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# FASTA Results

## SUBMISSION PARAMETERS

|                         |           |                      |                    |
|-------------------------|-----------|----------------------|--------------------|
| Title                   | 57046-16s | Database             | em_rel_pro         |
| Sequence length         | 422       | Sequence type        | n                  |
| Program                 | fasta     | Version              | 35.04 Mar. 8, 2009 |
| Expectation upper value | 10.0      | Sequence range       | 1-                 |
| Number of scores        | 50        | Number of alignments | 50                 |
| Word size               | 6         | Open gap penalty     | -14                |
| Gap extension penalty   | -4        | Histogram            | false              |

| <u>Alignment</u> | <u>DB:ID</u>                    | <u>Source</u>                    | <u>Length</u> | <u>Identity%</u> | <u>Similar%</u> | <u>Overlap</u> | <u>E()</u> |
|------------------|---------------------------------|----------------------------------|---------------|------------------|-----------------|----------------|------------|
| 1                | <a href="#">EM_PRO:AY581886</a> | Corynebacterium sp. 31595 16     | 1436          | 98.3             | 98.3            | 422            | 3.1e-73    |
| 5                | <a href="#">EM_PRO:AF537595</a> | Corynebacterium glucuronolyt     | 1461          | 95.0             | 95.0            | 416            | 1.8e-66    |
| 7                | <a href="#">EM_PRO:AJ277971</a> | Corynebacterium glucuronolyt     | 1392          | 94.9             | 94.9            | 414            | 4.7e-66    |
| 2                | <a href="#">EM_PRO:D83375</a>   | Corynebacterium sp. DNA for 16S  | 1474          | 94.8             | 94.8            | 422            | 2e-67      |
| 4                | <a href="#">EM_PRO:AJ277970</a> | Corynebacterium glucuronolyt     | 1459          | 94.7             | 94.7            | 418            | 1.7e-66    |
| 14               | <a href="#">EM_PRO:AJ277976</a> | Corynebacterium glucuronolyt     | 555           | 94.6             | 94.6            | 411            | 6.9e-65    |
| 15               | <a href="#">EM_PRO:AJ277973</a> | Corynebacterium glucuronolyt     | 522           | 94.6             | 94.6            | 411            | 7.1e-65    |
| 16               | <a href="#">EM_PRO:AJ277975</a> | Corynebacterium glucuronolyt     | 500           | 94.6             | 94.6            | 411            | 7.3e-65    |
| 3                | <a href="#">EM_PRO:X84375</a>   | C.seminale 16S rRNA gene         | 1323          | 94.3             | 94.3            | 422            | 6.5e-67    |
| 6                | <a href="#">EM_PRO:AF537596</a> | Corynebacterium glucuronolyt     | 1477          | 93.9             | 94.1            | 423            | 2.7e-66    |
| 18               | <a href="#">EM_PRO:FM173120</a> | Corynebacterium sp. KSS-4Se      | 1441          | 93.8             | 93.8            | 419            | 1.1e-64    |
| 13               | <a href="#">EM_PRO:AF537608</a> | Corynebacterium nigricans is     | 1443          | 93.6             | 93.6            | 419            | 6.7e-65    |
| 27               | <a href="#">EM_PRO:AY701527</a> | Corynebacterium nigricans st     | 718           | 93.5             | 93.5            | 417            | 2.4e-64    |
| 8                | <a href="#">EM_PRO:Y09045</a>   | Corynebacterium lipophiloflavum  | 1474          | 93.4             | 93.4            | 422            | 1.1e-65    |
| 9                | <a href="#">EM_PRO:AY536426</a> | Corynebacterium aurimucosum      | 1440          | 93.4             | 93.4            | 423            | 2.4e-65    |
| 10               | <a href="#">EM_PRO:AY321294</a> | Corynebacterium nigricans is     | 1382          | 93.4             | 93.4            | 423            | 2.5e-65    |
| 12               | <a href="#">EM_PRO:AB269764</a> | Corynebacterium aurimucosum      | 1479          | 93.1             | 93.1            | 423            | 5.5e-65    |
| 25               | <a href="#">EM_PRO:FJ269041</a> | Corynebacterium sp. 3010 16S     | 1473          | 93.1             | 93.1            | 423            | 2e-64      |
| 26               | <a href="#">EM_PRO:EU417660</a> | Corynebacterium sp. 3LF25TD      | 1431          | 93.1             | 93.1            | 423            | 2e-64      |
| 11               | <a href="#">EM_PRO:AY677186</a> | Corynebacterium tuscaniense      | 1502          | 92.9             | 92.9            | 422            | 5.4e-65    |
| 19               | <a href="#">EM_PRO:EU848548</a> | Corynebacterium riegellii str    | 1457          | 92.6             | 92.9            | 421            | 1.2e-64    |
| 20               | <a href="#">EM_PRO:AF537602</a> | Corynebacterium riegellii iso    | 1454          | 92.6             | 92.9            | 421            | 1.2e-64    |
| 34               | <a href="#">EM_PRO:X86688</a>   | C.glucuronolyticum 16S rRNA gene | 1483          | 92.9             | 92.9            | 423            | 3.4e-64    |
| 37               | <a href="#">EM_PRO:AF220220</a> | Corynebacterium aurimucosum      | 1437          | 92.9             | 92.9            | 423            | 4.6e-64    |
| 35               | <a href="#">EM_PRO:AF537603</a> | Corynebacterium simulans iso     | 1465          | 92.8             | 92.8            | 418            | 3.5e-64    |

|    |                                 |                                   |      |      |      |     |         |
|----|---------------------------------|-----------------------------------|------|------|------|-----|---------|
| 17 | <a href="#">EM_PRO:Y14651</a>   | Corynebacterium riegellii 16S rRN | 1383 | 92.7 | 92.7 | 422 | 9.9e-65 |
| 21 | <a href="#">EM_PRO:AF537604</a> | Corynebacterium simulans iso      | 1469 | 92.7 | 92.7 | 422 | 1.3e-64 |
| 22 | <a href="#">EM_PRO:AJ012838</a> | Corynebacterium sp. strain U      | 1468 | 92.7 | 92.7 | 422 | 1.3e-64 |
| 23 | <a href="#">EM_PRO:AJ012836</a> | Corynebacterium sp. strain U      | 1468 | 92.7 | 92.7 | 422 | 1.3e-64 |
| 24 | <a href="#">EM_PRO:AJ012837</a> | Corynebacterium sp. strain U      | 1468 | 92.7 | 92.7 | 422 | 1.3e-64 |
| 36 | <a href="#">EM_PRO:AF227825</a> | Corynebacterium sp. 47081 16      | 1465 | 92.7 | 92.7 | 422 | 4.6e-64 |
| 38 | <a href="#">EM_PAT:CQ770296</a> | Sequence 31 from Patent WO20      | 1431 | 92.7 | 92.7 | 422 | 4.6e-64 |
| 39 | <a href="#">EM_PAT:CQ771289</a> | Sequence 31 from Patent WO20      | 1431 | 92.7 | 92.7 | 422 | 4.6e-64 |
| 42 | <a href="#">EM_PRO:AF227828</a> | Corynebacterium sp. 61722 16      | 1475 | 92.7 | 92.7 | 424 | 6.6e-64 |
| 46 | <a href="#">EM_PRO:D37914</a>   | Corynebacterium cystitidis gene   | 1438 | 92.6 | 92.6 | 418 | 8e-64   |
| 47 | <a href="#">EM_PRO:AF537591</a> | Corynebacterium confusum iso      | 1342 | 92.6 | 92.6 | 418 | 8.3e-64 |
| 28 | <a href="#">EM_PRO:Y09806</a>   | Corynebacterium mastitidis 16S r  | 1477 | 92.4 | 92.4 | 422 | 2.9e-64 |
| 29 | <a href="#">EM_PRO:Y09044</a>   | Corynebacterium imitans 16S rRNA  | 1472 | 92.4 | 92.4 | 422 | 2.9e-64 |
| 30 | <a href="#">EM_PRO:Y15886</a>   | Corynebacterium confusum 16S rRN  | 1404 | 92.4 | 92.4 | 422 | 2.9e-64 |
| 31 | <a href="#">EM_PRO:X84253</a>   | Corynebacterium genitalium 16S r  | 1392 | 92.4 | 92.4 | 422 | 3e-64   |
| 32 | <a href="#">EM_PRO:Y10076</a>   | Corynebacterium phocae 16S rRNA   | 1387 | 92.4 | 92.4 | 422 | 3e-64   |
| 48 | <a href="#">EM_PRO:AF537600</a> | Corynebacterium mucifaciens       | 1469 | 92.1 | 92.4 | 420 | 9.5e-64 |
| 49 | <a href="#">EM_PRO:AY581882</a> | Corynebacterium sp. 59614 16      | 1489 | 92.4 | 92.4 | 422 | 1e-63   |
| 33 | <a href="#">EM_PRO:X84252</a>   | Corynebacterium cystitidis 16S r  | 1491 | 92.2 | 92.2 | 425 | 3.4e-64 |
| 40 | <a href="#">EM_PRO:X89778</a>   | Corynebacterium sp. DNA for 16 r  | 1494 | 92.2 | 92.2 | 422 | 4.9e-64 |
| 41 | <a href="#">EM_PRO:EU373373</a> | Corynebacterium confusum str      | 1524 | 92.2 | 92.2 | 422 | 6.4e-64 |
| 43 | <a href="#">EM_PRO:AF537607</a> | Corynebacterium thomssenii i      | 1461 | 92.2 | 92.2 | 422 | 6.6e-64 |
| 44 | <a href="#">EM_PRO:AY834747</a> | Corynebacterium mastitidis 1      | 1451 | 92.2 | 92.2 | 422 | 6.6e-64 |
| 45 | <a href="#">EM_PRO:X82058</a>   | C.cystitidis 16S ribosomal DNA    | 1322 | 92.2 | 92.2 | 424 | 7.6e-64 |
| 50 | <a href="#">EM_PRO:X81904</a>   | Corynebacterium sp. 16S rRNA gen  | 1404 | 92.2 | 92.2 | 421 | 1.1e-63 |

