

gi 5830555 emb Y16780.1 VMVY16780	variola minor virus compl...	32	7.2
gi 1143670 emb X76267.1 VVL8R	Variola virus (Garcia-1966) L...	32	7.2
gi 456758 emb X69198.1 VVCGAA	Variola virus DNA complete ge...	32	7.2
gi 62330 emb X67119.1 VVHINDQKH	Variola virus (HindIII-Q,K,...	32	7.2
gi 6969640 gb AF095689.1 AF095689	Vaccinia virus (strain Ti...	32	7.2
gi 2772662 gb U94848.1 U94848	Vaccinia virus strain Ankara,...	32	7.2
gi 623595 gb L22579.1 VARCG	Variola major virus (strain Ban...	32	7.2
gi 335718 gb K02376.1 VACMLG	Vaccinia virus major late gene...	32	7.2
gi 335580 gb M57767.1 VACCH1	Chinese vaccinia virus L segme...	32	7.2
gi 335317 gb M35027.1 VACCG	Vaccinia virus, complete genome	32	7.2
gi 61387 emb X01978.1 PVHINLJ	Vaccinia virus gene cluster w...	32	7.2

>SARS11.B21_A02_-_005.ab1 CHROMAT_FILE: SARS11.B21_A02_-_005.ab1 PHD_FILE:
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TEMPLATE: SARS11A02 DIRECTION: fwd

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Sequences producing significant alignments: Score E
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gi 458734 emb Z30541.1 AIBVCG	Avian infectious bronchitis v...	42	0.007
gi 14149032 emb AJ311317.1 IBR311317	Avian infectious bronc...	42	0.007
gi 1418973 emb Z69629.1 IBVCD61	Infectious bronchitis virus...	42	0.007
gi 12082738 gb AF304460.1 AF304460	Human coronavirus 229E, ...	38	0.12
gi 59490 emb X69721.1 HCVORF1AB	Human coronavirus 229E mRNA...	38	0.12
gi 4927034 gb AF124991.1 AF124991	Turkey coronavirus RNA-di...	38	0.12
gi 29293452 gb AY223860.1 	Avian infectious bronchitis viru...	36	0.46
gi 17529670 gb AF220295.1 	Bovine coronavirus strain Quebec...	34	1.8
gi 18033971 gb AF391542.1 	Bovine coronavirus isolate BCoV-...	34	1.8
gi 15077808 gb AF391541.1 	Bovine coronavirus isolate BCoV-...	34	1.8
gi 6625759 gb AF201929.1 AF201929	Murine hepatitis virus st...	34	1.8
gi 7739593 gb AF207902.1 AF207902	Murine hepatitis virus st...	34	1.8
gi 7769351 gb AF208067.1 AF208067	Murine hepatitis virus st...	34	1.8
gi 2641127 gb AF029248.1 	Mouse hepatitis virus strain MHV-...	34	1.8
gi 7769340 gb AF208066.1 AF208066	Murine hepatitis virus st...	34	1.8
gi 58974 emb X51939.1 COMHVPOL	Mouse hepatitis virus RNA fo...	34	1.8
gi 331851 gb M55148.1 MHVGENE1	Murine coronavirus open read...	34	1.8
gi 4927030 gb AF124989.1 AF124989	Human coronavirus (strain...	34	1.8
gi 4927028 gb AF124988.1 AF124988	Porcine hemagglutinating ...	34	1.8
gi 4927022 gb AF124985.1 AF124985	Bovine coronavirus RNA-di...	34	1.8
gi 29692106 gb AY243312.1 	Vaccinia virus strain WR, comple...	32	7.1
gi 22595006 gb AF362512.1 	Campoletis sonorensis ichnovirus...	32	7.1
gi 22123748 gb AF012825.2 	Ectromelia virus strain Moscow, ...	32	7.1
gi 18482913 gb AF438165.1 	Camelpox virus M-96 from Kazakhs...	32	7.1
gi 19717929 gb AY009089.1 	Camelpox virus CMS, complete genome	32	7.1
gi 20152989 gb AF482758.1 	Cowpox virus strain Brighton Red...	32	7.1
gi 17529780 gb AF380138.1 AF380138	Monkeypox virus strain Z...	32	7.1
gi 262430 gb S55844.1 S55844	G9R...H7R [variola major virus...	32	7.1
gi 5830555 emb Y16780.1 VMVY16780	variola minor virus compl...	32	7.1
gi 1143670 emb X76267.1 VVL8R	Variola virus (Garcia-1966) L...	32	7.1
gi 456758 emb X69198.1 VVCGAA	Variola virus DNA complete ge...	32	7.1

gi 62330 emb X67119.1 VVHINDQKH	Variola virus (HindIII-Q,K,...	32	7.1
gi 6969640 gb AF095689.1 AF095689	Vaccinia virus (strain Ti...	32	7.1
gi 4927026 gb AF124987.1 AF124987	Feline infectious periton...	32	7.1
gi 2772662 gb U94848.1 U94848	Vaccinia virus strain Ankara,...	32	7.1
gi 623595 gb L22579.1 VARCG	Variola major virus (strain Ban...	32	7.1
gi 335718 gb K02376.1 VACMLG	Vaccinia virus major late gene...	32	7.1
gi 335580 gb M57767.1 VACCH1	Chinese vaccinia virus L segme...	32	7.1
gi 335317 gb M35027.1 VACCG	Vaccinia virus, complete genome	32	7.1
gi 61387 emb X01978.1 PVHINLJ	Vaccinia virus gene cluster w...	32	7.1

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TEMPLATE: SARS12A07 DIRECTION: fwd

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Sequences producing significant alignments: Score E
(bits) Value

gi 12082738 gb AF304460.1 AF304460	Human coronavirus 229E, ...	46	5e-04
gi 59490 emb X69721.1 HCVORF1AB	Human coronavirus 229E mRNA...	46	5e-04
gi 292951 gb M95169.1 IBACGB	Avian infectious bronchitis vi...	44	0.002
gi 331170 gb M94356.1 IBAORFAB	Avian infectious bronchitis ...	44	0.002
gi 458734 emb Z30541.1 AIBVCG	Avian infectious bronchitis v...	44	0.002
gi 14149032 emb AJ311317.1 IBR311317	Avian infectious bronc...	44	0.002
gi 1418973 emb Z69629.1 IBVCD61	Infectious bronchitis virus...	44	0.002
gi 4454355 emb AJ011482.1 TGA011482	Porcine transmissible g...	40	0.029
gi 13397900 emb AJ271965.2 TGA271965	Transmissible gastroen...	40	0.029
gi 683720 emb Z34093.1 TGVROLL	Transmissible gastroenteriti...	40	0.029
gi 4927036 gb AF124992.1 AF124992	Porcine transmissible gas...	40	0.029
gi 4927026 gb AF124987.1 AF124987	Feline infectious periton...	40	0.029
gi 4927024 gb AF124986.1 AF124986	Canine coronavirus RNA-di...	40	0.029
gi 29293452 gb AY223860.1 	Avian infectious bronchitis viru...	38	0.12
gi 4927034 gb AF124991.1 AF124991	Turkey coronavirus RNA-di...	38	0.12
gi 4927032 gb AF124990.1 AF124990	Rat sialodacryoadenitis c...	38	0.12
gi 6625759 gb AF201929.1 AF201929	Murine hepatitis virus st...	34	1.8
gi 7739593 gb AF207902.1 AF207902	Murine hepatitis virus st...	34	1.8
gi 7769351 gb AF208067.1 AF208067	Murine hepatitis virus st...	34	1.8
gi 2641127 gb AF029248.1 	Mouse hepatitis virus strain MHV-...	34	1.8
gi 7769340 gb AF208066.1 AF208066	Murine hepatitis virus st...	34	1.8
gi 58974 emb X51939.1 COMHVPOL	Mouse hepatitis virus RNA fo...	34	1.8
gi 331851 gb M55148.1 MHVGENE1	Murine coronavirus open read...	34	1.8
gi 29692106 gb AY243312.1 	Vaccinia virus strain WR, comple...	32	7.2
gi 22595006 gb AF362512.1 	Campoletis sonorensis ichnovirus...	32	7.2
gi 22123748 gb AF012825.2 	Ectromelia virus strain Moscow, ...	32	7.2
gi 18482913 gb AF438165.1 	Camelpox virus M-96 from Kazakhs...	32	7.2
gi 19717929 gb AY009089.1 	Camelpox virus CMS, complete genome	32	7.2
gi 20152989 gb AF482758.1 	Cowpox virus strain Brighton Red...	32	7.2
gi 17529780 gb AF380138.1 AF380138	Monkeypox virus strain Z...	32	7.2
gi 262430 gb S55844.1 S55844	G9R...H7R [variola major virus...	32	7.2
gi 5830555 emb Y16780.1 VMVY16780	variola minor virus compl...	32	7.2
gi 1143670 emb X76267.1 VVL8R	Variola virus (Garcia-1966) L...	32	7.2
gi 456758 emb X69198.1 VVCGAA	Variola virus DNA complete ge...	32	7.2

gi 62330 emb X67119.1 VVHINDQKH	Variola virus (HindIII-Q,K,...	32	7.2
gi 6969640 gb AF095689.1 AF095689	Vaccinia virus (strain Ti...	32	7.2
gi 2772662 gb U94848.1 U94848	Vaccinia virus strain Ankara,...	32	7.2
gi 623595 gb L22579.1 VARCG	Variola major virus (strain Ban...	32	7.2
gi 335718 gb K02376.1 VACMLG	Vaccinia virus major late gene...	32	7.2
gi 335580 gb M57767.1 VACCH1	Chinese vaccinia virus L segme...	32	7.2
gi 335317 gb M35027.1 VACCG	Vaccinia virus, complete genome	32	7.2
gi 61387 emb X01978.1 PVHINLJ	Vaccinia virus gene cluster w...	32	7.2

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TEMPLATE: SARS12A08 DIRECTION: fwd

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gi 323354 gb M16620.1 COBORF3E	Bovine coronavirus matrix pr...	46	6e-04
gi 18033971 gb AF391542.1 	Bovine coronavirus isolate BCoV-...	42	0.010
gi 15077808 gb AF391541.1 	Bovine coronavirus isolate BCoV-...	42	0.010
gi 210700 gb M36656.1 BECNA	Bovine coronavirus nucleocapsid...	38	0.15
gi 6706935 gb AF058944.1 AF058944	Bovine coronavirus strain...	38	0.15
gi 6706924 gb AF058943.1 AF058943	Bovine coronavirus strain...	38	0.15
gi 6706913 gb AF058942.1 AF058942	Bovine coronavirus strain...	38	0.15
gi 23295758 gb AY078417.1 	Porcine hemagglutinating enceph...	36	0.59
gi 21734847 gb AF481863.1 	Porcine hemagglutinating enceph...	36	0.59
gi 2852336 gb AF034622.1 AF034622	Tobacco rattle virus RNA ...	36	0.59
gi 4138620 emb Z97357.1 TRVCOAT	Tobacco rattle virus RNA en...	36	0.59
gi 2746233 gb AF037218.1 AF037218	Human herpesvirus 7 strai...	36	0.59
gi 1236880 gb U43400.1 HHU43400	Human herpesvirus-7 (HHV7) ...	36	0.59
gi 695172 gb U20824.1 EHVU20824	Equine herpesvirus 2, compl...	36	0.59
gi 22347652 gb AF531173.1 	Cloning vector pDblet, complete ...	34	2.3
gi 21389146 gb AF406990.1 	Tobacco rattle virus segment RNA...	34	2.3
gi 215210 gb M12465.1 M13LACMUT	Bacteriophage M13 mp10 muta...	34	2.3
gi 16751757 gb AF440571.1 AF440571	Sulfolobus islandicus fi...	34	2.3
gi 2852332 gb AF034621.1 AF034621	Tobacco rattle virus RNA2...	34	2.3
gi 12034858 gb AF314165.1 AF314165	Tobacco rattle virus str...	34	2.3
gi 5714670 gb AF166084.1 AF166084	Tobacco rattle virus RNA1...	34	2.3
gi 28170640 emb AJ537513.1 SYN537513	Synthetic construct pl...	34	2.3
gi 28170643 emb AJ537514.1 SYN537514	Synthetic construct pl...	34	2.3
gi 7649317 emb AJ250488.1 TRA250488	tobacco rattle virus cp...	34	2.3
gi 62132 emb X06172.1 TOTRRNA1	Tobacco Rattle virus (TRV) R...	34	2.3
gi 8346640 emb AJ401050.1 AVE401050	Artificial vector pLoxCat4	34	2.3
gi 8346637 emb AJ401049.1 AVE401049	Artificial vector pLoxKan2	34	2.3
gi 8346634 emb AJ401048.1 AVE401048	Artificial vector pLoxGen4	34	2.3
gi 8346631 emb AJ401047.1 AVE401047	Artificial vector pLoxCat2	34	2.3
gi 11061119 emb AJ403984.1 CVE403984	Cloning vector pBPSKan2	34	2.3
gi 11061113 emb AJ403983.1 CVE403983	Cloning vector pBPSTGen4	34	2.3
gi 11061106 emb AJ403982.1 CVE403982	Cloning vector pBPSCat2	34	2.3
gi 7981030 emb AJ277959.1 CVE277959	Cloning vector pHS4, lu...	34	2.3
gi 14571750 emb Y07862.2 PEAVGEN	Cloning vector pEAV030 con...	34	2.3

gi 15982218 emb AJ311874.1 CVE311874	Cloning vector pHELLSGATE	34	2.3
gi 15982216 emb AJ311873.1 CVE311873	Cloning vector pKANNIBAL	34	2.3
gi 15982214 emb AJ311872.1 CVE311872	Cloning vector pHANNIBAL	34	2.3
gi 222133 dbj D00155.1 MTRRNA1	Tobacco rattle virus RNA-1, ...	34	2.3
gi 312367 emb X70493.1 BM13LACZM	Bacteriophage M13mp18 lacZ...	34	2.3
gi 520996 emb Z35638.1 BPLYSPR	Bacteriophage phi-X174 genes...	34	2.3
gi 1913924 emb X86562.1 BMB78SPR	Bacteriophage MB78 strong ...	34	2.3
gi 208035 gb M77811.1 SYNBLUEV	BlueScribe cloning vector	34	2.3
gi 310831 gb M77690.1 SYNPUC9CPL	M13mp9/pUC9 cloning vector	34	2.3
gi 310826 gb M77689.1 SYNPUC8CPL	M13mp8/pUC8 cloning vector	34	2.3
gi 2501752 gb U66885.1 BLU66885	Bacteriophage lambda beta-l...	34	2.3
gi 251080 gb S39527.1 S39527	Coxsackievirus B3 polyprotein ...	34	2.3
gi 22773824 dbj AB081723.1 	Norwalk-like virus genomic RNA,...	34	2.3
gi 215052 gb M19348.1 H44HLR	Bacteriophage H4489A (from S.p...	34	2.3
gi 13094134 dbj AB038599.1 	Cloning vector pPV2 DNA, comple...	34	2.3
gi 13094141 dbj AB038602.1 	Cloning vector pLCPVRGNR104 DNA...	34	2.3
gi 13094139 dbj AB038601.1 	Cloning vector pLCPV101 DNA, co...	34	2.3
gi 13094136 dbj AB038600.1 	Cloning vector pPVLUC441 DNA, c...	34	2.3
gi 903579 gb U27974.1 SVU27974	Stealth virus clone C16290 T7	34	2.3
gi 19572286 emb AJ438949.1 ECO438949	Cloning vector pHK11-h...	34	2.3
gi 19572284 emb AJ438948.1 ECO438948	Cloning vector pHK10-h...	34	2.3
gi 19572273 emb AJ431691.1 ECO431691	Cloning vector pHK9-hygro	34	2.3
gi 330888 gb M19966.1 HSEGLY13A	Equine herpesvirus type 1 (...)	34	2.3
gi 215211 gb J02462.1 M13MP2FS	Bacteriophage M13mp2, lacZ i...	34	2.3
gi 6983827 emb AJ272198.1 TRA272198	Tobacco rattle virus (T...	34	2.3
gi 28539242 gb AY129733.1 	Sandfly fever Naples virus strai...	32	9.2
gi 9652318 gb AF284504.1 	Grass carp hemorrhagic virus segm...	32	9.2
gi 23379192 gb AY055382.1 	Salmonella typhimurium phage ST6...	32	9.2
gi 22726511 gb AF418014.1 	Australian bat lyssavirus, compl...	32	9.2
gi 22128466 gb AF403406.1 	Golden shiner reovirus segment 9...	32	9.2
gi 22128443 gb AF403395.1 	Grass carp reovirus strain GCRV-...	32	9.2
gi 21905178 gb AE014164.1 	Streptococcus pyogenes MGAS315, ...	32	9.2
gi 21666278 gb AF389082.1 	Cucurbit yellow stunting disorde...	32	9.2
gi 5052992 gb AF153322.1 AF153322	TT virus isolate hair2 pu...	32	9.2
gi 4101711 gb AF006497.1 AF006497	Australian bat lyssavirus...	32	9.2
gi 1857115 gb U63727.1 TRU63727	Tobacco rattle virus 16 kDa...	32	9.2
gi 332219 gb J04347.1 PPNCPSA	Tobacco Rattle virus coat pro...	32	9.2
gi 217761 dbj D00624.1 BCP1	Bacteriophage Chp1 genome DNA, ...	32	9.2

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TEMPLATE: SARS12B07 DIRECTION: fwd

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Sequences producing significant alignments: Score E
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gi 6625759 gb AF201929.1 AF201929	Murine hepatitis virus st...	34	1.8
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gi 7769351 gb AF208067.1 AF208067	Murine hepatitis virus st...	34	1.8
gi 2641127 gb AF029248.1 	Mouse hepatitis virus strain MHV-...	34	1.8
gi 7769340 gb AF208066.1 AF208066	Murine hepatitis virus st...	34	1.8
gi 58974 emb X51939.1 COMHVPOL	Mouse hepatitis virus RNA fo...	34	1.8

gi 331851 gb M55148.1 MHVGENE1	Murine coronavirus open read...	34	1.8
gi 29692106 gb AY243312.1 	Vaccinia virus strain WR, comple...	32	7.1
gi 22595006 gb AF362512.1 	Campoletis sonorensis ichnovirus...	32	7.1
gi 22123748 gb AF012825.2 	Ectromelia virus strain Moscow, ...	32	7.1
gi 18482913 gb AF438165.1 	Camelpox virus M-96 from Kazakhs...	32	7.1
gi 19717929 gb AY009089.1 	Camelpox virus CMS, complete genome	32	7.1
gi 20152989 gb AF482758.1 	Cowpox virus strain Brighton Red...	32	7.1
gi 17529780 gb AF380138.1 AF380138	Monkeypox virus strain Z...	32	7.1
gi 262430 gb S55844.1 S55844	G9R...H7R [variola major virus...	32	7.1
gi 5830555 emb Y16780.1 VMVY16780	variola minor virus compl...	32	7.1
gi 1143670 emb X76267.1 VVL8R	Variola virus (Garcia-1966) L...	32	7.1
gi 456758 emb X69198.1 VVCGAA	Variola virus DNA complete ge...	32	7.1
gi 62330 emb X67119.1 VVHINDQKH	Variola virus (HindIII-Q,K,...	32	7.1
gi 6969640 gb AF095689.1 AF095689	Vaccinia virus (strain Ti...	32	7.1
gi 2772662 gb U94848.1 U94848	Vaccinia virus strain Ankara,...	32	7.1
gi 623595 gb L22579.1 VARCG	Variola major virus (strain Ban...	32	7.1
gi 451119 gb L27777.1 HPSG2PROS	Sin Nombre virus (ND H21) G...	32	7.1
gi 335718 gb K02376.1 VACMLG	Vaccinia virus major late gene...	32	7.1
gi 335580 gb M57767.1 VACCH1	Chinese vaccinia virus L segme...	32	7.1
gi 335317 gb M35027.1 VACCG	Vaccinia virus, complete genome	32	7.1
gi 61387 emb X01978.1 PVHINLJ	Vaccinia virus gene cluster w...	32	7.1

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SARS12.B21_B08_-_073.ab1.phd.1 CHEM: term DYE: big TIME: Sat Apr 12 12:11:01 2003
TEMPLATE: SARS12B08 DIRECTION: fwd

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Sequences producing significant alignments: Score E
(bits) Value

gi 17529670 gb AF220295.1 	Bovine coronavirus strain Quebec...	46	6e-04
gi 323354 gb M16620.1 COBORF3E	Bovine coronavirus matrix pr...	46	6e-04
gi 18033971 gb AF391542.1 	Bovine coronavirus isolate BCoV-...	42	0.010
gi 15077808 gb AF391541.1 	Bovine coronavirus isolate BCoV-...	42	0.010
gi 210700 gb M36656.1 BECNA	Bovine coronavirus nucleocapsid...	38	0.15
gi 6706935 gb AF058944.1 AF058944	Bovine coronavirus strain...	38	0.15
gi 6706924 gb AF058943.1 AF058943	Bovine coronavirus strain...	38	0.15
gi 6706913 gb AF058942.1 AF058942	Bovine coronavirus strain...	38	0.15
gi 23295758 gb AY078417.1 	Porcine hemagglutinating enceph...	36	0.59
gi 21734847 gb AF481863.1 	Porcine hemagglutinating enceph...	36	0.59
gi 2852336 gb AF034622.1 AF034622	Tobacco rattle virus RNA ...	36	0.59
gi 4138620 emb Z97357.1 TRVCOAT	Tobacco rattle virus RNA en...	36	0.59
gi 2746233 gb AF037218.1 AF037218	Human herpesvirus 7 strai...	36	0.59
gi 1236880 gb U43400.1 HHU43400	Human herpesvirus-7 (HHV7) ...	36	0.59
gi 695172 gb U20824.1 EHVU20824	Equine herpesvirus 2, compl...	36	0.59
gi 22347652 gb AF531173.1 	Cloning vector pDblet, complete ...	34	2.3
gi 21389146 gb AF406990.1 	Tobacco rattle virus segment RNA...	34	2.3
gi 215210 gb M12465.1 M13LACMUT	Bacteriophage M13 mp10 muta...	34	2.3

gi 16751757 gb AF440571.1 AF440571	Sulfolobus islandicus fi...	34	2.3
gi 2852332 gb AF034621.1 AF034621	Tobacco rattle virus RNA2...	34	2.3
gi 12034858 gb AF314165.1 AF314165	Tobacco rattle virus str...	34	2.3
gi 5714670 gb AF166084.1 AF166084	Tobacco rattle virus RNA1...	34	2.3
gi 28170640 emb AJ537513.1 SYN537513	Synthetic construct pl...	34	2.3
gi 28170643 emb AJ537514.1 SYN537514	Synthetic construct pl...	34	2.3
gi 7649317 emb AJ250488.1 TRA250488	tobacco rattle virus cp...	34	2.3
gi 62132 emb X06172.1 TOTRRNA1	Tobacco Rattle virus (TRV) R...	34	2.3
gi 8346640 emb AJ401050.1 AVE401050	Artificial vector pLoxCat4	34	2.3
gi 8346637 emb AJ401049.1 AVE401049	Artificial vector pLoxKan2	34	2.3
gi 8346634 emb AJ401048.1 AVE401048	Artificial vector pLoxGen4	34	2.3
gi 8346631 emb AJ401047.1 AVE401047	Artificial vector pLoxCat2	34	2.3
gi 11061119 emb AJ403984.1 CVE403984	Cloning vector pBPSKan2	34	2.3
gi 11061113 emb AJ403983.1 CVE403983	Cloning vector pBPSGen4	34	2.3
gi 11061106 emb AJ403982.1 CVE403982	Cloning vector pBPSCat2	34	2.3
gi 7981030 emb AJ277959.1 CVE277959	Cloning vector pHS4, lu...	34	2.3
gi 14571750 emb Y07862.2 PEAVGEN	Cloning vector pEAV030 con...	34	2.3
gi 15982218 emb AJ311874.1 CVE311874	Cloning vector pHELLSGATE	34	2.3
gi 15982216 emb AJ311873.1 CVE311873	Cloning vector pKANNIBAL	34	2.3
gi 15982214 emb AJ311872.1 CVE311872	Cloning vector pHANNIBAL	34	2.3
gi 222133 dbj D00155.1 MTRRNA1	Tobacco rattle virus RNA-1, ...	34	2.3
gi 312367 emb X70493.1 BM13LACZM	Bacteriophage M13mp18 lacZ...	34	2.3
gi 520996 emb Z35638.1 BPLYSPR	Bacteriophage phi-X174 genes...	34	2.3
gi 1913924 emb X86562.1 BMB78SPR	Bacteriophage MB78 strong ...	34	2.3
gi 208035 gb M77811.1 SYNBLUEV	BlueScribe cloning vector	34	2.3
gi 310831 gb M77690.1 SYNPUC9CPL	M13mp9/pUC9 cloning vector	34	2.3
gi 310826 gb M77689.1 SYNPUC8CPL	M13mp8/pUC8 cloning vector	34	2.3
gi 2501752 gb U66885.1 BLU66885	Bacteriophage lambda beta-l...	34	2.3
gi 251080 gb S39527.1 S39527	Coxsackievirus B3 polyprotein ...	34	2.3
gi 22773824 dbj AB081723.1 	Norwalk-like virus genomic RNA, ...	34	2.3
gi 215052 gb M19348.1 H44HLR	Bacteriophage H4489A (from S.p...	34	2.3
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gi 13094141 dbj AB038602.1 	Cloning vector pLCPVRGNR104 DNA...	34	2.3
gi 13094139 dbj AB038601.1 	Cloning vector pLCPV101 DNA, co...	34	2.3
gi 13094136 dbj AB038600.1 	Cloning vector pPVLUC441 DNA, c...	34	2.3
gi 903579 gb U27974.1 SVU27974	Stealth virus clone C16290 T7	34	2.3
gi 19572286 emb AJ438949.1 ECO438949	Cloning vector pHK11-h...	34	2.3
gi 19572284 emb AJ438948.1 ECO438948	Cloning vector pHK10-h...	34	2.3
gi 19572273 emb AJ431691.1 ECO431691	Cloning vector pHK9-hygro	34	2.3
gi 330888 gb M19966.1 HSEGLY13A	Equine herpesvirus type 1 (...)	34	2.3
gi 215211 gb J02462.1 M13MP2FS	Bacteriophage M13mp2, lacZ i...	34	2.3
gi 6983827 emb AJ272198.1 TRA272198	Tobacco rattle virus (T...	34	2.3
gi 28539242 gb AY129733.1 	Sandfly fever Naples virus strai...	32	9.2
gi 23379192 gb AY055382.1 	Salmonella typhimurium phage ST6...	32	9.2
gi 22726511 gb AF418014.1 	Australian bat lyssavirus, compl...	32	9.2
gi 21905178 gb AE014164.1 	Streptococcus pyogenes MGAS315, ...	32	9.2
gi 21666278 gb AF389082.1 	Cucurbit yellow stunting disorde...	32	9.2
gi 5052992 gb AF153322.1 AF153322	TT virus isolate hair2 pu...	32	9.2
gi 4101711 gb AF006497.1 AF006497	Australian bat lyssavirus...	32	9.2
gi 1857115 gb U63727.1 TRU63727	Tobacco rattle virus 16 kDa...	32	9.2
gi 332219 gb J04347.1 PPNCPSA	Tobacco Rattle virus coat pro...	32	9.2
gi 217761 dbj D00624.1 BCP1	Bacteriophage Chp1 genome DNA, ...	32	9.2

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gi 17529670 gb AF220295.1 Bovine coronavirus strain Quebec...	46	0.002
gi 323354 gb M16620.1 COBORF3E Bovine coronavirus matrix pr...	46	0.002
gi 18033971 gb AF391542.1 Bovine coronavirus isolate BCoV-...	42	0.026
gi 15077808 gb AF391541.1 Bovine coronavirus isolate BCoV-...	42	0.026
gi 210700 gb M36656.1 BECNA Bovine coronavirus nucleocapsid...	38	0.41
gi 7242506 emb AJ276480.1 CMO276480 Cucumber mosaic virus s...	38	0.41
gi 25809281 emb AJ517801.1 CMO517801 Cucumber mosaic virus ...	38	0.41
gi 25173581 emb AJ511989.1 CMO511989 Cucumber mosaic virus ...	38	0.41
gi 3319657 emb AJ006989.1 CMVAJ6989 Cucumber mosaic virus s...	38	0.41
gi 222035 dbj D00355.1 MCVRN2 Cucumber mosaic virus gene fo...	38	0.41
gi 28804718 dbj AB096214.1 Cucumber mosaic virus genes for...	38	0.41
gi 222039 dbj D12538.1 MCVYRNA2 Cucumber mosaic virus segme...	38	0.41
gi 6706935 gb AF058944.1 AF058944 Bovine coronavirus strain...	38	0.41
gi 6706924 gb AF058943.1 AF058943 Bovine coronavirus strain...	38	0.41
gi 6706913 gb AF058942.1 AF058942 Bovine coronavirus strain...	38	0.41
gi 7768906 dbj AB042293.1 Cucumber mosaic virus IA-2a gene...	38	0.41
gi 1483178 dbj D86613.1 Cucumber mosaic virus genomic RNA ...	38	0.41
gi 222033 dbj D10209.1 MCVORNA2 Cucumber mosaic virus (CMV)...	38	0.41
gi 1518861 gb U66287.1 CMU66287 Cucumber mosaic virus 2a pr...	38	0.41
gi 1507729 gb U64435.1 CMU64435 Cucumber mosaic virus 2a pr...	38	0.41
gi 1398938 gb U59740.1 CMU59740 Cucumber mosaic virus repli...	38	0.41
gi 23295758 gb AY078417.1 Porcine hemagglutinating enceph...	36	1.6
gi 21734847 gb AF481863.1 Porcine hemagglutinating enceph...	36	1.6
gi 21616617 gb AF459438.1 Hepatitis E virus from North Ind...	36	1.6
gi 19879447 gb AY064172.1 Bovine herpesvirus 5 Us9 protein...	36	1.6
gi 10336832 gb AF185822.1 AF185822 Hepatitis E virus nonstr...	36	1.6
gi 4587639 gb AF028091.2 AF028091 Hepatitis E virus nonstru...	36	1.6
gi 12711849 gb AF076239.3 AF076239 Hepatitis E virus from H...	36	1.6
gi 330023 gb M73218.1 HPESVP Hepatitis E structural and non...	36	1.6
gi 1480238 emb X99441.1 HEVORFS Hepatitis E virus ORF1, ORF...	36	1.6
gi 2746233 gb AF037218.1 AF037218 Human herpesvirus 7 strai...	36	1.6
gi 4033730 gb AF051830.1 AF051830 Hepatitis E virus strain ...	36	1.6
gi 1236880 gb U43400.1 HHU43400 Human herpesvirus-7 (HHV7) ...	36	1.6

gi 695172 gb U20824.1 EHVU20824	Equine herpesvirus 2, compl...	36	1.6
gi 1437484 dbj D11093.1 HPEUIGH	Hepatitis E virus complete ...	36	1.6
gi 221704 dbj D10330.1 HPEHEV	Hepatitis E virus genomic RNA	36	1.6
gi 1209363 gb M94177.1 HPCEGENOM	Hepataitis E virus complet...	36	1.6
gi 330001 gb L08816.1 HPEGENSA	Hepatitis E virus ORF1, ORF2...	36	1.6
gi 22347652 gb AF531173.1 	Cloning vector pDblet, complete ...	34	6.4
gi 21666278 gb AF389082.1 	Cucurbit yellow stunting disorde...	34	6.4
gi 215210 gb M12465.1 M13LACMUT	Bacteriophage M13 mp10 muta...	34	6.4
gi 28170640 emb AJ537513.1 SYN537513	Synthetic construct pl...	34	6.4
gi 28170643 emb AJ537514.1 SYN537514	Synthetic construct pl...	34	6.4
gi 18650775 emb AJ276589.1 CMO276589	Cucumber mosaic virus ...	34	6.4
gi 18650763 emb AJ276583.1 CMO276583	Cucumber mosaic virus ...	34	6.4
gi 8346640 emb AJ401050.1 AVE401050	Artificial vector pLoxCat4	34	6.4
gi 8346637 emb AJ401049.1 AVE401049	Artificial vector pLoxKan2	34	6.4
gi 8346634 emb AJ401048.1 AVE401048	Artificial vector pLoxGen4	34	6.4
gi 8346631 emb AJ401047.1 AVE401047	Artificial vector pLoxCat2	34	6.4
gi 11061119 emb AJ403984.1 CVE403984	Cloning vector pBPSKan2	34	6.4
gi 11061113 emb AJ403983.1 CVE403983	Cloning vector pBPSGen4	34	6.4
gi 11061106 emb AJ403982.1 CVE403982	Cloning vector pBPSCat2	34	6.4
gi 7981030 emb AJ277959.1 CVE277959	Cloning vector pHS4, lu...	34	6.4
gi 14571750 emb Y07862.2 PEAVGEN	Cloning vector pEAV030 con...	34	6.4
gi 15982218 emb AJ311874.1 CVE311874	Cloning vector pHELLSGATE	34	6.4
gi 15982216 emb AJ311873.1 CVE311873	Cloning vector pKANNIBAL	34	6.4
gi 15982214 emb AJ311872.1 CVE311872	Cloning vector pHANNIBAL	34	6.4
gi 312367 emb X70493.1 BM13LACZM	Bacteriophage M13mp18 lacZ...	34	6.4
gi 520996 emb Z35638.1 BPLYSPR	Bacteriophage phi-X174 genes...	34	6.4
gi 1913924 emb X86562.1 BMB78SPR	Bacteriophage MB78 strong ...	34	6.4
gi 208035 gb M77811.1 SYNBLUEV	BlueScribe cloning vector	34	6.4
gi 310831 gb M77690.1 SYNPUC9CPL	M13mp9/pUC9 cloning vector	34	6.4
gi 310826 gb M77689.1 SYNPUC8CPL	M13mp8/pUC8 cloning vector	34	6.4
gi 2501752 gb U66885.1 BLU66885	Bacteriophage lambda beta-l...	34	6.4
gi 251080 gb S39527.1 S39527	Coxsackievirus B3 polyprotein ...	34	6.4
gi 215052 gb M19348.1 H44HLR	Bacteriophage H4489A (from S.p...	34	6.4
gi 13094134 dbj AB038599.1 	Cloning vector pPV2 DNA, comple...	34	6.4
gi 13094141 dbj AB038602.1 	Cloning vector pLCPVRGNR104 DNA...	34	6.4
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gi 13094136 dbj AB038600.1 	Cloning vector pPVLUC441 DNA, c...	34	6.4
gi 903579 gb U27974.1 SVU27974	Stealth virus clone C16290 T7	34	6.4
gi 19572286 emb AJ438949.1 ECO438949	Cloning vector pHK11-h...	34	6.4
gi 19572284 emb AJ438948.1 ECO438948	Cloning vector pHK10-h...	34	6.4
gi 19572273 emb AJ431691.1 ECO431691	Cloning vector pHK9-hygro	34	6.4
gi 330888 gb M19966.1 HSEGLY13A	Equine herpesvirus type 1 (...)	34	6.4
gi 215211 gb J02462.1 M13MP2FS	Bacteriophage M13mp2, lacZ i...	34	6.4

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TEMPLATE: SARS211A01 DIRECTION: fwd

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Query=

(1216 letters)

Database: All GenBank+EMBL+DDBJ+PDB sequences (but no EST, STS,
GSS, or phase 0, 1 or 2 HTGS sequences)

1,731,999 sequences; 8,097,511,182 total letters

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

No significant similarity found.

Something is very odd with the above sequence of DNA. There is no identification
of this DNA as any virus at all.

>SARS211.B21_A02_-_015.ab1 CHROMAT_FILE: SARS211.B21_A02_-_015.ab1 PHD_FILE:
SARS211.B21_A02_-_015.ab1.phd.1 CHEM: term DYE: big TIME: Sat Apr 12 12:11:04 2003
TEMPLATE: SARS211A02 DIRECTION: fwd

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gi 7258529 emb AJ389778.1 HIM389778 Human immunodeficiency ...	38	0.69
gi 333086 gb M22961.1 PPHDEL CG Human papillomavirus type 5 ...	36	2.7
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gi 333071 gb M17463.1 PPH5C G Human papillomavirus type 5, ...	36	2.7
gi 9944523 gb AF250284.1 AF250284 Amsacta moorei entomopoxv...	36	2.7
gi 1707653 emb Y09630.1 PDVREP Phocine distemper virus mRNA...	36	2.7
gi 450694 emb X71982.1 ASFV55K B African swine fever virus 5...	36	2.7
gi 4454066 emb AJ236895.1 BNE236895 Beet necrotic yellow ve...	36	2.7
gi 974171 dbj D63936.1 BNY26K DAPB Beet necrotic yellow vein...	36	2.7
gi 974169 dbj D63935.1 BNY26K DAPA Beet necrotic yellow vein...	36	2.7
gi 949814 dbj D63759.1 BNY26K DAP Beet necrotic yellow vein ...	36	2.7
gi 3776189 dbj AB018616.1 Beet necrotic yellow vein virus ...	36	2.7
gi 3776187 dbj AB018615.1 Beet necrotic yellow vein virus ...	36	2.7
gi 3776185 dbj AB018614.1 Beet necrotic yellow vein virus ...	36	2.7
gi 3776181 dbj AB018612.1 Beet necrotic yellow vein virus ...	36	2.7
gi 3776179 dbj AB018611.1 Beet necrotic yellow vein virus ...	36	2.7
gi 3776175 dbj AB018608.1 Beet necrotic yellow vein virus ...	36	2.7
gi 3776173 dbj AB018607.1 Beet necrotic yellow vein virus ...	36	2.7
gi 3776165 dbj AB018603.1 Beet necrotic yellow vein virus ...	36	2.7
gi 3776161 dbj AB018601.1 Beet necrotic yellow vein virus ...	36	2.7
gi 3776157 dbj AB018599.1 Beet necrotic yellow vein virus ...	36	2.7
gi 974173 dbj D63937.1 BNY26K DAPC Beet necrotic yellow vein...	36	2.7
gi 780375 gb U18466.1 ASU18466 African swine fever virus, c...	36	2.7

>SARS211.B21_A03_-_016.ab1 CHROMAT_FILE: SARS211.B21_A03_-_016.ab1 PHD_FILE:
SARS211.B21_A03_-_016.ab1.phd.1 CHEM: term DYE: big TIME: Sat Apr 12 12:11:05 2003
TEMPLATE: SARS211A03 DIRECTION: fwd

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gi 1046212 gb U13893.1 MPU13893	Mastadenovirus sus4 NADC-1 ...	<u>38</u>	0.71
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gi 9944523 gb AF250284.1 AF250284	Amsacta moorei entomopoxv...	<u>36</u>	2.8
gi 20330109 emb AJ457986.1 TCU457986	Tobacco curly shoot vi...	<u>36</u>	2.8
gi 18077642 emb AJ420318.1 TLE420318	Tobacco curly shoot vi...	<u>36</u>	2.8
gi 4454066 emb AJ236895.1 BNE236895	Beet necrotic yellow ve...	<u>36</u>	2.8
gi 974171 dbj D63936.1 BNY26KDAPB	Beet necrotic yellow vein...	<u>36</u>	2.8
gi 974169 dbj D63935.1 BNY26KDAPA	Beet necrotic yellow vein...	<u>36</u>	2.8
gi 949814 dbj D63759.1 BNY26KDAP	Beet necrotic yellow vein ...	<u>36</u>	2.8
gi 3776189 dbj AB018616.1 	Beet necrotic yellow vein virus ...	<u>36</u>	2.8
gi 3776187 dbj AB018615.1 	Beet necrotic yellow vein virus ...	<u>36</u>	2.8
gi 3776185 dbj AB018614.1 	Beet necrotic yellow vein virus ...	<u>36</u>	2.8
gi 3776181 dbj AB018612.1 	Beet necrotic yellow vein virus ...	<u>36</u>	2.8
gi 3776179 dbj AB018611.1 	Beet necrotic yellow vein virus ...	<u>36</u>	2.8
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gi 3776161 dbj AB018601.1 	Beet necrotic yellow vein virus ...	<u>36</u>	2.8
gi 3776157 dbj AB018599.1 	Beet necrotic yellow vein virus ...	<u>36</u>	2.8
gi 974173 dbj D63937.1 BNY26KDAPC	Beet necrotic yellow vein...	<u>36</u>	2.8
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TEMPLATE: SARS211A04 DIRECTION: fwd

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Sequences producing significant alignments:			Score	E
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gi 4454355 emb AJ011482.1 TGA011482	Porcine transmissible g...	50	2e-04	
gi 13397900 emb AJ271965.2 TGA271965	Transmissible gastroen...	50	2e-04	
gi 6625759 gb AF201929.1 AF201929	Murine hepatitis virus st...	48	7e-04	

gi 7739593 gb AF207902.1 AF207902	Murine hepatitis virus st...	48	7e-04
gi 7769340 gb AF208066.1 AF208066	Murine hepatitis virus st...	48	7e-04
gi 331851 gb M55148.1 MHVGENE1	Murine coronavirus open read...	48	7e-04
gi 17529670 gb AF220295.1 	Bovine coronavirus strain Quebec...	42	0.046
gi 7769351 gb AF208067.1 AF208067	Murine hepatitis virus st...	42	0.046
gi 2641127 gb AF029248.1 	Mouse hepatitis virus strain MHV-...	42	0.046
gi 58974 emb X51939.1 COMHVPOL	Mouse hepatitis virus RNA fo...	42	0.046
gi 683720 emb Z34093.1 TGVPOLL	Transmissible gastroenteriti...	42	0.046
gi 29293452 gb AY223860.1 	Avian infectious bronchitis viru...	40	0.18
gi 2337967 gb AF005370.1 AF005370	Alcelaphine herpesvirus 1...	36	2.8

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Sequences producing significant alignments: Score E
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Sequences producing significant alignments: Score E
(bits) Value

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>SARS211.B21_A08_-_032.ab1 CHROMAT_FILE: SARS211.B21_A08_-_032.ab1 PHD_FILE:
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Query=

(1311 letters)

Database: All GenBank+EMBL+DDBJ+PDB sequences (but no EST, STS,
GSS, or phase 0, 1 or 2 HTGS sequences)
1,731,999 sequences; 8,097,511,182 total letters

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

No significant similarity found.

Something odd here... no DNA sequences found in the virus nucleotide sequence database.

>SARS211.B21_A09_-_047.ab1 CHROMAT_FILE: SARS211.B21_A09_-_047.ab1 PHD_FILE:
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TEMPLATE: SARS211A09 DIRECTION: fwd

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Sequences producing significant alignments:	Score	E
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Query=

(1552 letters)

Database: All GenBank+EMBL+DDBJ+PDB sequences (but no EST, STS,
GSS, or phase 0, 1 or 2 HTGS sequences)

1,731,999 sequences; 8,097,511,182 total letters

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

No significant similarity found.

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Query=

(1261 letters)

Database: All GenBank+EMBL+DDBJ+PDB sequences (but no EST, STS,
GSS, or phase 0, 1 or 2 HTGS sequences)
1,731,999 sequences; 8,097,511,182 total letters

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

No significant similarity found.

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Sequences producing significant alignments:		Score	E
		(bits)	Value
gi 1046212 gb U13893.1 MPU13893	Mastadenovirus sus4 NADC-1 ...	<u>38</u>	0.77
gi 26284361 gb AF258784.1 	Tupaia adenovirus 1, complete ge...	<u>36</u>	3.1
gi 12002793 gb AF162927.1 AF162927	Beet soil-borne virus RN...	<u>36</u>	3.1
gi 10643624 gb AF162935.1 AF162935	Beet soil-borne virus RN...	<u>36</u>	3.1
gi 10643614 gb AF162928.1 AF162928	Beet soil-borne virus RN...	<u>36</u>	3.1
gi 9944523 gb AF250284.1 AF250284	Amsacta moorei entomopoxv...	<u>36</u>	3.1
gi 20330109 emb AJ457986.1 TCU457986	Tobacco curly shoot vi...	<u>36</u>	3.1
gi 18077642 emb AJ420318.1 TLE420318	Tobacco curly shoot vi...	<u>36</u>	3.1
gi 11595427 emb Z66493.2 BSBV3GNS	Beet soil-borne virus gen...	<u>36</u>	3.1
gi 4454066 emb AJ236895.1 BNE236895	Beet necrotic yellow ve...	<u>36</u>	3.1
gi 974171 dbj D63936.1 BNY26KDAPB	Beet necrotic yellow vein...	<u>36</u>	3.1
gi 974169 dbj D63935.1 BNY26KDAPA	Beet necrotic yellow vein...	<u>36</u>	3.1
gi 949814 dbj D63759.1 BNY26KDAP	Beet necrotic yellow vein ...	<u>36</u>	3.1
gi 3088545 gb AF059243.1 AF059243	Bacteriophage NL95, compl...	<u>36</u>	3.1
gi 1478486 gb S81553.1 S81553	A=maturation protein {5' regi...	<u>36</u>	3.1
gi 3776189 dbj AB018616.1 	Beet necrotic yellow vein virus ...	<u>36</u>	3.1
gi 3776187 dbj AB018615.1 	Beet necrotic yellow vein virus ...	<u>36</u>	3.1
gi 3776185 dbj AB018614.1 	Beet necrotic yellow vein virus ...	<u>36</u>	3.1
gi 3776181 dbj AB018612.1 	Beet necrotic yellow vein virus ...	<u>36</u>	3.1
gi 3776179 dbj AB018611.1 	Beet necrotic yellow vein virus ...	<u>36</u>	3.1
gi 3776175 dbj AB018608.1 	Beet necrotic yellow vein virus ...	<u>36</u>	3.1
gi 3776173 dbj AB018607.1 	Beet necrotic yellow vein virus ...	<u>36</u>	3.1
gi 3776165 dbj AB018603.1 	Beet necrotic yellow vein virus ...	<u>36</u>	3.1
gi 3776161 dbj AB018601.1 	Beet necrotic yellow vein virus ...	<u>36</u>	3.1
gi 3776157 dbj AB018599.1 	Beet necrotic yellow vein virus ...	<u>36</u>	3.1
gi 974173 dbj D63937.1 BNY26KDAPC	Beet necrotic yellow vein...	<u>36</u>	3.1
gi 21624364 dbj AB086902.1 	Feline infectious peritonitis v...	<u>36</u>	3.1
gi 19171488 emb AJ437618.1 AEN437618	Ageratum enation virus...	<u>36</u>	3.1

>SARS211.B21_A13_-_063.ab1 CHROMAT_FILE: SARS211.B21_A13_-_063.ab1 PHD_FILE:
 SARS211.B21_A13_-_063.ab1.phd.1 CHEM: term DYE: big TIME: Sat Apr 12 12:11:06 2003
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Sequences producing significant alignments:		Score	E
		(bits)	Value
gi 9944523 gb AF250284.1 AF250284	Amsacta moorei entomopoxv...	<u>38</u>	0.70
gi 4049647 gb AF063866.1 AF063866	Melanoplus sanguinipes en...	<u>38</u>	0.70

>SARS211.B21_A14_-_063.ab1 CHROMAT_FILE: SARS211.B21_A14_-_063.ab1 PHD_FILE:
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TEMPLATE: SARS211A14 DIRECTION: fwd

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Sequences producing significant alignments:	Score (bits)	E Value
gi 28261196 gb AY186732.1 Orf virus strain D1701 ankyrin-r...	<u>38</u>	0.72
gi 16117368 gb AF188480.1 AF188480 Macropodid herpesvirus 1...	<u>36</u>	2.8
gi 334060 gb M10986.1 SH1GX Pseudorabies virus glycoprotein...	<u>36</u>	2.8

>SARS211.B21_A15_-_064.ab1 CHROMAT_FILE: SARS211.B21_A15_-_064.ab1 PHD_FILE:
SARS211.B21_A15_-_064.ab1.phd.1 CHEM: term DYE: big TIME: Sat Apr 12 12:11:07 2003
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tcct

Sequences producing significant alignments:	Score (bits)	E Value
gi 29467861 dbj AP006270.1 Adoxophyes honmai nucleopolyhed...	<u>40</u>	0.18
gi 23379192 gb AY055382.1 Salmonella typhimurium phage ST6...	<u>36</u>	2.8
gi 291490 gb L00036.1 HS1US Human herpesvirus strain 17 com...	<u>36</u>	2.8
gi 59865 emb X02138.1 HEHSV1SU Herpes simplex virus type 1 ...	<u>36</u>	2.8
gi 1944536 emb X14112.1 HE1CG Herpes simplex virus (HSV) ty...	<u>36</u>	2.8

>SARS211.B21_A16_-_064.ab1 CHROMAT_FILE: SARS211.B21_A16_-_064.ab1 PHD_FILE:
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TEMPLATE: SARS211A16 DIRECTION: fwd

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Sequences producing significant alignments:			Score	E
			(bits)	Value
gi 28274445 gb AY189157.1 	Avian infectious bronchitis viru...	50	2e-04	
gi 27803883 gb AY180958.1 	Avian infectious bronchitis viru...	50	2e-04	
gi 11038441 gb AF288146.2 AF288146	Avian infectious bronchi...	50	2e-04	
gi 58986 emb X58001.1 CORPS12A	Infectious bronchitis virus ...	50	2e-04	
gi 58959 emb X04723.1 COIBVSP2	Infectious bronchitis virus ...	50	2e-04	
gi 4972607 gb AF094817.1 AF094817	Avian infectious bronchit...	50	2e-04	
gi 4972605 gb AF094815.1 AF094815	Avian infectious bronchit...	50	2e-04	
gi 4972604 gb AF094814.1 AF094814	Avian infectious bronchit...	50	2e-04	
gi 2062322 gb U49858.1 AIU49858	Avian infectious bronchitis...	50	2e-04	
gi 806409 gb U04739.1 AIU04739	Avian infectious bronchitis ...	50	2e-04	
gi 13378216 gb AY024337.1 	Avian infectious bronchitis viru...	46	0.003	
gi 13377886 gb AF334685.1 AF334685	Avian infectious bronchi...	46	0.003	
gi 6425132 gb AF201930.1 AF201930	Avian infectious bronchit...	46	0.003	
gi 9719315 gb AF207551.1 AF207551	Sialodacryoadenitis virus...	46	0.003	
gi 58951 emb X15832.1 COIBVPEP	Infectious Bronchitis Virus ...	46	0.003	
gi 58988 emb X58003.1 CORPS12B	Infectious bronchitis virus ...	46	0.003	
gi 4972606 gb AF094816.1 AF094816	Avian infectious bronchit...	46	0.003	
gi 1086958 gb S79187.1 S79187	S2=glycoprotein [porcine hema...	46	0.003	
gi 406193 dbj D13096.1 CCOINSAVC	Canine coronavirus (CCV) g...	46	0.003	
gi 7595820 gb AF239985.1 AF239985	Avian infectious bronchit...	44	0.011	
gi 7769351 gb AF208067.1 AF208067	Murine hepatitis virus st...	42	0.044	
gi 331846 gb M32789.1 MHVE2GLY	Murine hepatitis virus E2 gl...	42	0.044	
gi 561671 gb U14646.1 MHU14646	Murine hepatitis virus S gly...	42	0.044	
gi 561669 gb U14645.1 MHU14645	Murine hepatitis virus S gly...	42	0.044	
gi 331844 gb M18379.1 MHVE2	Murine hepatitis virus membrane...	42	0.044	
gi 13492236 gb AF335553.1 AF335553	Avian infectious bronchi...	42	0.044	
gi 13377888 gb AF334686.1 AF334686	Avian infectious bronchi...	42	0.044	
gi 2641127 gb AF029248.1 	Mouse hepatitis virus strain MHV-...	42	0.044	
gi 58979 emb X04797.1 COMHVS	Murine hepatitis virus (JHM) m...	42	0.044	

gi 234139 gb S51114.1 S51114	E2=peplomer glycoprotein [muri...	42	0.044
gi 222139 dbj D10235.1 MUCCL2S	Murine coronavirus (JHMV) mR...	42	0.044
gi 17529670 gb AF220295.1 	Bovine coronavirus strain Quebec...	38	0.69
gi 28916167 gb AY204705.1 	RNA transcription vector pBRDI2,...	38	0.69
gi 28916157 gb AY204704.1 	RNA transcription vector pBRDI1,...	38	0.69
gi 23295758 gb AY078417.1 	Porcine hemagglutinating encephal...	38	0.69
gi 21734847 gb AF481863.1 	Porcine hemagglutinating encephal...	38	0.69
gi 306155 gb L14643.1 HOB0C43S	Human coronavirus OC43 spike...	38	0.69
gi 20279055 gb AF494337.1 	Transmissible gastroenteritis vi...	38	0.69
gi 292951 gb M95169.1 IBACGB	Avian infectious bronchitis vi...	38	0.69
gi 18033971 gb AF391542.1 	Bovine coronavirus isolate BCoV-...	38	0.69
gi 15077808 gb AF391541.1 	Bovine coronavirus isolate BCoV-...	38	0.69
gi 386388 gb S62886.1 S62886	Human coronavirus OC43 surface...	38	0.69
gi 4020137 gb AF104420.1 AF104420	Porcine transmissible gas...	38	0.69
gi 15042681 gb AF394749.1 AF394749	Avian infectious bronchi...	38	0.69
gi 15011415 gb AF394180.1 AF394180	Avian infectious bronchi...	38	0.69
gi 308768 gb L07748.1 HUOS	Human enteric coronavirus 4408 s...	38	0.69
gi 323363 gb M31054.1 COBSPIKB	Bovine coronavirus spike pro...	38	0.69
gi 323361 gb M31053.1 COBSPIKA	Bovine coronavirus HE gene, ...	38	0.69
gi 335204 gb M21950.1 TGEPEP	Porcine transmissible gastroen...	38	0.69
gi 332882 gb M94103.1 POIPRCVSH	Porcine respiratory coronav...	38	0.69
gi 332874 gb M94097.1 POIPRCVSB	Porcine respiratory coronav...	38	0.69
gi 323350 gb M30612.1 COBHSN	Bovine coronavirus hemagglutin...	38	0.69
gi 333335 gb M94101.1 PTGPRCVSF	Porcine transmissible gastr...	38	0.69
gi 333333 gb M94099.1 PTGPRCVSD	Porcine transmissible gastr...	38	0.69
gi 323357 gb M64668.1 COBSB	Bovine coronavirus spike glycop...	38	0.69
gi 323355 gb M64667.1 COBSA	Bovine coronavirus spike glycop...	38	0.69
gi 13492240 gb AF335555.1 AF335555	Avian infectious bronchi...	38	0.69
gi 13492238 gb AF335554.1 AF335554	Avian infectious bronchi...	38	0.69
gi 13448693 gb AF352315.1 AF352315	Avian infectious bronchi...	38	0.69
gi 13448691 gb AF352314.1 AF352314	Avian infectious bronchi...	38	0.69
gi 13448685 gb AF352311.1 AF352311	Avian infectious bronchi...	38	0.69
gi 13377894 gb AF334689.1 AF334689	Avian infectious bronchi...	38	0.69
gi 13377892 gb AF334688.1 AF334688	Avian infectious bronchi...	38	0.69
gi 13377890 gb AF334687.1 AF334687	Avian infectious bronchi...	38	0.69
gi 13377884 gb AF334684.1 AF334684	Avian infectious bronchi...	38	0.69
gi 12585454 gb AF239282.2 AF239282	Avian infectious bronchi...	38	0.69
gi 12585341 gb AF239274.2 AF239274	Avian infectious bronchi...	38	0.69
gi 12408750 gb AF239281.2 AF239281	Avian infectious bronchi...	38	0.69
gi 12408697 gb AF239277.2 AF239277	Avian infectious bronchi...	38	0.69
gi 12408748 gb AF239280.2 AF239280	Avian infectious bronchi...	38	0.69
gi 12330251 gb AF181469.1 AF181469	Bovine coronavirus spike...	38	0.69
gi 11096190 gb AF302263.1 AF302263	Porcine transmissible ga...	38	0.69
gi 234109 gb S51223.1 S51223	POL=polymerase, E2=peplomer pr...	38	0.69
gi 8980689 gb AF239279.1 AF239279	Avian infectious bronchit...	38	0.69
gi 8980687 gb AF239278.1 AF239278	Avian infectious bronchit...	38	0.69
gi 8980683 gb AF239276.1 AF239276	Avian infectious bronchit...	38	0.69
gi 8980681 gb AF239275.1 AF239275	Avian infectious bronchit...	38	0.69
gi 8980677 gb AF239273.1 AF239273	Avian infectious bronchit...	38	0.69
gi 8980675 gb AF239272.1 AF239272	Avian infectious bronchit...	38	0.69
gi 8980673 gb AF239271.1 AF239271	Avian infectious bronchit...	38	0.69
gi 62391 emb Z21849.1 COSURPRO	Human coronavirus OC43 gene ...	38	0.69
gi 58961 emb X02342.1 COIBVSPI	Coronavirus IBV gene for spi...	38	0.69
gi 1321871 emb X87238.1 IBVSPIKE	Avian infectious bronchiti...	38	0.69
gi 7595818 gb AF239984.1 AF239984	Avian infectious bronchit...	38	0.69
gi 7595816 gb AF239983.1 AF239983	Avian infectious bronchit...	38	0.69
gi 7595814 gb AF239982.1 AF239982	Avian infectious bronchit...	38	0.69

gi 58983 emb X60089.1 COPRCVSP	Porcine respiratory coronavi...	38	0.69
gi 452379 emb X77047.1 CCSP	Canine coronavirus mRNA for spi...	38	0.69
gi 529246 emb Z35758.1 TGVTFIVIR	Transmissible gastroenteri...	38	0.69
gi 13397900 emb AJ271965.2 TGA271965	Transmissible gastroen...	38	0.69
gi 14253129 emb AJ311362.1 IBR311362	Avian infectious bronc...	38	0.69
gi 14149032 emb AJ311317.1 IBR311317	Avian infectious bronc...	38	0.69
gi 1155076 emb X80799.1 FECV	Feline enteric coronavirus gen...	38	0.69
gi 59007 emb X05695.1 COTGEVE2	Transmissible gastroenteriti...	38	0.69
gi 61377 emb X53128.1 PTGEVS	Porcine transmissible gastroen...	38	0.69
gi 475893 emb Z32769.1 CVOC43VA	Human coronavirus (OC43VA) ...	38	0.69
gi 475891 emb Z32768.1 CVOC43CU	Human coronavirus OC43 gene...	38	0.69
gi 58915 emb X06170.1 COFIPVE2	Feline infectious peritoniti...	38	0.69
gi 58957 emb X04722.1 COIBVSP1	Infectious bronchitis virus ...	38	0.69
gi 395057 emb Z24675.1 PRPROTSA	Porcine respiratory coronav...	38	0.69

The above BLAST data suggest to me that this is no typical coronavirus AT ALL. There are bits and pieces of many coronaviruses in SARS and some of the DNA in SARS has no relationship to any known DNA in any virus – of any type -- at all. SARS is a completely new virus. I have only BLASTed a few portions of the complete SARS genome but I have done sufficient examination to know, beyond any doubt whatsoever, that this is not your normal virus.

To briefly summarize, I will display here the highest/largest matches of known agents to the portions of SARS DNA that I have BLASTed:

Sequences producing significant alignments:	Score (bits)	E Value
gi 12082738 gb AF304460.1 AF304460	44	0.002
gi 292951 gb M95169.1 IBACGB	42	0.007
gi 12082738 gb AF304460.1 AF304460	46	5e-04
gi 17529670 gb AF220295.1 	46	6e-04
gi 6625759 gb AF201929.1 AF201929	34	1.8
gi 17529670 gb AF220295.1 	46	6e-04
gi 17529670 gb AF220295.1 	46	0.002
gi 7258529 emb AJ389778.1 HIM389778	38	0.69
gi 1046212 gb U13893.1 MPU13893	38	0.71
gi 27357178 gb AY167585.1 	48	7e-04
gi 18033971 gb AF391542.1 	50	2e-04
gi 2605950 gb AF030027.1 AF030027	36	3.1
gi 23476465 gb AY145471.1 	38	0.69
gi 22255611 gb AF067300.1 	36	2.7
gi 1046212 gb U13893.1 MPU13893	38	0.77
gi 9944523 gb AF250284.1 AF250284	38	0.70
gi 28261196 gb AY186732.1 	38	0.72
gi 29467861 dbj AP006270.1 	40	0.18
gi 28274445 gb AY189157.1 	50	2e-04

The above are those viruses that show the largest sequence homology to some of the SARS nucleotides released for public record on 4/12/03. These data suggest to me that we are seeing a not-normal coronavirus that has elements of avian infectious bronchitis virus, bovine coronavirus, porcine epidemic diarrhea virus, and human coronavirus 229E. However, SARS is not any one of those – it is a mixture of all of them. Moreover, there are some elements in SARS that suggest it may cause persistent infection, e.g., some small relationship to herpesvirus, HIV, SIV, and Stealth virus.

With a 4% mortality rate, this highly contagious virus is really different than anything seen before in the coronavirus family. Moreover, there are fairly large portions of DNA in SARS that have NO known relationship to any viral DNA known to date. There is no understanding whatsoever, at this time, what those unknown DNA might be doing relative to disease, transmission, etc.

It would be a prudent strategy to:

- 1) Stop all air-traffic and sea-traffic to-and-from infected areas. Quarantine infected nations from any non-infected nation.**
- 2) Quarantine all infected individuals and any individuals that may have had contact with an infected person within any infected nation.**
- 3) Institute procedures to insure that the blood supply is safe from SARS infection.**
- 4) Continue to increase quarantine measures and maintain existing quarantine measures for the foreseeable future.**

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