

cardiomyopathy syndrom virus sequence listing oktober 2010 412104 444255.txt
SEQUENCE LISTING

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cardiomyopathy syndrom virus sequence listing oktober 2010 412104 444255.txt

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cardiomyopathy syndrom virus sequence listing oktober 2010 412104 444255.txt
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cardiomyopathy syndrom virus sequence listing oktober 2010 412104 444255.txt

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cardiomyopathy syndrom virus sequence listing oktober 2010 412104 444255.txt

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cardiomyopathy syndrom virus sequence listing oktober 2010 412104 444255.txt

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Pro Ser Gly Lys Ser Ser Val Gly Gly Phe Leu Gly Glu Leu Ala Gln
50 55 60

Asn Ile Arg Ala Met Asn Arg Ser Leu His Thr Asp Thr Asn Met Leu
65 70 75 80

Thr Glu Gly Ala Met Val Asp Arg Ala Arg Ala Lys Val His Lys Ile
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Ile Arg Glu Gly Asn Leu Asp Ser Arg Val Phe Ser Asn Thr Gly Ser
100 105 110

Asn Thr Met Leu Ser Leu Trp Val Pro Ala Val Pro Gly Pro Pro Ala
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Val Pro Glu His Trp Asp Val Ala Pro Ser Trp Phe Val Cys Arg Pro
130 135 140

Gly Lys Lys Gly Gly Ile Lys Ile Thr Gln Ser Ala Ser Met Ala Ala
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Val Arg Ala Asp Val Asn Ala Phe Ser Met Asn Ala Val Leu Gly Ala
180 185 190

Leu Arg Ala Gly Gly Phe Asn Thr Glu His Ser Leu Val Ser Phe Val
195 200 205

Glu Pro Leu Ile Arg Ile Leu Leu Met Gly Val Gln Thr Gln Asp Arg
210 215 220

Gly Thr Ser Pro Trp Asp Trp Val Gly Gly Met Ser Ser Arg Ile Val
225 230 235 240

Asn Pro Leu Val Phe Thr Thr Ser Gly Asn Phe Phe Pro Gly Gly Pro
245 250 255

cardiomyopathy syndrom virus sequence listing oktober 2010 412104 444255.txt

Asn Leu Arg Val Trp Gly Ala Asn Asp Thr Val Ala Arg Ile Val Asn
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Val Glu Asp Tyr Met Arg Glu Ala Ala Gly Glu Gly Arg Phe Asp Ala
275 280 285

Gly Trp Gly Pro Glu Phe Trp Gly Gly Thr Gly Asp Asp Ala Val Ala
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Val Val Pro Ile Arg Ala Val Glu Ala Gly Leu Gly Glu Val Asn Ala
305 310 315 320

Gly Trp Thr Leu Ala His Met Glu Tyr Pro Val Lys Val Arg Leu Leu
325 330 335

Asp Val Asp Asp Arg Thr Ile Gly Pro Gly Gly Ser Leu Pro Leu Asn
340 345 350

Ala Asn Arg Glu Tyr Thr Ala Ala Gly Ala Thr His Val Pro Gly Pro
355 360 365

Tyr Ala Arg Val Leu Tyr Val Val Val Asp Gln Asn Ala Asp Arg Cys
370 375 380

Val Gly Val Arg Val Gln Gly Gln Gly Ala Val Ile Asp Val Asp Pro
385 390 395 400

Ala Leu Asn Tyr Val Ile Gly Gly Ala Asp Leu Gly Met Leu Pro Leu
405 410 415

Ile Gln Trp Ser Val Gly Leu Gly Ala Glu Asp Met Ala Gln Gly Ser
420 425 430

Ile Ala Gln Thr Gln Arg Trp Val Arg Met Tyr Gly Asn Glu Asp Asp
435 440 445

Trp Glu Ser Ala Trp His Leu Val Ser Ser Ala Tyr Thr Val Tyr Ser
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Pro Ala Phe Arg Arg Ser Gly Val Ala Val Glu Gly Gly Phe Trp Ala
465 470 475 480

Gln Pro Ala Ala Gly Ala Ala Pro Phe Pro Leu Gly Gly Leu Ala Gly
485 490 495

Trp Val Arg Tyr Asp Asn Gln Ala Arg Ala Ala Gln Val Ala Leu Cys
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Arg Glu Arg Ala Asp Met Ala Glu Cys Pro Trp Gly Gly Tyr Arg Glu
515 520 525

cardiomyopathy syndrom virus sequence listing oktober 2010 412104 444255.txt

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530 535 540

Asp Pro Thr Val Ala Val Gly Val Ala Ala His Phe Trp Ser Val Val
545 550 555 560

Lys Val Met Val Ala Pro Val Pro Asp Arg Ala Ala Ala Leu Ala Asp
565 570 575

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Leu Glu Asn Glu Ser Met Gln Thr Thr His Trp Ser Thr Thr Glu Val
625 630 635 640

Ala Met Asn Gly Tyr Tyr Gly Arg Ala Gly Ala Thr Ala His His Ala
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675 680 685

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725 730 735

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755 760 765

Pro Thr Ser Gly Thr Ala Val Val Asp Arg Leu Ala Asn Phe Gly Leu
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cardiomyopathy syndrom virus sequence listing oktober 2010 412104 444255.txt

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Asp Thr Thr Gly Met Thr Thr Ala Asp Phe Leu Asp Ile
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gaaattaacc cgggtaaagt atttgcgta aggaaaaggg acgagtatct caggatggta 1260
gcggaagagg ggaaaatggc aggttatgta attaggtgtc taccgaaaat tgtatttaca 1320
tcaccaacag aagagggtac cacatgggaa gaacgaatta ggggaacagt gtcaaaatgg 1380

cardiomyopathy syndrom virus sequence listing oktober 2010 412104 444255.txt

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atgaggggtgt tatcacgggg gggggatagg gaagtagcta aatattggat gaaacgcgat      1440
ttgtgtggat tgagtggaga gaattcggaa ttaatagata gctgggttacg tactccagca      1500
tccgtggggg ggggtggttg tgcattggta cttggggagg gaaatttgtg gacgggatta      1560
gtacttaggg aacaggagga agcagaagtg gtggagcggtt caaatcacao aatgatgtcg      1620
gattacgggg ggtcagttcc tgcccgtaga tggatcaaga gtgtgacgaa gggcgcaaaa      1680
ccggcttttg ggttcaagag gatagagagg gtaaagccac tagggaactg gttaaaagat      1740
ctaaggccag tggcggaatc aattaaatca attagtgtact tagtcgaaac atcacaggta      1800
ccaaaattca gatttaagga aatttatgat tggacaccat tcatgggtaca caagaggaac      1860
gcgctcatag aagaaaagaa ctgggacaaa ttgtgctcgc tttatcataa tgaaggggaa      1920
gtgagactat ataaaaggat attaccaggg tggatgtggc tgagtatgat aaaaaatgag      1980
ttaacatggg taagtatgcc accaaacatt gctaattcgg aagttgcttc acttgcaaaa      2040
gaaagagtgg agtacaaagt gttgagtaaa gtattgaggt atcaccgaac cgtctcaaga      2100
gaaacgctca ctcgtttttc tattggtggg gagtatgtac tgagtgtctaa actcaacgac      2160
aggcaaagga tattacagta g                                     2181

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<210> 5
<211> 726
<212> PRT
<213> Cardiomyopathy syndrom virus

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<400> 5

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Met Ile Thr Lys Ala Leu Ala Gln Gly Arg Glu Glu Asp Trp Ile Lys
1           5           10           15

```

```

Ile Thr Thr Asn Thr Thr Lys Ile Lys Leu Lys Ser Leu Arg Pro Leu
          20           25           30

```

```

Asp Gly Trp Glu His Ser Gly Trp Gly Leu Gly Leu Arg Leu Ala Leu
          35           40           45

```

```

Glu Leu Val Ser Glu Pro Thr Arg Glu Thr Met Ser Gly Val Ile Arg
50           55           60

```

```

Gln Ile Arg Ile Gly Lys Leu Asp Pro Thr Lys Val Phe Lys Ser Ile
65           70           75           80

```

```

Ser Asn Gln Ala Lys Val Ser Gly Cys Gly Leu Cys Arg Glu Trp Lys
          85           90           95

```

```

Glu Tyr Val Asn Trp Glu Leu Leu Gly Gly Tyr Gln Met Ile Thr Ala
100           105           110

```

```

Gln Gln Met Gly Glu Glu Val Ala His Gln Val Thr Glu Lys Ala Lys
115           120           125

```

cardiomyopathy syndrom virus sequence listing oktober 2010 412104 444255.txt

Ser Glu Glu Ala Gly Ser Asp Arg Ile Asn Arg Ala Leu Glu Ser Ile
130 135 140

Leu Gly Pro Leu Arg Gly Thr Cys Thr Val Pro Cys Ser Gln Arg Glu
145 150 155 160

Phe Leu Leu Cys Arg Asp Lys Trp Ala Lys Asn Thr Ser Gly Tyr Ile
165 170 175

Gly Leu Gly Gln Asn Leu Gly Arg Gln Lys Ile Asp Val Ala Leu Asn
180 185 190

Ser Asp Ile Lys Ala Leu Glu Arg Met Met Glu Gly Glu Phe Glu Asn
195 200 205

Arg Pro Phe Ile Lys Ser Glu Pro Gly Lys Ser Arg Pro Val Val Asn
210 215 220

Ser Asn Ile Ser Cys Tyr Leu Asn Leu Glu Tyr Gly Trp Val Thr Ile
225 230 235 240

Lys Lys Thr Leu Lys Lys Tyr Leu Gly Lys Arg Thr Thr Ile Phe Asp
245 250 255

Asp Ala Ser Gln Lys Val Leu Leu Trp Gln Glu Met Ile Ile Gly Ala
260 265 270

Asp Asn His Arg Glu Ile Lys Val Pro Leu Asp Tyr Ser Arg Phe Asp
275 280 285

Ser Thr Ile Gly Lys Thr Gln Ile Met Lys Cys Val Arg Leu Leu Leu
290 295 300

Asp Met Val Arg Gly Asn Asp Asn Trp Lys Arg Ser Val Thr Glu Arg
305 310 315 320

Phe Glu Arg Gln Thr Val Tyr Ile Asp Gly Tyr Gly Lys Leu Arg Trp
325 330 335

Glu Asn Ser Val Leu Ser Gly Trp Arg Trp Thr Ser Ile Ile Thr Ser
340 345 350

Val Ile Asn Leu Ala Ile Leu Lys Ala Thr Gly Ala Asp Ala Ser Gly
355 360 365

Val Gly Ile Lys Val Gln Gly Asp Asp Val Lys Ile Ser Phe Gln Thr
370 375 380

Ile Arg Glu Ala Glu Arg Cys Val Glu Glu Ile Asn Ala Leu Gly Tyr
385 390 395 400

cardiomyopathy syndrom virus sequence listing oktober 2010 412104 444255.txt

Glu Ile Asn Pro Gly Lys Val Phe Ala Ser Arg Lys Arg Asp Glu Tyr
405 410 415

Leu Arg Met Val Ala Glu Gly Gly Lys Met Ala Gly Tyr Val Ile Arg
420 425 430

Cys Leu Pro Lys Ile Val Phe Thr Ser Pro Thr Glu Glu Val Thr Thr
435 440 445

Trp Glu Glu Arg Ile Arg Gly Thr Val Ser Lys Trp Met Arg Val Leu
450 455 460

Ser Arg Gly Gly Asp Arg Glu Val Ala Lys Tyr Trp Met Lys Arg Asp
465 470 475 480

Leu Cys Gly Leu Ser Gly Glu Asn Ser Glu Leu Ile Asp Ser Trp Leu
485 490 495

Arg Thr Pro Ala Ser Val Gly Gly Gly Gly Cys Ala Trp Leu Leu Gly
500 505 510

Glu Gly Asn Leu Trp Thr Gly Leu Val Leu Arg Glu Gln Glu Glu Ala
515 520 525

Glu Val Val Glu Arg Ser Asn His Lys Met Met Ser Asp Tyr Gly Gly
530 535 540

Ser Val Pro Ala Arg Arg Trp Ile Lys Ser Val Thr Lys Gly Ala Lys
545 550 555 560

Pro Ala Phe Gly Phe Lys Arg Ile Glu Arg Val Lys Pro Leu Gly Asn
565 570 575

Trp Leu Lys Asp Leu Arg Pro Val Ala Glu Ser Ile Lys Ser Ile Ser
580 585 590

Asp Leu Val Glu Thr Ser Gln Val Pro Lys Phe Arg Phe Lys Glu Ile
595 600 605

Tyr Asp Trp Thr Pro Phe Met Val His Lys Arg Asn Ala Leu Ile Glu
610 615 620

Glu Lys Asn Trp Asp Lys Leu Cys Ser Leu Tyr His Asn Glu Gly Glu
625 630 635 640

Val Arg Leu Tyr Lys Arg Ile Leu Pro Arg Trp Met Trp Leu Ser Met
645 650 655

Ile Lys Asn Glu Leu Thr Trp Val Ser Met Pro Pro Asn Ile Ala Asn
660 665 670

cardiomyopathy syndrom virus sequence listing oktober 2010 412104 444255.txt

Ser Glu Val Ala Ser Leu Ala Lys Glu Arg Val Glu Tyr Lys Val Leu
675 680 685

Ser Lys Val Leu Arg Tyr His Arg Thr Val Ser Arg Glu Thr Leu Thr
690 695 700

Arg Phe Ser Ile Gly Gly Glu Tyr Val Leu Ser Ala Lys Leu Asn Asp
705 710 715 720

Arg Gln Arg Ile Leu Gln
725

<210> 6
<211> 909
<212> DNA
<213> Cardiomyopathy syndrom virus

<400> 6
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ttggtgggag aggggaagggc tgagaagatc gagctattca atcagagcgc cacatgtggg 180
aagaaagagc taataataac gtggaagggg aagaggtggt gctacgatat tgagagcaag 240
cgaggggaaa tactagtaaa gacactgagc ggaggggggac atctggaacg agaggggaaag 300
gggtacaagt tagttaggaa cgggttccat ctgtcttcac tcgggggtaa aaaagaggaa 360
atacaggatt caagtcacat agagaaagta aacgggaaag acgcgatagt taagaaaggg 420
caacacgtag aacatcttcc agggggggaac gatttaattg ttacagaggg cggaacctg 480
tgtgggaacg tgggggttctt cgataatacg cagtgtacat acaacagtgt tataaatata 540
ggaggggggaa gtgttgacaa ttcacaagaa gccagaacg ataaatcaaa cacaattgac 600
aatttaattg atatgttacc tttagttgta ggaatagccg ggggctgtct catagtgata 660
gtagtcttat acttaacaat taaatactgt aaatgcaaga agaagaggac caaccagaa 720
ccagcggaac cggaggaaca cgagatgagg gatctcagga gaaggtaga gccacgcctt 780
ccataccaaa gacagatggg tgttgagttt gaaataaatg aagctctcga attcatgggc 840
gtcgaaggga gtgaaagccc agactcagga tgtcagtcag atgaagaggg attcagagta 900
ggagtctag 909

<210> 7
<211> 302
<212> PRT
<213> Cardiomyopathy syndrom virus

<400> 7

Met Ser Asn Lys Met Lys Ser Phe Leu Leu Val Leu Leu Cys Leu Cys
1 5 10 15

Val Gly Glu Gly Ile Val Pro Met Phe Arg Arg Glu Trp Cys Leu Cys

Thr Ala Gly Asn Ala Arg Val Pro Leu Val Gly Glu Gly Arg Ala Glu
35 40 45

Lys Ile Glu Leu Phe Asn Gln Ser Ala Thr Cys Gly Lys Lys Glu Leu
50 55 60

Ile Ile Thr Trp Lys Gly Lys Arg Trp Cys Tyr Asp Ile Glu Ser Lys
65 70 75 80

Arg Gly Lys Ile Leu Val Lys Thr Leu Ser Gly Gly Gly His Leu Glu
85 90 95

Arg Glu Gly Lys Gly Tyr Lys Leu Val Arg Asn Gly Phe His Leu Ala
100 105 110

Ser Phe Gly Gly Lys Lys Glu Glu Ile Gln Asp Ser Ser His Ile Glu
115 120 125

Lys Val Asn Gly Lys Asp Ala Ile Val Lys Lys Gly Gln His Val Glu
130 135 140

His Leu Pro Gly Gly Asn Asp Leu Ile Val Thr Glu Gly Gly Asn Leu
145 150 155 160

Cys Gly Asn Val Gly Phe Phe Asp Asn Thr Gln Cys Thr Tyr Asn Ser
165 170 175

Val Ile Asn Ile Gly Gly Gly Ser Val Asp Asn Ser Gln Glu Ala Lys
180 185 190

Asn Asp Lys Ser Asn Thr Ile Asp Asn Leu Ile Asp Met Leu Pro Leu
195 200 205

Val Val Gly Ile Ala Gly Gly Cys Leu Ile Val Ile Val Val Leu Tyr
210 215 220

Leu Thr Ile Lys Tyr Cys Lys Cys Lys Lys Lys Arg Thr Asn Pro Glu
225 230 235 240

Pro Ala Glu Pro Glu Glu His Glu Met Arg Asp Leu Arg Arg Arg Leu
245 250 255

Glu Pro Arg Pro Pro Tyr Gln Arg Gln Met Gly Val Glu Phe Glu Ile
260 265 270

Asn Glu Ala Leu Glu Phe Met Gly Val Glu Gly Ser Glu Ser Pro Asp
275 280 285

Ser Gly Cys Gln Ser Asp Glu Glu Gly Phe Arg Val Gly Val

<210> 8
<211> 19
<212> DNA
<213> Cardiomyopathy syndrom virus

<400> 8
tccagtcct tgatgtctg 19

<210> 9
<211> 21
<212> DNA
<213> Cardiomyopathy syndrom virus

<400> 9
catctccatc cgctaagtac g 21

<210> 10
<211> 20
<212> DNA
<213> cardiomyopathy syndrom virus

<400> 10
tgctgtcgt tgagtttagc 20

<210> 11
<211> 19
<212> DNA
<213> Cardiomyopathy syndrom virus

<400> 11
cccgaatgaa gcaagatgg 19

<210> 12
<211> 20
<212> DNA
<213> Cardiomyopathy syndrom virus

<400> 12
gaaagcccag actcaggatg 20

<210> 13
<211> 19
<212> DNA
<213> Cardiomyopathy syndrom virus

<400> 13
acaccagtg accgaaaag 19

<210> 14
<211> 20
<212> DNA
<213> Cardiomyopathy syndrom virus

<400> 14
acatggtgcg aggtaacgac 20

<210> 15
<211> 19

cardiomyopathy syndrom virus sequence listing oktober 2010 412104 444255.txt

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<212> DNA
<213> Cardiomyopathy syndrom virus

<400> 15
agttcctgcc cgtagatgg 19

<210> 16
<211> 19
<212> DNA
<213> Cardiomyopathy syndrom virus

<400> 16
ggcgagaatg gtgtttgtg 19

<210> 17
<211> 20
<212> DNA
<213> Cardiomyopathy syndrome virus

<400> 17
cctgggtctca ctcccaagag 20

<210> 18
<211> 21
<212> DNA
<213> Cardiomyopathy syndrom virus

<400> 18
aggggaacagg aggaagcaga a 21

<210> 19
<211> 23
<212> DNA
<213> Cardiomyopathy syndrom virus

<400> 19
cgtaatccga catcattttg tga 23

<210> 20
<211> 22
<212> DNA
<213> Cardiomyopathy syndrom virus

<400> 20
ggaagcagaa gtggtggagc gt 22

<210> 21
<211> 20
<212> DNA
<213> Cardiomyopathy syndrom virus

<400> 21
ccggttttgc gcccttcgtc 20

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