```
Query: MG987421.1 Middle East respiratory syndrome-related coronavirus isolate NL140455, complete genome Query ID: lcl|Query_26607 Length: 30483

>MN996527.1 Severe acute respiratory syndrome coronavirus 2 isolate WIV02, complete genome
Sequence ID: Query_26609 Length: 29825
Range 1: 14242 to 17906

Score:628 bits(340), Expect:0.0,
Identities:2620/3728(70%),  Gaps:127/3728(3%), Strand: Plus/Plus

Query  14605  AGG-TACAACTCTTTGAGAAGTACTTTAAACACTGGGATCAGCCATACCACGCAAATTGC  14663
              ||| || ||||||||||     || |||||| | ||||||||| |||||||| |||||||
Sbjct  14242  AGGTTAAAACTCTTTGACCGTTATTTTAAATATTGGGATCAGACATACCACCCAAATTGT  14301

Query  14664  GTAAATTGTGCTGATGACCGTTGTGTGTTACATTGTGCAAATTTCAATG---TATTGTTT  14720
              || || |||   |||||| | ||  |  | |||||||||| || ||||   |||| | |
Sbjct  14302  GTTAACTGTTTGGATGACAGATGCATTCTGCATTGTGCAAACTTTAATGTTTTATTCTCT  14361

Query  14721  GCAATGACACTACCTAAGACATGTTTCGGCCCGATAGTCCGAAAAATCTTTGTCGATGGT  14780
               || ||   | ||||   ||| |||| || ||  ||||  ||||||| ||||| ||||||
Sbjct  14362  ACAGTGTTCCCACCT---ACAAGTTTTGGACCACTAGTGAGAAAAATATTTGTTGATGGT  14418

Query  14781  GTGCCATTTGTTGTATCCTGTGGTTACCACTACAAGGAATTAGGTTTAGT-TATGAATAT  14839
              || |||||||| || ||   ||| ||||||| ||  ||  ||||| | ||  || |||
Sbjct  14419  GTTCCATTTGTAGTTTCAACTGGATACCACTTCAGAGAGCTAGGTGTTGTACAT-AATCA  14477

Query  14840  GGACGTTAGTCTCCATAGACATAGACTCTCTCTTAAGGAGCTAATGATGTATGCAGCTGA  14899
              ||| || |   | |||||   ||||||   | |||||||  || |  ||||||| |||||
Sbjct  14478  GGATGTAAACTTACATAGCTCTAGACTTAGTTTTAAGGAATTACTTGTGTATGCTGCTGA  14537

Query  14900  TCCTGCCATGCACATTGCCTCCTCTAACGCCTTACTTGATCTAAGGACATCATGTTTTAG  14959
               ||||| ||||||  ||| ||   |||    ||||| |||  | | ||  | || |||
Sbjct  14538  CCCTGCTATGCACGCTGCTTCTGGTAATCTATTACTAGATAAACGCACTACGTGCTTTTC  14597

Query  14960  TGTCGCGGCTCTTACCACCGGTCTTACATTTCAGACAGTGCGGCCCGGCAATTTTAATCA  15019
               || || || ||||| | |   | || | ||||| || ||    ||||| ||||||||  |
Sbjct  14598  AGTAGCTGCACTTACTAACAATGTTGCTTTTCAAACTGTCAAACCCGGTAATTTTAACAA  14657

Query  15020  AGATTTCTATGACTTCGTAGTGTCAAAGGGCTTCTTTAAAGAAGGTTCCTCTGT-GACCC  15078
              ||| |||||||||| |  ||||| ||||| |||||||| |||||    ||||| ||
Sbjct  14658  AGACTTCTATGACTTTGCTGTGTCTAAGGGTTTCTTTAAGGAAGGAAGTTCTGTTGA-AT  14716

Query  15079  TTAAACATTTCTTCTTTGCTCAAGATGGGCATGCTGCTATTACAGATTATAACTACTATT  15138
              | ||||| |||||||||||||| |||||  |||||||||| |  |||||| ||||||||
Sbjct  14717  TAAAACACTTCTTCTTTGCTCAGGATGGTAATGCTGCTATCAGCGATTATGACTACTATC  14776

Query  15139  CTTATAATCTGCCTACTATGTGTGACATCAAACAGATGTTATTCTGTA-TGGAAGTTGTT  15197
               ||||||||| || || |||||||| |||| |||  |  |||| |||| | |||||||||
Sbjct  14777  GTTATAATCTACCAACAATGTGTGATATCAGACAACTACTATT-TGTAGTTGAAGTTGTT  14835

Query  15198  AACAAATACTTCGAGATCTACGATGGCGGTTGCCTTAATGC-ATCTGAAGTTGTTGTTAA  15256
               | || ||||| ||     |||||||| || ||  ||||||| | |  ||||   | || ||
Sbjct  14836  GATAAGTACTTTGATTGTTACGATGGTGGCTGTATTAATGCTAAC-CAAGTCATCGTCAA  14894

Query  15257  CAATTTAGACAAAAGCGCTGGCTATCCATTCAATAAGTTTGGCAAAGCTCGCGTTTACTA  15316
              |||  ||||||||   ||||| | |||||| ||||| |  || || ||| |  |||| ||
Sbjct  14895  CAACCTAGACAAATCAGCTGGTTTTCCATTTAATAAATGGGGTAAGGCTAGACTTTATTA  14954

Query  15317  TGAAAGTATGTCGTATCAGGAGCAGGATGAGCTGTTTGCA-ATCACTAAACGCAATGTCC  15375
              |||     |||   ||| |||| || ||||  || || ||| || || ||||| ||||||
Sbjct  14955  TGATTCAATGAGTTATGAGGATCAAGATGCACTTTTCGCATAT-ACAAAACGTAATGTCA  15013
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Query  15376  TCCCTACGATTACTCAGATGAATTTGAAGTATGCTATTAGTGCTAAGAATCGTGCTCGCA  15435
              ||||||| || ||||| |||||| | |||||||| |||||||| |||||| | |||||||
Sbjct  15014  TCCCTACTATAACTCAAATGAATCTTAAGTATGCCATTAGTGCAAAGAATAGAGCTCGCA  15073

Query  15436  CTGTTGCAGGCGTGTCTATACT-TAGTACCATGACTAATCGCCAATTCCACCAGAAAATG  15494
              | || || || || ||||| || |||||| ||||| ||| | || || || || ||| |
Sbjct  15074  CCGTAGCTGGTGTCTCTAT-CTGTAGTACTATGACCAATAGACAGTTTCATCAAAAATTA  15132

Query  15495  CTCAAGTCCATGGCTGCTACACGTGGCGCGACTTGT-GTCATTGGAACAACGAAGTTCTA  15553
               | || || || || || ||   | || || || ||| || |||||||||||  || |||||
Sbjct  15133  TTGAAATCAATAGCCGCCACTAGAGGAGCTAC-TGTAGTAATTGGAACAAGCAAATTCTA  15191

Query  15554  TGGTGGGTGGGATTTTATGCTGAAGAC-GTTGTATAAAGACGTCGAAAATCCACACCTAA  15612
              |||||| ||| |    ||| | || || ||| ||||  || || ||||| || ||||| |
Sbjct  15192  TGGTGGTTGGCACAACATGTTAAAAACTGTT-TATAGTGATGTAGAAAACCCTCACCTTA  15250

Query  15613  TGGGATGGGATTACCCTAAGTGTGATCGTGCTATGCCTAACATGTGTAGGATTTTTGCAT  15672
              |||| |||||||| ||||| |||||| | || |||||||||||||  ||| ||| | || |
Sbjct  15251  TGGGTTGGGATTATCCTAAATGTGATAGAGCCATGCCTAACATGCTTAGAATTATGGCCT  15310

Query  15673  CTCTAATTCTTGCACGCAAGCATGGAACTTGCTGCA-CTACTAGAGATAGATTTTACCGC  15731
              | ||  ||||||| ||||| |||  ||| || || | ||  |  | |  | || ||  |
Sbjct  15311  CACTTGTTCTTGCTCGCAAACATACAACGTGTTGTAGCTTGT-CACACCGTTTCTATAGA  15369

Query  15732  TTAGCTAATGAGTGCGCTCAGGTACTAAGCGAATATGTCCTCTGTGGTGGTGGTT-A-T-  15788
              |||||||||||||| ||||| ||| | || ||| |||  |  ||| |||| |||| | |
Sbjct  15370  TTAGCTAATGAGTGTGCTCAAGTATTGAGTGAA-ATGGTC-ATGT-GTGGCGGTTCACTA  15426

Query  15789  TACGTCAAACCTGGCGGAACC--AGCAGTGGCGATGCCACCACAGCTTATGCCAACAGTG  15846
              || || ||||| || |||||||  | ||  || |||||||| || |||||||| || ||||
Sbjct  15427  TATGTTAAACCAGGTGGAACCTCATCA--GGAGATGCCACAACTGCTTATGCTAATAGTG  15484

Query  15847  TCTTTAACATTTTGCAGGC-GACAACTGCAAATGTTAGTGCACTTATGGGCGCTAATGGC  15905
              | ||||||||||  || || | | || || ||||||| ||||||| |      || ||||
Sbjct  15485  TTTTTAACATTTGTCAAGCTGTC-ACGGCCAATGTTAATGCACTTTTATCTACTGATGGT  15543

Query  15906  AACAAAATTGTTGATAAAGAGAT-T-AGGGACATGCAATTC-GATTTGTATGTCAATGT-  15961
              ||||||||||  ||||| |  || |  |  |  | |||  | || || ||||  | |||
Sbjct  15544  AACAAAATTGCCGATAA-G-TATGTCCGCAATTTACAACACAGACTT-TATG--AGTGTC  15598

Query  15962  T-TACAGGAATACTACTCCTGACCCCAAATTTGTAGATAAATATTATGCGTTTCTCAACA  16020
              | || || ||||    |  |||| |  | |||||  || | | ||| || | | |    |
Sbjct  15599  TCTATAGAAATAGAGATGTTGACACAGACTTTGTGAATGAGTTTTACGCATATTTGCGTA  15658

Query  16021  AGCACTTTTCTATGATGATACTATCTGATGATGGTGTTGTCTGCTATAACAGTGAC-TAT  16079
              | || || || ||||||||||| ||||| |||| |||||| || |  || ||  || |||
Sbjct  15659  AACATTTCTCAATGATGATACTCTCTGACGATGCTGTTGTGTGTTTCAATAG-CACTTAT  15717

Query  16080  GCTTCAAAAGGATACA-TTGCTGGCATACAGAATTTCAAAGAAACTCTGTACTACCAGAA  16138
              || ||  |||| |  | | ||| ||||| |||| || ||   |  ||| || || || ||
Sbjct  15718  GCATCTCAAGG-TCTAGTGGCTAGCATAAAGAACTTTAAGTCAGTTCTTTATTATCAAAA  15776

Query  16139  CAATGTGTTTATGTCTGAAGCTAAATGCTGGGTGGAGTCAGATTTGAAAAAAGGCCCACA  16198
              |||||| ||||||||||||||| ||||| |||   ||| | ||  | |  ||||| || ||
Sbjct  15777  CAATGTTTTTATGTCTGAAGCAAAATGTTGGACTGAGACTGACCTTACTAAAGGACCTCA  15836

Query  16199  TGAATTTTGTTCTCAGCATACGCTTTTTATTAAGGATGGTGACGATGGTTACTTCCTGCC  16258
              ||||||||| ||||| |||||  |  |  ||||  | ||||| |||  |    | ||| ||
Sbjct  15837  TGAATTTTGCTCTCAACATACAATGCTAGTTAAACAGGGTGATGATTATGTGTACCTTCC  15896
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Query  16259  TTATCCAGACCCTTCAAGGATTTTGTCTGCCGGTTGCTTTGTAGATGATATTGTTAAAAC  16318
              ||| ||||| || ||||| ||   |     ||||| || ||||||||||||||| || |||||
Sbjct  15897  TTACCCAGATCCATCAAGAATCCTAGGGGCCGGCTGTTTTGTAGATGATATCGTAAAAAC  15956

Query  16319  TGATGGTACACTCATGGTAGAGAGGTTTGTTTCCTTAGCCATTGATGCGTACCCTCTTAC  16378
               |||||||||||| ||| | ||  |||| || || ||||| || ||||| ||||| |||||
Sbjct  15957  AGATGGTACACTTATGATTGAACGGTTCGTGTCTTTAGCTATAGATGCTTACCCACTTAC  16016

Query  16379  AAAGCATGATGATAT-A-GAATACCAAAATGTATTCTGGGTGTATTTACAGTACATTGAA  16436
               || |||  | | || | || ||     |||| ||     |||| ||||| |||||   |
Sbjct  16017  TAAACATCCT-A-ATCAGGAGTATGCTGATGTCTTTCATTTGTACTTACAATACATAAGA  16074

Query  16437  AAGCTGTACAAAGACCTTACAGGGCACATGCTGGACAGTTACTCTGTTATGCTATGTGGT  16496
              |||||  |  | ||  | ||||| |||||| | ||||  || ||||||||||   |  |
Sbjct  16075  AAGCTACATGATGAGTTAACAGGACACATGTTAGACATGTATTCTGTTATGCTTACTAAT  16134

Query  16497  GATAATTCCGCTAAGTTCTGGG-AGGAGAGCTTTTATAGAGAACTCTATG-AAGCTCC-C  16553
              |||||  |  | | ||  |||| |   ||| |||||| |||    ||||| |  | || |
Sbjct  16135  GATAACACTTCAAGGTATTGGGAACCTGAG-TTTTAT-GAG---GCTATGTACACACCGC  16189

Query  16554  A-CCA-CCCTGCAGGCTGTTGGTTCTTGTGTAGTGTGTCATTCACAAACCTCGTTGCGTT  16611
              |  ||  | | ||||||||||  |||||||  | ||  ||||||| || || ||  | |
Sbjct  16190  ATACAGTCTTACAGGCTGTTGGGGCTTGTGTTCTTTGCAATTCACAGACTTCATTAAGAT  16249

Query  16612  GTGGCACATGTATACGTAGACCTTTCCTATGTTGTAAGTGTTGTTACGATCATGTTATAG  16671
              ||||  | || ||||||||||| ||| |||||||||| || ||||||||| ||||| |||
Sbjct  16250  GTGGTGCTTGCATACGTAGACCATTCTTATGTTGTAAATGCTGTTACGACCATGTCATAT  16309

Query  16672  CAACTACTCATAAGATGGTTCTGTCAGTCTCA-CCTTACGTCTGTAATGCTCCTGGTTGT  16730
              ||||  | |||||  | ||  |||| || | | || || || || ||||||||| ||||||
Sbjct  16310  CAACATCACATAAATTAGTCTTGTCTGT-TAATCCGTATGTTTGCAATGCTCCAGGTTGT  16368

Query  16731  GACGTTTCAGATGTTACTAAACTGTATTTAGGTGGTATGAGCTACTTTTGTGTAGAT--C  16788
              || ||  ||||||| ||| |||| || ||||| ||||||||||| || | |||| ||  |
Sbjct  16369  GATGTCACAGATGTGACTCAACTTTACTTAGGAGGTATGAGCTA-TTAT-TGTAAATCAC  16426

Query  16789  ATAGACCGA-TATGCAGTTTTCCGCTTTGTGCTAATGGCCTAGTCTTTGGCCTTTACAAG  16847
              ||| |||     ||  ||||||||  | ||||||||||| | ||| |||||  | || ||
Sbjct  16427  ATAAACCACCCAT-TAGTTTTCCATTGTGTGCTAATGGACAAGTTTTTGGTTTATATAAA  16485

Query  16848  AATATGTGCACAGGTAGTCCCT-CTGTATCAGAATTTAACAGACTGGCTACATGTGATTG  16906
              ||||  ||    ||||| |  |  |||  | || |||||   | | || |||||||| ||
Sbjct  16486  AATACATGTGTTGGTAG-CGATAATGTTACTGACTTTAATGCAATTGCAACATGTGACTG  16544

Query  16907  GTCTGAGAG-TGGTGATTACATACTCGCTAATACTACTACAGAACCACTTAAATTGTTTG  16965
              | |  |  | ||||||||||||  | ||||| ||   ||| |||  ||| ||  | ||||
Sbjct  16545  GAC-AAATGCTGGTGATTACATTTTAGCTAACACCTGTACTGAAAGACTCAAGCTTTTTG  16603

Query  16966  CTGCTGAGACATTGCGTGCCACTGAGGAGGCCTCTAAGCAGTCTTATGCAATCGCCACAA  17025
              | || || ||  |     || ||||||||| | | ||| | ||||||||  || || ||
Sbjct  16604  CAGCAGAAACGCTCAAAGCTACTGAGGAGACATTTAAACTGTCTTATGGTATTGCTAC-T  16662

Query  17026  TTAAAGAG-ATTGTAGGC-GAAAGAGAATTAATTCTTGTGTGGGAGACTGGAAAGTCCAA  17083
               | | | | | ||  | | || |||||||||  ||||   |||||   ||| ||  | |
Sbjct  16663  GT-ACGTGAAGTGCTGTCTGACAGAGAATTACATCTTTCATGGGAAGTTGGTAAACCTAG  16721

Query  17084  ACCCCCACTCAACCGTAATTATGTCTTTACTGGTTATCATATAACCAAGAATAGTAAAGT  17143
              ||| ||||| ||||| ||||||||||||||||||||| | ||||| || || ||||||||
Sbjct  16722  ACCACCACTTAACCGAAATTATGTCTTTACTGGTTATCGTGTAACTAAAAACAGTAAAGT  16781
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Query  17144  GCAGCTCGGAGAGTTTGTCTTTGAGCGCATTGATTATAGTGATGCTGTATCCTA-C-AAG  17201
               ||   | |||||||     ||||||       ||| ||| ||||||||||    || | | |
Sbjct  16782  ACAAATAGGAGAGTACACCTTTGAAAAAGGTGACTATGGTGATGCTGTTGTTTACCGAGG  16841

Query  17202  T-CAAGCACGACATACAAATTGACTGTGGGTGA-CATCTTTGTTCTTACCTCACACTCTG  17259
              | ||| ||  || |||||||| | ||| |||||  || ||||| || || |||||   | |
Sbjct  16842  TACAA-CA--ACTTACAAATTAAATGTTGGTGATTAT-TTTGTGCTGACATCACATACAG  16897

Query  17260  T--GGCGACTCTGACAGCGCCAACAATAGTGAATCAAGAGAGGTATGTAAAAATCACTGG  17317
              |   || | | | |   || || ||| |||||   ||||||   ||||| | ||| |||||
Sbjct  16898  TAATGCCA-T-TAAGTGCACCTACACTAGTGCCACAAGAGCACTATGTTAGAATTACTGG  16955

Query  17318  ATTATATCCAACCATTACTGTTCCTGAGGAATTTGCCAATCATGTTGCCAACTTCCAAAA  17377
               ||||| |||||   | | | |   | || || ||| | |    ||||||| || |   |||||
Sbjct  16956  CTTATACCCAACACTCAATATCTCAGATGAGTTTTCTAGCAATGTTGCAAATTATCAAAA  17015

Query  17378  AGCAGGATATAGTAAA-TATGTTACCGTTCAGGGTCCACCTGGTACTGGTAAGAGTCATT  17436
               |   || |||   ||| |||  |||  | ||||| |||||||||||||||||||||||||
Sbjct  17016  GGTTGG-TATGCAAAAGTATTCTACACTCCAGGGACCACCTGGTACTGGTAAGAGTCATT  17074

Query  17437  TTGCTATAGGGTTAGCGATTTATTACCCTACAGCCCGTATTGTCTATACTGCTTGCTCGC  17496
              ||||||| ||  |||| | || |||||| | || || || || ||||| |||||||| |
Sbjct  17075  TTGCTATTGGCCTAGCTCTCTACTACCCTTCTGCTCGCATAGTGTATACAGCTTGCTCTC  17134

Query  17497  ATGCGGCCGTTGATGCGTTATGCGAAAAAGCTTTTAAATATCTAAACATTGGTAAATGT-  17555
              |||| || |||||||| |||| || || || || |||||| |     || | |||||||
Sbjct  17135  ATGCCGCTGTTGATGCACTATGTGAGAAGGCATTAAAATATTTGCCTATAGATAAATGTA  17194

Query  17556  TCACGTATTATACCTGCCAAAGCACGCGTTGAGTGCTATGATAGGTTTAAAGTTAATGAA  17615
                | | |||||||||||    || || || ||||| | |||||  || ||||| |||   |
Sbjct  17195  GTA-GAATTATACCTGCACGTGCTCGTGTAGAGTGTTTTGATAAATTCAAAGTGAATTCA  17253

Query  17616  ACAAATAGT-CAGTATTTGTTCAGTACTATTAATGCACTACCAGAAACATCGGCTGATAT  17674
              |||  |||  |||||| | ||  ||||| | |||||| | || || ||  | || |||||
Sbjct  17254  ACAT-TAGAACAGTATGTCTTTTGTACTGTAAATGCATTGCCTGAGACGACAGCAGATAT  17312

Query  17675  TCTGGTGGTAGATGAAGTTAGTATGTGCACTAATTATGATTTGTCCATCATTAATGCACG  17734
                | ||  | |||||| ||   |||  ||| |||||||||||    |  | |||||  |
Sbjct  17313  AGTTGTCTTTGATGAAATTTCAATGGCCACAAATTATGATTTGAGTGTTGTCAATGCCAG  17372

Query  17735  TATCAAA-GCTAAGCAC-AT-TGTCTATGTAGGTGACCCCGCACAGTTGCCGGCACCTAG  17791
               || |   ||||||||| || |||  || | || ||||| || || || || |||||  |
Sbjct  17373  -ATTACGTGCTAAGCACTATGTGTACAT-T-GGCGACCCTGCTCAATTACCTGCACCACG  17429

Query  17792  GACTTTGCTCACTAGAGGCACGCTGGAACCGGAAAATTTCAAT--AGTGTCACTAGGCTT  17849
               || ||||| ||||  ||||| || ||||| ||| ||||||||  |||||   ||| |||
Sbjct  17430  CACATTGCTAACTAAGGGCACACTAGAACCAGAATATTTCAATTCAGTGTG--TAGACTT  17487

Query  17850  ATGTGTAACT-TGGGACCTGACATATTTCTTAGTATGTGCTACAG-GT-GTCCCAGGGAA  17906
              |||   |||| | || || ||||| || ||  | |  || | | | || ||||    |||
Sbjct  17488  ATGAA-AACTATAGGTCCAGACATGTTCCTCGGAACTTG-T-CGGCGTTGTCCTGCTGAA  17544

Query  17907  ATTGTTAACACTGTTAGTGCTCTTGTCTATAACAACAAG-TTGTTGTCAAAGAAAGAGCC  17965
              |||||| ||||||| |||||| | || ||| | || ||| ||   | || | |||||
Sbjct  17545  ATTGTTGACACTGTGAGTGCTTTGGTTTATGATAATAAGCTTAAAG-CACATAAAGACAA  17603

Query  17966  ATCAGGACAGTGTTTCAAAATACTCTATAAGGGCAATGTTACGCACGATGCTAGCTCTGC  18025
              |||||  || || || |||||  | ||||||||   | | ||||| |||| |   |||||
Sbjct  17604  ATCAGCTCAATGCTTTAAAATGTTTTATAAGGGTGTTATCACGCATGATGTTTCATCTGC  17663
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Query  18026  CATTAATAGACCCCAGTT-GACATTTGTCAAA-AATTTCATAGCTGCCAATCCTGCTTGG  18083
              |||||| || || ||  | | | |  || | | |||| | ||   |  || |||||||||
Sbjct  17664  AATTAACAGGCCACAAATAGGCGTG-GTAAGAGAATTCCTTACACGT-AACCCTGCTTGG  17721

Query  18084  AGTAAGGCAGTATTTATCTCACCCTATAATTCACAGAATGCTGTTGCGCGTTCTATGCTC  18143
              || || || || ||||| ||||| |||||||||||||||||||| || | | | | | |
Sbjct  17722  AGAAAAGCTGTCTTTATTTCACCTTATAATTCACAGAATGCTGTAGC-C-T-CAAAGATT  17778

Query  18144  --GGTT-TATCTACACAAACTGTAGACTCATCACAGGGTTCAGAGTACCCATACGTCATT  18200
                ||   || | || |||||||| || ||||||||||| ||||| ||    || |||||
Sbjct  17779  TTGGGACTACCAACTCAAACTGTTGATTCATCACAGGGCTCAGAATATGACTATGTCATA  17838

Query  18201  TTCTGCCAAACCGCAGACACAGCCCATGCCAATAACCTTAACAGGTTTAATGTGGCTGTG  18260
              |||   |||||| | || ||||| ||  |   |||  | ||||| |||||||| ||| |
Sbjct  17839  TTCACTCAAACCACTGAAACAGCTCACTCTTGTAATGTAAACAGATTTAATGTTGCTATT  17898

Query  18261  ACAAGAGC  18268
              || |||||
Sbjct  17899  ACCAGAGC  17906
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Range 2: 20749 to 21263

Score:102 bits(55), Expect:1e-22,
Identities:372/525(71%),  Gaps:21/525(4%), Strand: Plus/Plus

Query  21081  ATGAACGTGGCGAAATATATGCAATTGTGCCAGTATTTAAATACCTGCACAATAGCTGTT  21140
              ||||| || || |||||||  ||| |||| || |||||||| || |  ||| |||||||
Sbjct  20749  ATGAATGTCGCAAAATATACTCAACTGTGTCAATATTTAAACACATTAACATTAGCTGTA  20808

Query  21141  CCTGCTAACATGCGTGTTATGCATTTTGGCGCAGGTTCTGATAAAGGTATCGCACCCGGT  21200
              ||   ||| ||| | ||||| |||||||| || |||||||||||||  | ||||| |||
Sbjct  20809  CCCTATAATATGAGAGTTATACATTTTGGTGCTGGTTCTGATAAAGGAGTTGCACCAGGT  20868

Query  21201  ACTTCAGTCTTAAGGCAATGGCTACCTGTC-G-ATGCTGTTCTTATAGATAATGACCTAA  21258
              ||  | || ||||| || ||| | |||    | | ||||  ||| | |||   || || |
Sbjct  20869  ACAGCTGTTTTAAGACAGTGGTTGCCTACGGGTACGCTG--CTTGTCGATTCAGATCTTA  20926

Query  21259  ATGAGTACGTGTCAGATGCTGACATT-AGC-TTATTTGGAGACTGTGTAACTGTACGTGT  21316
              |||| |  || || |||||  | ||| | | ||  |||| || |||| |||||||| |
Sbjct  20927  ATGACTTTGTCTCTGATGC--AGATTCAACTTTGATTGGTGATTGTGCAACTGTACAT-A  20983

Query  21317  TGGACAGCAAGT-GGATCTTGTTATCTCTGACATGTATGATCCTAGTACTAAGAATG-T-  21373
                |  |  || | ||||||  ||||   ||| ||||| || ||||  ||||| |||| |
Sbjct  20984  CAGCTAATAAATGGGATCTCATTATTAGTGATATGTACGACCCTAAGACTAAAAATGTTA  21043

Query  21374  CAAGGGTACTAATGAAGC-AAA-AGCATTATTCTTTACTTACCTTTGTAATTTTAT-CAA  21430
              |||  | |  |||||  | ||| ||  || || || |||||| |||||   ||||| |||
Sbjct  21044  CAAAAG-A-AAATGACTCTAAAGAGGGTT-TT-TTCACTTACATTTGTGGGTTTATACAA  21099

Query  21431  TAATAATCTTGCTCTGGGTGGCTCTGTTGCTATCAAAATAACAGAACACTCATGGAGCGC  21490
               || || || ||||| || || || || ||||| || ||||||||||| || ||||  ||
Sbjct  21100  CAA-AAGCTAGCTCTTGGAGGTTCCGTGGCTATAAAGATAACAGAACATTCTTGGAATGC  21158

Query  21491  AGATCTTTATGAATTAATGGGAAAGTTTGCTTGGTGGACAGTGTTTTGCACCAATGCAAA  21550
               ||||||||| |  | |||||| | || || ||||||||||  |||   || ||||  ||
Sbjct  21159  TGATCTTTATAAGCTCATGGGACACTTCGCATGGTGGACAGCCTTTGTTACTAATGTGAA  21218

Query  21551  CGCATCATCTTCGGAAGGATTCCTCATTGGTCTTAATTA-CTTGG  21594
               || ||||| || |||| |||  | |||||   |||||| |||||
Sbjct  21219  TGCGTCATCATCTGAAGCATTTTTAATTGGATGTAATTATCTTGG  21263
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Range 3: 10414 to 10530

Score:56.5 bits(30), Expect:9e-09,
Identities:90/119(76%),  Gaps:3/119(2%), Strand: Plus/Plus

Query  10778  GCCCAAACTACACAATTAAGGGTTCATTCTTGTGTGGTTCTTGTGGTAGTGTTGGTTACA  10837
              |||| || | ||| |||||||||||||| |   |||||| |||||||||||||||  |
Sbjct  10414  GCCC-AATTTCACTATTAAGGGTTCATTCCTTAATGGTTCATGTGGTAGTGTTGGTTTTA  10472

Query  10838  CCAAGGAAGGTAA-TGTGATCAACTTTTGTTATATGCATCAAATGGAGTTAGCAAATGG  10895
               ||  ||   | | |||| ||   |||||||| ||||| || ||||| ||| ||| |||
Sbjct  10473  ACATAGATTATGACTGTG-TCTCTTTTTGTTACATGCACCATATGGAATTACCAACTGG  10530


Range 4: 11108 to 11130

Score:38.1 bits(20), Expect:0.003,
Identities:22/23(96%),  Gaps:0/23(0%), Strand: Plus/Plus

Query  11464  ATGTTGTTTGTCAAACATAAGCA  11486
              ||| |||||||||||||||||
Sbjct  11108  ATGATGTTTGTCAAACATAAGCA  11130


Range 5: 20123 to 20138

Score:30.7 bits(16), Expect:0.53,
Identities:16/16(100%),  Gaps:0/16(0%), Strand: Plus/Minus

Query  2246   CCATCAACTTTCTTAT  2261
              ||||||||||||||||
Sbjct  20138  CCATCAACTTTCTTAT  20123


Range 6: 21448 to 21463

Score:30.7 bits(16), Expect:0.53,
Identities:16/16(100%),  Gaps:0/16(0%), Strand: Plus/Minus

Query  19910  GTCTACCTTTACTAAG  19925
              ||||||||||||||||
Sbjct  21463  GTCTACCTTTACTAAG  21448
```