

>[gi|9998888|emb|AJ278916.1|PPA278916](#) Porcine parainfluenza virus mRNA for fusion protein (f gene)
Length = 1656

Score = 3283 bits (1656), Expect = 0.0
Identities = 1656/1656 (100%)
Strand = Plus / Plus

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[gi|40218085|gb|AY491509.1](#) Canine parainfluenza virus fusion protein mRNA, complete cds
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 Identities = 1645/1656 (99%)
 Strand = Plus / Plus

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[gi|2981085|gb|AF052755.1|AF052755](#) **D** Simian parainfluenza virus 5 nucleocapsid protein (NP), V protein a phosphoprotein (V/P), membrane protein (M), fusion protein (F), small hydrophobic protein (SH), hemagglutinin-neuraminidase protein (HN), and L protein (L) genes, complete cds
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 Identities = 1634/1656 (98%)
 Strand = Plus / Plus

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Sbjct: 5970 acgactacaagtgtattatccataatggcaatctgtcttgatcgtaggtttaatatta 6029

Query: 1501 ataactctgctcagtgtagttgtgtggaagttattgaccattgtcactgctaatacgaat 1560
          |||||
Sbjct: 6030 ataactctgctcagtgtagttgtgtggaagttattgaccattgtcactgctaatacgaat 6089

Query: 1561 agaatggagaattttgtttatcataaattcagcattccaccactcacgatctgatctcagt 1620
          |||||
Sbjct: 6090 agaatggagaattttgtttatcataaataagcattccaccactcacgatctgatctcagt 6149

Query: 1621 gagaaaaatcaacctgcaactcttgaacaagataa 1656
          |||||
Sbjct: 6150 gagaaaaatcaacctgcaactcttgaacaagataa 6185
    
```

>[gi|4127234|dbj|AB021962.1](#) Simian parainfluenza virus 5 mRNA for fusion protein, complete cds
 Length = 1702

Score = 3108 bits (1568), Expect = 0.0
 Identities = 1634/1656 (98%)
 Strand = Plus / Plus

```

Query: 1   atgggtactataattcaatttctggtggtctcctgtctattggcaggagcaggcagcctt 60
          |||
Sbjct: 30   atgggtactattattcaatttctggtggtctcctgtctattggcaggagcaggcagcctt 89

Query: 61   gatccagcagccctcatgcaaatcggtgtcattccaacaaatgtccggcaacttatgtat 120
          ||||
Sbjct: 90   gatctagcagccctcatgcaaatcggtgtcattccaacaaatgtccggcaacttatgtat 149

Query: 121  tatactgaggcctcatcagcattcattgttgaagttaatgcctacaattgactcgccg 180
          |||
Sbjct: 150  tatactgaggcctcatcagcattcattgttgaagttaatgcctacaattgactcgccg 209

Query: 181  attagtggatgtaataataacatcaatttcaagctataatgcaacagtgacaaaactccta 240
          |||
Sbjct: 210  attagtggatgtaataataacatcaatttcaagctataatgcaacagtgacaaaactccta 269

Query: 241  cagccgatcgggtgagaatttggaaacgattaggaaccagttgattccaactcggaggaga 300
          |||
Sbjct: 270  cagccgatcgggtgagaatttggagacgattaggaaccagttgattccaactcgggagaaga 329

Query: 301  cgccggtttgcaggggtggtgattggattagctgcattaggagtagctactgccgcacag 360
          |||
Sbjct: 330  cgccggtttgcaggggtggtgattggattagctgcattaggagtagctactgccgcacag 389

Query: 361  gtcactgccgcagtagcactagtaaggcaataaaaatgctgcggtataactcaatctc 420
          |||
Sbjct: 390  gtcactgccgcagtagcactagtaaggcaaatgaaaatgctgcggtataactcaatctc 449

Query: 421  aaaaatgcaatcaaaaaacaaatacagcagttgcagatgtggtccaggccacacaatca 480
          |||
Sbjct: 450  aaaaatgcaatcaaaaaacaaatgcagcagttgcagatgtggtccaggccacacaatca 509

Query: 481  ctaggaacggcagttcaagcagttcaagatcacataaacagtggtgtaagtccagcaatt 540
          |||
Sbjct: 510  ctaggaacggcagttcaagcagttcaagatcacataaacagtggtgtaagtccagcaatt 569

Query: 541  acagcagccaattgtaaggccaagatgctatcattggctcaatcctcaatctctatttg 600
          |||
Sbjct: 570  acagcagccaattgtaaggccaagatgctatcattggctcaatcctcaatctctatttg 629

Query: 601  accgagttgacaactatcttcacaatcaattacaaccctgcattgagtcctattaca 660
          |||
Sbjct: 630  accgagttgacaaccatcttcacaatcaattacaaccctgcattgagtcctattaca 689

Query: 661  attcaagctttaaggatcctactggggagtaccttgccgactgtggtcgaaaaatctttc 720
          |||
Sbjct: 690  attcaagctttaaggatcctactggggagtaccttgccgactgtggtcgaaaaatctttc 749

Query: 721  aataccagataagtgcagctgagcttctctcatcagggttattgacaggccagattgtg 780
          |||
Sbjct: 750  aataccagataagtgcagctgagcttctctcatcagggttattgacaggccagattgtg 809

Query: 781  ggattagatttgacctatagcagatggtcataaaaattgagctgccaactttaactgta 840
          |||
Sbjct: 810  ggattagatttgacctatagcagatggtcataaaaattgagctgccaactttaactgta 869

Query: 841  caacctgcaaccagatcatagatctggccaccatttctgcattcattaacaatcaagaa 900
          |||
Sbjct: 870  caacctgcaaccagatcatagatctggccaccatttctgcattcattaacaatcaagaa 929
    
```

```

Query: 901  gtcattggcccaattaccaacacgtgttatgtgactggcagcttgatccaagcctatccc 960
          |||
Sbjct: 930  gtcattggcccaattaccaacacgtgttatgtgactggcagcttgatccaagcctatccc 989

Query: 961  gcatcgcaatgcactattacaccaacactgtgtactgttaggtataatgatgcccaagta 1020
          |||
Sbjct: 990  gcatcgcaatgcaccattacaccaacactgtgtactgttaggtataatgatgcccaagta 1049

Query: 1021 ctctcagatgatacagatggcttgctccaaggtaacttgacaagatgcaccttctctccg 1080
          |||
Sbjct: 1050 ctctcagatgatactatggcttgctccaaggtaacttgacaagatgcaccttctctcca 1109

Query: 1081 gtggttgggagctttctcactcgattcatgctgttcgatggaatagttatgcaaattgc 1140
          |||
Sbjct: 1110 gtggttgggagctttctcactcgattcatgctgttcgatggaatagttatgcaaattgc 1169

Query: 1141 aggtcagatggtatgcaagtgcacgctgctgctgtgatcctacagccgagttcatcc 1200
          |||
Sbjct: 1170 aggtcagatggtatgcaagtgcacacctgctgctgtgatcctacagccgagttcatcc 1229

Query: 1201 cctgtaactgtcattgacatgtacaaatgtgtgagctctgcagcttgacaatctcagattc 1260
          |||
Sbjct: 1230 cctgtaactgtcattgacatgtacaaatgtgtgagctctgcagcttgacaatctcagattc 1289

Query: 1261 accatcactcaattggccaatgtaacctacaatagcaccatcaagcttgaacatcccag 1320
          |||
Sbjct: 1290 accatcactcaattggccaatgtaacctacaatagcaccatcaagcttgaatcatcccag 1349

Query: 1321 atcttgcttattgatccggtggatataatcccagaatctagctgcggtgaataagagtcta 1380
          |||
Sbjct: 1350 atcttgcttattgatccggtggatataatcccagaatctagctgcggtgaataagagtcta 1409

Query: 1381 agtgatgcactacaacacttagcacaagtgcacacatcctttctgcaatcacatcagct 1440
          |||
Sbjct: 1410 agtgatgcactacaacacttagcacaagtgcacacatcctttctgcaatcacatcagct 1469

Query: 1441 acgactacaagtgtattatccataatggcaatctgtcttgatcgtaggtttaatatta 1500
          |||
Sbjct: 1470 acgactacaagtgtattatccataatagcaatctgtcttgatcgtaggtttaatatta 1529

Query: 1501 ataactcttgctcagtgtagttgtgtggaagttattgaccattgtcactgctaatacgaat 1560
          |||
Sbjct: 1530 ataactcttgctcagtgtagttgtgtggaagttattgaccattgtcactgctaatacgaat 1589

Query: 1561 agaatggagaatcttggttatcataatcagcattccaccactcacgatctgatctcagt 1620
          |||
Sbjct: 1590 agaatggagaatcttggttatcataaataagcattccaccactcacgatctgatctcagt 1649

Query: 1621 gagaaaaatcaacctgcaactcttggacaagataa 1656
          |||
Sbjct: 1650 gagaaaaatcaacctgcaactcttggacaagataa 1685
    
```

[gi|335116|gb|K02253.1|SV5PFC](#) Simian virus 5, protein F mRNA, complete cds
 Length = 1873

Score = 3108 bits (1568), Expect = 0.0
 Identities = 1634/1656 (98%)
 Strand = Plus / Plus

```

Query: 1      atgggtactataattcaatttctgggtgctcctgtctattggcaggagcaggcgcctt 60
          |||
Sbjct: 194    atgggtactataattcaatttctgggtgctcctgtctattggcaggagcaggcgcctt 253
    
```



```

Query: 1021 ctctcagatgatacggcttgctccaaggtaacttgacaagatgcaccttctctccg 1080
      |||
Sbjct: 1214 ctctcagatgatactatggcttgctccaaggtaacttgacaagatgcaccttctctcca 1273

Query: 1081 gtgggtgggagctttctcactcgattcgtgctggtcgatggaatagttatgcaaattgc 1140
      |||
Sbjct: 1274 gtgggtgggagctttctcactcgattcgtgctggtcgatggaatagttatgcaaattgc 1333

Query: 1141 aggtcgatggttatgcaagtgcacgacgctgctgctggtgatcctacagccgagttcatcc 1200
      |||
Sbjct: 1334 aggtcgatggttgcaagtgcacacgctgctgctggtgatcctacagccgagttcatcc 1393

Query: 1201 cctgtaactgtcattgacatgtacaaatgtgtgagctctgcagcttgacaatctcagattc 1260
      |||
Sbjct: 1394 cctgtaactgtcattgacatgtacaaatgtgtgagctctgcagcttgacaatctcagattc 1453

Query: 1261 accatcactcaattggccaatgtaacctacaatagcaccatcaagcttgaaacatcccag 1320
      |||
Sbjct: 1454 accatcactcaattggccaatgtaacctacaatagcaccatcaagcttgaatcatcccag 1513

Query: 1321 atcttgcttattgatccggttgatataatcccagaatctagctgctggtgaataagagtcta 1380
      |||
Sbjct: 1514 atcttgcttattgatccggttgatataatcccaaatctagctgctggtgaataagagtcta 1573

Query: 1381 agtgatgcactacaacacttagcacaagtgcacacatcctttctgcaatcacatcagct 1440
      |||
Sbjct: 1574 agtgatgcactacaacacttagcacaagtgcacacatcctttctgcaatcacatcagct 1633

Query: 1441 acgactacaagtgtattatccataatggcaatctgtcttgatcggttaggttaataatta 1500
      |||
Sbjct: 1634 acgactacaagtgtattatccataatagcaatctgtcttgatcggttaggttaataatta 1693

Query: 1501 ataactcttgctcagtgtagttgtgtggaagttattgaccattgtcactgctaatacgaat 1560
      |||
Sbjct: 1694 ataactcttgctcagtgtagttgtgtggaagttattgaccattgtcactgctaatacgaat 1753

Query: 1561 agaatggagaatttgtttatcataaataagcattccaccactcacgatctgatctcagt 1620
      |||
Sbjct: 1754 agaatggagaatttgtttatcataaataagcattccaccactcacgatctgatctcagt 1813

Query: 1621 gagaaaaatcaacctgcaactcttgaacaagataa 1656
      |||
Sbjct: 1814 gagaaaaatcaacctgcaactcttgaacaagataa 1849
    
```

[gi|49455228|emb|AJ749980.1](#) Simian virus 5 P gene for phosphoprotein, genomic RNA, isolate CPI+
 Length = 1656

Score = 3069 bits (1548), Expect = 0.0
 Identities = 1629/1656 (98%)
 Strand = Plus / Plus

```

Query: 1 atgggtactataattcaatttctgggtgctcctgtctattggcaggagcaggcgcctt 60
      |||
Sbjct: 1 atgggtactataattcaatttctgggtgctcctgtctattggcaggagcaggcgcctt 60

Query: 61 gatccagcagccctcatgcaaactcggtgtcattccaacaaatgtccggcaacttatgtat 120
      |||
Sbjct: 61 gatccagcagcactcatgcaaactcggtgtcattccaacaaatgtccggcaacttatgtat 120

Query: 121 tatactgaggcctcatcagcattcattgttgtgaagttaatgcctacaattgactcgccg 180
      |||
Sbjct: 121 tatactgaggcctcatcagcattcattgttgtgaagttaatgcctacaattgactcgccg 180
    
```

```
Query: 181 attagtgatgtaataataacatcaatttcaagctataatgcaacagtgacaaaactccta 240
|||||
Sbjct: 181 attagtgatgtaataataacatcaatttcaagctataatgcaacagtgacaaaactccta 240

Query: 241 cagccgatcgggtgagaatttgaaacgattaggaaccagttgattccaactcggaggaga 300
|||||
Sbjct: 241 cagccgatcgggtgagaatttgaaacgattaggaaccagttgattccaactcggaggaga 300

Query: 301 cgccggtttgcaggggtggtgattggattagctgcattaggagtagctactgccgcacag 360
|||||
Sbjct: 301 cgccggtttgcaggggtggtgattggattagctgcattaggagtagctactgctgcacag 360

Query: 361 gtcactgccgcagtagcactagtaaggcaataaaaatgctgcggtataactcaatctc 420
|||||
Sbjct: 361 gtcactgccgcagtagcactagtaaggcaataaaaatgctgcggtataactcaatctc 420

Query: 421 aaaaatgcaatccaaaaaacaatacagcagttgcagatgtggtccaggccacacaatca 480
|||||
Sbjct: 421 aaaaatgcaatccaaaaaacaatgcagcagttgcagatgtggtccaggccacacaatca 480

Query: 481 ctaggaacggcagttcaagcagttcaagatcacataaacagtggtgtaagtccagcaatt 540
|||||
Sbjct: 481 ctaggaacggcagttcaagcagttcaagatcacataaacagtggtgtaagtccagcaatt 540

Query: 541 acagcagccaattgtaaggccaagatgctatcattggctcaatcctcaatctctatttg 600
|||||
Sbjct: 541 acagcagccaattgtaaggccaagatgctatcattggctcaatcctcaatctctatttg 600

Query: 601 accgagttgacaactatcttcacaatcaaattacaaccctgcattgagtcctattaca 660
|||||
Sbjct: 601 accgagttgacaactatcttcacaatcaaattacaaccctgcattgagtcctattaca 660

Query: 661 attcaagctttaaggatcctactggggagtagcttgcgactgtggtcgaaaaatctttc 720
|||||
Sbjct: 661 attcaagctttaaggatcctactggggagtagcttgcgactgtggtcgaaaaatctttc 720

Query: 721 aataccagataaagtgacagctgagcttctctcatcagggttattgacaggccagatttg 780
|||||
Sbjct: 721 aataccagataaagtgacagctgagcttctctcatcagggttattgacaggccagatttg 780

Query: 781 ggattagatttgacctatagcagatggtcataaaaattgagctgccaactttaactgta 840
|||||
Sbjct: 781 ggattagatttgacctatagcagatggtcataaaaattgagctgccaactttaactgta 840

Query: 841 caacctgcaaccagatcatagatctggccaccatttctgattcattaacaatcaagaa 900
|||||
Sbjct: 841 caacctgcaaccagatcatagatctggccaccataatctgattcattaacaatcaagaa 900

Query: 901 gtcattgcccattacacacagtggtattgtgactggcagcttgatccaagcctatccc 960
|||||
Sbjct: 901 gtcattgcccattacacacagtggtattgtgactggcagcttgatccaagcctatccc 960

Query: 961 gcatcgcaatgactattacaccaacactgtgtactgtaggtataatgatgcccaagta 1020
|||||
Sbjct: 961 gcatcgcaatgactattacaccaacactgtgtactgtaggtataatgatgcccaagta 1020

Query: 1021 ctctcagatgatacagatggcttgcctccaaggtaacttgacaagatgcaccttctctccg 1080
|||||
Sbjct: 1021 ctctcagatgatacagatggcttgcctccaaggtaacttgacaagatgcaccttctctcca 1080

Query: 1081 gtggttgggagcttctcactcgattcatgctgttcgatggaatagttatgcaaattgc 1140
|||||
Sbjct: 1081 gtggttgggagcttctcactcgattcatgctgttcgatggaatagttatgcaaattgc 1140
```



```
Query: 301 cgccggtttgaggggtggtgattggattagctgcattaggagtagctactgccgcacag 360
          |||
Sbjct: 301 cgccggtttgaggggtggtgattggattagctgcattaggagtagctactgctgcacag 360

Query: 361 gtcactgccgcagtagcactagtaaaaggcaataaaaatgctgcggtataactcaatctc 420
          |||
Sbjct: 361 gtcactgccgcagtagcactagtaaaaggcaataaaaatgctgcggtataactcaatctc 420

Query: 421 aaaaatgcaatccaaaaaaacaatacagcagttgcagatgtggtccaggccacacaatca 480
          |||
Sbjct: 421 aaaaatgcaatccaaaaaaacaatgcagcagttgcagatgtggtccaggccacacaatca 480

Query: 481 ctaggaacggcagttcaagcagttcaagatcacataaacagtggtgtaagtccagcaatt 540
          |||
Sbjct: 481 ctaggaacggcagttcaagcagttcaagatcacataaacagtggtgtaagtccagcaatt 540

Query: 541 acagcagccaattgtaaggccaagatgctatcattggctcaatcctcaatctctatttg 600
          |||
Sbjct: 541 acagcagccaattgtaaggccaagatgctatcattggctcaatcctcaatctctatttg 600

Query: 601 accgagttgacaactatctccacaatcaaatcaaacctgcattgagtcctattaca 660
          |||
Sbjct: 601 accgagttgacaactatctccacaatcaaatcaaacctgcattgagtcctattaca 660

Query: 661 attcaagctttaaggatcctactggggagtaccttgccgactgtggtcgaaaaatctttc 720
          |||
Sbjct: 661 attcaagctttaaggatcctactggggagtaccttgccgactgtggtcgaaaaatctttc 720

Query: 721 aataccagataaagtgacagctgagcttctctcatcagggttattgacaggccagatttg 780
          |||
Sbjct: 721 aataccagataaagtgacagctgagcttctctcatcagggttattgacaggccagatttg 780

Query: 781 ggattagatttgacctatagcagatggtcataaaaattgagctgccaactttaactgta 840
          |||
Sbjct: 781 ggattagatttgacctatagcagatggtcataaaaattgagctgccaactttaactgta 840

Query: 841 caacctgcaaccagatcatagatctggccaccatttctgcattcattaacaatcaagaa 900
          |||
Sbjct: 841 caacctgcaaccagatcatagatctggccaccatctgcattcattaacaatcaagaa 900

Query: 901 gtcattggccaattacaaacacgtgtattgtgactggcagcttgatccaagcctatccc 960
          |||
Sbjct: 901 gtcattggccaattacaaacacgtgtattgtgactggcagcttgatccaagcctatccc 960

Query: 961 gcatcgcaatgcactattacaccaacactgtgtactgtaggtataatgatgcccaagta 1020
          |||
Sbjct: 961 gcatcgcaatgcactattacaccaacactgtgtactgtaggtataatgatgcccaagta 1020

Query: 1021 ctctcagatgatacagatggcttgctccaaggtaacttgacaagatgcaccttctctccg 1080
          |||
Sbjct: 1021 ctctcagatgatacagatggcttgctccaaggtaacttgacaagatgcaccttctctcca 1080

Query: 1081 gtggttgggagcttctcactcgattcgtgctggtcgatggaatagttatgcaaattgc 1140
          |||
Sbjct: 1081 gtggttgggagcttctcactcgattcgtgctggtcgatggaatagttatgcaaattgc 1140

Query: 1141 aggtcgatggtatgcaagtgcagcctgctgctgctgatcctacagccagttcatcc 1200
          |||
Sbjct: 1141 aggtcgatggtatgcaagtgcagcctgctgctgctgatcctacagccagttcatcc 1200

Query: 1201 cctgtaactgtcattgacatgtacaaatgtgtgagctctgcagcttgacaatctcagattc 1260
          |||
Sbjct: 1201 cctgtaactgtcattgacatacacaatgtgtgagctctgcagcttgacaatctcagattc 1260

Query: 1261 accatcactcaattggccaatgtaacctacaatagcaccatcaagcttgaacatcccag 1320
```

```

Sbjct: 1261 |||||
accatcactcaattggccaatgtaacctacaatagcaccatcaagcttgaaacatcccag 1320

Query: 1321 atcttgctattgatccgttgatatatcccagaatctagctgcggtgaataagagtcta 1380
|||||
Sbjct: 1321 atcttgctattgatccgttgatatatcccagaatctagctgcggtgaataagagtcta 1380

Query: 1381 agtgatgcactacaacacttagcacaaagtgacacatacctttctgcaatcacatcagct 1440
|||||
Sbjct: 1381 agtgatgcactacaaaacttagcacaaagtgacacatacctttctgcaatcacatcagct 1440

Query: 1441 acgactacaagtgattatccataatggcaatctgtcttgatcgtaggtttaatatta 1500
|||||
Sbjct: 1441 acgactacaagtgattatccataatagcaatctgtcttgatcgtaggtttaatatta 1500

Query: 1501 ataatcttgctcagtgtagttgtgtggaagttattgaccattgtcactgctaatacgaat 1560
|||||
Sbjct: 1501 ataatcttgctcagtgtagctgtgtggagttactgaccattgtcgcgctgctaatacgaat 1560

Query: 1561 agaatggagaattttgtttatcataattcagcattccaccactcacgatctgatctcagt 1620
|||||
Sbjct: 1561 agaatggagaattttgtttatcataattcagcattttaccactcacgatctgatctcagt 1620

Query: 1621 gagaaaaatcaacctgcaactcctggaacaagataa 1656
|||||
Sbjct: 1621 gagaaaaatcaacctgcaactcctggaacaagataa 1656

```

[gi|49455246|emb|AJ749989.1](#) Simian virus 5 F gene for fusion protein, genomic RNA, isolate MIL
 Length = 1656

Score = 3051 bits (1539), Expect = 0.0
 Identities = 1620/1647 (98%)
 Strand = Plus / Plus

```

Query: 10  ataattcaatttctgggtgctcctgtctattggcaggagcaggcagccttgatccagca 69
|||||
Sbjct: 10  ataattcaatttctgggtgctcctgtctattggcaggagcaggcagccttgatccagca 69

Query: 70  gccctcatgcaaatcgggtgctattccaacaaatgtccggcaacttatgtattatactgag 129
|||||
Sbjct: 70  gccctcatgcaaatcgggtgctattccaacaaatgtccggcaacttatgtattatactgag 129

Query: 130  gcctcatcagcattcattgttgtgaagttaatgcctacaattgactcgccgattagtga 189
|||||
Sbjct: 130  gcctcatcagcattcattgttgtgaagttaatgcctacaattgactcgccgattagtga 189

Query: 190  tgtaatataaacatcaatttcaagctataatgcaacagtgacaaaactcctacagccgatc 249
|||||
Sbjct: 190  tgtaatataaacatcaatttcaagctataatgcaacagtgacaaaactcctacagccgatc 249

Query: 250  ggtgagaatttggaaacgattaggaaccagttgattccaactcggaggagacgcccgttt 309
|||||
Sbjct: 250  ggtgagaatttggagacaattaggaaccagttgattccaactcggaggagacgcccgttt 309

Query: 310  gcaggggtggtgattggattagctgcattaggagtagctactgccgcacaggtcactgcc 369
|||||
Sbjct: 310  gcaggggtggtgattggattagctgcattaggagtagctactgccgcacaggtcactgcc 369

Query: 370  gcagtagcactagtaaaggcaataaaaaatgctgaggctataactcaatctcaaaaatgca 429
|||||
Sbjct: 370  gcagtagcactagtaaaggcaaatgaaaaatgctgaggctataactcaatctcaaaaatgca 429

Query: 430  atccaaaaaacaatacagcagttgcagatgtggtccaggccacacaatcactaggaacg 489

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```

Sbjct: 1390 ctacaacacttagcacagagtgacacatacctttctgcaatcacatcagctacgactaca 1449

Query: 1450 agtgtattatccataatggcaatctgtcttggatcgttaggtttaatattaataatcttg 1509
          |||
Sbjct: 1450 agtgtattatccataatagcaatctgtcttggatcgttaggtttcatattaataatcttg 1509

Query: 1510 ctcagtgtagttgtgtggaagttattgaccattgtcactgctaatacgaaatagaatggag 1569
          |||
Sbjct: 1510 ctcagtgtagttgtgtggaagttattgaccattgtcactgctaatacgaaatagaatggag 1569

Query: 1570 aattttgtttatcataattcagcattccaccactcagatctgatctcagtgagaaaaat 1629
          |||
Sbjct: 1570 aattttgtttatcataatcaagcattccatcactcacaatctgatctcagtgagaaaaat 1629

Query: 1630 caacctgcaactcttggacaagataa 1656
          |||
Sbjct: 1630 caacctgcaactcttggacaagataa 1656
    
```

[gi|49455240|emb|AJ749986.1](#) Simian virus 5 F gene for fusion protein, genomic RNA, isolate DEN
 Length = 1656

Score = 3051 bits (1539), Expect = 0.0
 Identities = 1620/1647 (98%)
 Strand = Plus / Plus

```

Query: 10  ataattcaatttctggtggtctcctgtctattggcaggagcaggcagccttgatccagca 69
          |||
Sbjct: 10  ataattcaatttctggtggtctcctgtctattggcaggagcaggcggccttgatccagca 69

Query: 70  gcocctcatgcaaatcggtgtcattccaacaaatgtccggcaacttatgtattatactgag 129
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Sbjct: 70  gcocctcatgcaaatcggtgtcattccaacaaatgtccggcaacttatgtattatactgag 129

Query: 130  gcctcatcagcattcattgttgtgaagttaatgcctacaattgactcgccgattagtgga 189
          |||
Sbjct: 130  gcctcatcagcattcattgttgtgaagttaatgcctacaattgactcgccgattagtgga 189

Query: 190  tgtaatataacatcaatttcaagctataatgcaacagtgacaaaactcctacagccgatc 249
          |||
Sbjct: 190  tgtaatataacatcaatttcaagctataatgcaacagtgacaaaactcctacagccgatc 249

Query: 250  ggtgagaatttggaaacgattaggaaccagttgattccaactcggaggagacgccggttt 309
          |||
Sbjct: 250  ggtgagaatttggagacaattaggaaccagttgattccaactcggaggagacgccggttt 309

Query: 310  gcaggggtggtgattggattagctgcattaggagtagctactgccgcacaggtcactgcc 369
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Sbjct: 310  gcaggggtggtgattggattagctgcattaggagtagctactgccgcacaggtcactgcc 369

Query: 370  gcagtagcactagtaaaaggcaataaaaaatgctgcggtataactcaatctcaaaaatgca 429
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Sbjct: 370  gcagtagcactagtaaaaggcaaatgaaaaatgctgcggtataactcaatctcaaaaatgca 429

Query: 430  atccaaaaaacaatacagcagttgcagatgtggtccaggccacacaatcactaggaacg 489
          |||
Sbjct: 430  atccaaaaaacaatgctgagcagttgcagcagttggtccaggccacacaatcactaggaacg 489

Query: 490  gcagttcaagcagttcaagatcacataaacagtggtgtaagtccagcaattacagcagcc 549
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Sbjct: 490  gcagttcaagcagttcaagatcacataaacagtggtgtaagtccagcaattacagcagcc 549

Query: 550  aattgtaaggcccaagatgctatcattggctcaatcctcaatctctatttgaccgagttg 609
          |||
    
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Sbjct: 550 aattgtaaggcccaagatgctatcattggctcaatcctcaatctctatttgaccgagttg 609

Query: 610 acaactatctttccacaatcaaattacaaaccctgcattgagtcctattacaattcaagct 669
|||||
Sbjct: 610 acaactatctttccacaatcaaattacaaaccctgcattgagtcctattacaattcaagct 669

Query: 670 ttaaggatcctactggggagtagccttgccgactgtggctcgaaaaatctttcaataccag 729
|||||
Sbjct: 670 ttaaggatcctactggggagtagccttgccgactgtggctcgaaaaatctttcaataccag 729

Query: 730 ataagtgcagctgagcttctctcatcagggttattgacaggccagattgtgggattagat 789
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Sbjct: 730 ataagtgcagctgagcttctctcatcagggttattaacaggccagattgtgggattagat 789

Query: 790 ttgacctatgatgcagatggtcataaaaattgagctgccaactttaactgtacaacctgca 849
|||||
Sbjct: 790 ttgacctatgatgcagatggtcataaaaattgagctgccaactttaactgtacaacctgca 849

Query: 850 acccagatcatagatctggccaccatttctgcattcattaacaatcaagaagtcagggcc 909
|||||
Sbjct: 850 acccagatcatagatctggccaccatttctgcattcattaacaatcaagaagtcagggcc 909

Query: 910 caattaccaacacgtgttattgtgactggcagcttgatccaagcctatcccgcactcga 969
|||||
Sbjct: 910 caattaccaacacgtgttattgtgactggcagcttgatccaagcctatcccgcactcga 969

Query: 970 tgcactattacaccaactgtgtactgtaggtataatgatgcccaagtactctcagat 1029
|||||
Sbjct: 970 tgcactatcacaccaactgtgtactgtaggtataatgatgcccaagtactctcagat 1029

Query: 1030 gatacgatggcttgccctcaaggttaacttgacaagatgcaccttctctccggtggttggg 1089
|||||
Sbjct: 1030 gatactatggcttgccctcaaggttaacttgacaagatgcaccttctctccagtggttggg 1089

Query: 1090 agctttctcactcgattcatgctgttcgatggaatagtttatgcaaattgcaggtcgatg 1149
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Sbjct: 1090 agctttctcactcgattcgtgctgttcgatggaatagtttatgcaaattgcaggtcgatg 1149

Query: 1150 ttatgcaagtgcagcagcctgctgctgtgatcctacagccgagttcatcccctgtaact 1209
||
Sbjct: 1150 ttgtgcaagtgcagcagcctgctgctgtgatcctacagccgagttcatcccctgtaact 1209

Query: 1210 gtcattgacatgtacaaatgtgtgagttgcagcttgataatctcagattcaccatcact 1269
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Sbjct: 1210 gtcattgacatgtacaaatgtgtgagttgcagcttgataatctcagattcaccatcact 1269

Query: 1270 caattggccaatgtaacctacaatagcaccatcaagcttgaacatcccagatcttgct 1329
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Sbjct: 1270 caattggccaatgtaacctacaatagcaccatcaagcttgaatcatcccagatcttgct 1329

Query: 1330 attgatccggttgatataatcccagaatctagctgcggtgaataagagtctaagtgatgca 1389
|||||
Sbjct: 1330 attgatccggttgatataatcccagaatctagctgcggtgaataagagtctaagtgatgca 1389

Query: 1390 ctacaacacttagcacaaagtgcacatacctttctgcaatcacatcagctacgactaca 1449
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Sbjct: 1390 ctacaacacttagcacagagtgcacatacctttctgcaatcacatcagctacgactaca 1449

Query: 1450 agtgtattatccataatggcaatctgtcttgatcggttaggtttaatattaataatcttg 1509
|||||
Sbjct: 1450 agtgtattatccataatagcaatctgtcttgatcggttaggtttcatattaataatcttg 1509

Query: 1510 ctcagtgtagttgtgtggaagttattgaccattgtcactgctaatacgaaatagaatggag 1569
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Sbjct: 1510 ctcagtgtagttgtgtggaagttattgaccattgtcactgctaatacgaaatagaatggag 1569

Query: 1570 aatthttgtttatcataattcagcattccaccactcagatctgatctcagtgagaaaaat 1629
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 Sbjct: 1570 aatthttgtttatcataatcaagcattccatcactcacaatctgatctcagtgagaaaaat 1629

Query: 1630 caacctgcaactcttggacaagataa 1656
 |||
 Sbjct: 1630 caacctgcaactcttggacaagataa 1656

[gi|49455244|emb|AJ749988.1](#) Simian virus 5 F gene for fusion protein, genomic RNA, isolate MEL
 Length = 1656

Score = 3035 bits (1531), Expect = 0.0
 Identities = 1618/1647 (98%)
 Strand = Plus / Plus

Query: 10 ataattcaatttctggtggtctcctgtctattggcaggagcaggcagccttgatccagca 69
 |||
 Sbjct: 10 ataattcaatttctggtggtctcctgtctattggcaggagcaggcagccttgatccagca 69

Query: 70 gccctcatgcaaatcgggtgtcattccaacaaatgtccggcaacttatgtattatactgag 129
 |||
 Sbjct: 70 gccctcatgcaaatcgggtgtcattccaacaaatgtccggcaacttatgtattatactgag 129

Query: 130 gcctcatcagcattcattggttgaagttaatgcctacaattgactcgccgattagtga 189
 |||
 Sbjct: 130 gcctcatcagcattcattggttgaagttaatgcctacaattgactcgccgattagtga 189

Query: 190 tgtaatataacatcaatttcaagctataatgcaacagtgacaaaactcctacagccgatc 249
 |||
 Sbjct: 190 tgtaatataacatcaatttcaagctataatgcaacagtgacaaaactcctacagccgatc 249

Query: 250 ggtgagaatttggaaacgattaggaaccagttgattccaactcggaggagacgccggttt 309
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 Sbjct: 250 ggtgagaatttggagacaattaggaaccagttgattccaactcggaggagacgccggttt 309

Query: 310 gcaggggtggtgattggattagctgcattaggagtagctactgccgcacaggtcactgcc 369
 |||
 Sbjct: 310 gcaggggtggtgattggattagctgcattaggagtagctactgccgcacaggtcactgcc 369

Query: 370 gcagtagcactagtaaaggcaataaaaaatgctgcggctataactcaatctcaaaaatgca 429
 |||
 Sbjct: 370 gcagtagcactagtaaaggcaaatgaaaatgctgcggctataactcaatctcaaaaatgca 429

Query: 430 atccaaaaaacaaatacagcagttgcagatgtggtccaggccacacaatcactaggaacg 489
 |||
 Sbjct: 430 atccaaaaaacaaatgcggcagttgcagacgtggtccaggccacacaatcactaggaacg 489

Query: 490 gcagttcaagcagttcaagatcacataaacagtggtgtaagtccagcaattacagcagcc 549
 |||
 Sbjct: 490 gcagttcaagcagttcaagatcacataaacagtggtgtaagtccagcaattacagcagcc 549

Query: 550 aattgtaaggccaagatgctatcattggctcaatcctcaatctctatttgaccgagttg 609
 |||
 Sbjct: 550 aattgtaaggccaagatgctatcattggctcaatcctcaatctctatttgaccgagttg 609

Query: 610 acaactatcttccacaatcaaattacaaaccctgcattgagtcctattacaattcaagct 669
 |||
 Sbjct: 610 acaactatcttccacaatcaaattacaaaccctgcattgagtcctattacaattcaagct 669

Query: 670 ttaaggatcctactggggagtagcttgcgactgtggtcgaaaaatctttcaataaccag 729
 |||
 Sbjct: 670 ttaaggatcctactggggagtagcttgcgactgtggtcgaaaaatctttcaataaccag 729

[gi|49455250|emb|AJ749991.1|](#) Simian virus 5 F gene for fusion protein, genomic RNA, isolate H22
Length = 1656

Score = 3029 bits (1528), Expect = 0.0
Identities = 1624/1656 (98%)
Strand = Plus / Plus

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Query: 1   atgggtactataattcaatttctgggtgctcctgtctattggcaggagcaggcagcctt 60
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Sbjct: 1   atgggtactagaattcaatttctgggtgctcctgtctattggcaggatcaggcagcctt 60

Query: 61   gatccagcagccctcatgcaaatcggtgtcattccaacaaatgtccggcaacttatgtat 120
          |||
Sbjct: 61   gatccagcagccctcatgcaaatcggtgtcattccaacaaatgtccggcaacttatgtat 120

Query: 121  tatactaggcctcatcagcattcattgtgtggaagttaatgcctacaattgactcgccg 180
          ||
Sbjct: 121  tacactaggcctcatcagcattcattgtgtggaagttaatgcctacaattgactcgccg 180

Query: 181  attagtggatgtaataataacatcaatttcaagctataatgcaacagtgacaaaactccta 240
          |||
Sbjct: 181  attagtggatgtaataataacatccatttcaagctataatgcaacagtgacaaaactccta 240

Query: 241  cagccgatcggtgagaatttgaaacgattaggaaccagttgattccaactcggaggaga 300
          |||
Sbjct: 241  cagccgatcggtgagaatttagagacaattaggtaccagttgattccaactcggaggaga 300

Query: 301  cgccggtttgcaggggtggtgattggattagctgcattaggagtagctactgccgcacag 360
          |||
Sbjct: 301  cgccggtttgcaggggtggtgattggattagccgattaggagtagctactgccgcacag 360

Query: 361  gtcactgccgcagtagcactagtaaaggcaataaaaatgctgcggtataactcaatctc 420
          |||
Sbjct: 361  gtcactgccgcagtagcactagtaaaggcaaacaaaatgctggtgctataactcaatctc 420

Query: 421  aaaaatgcaatcaaaaaaaaacaaatcacagcagttgcagatgtggtccaggccacacaatca 480
          |||
Sbjct: 421  aaaaatgcaatcaaaaaaaaacaaatgcagcagttgcagatgtggtccaggccacacaatca 480

Query: 481  ctaggaacggcagttcaagcagttcaagatcacataaacagtggtgtaagtccagcaatt 540
          |||
Sbjct: 481  ctaggaacggcagttcaagcagttcaagatcacataaatagtggtgtaagtccagcaatt 540

Query: 541  acagcagccaattgtaaggcccaagatgctatcattggctcaatcctcaatctctatttg 600
          |||
Sbjct: 541  acagcagccaattgtaaggcccaagatgctatcattggctcaatcctcaatctctatttg 600

Query: 601  accgagttgacaactatcttcacaatcaaattacaacccctgattgagtcctattaca 660
          ||
Sbjct: 601  actgagttgacaactatcttcacaatcaaattacaaccccgattgagtcctattaca 660

Query: 661  attcaagctttaaggatcctactggggagtaccttgccgactgtggtcgaaaaatctttc 720
          |||
Sbjct: 661  attcaagctttaaggatcctactagggagtaccttgccgactgtggtcgaaaaatctttt 720

Query: 721  aataccagataaagtcagctgagcttctctcatcagggttattgacaggccagatttg 780
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Sbjct: 721  aataccagataaagtcagctgagcttctctcatcaggattattgacaggccagatttg 780

Query: 781  ggattagatttgacctatatgcagatggtcataaaaattgagctgccaactttaactgta 840
          |||
Sbjct: 781  ggattagatttgacctatatgcagatggtcataaaaattgagctgccaactttaactgta 840

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Query: 841 caacctgcaaccagatcatagatctggccaccatttctgattcattaacaatcaagaa 900
          |||
Sbjct: 841 caacctgcaaccagatcatagatctggccaccatttctgattcattaacaatcaagaa 900

Query: 901 gtcatggccaattaccaacacgtgttatgtgactggcagcttgatccaagcctatccc 960
          ||
Sbjct: 901 gttatggccaattaccaacacgtgttatgtgactggcagcttgatccaagcctatccc 960

Query: 961 gcatcgcaatgcactattacaccaacactgtgtactgtaggtataatgatgcccaagta 1020
          |||
Sbjct: 961 gcatcgcaatgcactatcacaccaacactgtgtactgtaggtataatgatgcccaagta 1020

Query: 1021 ctctcagatgatacgatggcttgctccaaggttaacttgacaagatgcaccttctctccg 1080
          |||
Sbjct: 1021 ctctcagatgatacgatggcttgctccaaggttaacttgacaagatgcaccttctctcca 1080

Query: 1081 gtggttgggagctttctcactcgattcgtctgctgatggaatagtttatgcaaattgc 1140
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Sbjct: 1081 gtggttgggagctttctcactcgattcgtctgctgatggaatagtttttgcaaattgc 1140

Query: 1141 aggtcgatggtatgcaagtgcacgctgctgctgtgatcctacagccgagttcatcc 1200
          |||
Sbjct: 1141 aggtcgatggttgcaagtgcacgctgctgctgtgatcctacagccgagttcatcc 1200

Query: 1201 cctgtaactgtcattgacatgtacaaatgtgtgagctctgcagcttgacaatctcagattc 1260
          |||
Sbjct: 1201 cctgtaactgtcattgacatgtacaaatgtgtgagctctgcagcttgacaatctcagattc 1260

Query: 1261 accatcactcaattggccaatgtaacctacaatagcaccatcaagcttgaaacatcccag 1320
          |||
Sbjct: 1261 accatcactcaattggccaatgtaacctacaatagcaccatcaagcttgaaacatcccag 1320

Query: 1321 atcttgcttattgatccgttgatataatcccagaatctagctgaggtgaataagagtcta 1380
          |||
Sbjct: 1321 atcttgcttattgatccattggatataatcccagaatctagctgaggtgaataagagtcta 1380

Query: 1381 agtgatgcactacaacacttagcacaagtgcacatacctttctgcaatcacatcagct 1440
          |||
Sbjct: 1381 agtgatgcactacaacacttagcacaagtgcacatacctttctgcaatcacatcagct 1440

Query: 1441 acgactacaagtgtattatccataatggcaatctgtcttgatcgtaggttataatatta 1500
          |||
Sbjct: 1441 acgactacaagtgtattatccataatagcaatctgtcttgatcgtaggttataatatta 1500

Query: 1501 ataactcttgctcagtgtagttgtgtggaagttattgaccattgtcactgctaatacgaat 1560
          |||
Sbjct: 1501 ataactcttgctcagtgtagttgtgtggaagttattgaccattgtcactgctaatacgaat 1560

Query: 1561 agaatggagaatttgtttatcataattcagcattccaccactcacgatctgatctcagt 1620
          |||
Sbjct: 1561 agaatggagaatttgtttatcataattcagcattccaccactcacgatctgatctcagt 1620

Query: 1621 gagaaaaatcaacctgcaactcttgaacaagataa 1656
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Sbjct: 1621 gagaaaaatcaacctgcaactcttgaacaagataa 1656

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[gi|49455248|emb|AJ749990.1](#) Simian virus 5 F gene for fusion protein, genomic RNA, isolate 78524
Length = 1656

Score = 3029 bits (1528), Expect = 0.0
Identities = 1624/1656 (98%)
Strand = Plus / Plus

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Query: 1 atgggtactataattcaatttctgggtgtctcctgtctattggcaggagcaggcagcctt 60
|||||
Sbjct: 1 atgggtactagaattcaatttctgggtgtctcctgtctattggcaggatcaggcagcctt 60

Query: 61 gatccagcagccctcatgcaaatcggtgtcattccaacaaatgtccggcaacttatgtat 120
|||||
Sbjct: 61 gatccagcagccctcatgcaaatcggtgtcattccaacaaatgtccggcaacttatgtat 120

Query: 121 tatactgaggcctcatcagcattcattgttgtgaagttaatgcctacaattgactcgccg 180
||
Sbjct: 121 tacactgaggcctcatcagcattcattgttgtgaagttaatgcctacaattgactcgccg 180

Query: 181 attagtggatgtaataataacatcaatttcaagctataatgcaacagtgacaaaactccta 240
|||||
Sbjct: 181 attagtggatgtaataataacatccatttcaagctataatgcaacagtgacaaaactccta 240

Query: 241 cagccgatcggtgagaatttggaaacgattaggaaccagttgattccaactcggaggaga 300
|||||
Sbjct: 241 cagccgatcggtgagaatttagagacaattaggtaccagttgattccaactcggaggaga 300

Query: 301 cgccggtttgcaggggtggtgattggattagctgcattaggagtagctactgccgcacag 360
|||||
Sbjct: 301 cgccggtttgcaggggtggtgattggattagccgcattaggagtagctactgccgcacag 360

Query: 361 gtcactgccgcagtagcactagtaaggcaataaaaatgtgctgctataactcaatctc 420
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Sbjct: 361 gtcactgccgcagtagcactagtaaggcaaaaaaatgtgctgctataactcaatctc 420

Query: 421 aaaaatgcaatcaaaaaaaaacaatacagcagttgcagatgtggtccaggccacacaatca 480
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Sbjct: 421 aaaaatgcaatcaaaaaaaaacaatgcagcagttgcagatgtggtccaggccacacaatca 480

Query: 481 ctaggaacggcagttcaagcagttcaagatcacataaacagtggtgtaagtccagcaatt 540
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Sbjct: 481 ctaggaacggcagttcaagcagttcaagatcacataaatagtggtgtaagtccagcaatt 540

Query: 541 acagcagccaattgtaaggcccaagatgctatcattggctcaatcctcaatctctatttg 600
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Sbjct: 541 acagcagccaattgtaaaagcccaagatgctatcattggctcaatcctcaatctctatttg 600

Query: 601 accgagttgacaactatcttcacaatcaaattacaaccctgcattgagtcctattaca 660
||
Sbjct: 601 actgagttgacaactatcttcacaatcaaattacaaccctgcattgagtcctattaca 660

Query: 661 attcaagctttaaggatcctactagggagtaccttgccgactgtggtcgaaaaatctttc 720
|||||
Sbjct: 661 attcaagctttaaggatcctactagggagtaccttgccgactgtggtcgaaaaatctttt 720

Query: 721 aataccagataaagtgcagctgagcttctctcatcagggttattgacaggccagattgtg 780
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Sbjct: 721 aataccagataaagcgcaagctgagcttctctcatcaggattattgacaggccagattgtg 780

Query: 781 ggattagatttgacctatatgcagatggtcataaaaattgagctgccaactttaactgta 840
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Sbjct: 781 ggattagatttgacctatatgcagatggtcataaaaattgagctgccaactttaactgta 840

Query: 841 caacctgcaaccagatcatagatctggccaccatttctgattcattaacaatcaagaa 900
|||||
Sbjct: 841 caacctgcaaccagatcatagatctggccaccatttctgattcattaacaatcaagaa 900

Query: 901 gtcattggccaattaccaacacgtgtattgtgactggcagcttgatccaagcctatccc 960
||
Sbjct: 901 gttatggccaattaccaacacgtgtattgtgactggcagcttgatccaagcctatccc 960
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Query: 961  gcatcgcaatgcactattacacccaacactgtgtactgtaggtataatgatgcccaagta 1020
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Query: 1021 ctctcagatgatacggcttgctccaaggttaacttgacaagatgcaccttctctccg 1080
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Sbjct: 1021 ctctcagatgatacggcttgctccaaggttaacttgacaagatgcaccttctctcca 1080

Query: 1081 gtggttgggagctttctcactcgattcatgctgttcgatggaatagtttatgcaaattgc 1140
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Sbjct: 1081 gtggttgggagctttctcactcgattcatgctgttcgatggaatagtttttgcaaattgc 1140

Query: 1141 aggtcagatggtatgcaagtgcacgctgctgtgtgatcctacagccgagttcatcc 1200
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Sbjct: 1141 aggtcagatggttgcaagtgcacgctgctgtgtgatcctacagccgagttcatcc 1200

Query: 1201 cctgtaactgtcattgacatgtacaaatgtgtgagctctgcagcttgacaatctcagattc 1260
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Sbjct: 1201 cctgtaactgtcattgacatgtacaaatgtgtgagctctgcagcttgacaatctcagattc 1260

Query: 1261 accatcactcaattggccaatgtaacctacaatagcaccatcaagcttgaaacatcccag 1320
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Sbjct: 1261 accatcactcaattggccaatgtaacctacaatagcaccatcaagcttgaaacatcccag 1320

Query: 1321 atcttgctattgatccgttggatataatccagaatctagctgcggtgaataagagtcta 1380
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Sbjct: 1321 atcttgctattgatccattggatataatccagaatctagctgagtggaataagagtcta 1380

Query: 1381 agtgatgcactacaacacttagcacaagtgcacacatacctttctgcaatcacatcagct 1440
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Sbjct: 1381 agtgatgcactacaacacttggcacaagtgcacacatacctttctgcaatcacatcagct 1440

Query: 1441 acgactacaagtgattatccataatggcaatctgtcttgatcgcttaggttataatatta 1500
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Sbjct: 1441 acgactacaagtgattatccataatagcaatctgtcttgatcgcttaggttataatatta 1500

Query: 1501 ataactcttgctcagtgtagttgtgtggaagttattgaccattgtcactgctaatacgaat 1560
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Sbjct: 1501 ataactcttgctcagtgtagttgtgtggaagttattgaccattgtcactgctaatacgaat 1560

Query: 1561 agaatggagaattttgtttatcataattcagcattccaccactcacgatctgatctcagt 1620
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Sbjct: 1561 agaatggagaattttgtttatcataattcagcattccaccactcacgatctgatctcagt 1620

Query: 1621 gagaaaaatcaactgcaactcttgaacaagataa 1656
          |||
Sbjct: 1621 gagaaaaatcaactgcaactcttgaacaagataa 1656
    
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[gi|49455242|emb|AJ749987.1](#) Simian virus 5 F gene for fusion protein, genomic RNA, isolate LN
 Length = 1656

Score = 3027 bits (1527), Expect = 0.0
 Identities = 1617/1647 (98%)
 Strand = Plus / Plus

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Query: 10  ataattcaatttctggtggtctcctgtctattggcaggagcaggcagccttgatccagca 69
          |||
Sbjct: 10  ataattcaatttctggtggtctcctgtctattggcaggagcaggcagccttgatccagca 69

Query: 70  gccctcatgcaaatcggtgtcattccaacaaatgtccggcaacttatgtattatactgag 129
          |||
Sbjct: 70  gccctcatgcaaatcggtgtcattccaacaaatgtccggcaacttatgtattatactgag 129
    
```



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Sbjct: 1224 |||cctgtaactgtcattgacatgtacaaatgtgtgagctctgcagcttgacaatctcagattc||| 1283

Query: 1261 accatcactcaattggccaatgtaacctacaatagcacatcaagcttgaaacatcccag 1320
          |||cctgtaactgtcattgacatgtacaaatgtgtgagctctgcagcttgacaatctcagattc|||
Sbjct: 1284 accatcactcaattggccaatataaacctacaatagcacatcaagcttgaaacatcccag 1343

Query: 1321 atcttgctattgatccgttgatataatcccagaatctagctgcggtgaataagagtcta 1380
          |||atcttgctattgatccgttgatataatcccagaatctagctgcggtgaataagagtcta|||
Sbjct: 1344 atcttgctattgatccgttgatataatcccagaatctagctgcggtgaataagagtcta 1403

Query: 1381 agtgatgcactacaacacttagcacaagtacacatacctttctgcaatcacatcagct 1440
          |||atcttgctattgatccgttgatataatcccagaatctagctgcggtgaataagagtcta|||
Sbjct: 1404 agtgatgcactacaacacttagcacaagtacacatacctttctgcaatcacatcagct 1463

Query: 1441 acgactacaagtgtattatccataatggcaatctgtcttgatcgtaggttaataatta 1500
          |||atcttgctattgatccgttgatataatcccagaatctagctgcggtgaataagagtcta|||
Sbjct: 1464 acgactacaagtgtattatccataatggcaatctgtcttgatcgtaggttaataatta 1523

Query: 1501 ataatcttgctcagtgtagttgtgtggaagttattgaccattgtcactgctaatacgaat 1560
          |||atcttgctattgatccgttgatataatcccagaatctagctgcggtgaataagagtcta|||
Sbjct: 1524 ataatcttgctcagtgtagttgtgtggaagttattgaccattgttctgctaatacgaat 1583

Query: 1561 agaatggagaattttgtttatcataattcagcattccaccactcacgatctgatctcagt 1620
          |||atcttgctattgatccgttgatataatcccagaatctagctgcggtgaataagagtcta|||
Sbjct: 1584 agaatggagaattttgtttatcataattcagcattccaccactcacggctctgatctcagt 1643

Query: 1621 gagaaaaatcaacctgcaactcttggacaagataa 1656
          |||atcttgctattgatccgttgatataatcccagaatctagctgcggtgaataagagtcta|||
Sbjct: 1644 gagaaaaatcaacctgcaactcttggacaagataa 1679

```

[gi|34194404|gb|BC032915.2](#) **U** Homo sapiens cDNA clone IMAGE:5265747, partial cds
Length = 586

Score = 44.1 bits (22), Expect = 1.0
Identities = 22/22 (100%)
Strand = Plus / Plus

```

Query: 1280 atgtaacctacaatagcacat 1301
          |||atcttgctattgatccgttgatataatcccagaatctagctgcggtgaataagagtcta|||
Sbjct: 325 atgtaacctacaatagcacat 346

```

[gi|46200439|emb|BX072558.7](#) **D** Zebrafish DNA sequence from clone DKEY-71K18 in linkage group 8,
complete sequence
Length = 171364

Score = 44.1 bits (22), Expect = 1.0
Identities = 22/22 (100%)
Strand = Plus / Minus

```

Query: 422 aaaatgcaatccaaaaaaciaa 443
          |||atcttgctattgatccgttgatataatcccagaatctagctgcggtgaataagagtcta|||
Sbjct: 9119 aaaatgcaatccaaaaaaciaa 9098

```

[gi|45725459|emb|BX255895.6](#) **D** Zebrafish DNA sequence from clone CH211-241M14 in linkage group 6,
complete sequence
Length = 159627

Score = 44.1 bits (22), Expect = 1.0

Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 491 cagttcaagcagttcaagatca 512
|||||
Sbjct: 30477 cagttcaagcagttcaagatca 30498

[gi|61985|emb|X57559.1|SNDNPPMF](#) **D** Parainfluenza type 2 virus NP, P, M, F, HM and L genes for nucleocapsid protein, phospho-protein, matrix protein, fusion protein, hemagglutinin-neuramidase and Large protein respectively
Length = 15646

Score = 44.1 bits (22), Expect = 1.0
Identities = 61/74 (82%)
Strand = Plus / Plus

Query: 331 gctgcattaggagtagctactgcccgcacaggtcactgcccgcagtagcactagtaaaggca 390
|||||
Sbjct: 5131 gctgcattaggagtagccacagcccgcacaataactgcagctgtagcaatagtgaaagct 5190

Query: 391 aataaaaatgctgc 404
|||
Sbjct: 5191 aatgcaaatgctgc 5204

[gi|12057238|emb|AL390878.6|](#) **D** Human DNA sequence from clone RP11-442F12 on chromosome 13, complete sequence
Length = 209794

Score = 44.1 bits (22), Expect = 1.0
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 1280 atgtaacctacaatagcaccat 1301
|||||
Sbjct: 108012 atgtaacctacaatagcaccat 108033

[gi|26655523|gb|AF533012.1|](#) **D** Human parainfluenza virus 2 strain GREER, complete genome
Length = 15654

Score = 44.1 bits (22), Expect = 1.0
Identities = 61/74 (82%)
Strand = Plus / Plus

Query: 331 gctgcattaggagtagctactgcccgcacaggtcactgcccgcagtagcactagtaaaggca 390
|||||
Sbjct: 5135 gctgcattaggagtagccacagcccgcacaataactgcagctgtagcaatagtgaaagct 5194

Query: 391 aataaaaatgctgc 404
|||
Sbjct: 5195 aatgcaaatgctgc 5208

[gi|17149791|gb|AC073957.7|](#) **D** Homo sapiens BAC clone RP11-449P15 from 7, complete sequence
Length = 196204

Score = 44.1 bits (22), Expect = 1.0
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 45 aggagcaggcagccttgatccagcag 70
 |||
 Sbjct: 136041 aggagcaggcagccttggtccagcag 136066

[gi|51890190|emb|BX664731.12|](#) **D** Zebrafish DNA sequence from clone DKEY-67N5 in linkage group 8,
 complete sequence
 Length = 104134

Score = 44.1 bits (22), Expect = 1.0
 Identities = 22/22 (100%)
 Strand = Plus / Minus

Query: 422 aaaatgcaatccaaaaaaca 443
 |||
 Sbjct: 41426 aaaatgcaatccaaaaaaca 41405

[gi|332698|gb|M60182.1|PIFFPRO](#) Human parainfluenza virus type 2 fusion protein gene, complete cds
 Length = 2030

Score = 44.1 bits (22), Expect = 1.0
 Identities = 61/74 (82%)
 Strand = Plus / Plus

Query: 331 gctgcattaggagtagctactgccgcacaggtcactgccgcagtagcactagtaaaggca 390
 |||
 Sbjct: 523 gctgcattaggagtagccacagccgcacaaataactgcagctgtagcaatagtgaaagct 582

Query: 391 aataaaaatgctgc 404
 |||
 Sbjct: 583 aatgcaaagctgc 596

[gi|332696|gb|M55698.1|PIFF0PB](#) **G** Human parainfluenza type 2 virus F gene, complete CDS
 Length = 1882

Score = 44.1 bits (22), Expect = 1.0
 Identities = 61/74 (82%)
 Strand = Plus / Plus

Query: 331 gctgcattaggagtagctactgccgcacaggtcactgccgcagtagcactagtaaaggca 390
 |||
 Sbjct: 389 gctgcattaggagtagccacagccgcacaaataactgcagctgtagcaatagtgaaagct 448

Query: 391 aataaaaatgctgc 404
 |||
 Sbjct: 449 aatgcaaagctgc 462

[gi|45774100|emb|CR382279.1|](#) **D** M.truncatula DNA sequence from clone XX-15G18, complete sequence
 Length = 140041

Score = 42.1 bits (21), Expect = 4.0
 Identities = 24/25 (96%)
 Strand = Plus / Plus

Query: 605 agttgacaactatcttcacaatca 629
 |||
 Sbjct: 46325 agttgacatctatcttcacaatca 46349

[gi|50839038|gb|AC102229.7|](#) **D** Mus musculus chromosome 15, clone RP24-70F9, complete sequence
Length = 202156

Score = 42.1 bits (21), Expect = 4.0
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 879 tgcattcattaacaatcaagaagtc 903
||||| |||||||||
Sbjct: 77648 tgcattcattaacaatcaagaagtc 77672

[gi|50203518|gb|AC142256.4|](#) **D** Mus musculus chromosome 3 clone RP24-528N23, complete sequence
Length = 183488

Score = 42.1 bits (21), Expect = 4.0
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 138 agcattcattgttgaagtt 158
|||||
Sbjct: 154765 agcattcattgttgaagtt 154785

[gi|50199014|gb|AC145219.16|](#) **D** Medicago truncatula clone mth2-6m1, complete sequence
Length = 140462

Score = 42.1 bits (21), Expect = 4.0
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 605 agttgacaactatcttccacaatca 629
||||| |||||||||
Sbjct: 110068 agttgacatctatcttccacaatca 110092

[gi|11493281|emb|AL356288.15|](#) **D** Human DNA sequence from clone RP11-6E3 on chromosome 1, complete sequenc
Length = 184469

Score = 42.1 bits (21), Expect = 4.0
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 878 ctgcattcattaacaatcaag 898
|||||
Sbjct: 143364 ctgcattcattaacaatcaag 143384

[gi|17402760|gb|AC026703.4|](#) **D** Homo sapiens chromosome 5 clone CTD-2029A10, complete sequence
Length = 132155

Score = 42.1 bits (21), Expect = 4.0
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 545 cagccaattgtaaggccaag 565
|||||
Sbjct: 73267 cagccaattgtaaggccaag 73287

[gi|1082158|emb|Z68121.1|CET24D3](#) Caenorhabditis elegans cosmid T24D3, complete sequence
Length = 16343

Score = 42.1 bits (21), Expect = 4.0
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 74 tcatgcaaatcgggtgtcattc 94
|||||
Sbjct: 12866 tcatgcaaatcgggtgtcattc 12846

[gi|46240889|gb|AC118249.11](#) Mus musculus chromosome 19, clone RP23-397G23, complete sequence
Length = 224129

Score = 42.1 bits (21), Expect = 4.0
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 876 ttctgcattcattaacaatcaagaa 900
|||||
Sbjct: 80070 ttctgcatccattaacaatcaagaa 80046

[gi|26093895|dbj|AK050310.1](#) Mus musculus adult male liver tumor cDNA, RIKEN full-length enriched library, clone:C730036F13
product:unclassifiable, full insert sequence
Length = 914

Score = 42.1 bits (21), Expect = 4.0
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 876 ttctgcattcattaacaatcaagaa 900
|||||
Sbjct: 862 ttctgcatccattaacaatcaagaa 838

[gi|46559239|emb|BX649547.7](#) Zebrafish DNA sequence from clone DKEY-19E10 in linkage group 3, complete sequence
Length = 237569

Score = 42.1 bits (21), Expect = 4.0
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 384 aaaggcaaataaaaaatgctgc 404
|||||
Sbjct: 117297 aaaggcaaataaaaaatgctgc 117317

Get selected sequences

Select all

Deselect all

Lambda K H
1.37 0.711 1.31

Gapped

Lambda	K	H
1.37	0.711	1.31

Gap Penalties: Existence: 5, Extension: 2
Number of Sequences: 2615833
Number of Hits to DB: 19,220,446
Number of extensions: 1001757
Number of successful extensions: 5053
Number of sequences better than 10.0: 16
Number of HSP's better than 10.0 without gapping: 16
Number of HSP's gapped: 5053
Number of HSP's successfully gapped: 16
Number of extra gapped extensions for HSPs above 10.0: 5032
Length of query: 1656
Length of database: 11,857,287,733
Length adjustment: 23
Effective length of query: 1633
Effective length of database: 11,797,123,574
Effective search space: 19264702796342
Effective search space used: 19264702796342
A: 0
X1: 11 (21.8 bits)
X2: 15 (30.0 bits)
X3: 25 (50.0 bits)
S1: 12 (25.0 bits)
S2: 21 (42.1 bits)