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## FASTA Results

### SUBMISSION PARAMETERS

|                         |           |                      |                    |
|-------------------------|-----------|----------------------|--------------------|
| Title                   | 58194-16s | Database             | em_rel_pro         |
| Sequence length         | 939       | 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:X86636</a>   | Staphylococcus sp. 16S rRNA gene | 1466          | 100.0            | 100.0           | 939            | 0          |
| 2                | <a href="#">EM_PRO:AY030318</a> | Staphylococcus hominis strai     | 1475          | 100.0            | 100.0           | 939            | 0          |
| 3                | <a href="#">EM_PRO:AM084016</a> | Staphylococcus sp. R-25050 1     | 1532          | 100.0            | 100.0           | 939            | 0          |
| 4                | <a href="#">EM_PRO:AB177642</a> | Staphylococcus sp. H292 gene     | 1542          | 100.0            | 100.0           | 939            | 0          |
| 18               | <a href="#">EM_PRO:EU520332</a> | Bacterium SE1 16S ribosomal      | 1448          | 100.0            | 100.0           | 929            | 4.3e-215   |
| 5                | <a href="#">EM_PRO:AJ717375</a> | Staphylococcus hominis 16S r     | 1529          | 99.9             | 99.9            | 939            | 4.4e-217   |
| 6                | <a href="#">EM_PRO:AJ316320</a> | Staphylococcus sp. LMG 21006     | 1504          | 99.9             | 99.9            | 939            | 4.5e-217   |
| 7                | <a href="#">EM_PRO:EU373358</a> | Staphylococcus sp. HNL18 16S     | 1518          | 99.8             | 99.9            | 939            | 6.2e-217   |
| 8                | <a href="#">EM_PRO:EU373380</a> | Staphylococcus sp. TPL10 16S     | 1518          | 99.8             | 99.9            | 939            | 6.2e-217   |
| 9                | <a href="#">EM_PRO:EU373372</a> | Staphylococcus sp. HNR14 16S     | 1518          | 99.8             | 99.9            | 939            | 6.2e-217   |
| 16               | <a href="#">EM_PRO:AY486383</a> | Staphylococcus sp. AU3605 16     | 1458          | 99.9             | 99.9            | 935            | 2e-215     |
| 23               | <a href="#">EM_PRO:EU730935</a> | Staphylococcus hominis strai     | 1450          | 99.9             | 99.9            | 931            | 1.8e-214   |
| 10               | <a href="#">EM_PRO:AM157418</a> | Staphylococcus hominis 16S r     | 1575          | 99.8             | 99.8            | 939            | 1.2e-216   |
| 11               | <a href="#">EM_PRO:X66101</a>   | S.hominis gene for 16S ribosomal | 1544          | 99.8             | 99.8            | 939            | 1.2e-216   |
| 12               | <a href="#">EM_PRO:AJ786779</a> | Staphylococcus sp. R-20811 p     | 1504          | 99.8             | 99.8            | 939            | 1.2e-216   |
| 13               | <a href="#">EM_PRO:L37601</a>   | Staphylococcus hominis 16S ribos | 1468          | 99.8             | 99.8            | 939            | 1.2e-216   |
| 14               | <a href="#">EM_PRO:EU855756</a> | Staphylococcus sp. Tp10 16S      | 1426          | 99.8             | 99.8            | 939            | 1.2e-216   |
| 25               | <a href="#">EM_PRO:AB233326</a> | Staphylococcus hominis subsp     | 1454          | 99.8             | 99.8            | 932            | 2.8e-214   |
| 15               | <a href="#">EM_PRO:AJ536435</a> | Staphylococcus sp. 9:4 parti     | 1538          | 99.7             | 99.7            | 939            | 3.2e-216   |
| 33               | <a href="#">EM_PRO:AJ830708</a> | Staphylococcus sp. KCM-R4 pa     | 1467          | 99.4             | 99.4            | 937            | 2.1e-212   |
| 17               | <a href="#">EM_PRO:AP006716</a> | Staphylococcus haemolyticus      | 2685015       | 99.3             | 99.3            | 939            | 2.6e-215   |
| 22               | <a href="#">EM_PRO:D83367</a>   | Staphylococcus haemolyticus gene | 1475          | 99.3             | 99.3            | 939            | 1.8e-214   |
| 24               | <a href="#">EM_PRO:AY748913</a> | Staphylococcus sp. NIPHL0909     | 1370          | 99.3             | 99.3            | 939            | 1.8e-214   |
| 37               | <a href="#">EM_PRO:EF188282</a> | Staphylococcus sp. GYZ 16S r     | 1454          | 99.2             | 99.2            | 930            | 2.6e-212   |
| 19               | <a href="#">EM_PRO:AP006716</a> | Staphylococcus haemolyticus      | 2685015       | 99.1             | 99.1            | 939            | 7.1e-215   |

|    |                                 |                                  |         |      |      |     |          |
|----|---------------------------------|----------------------------------|---------|------|------|-----|----------|
| 20 | <a href="#">EM_PRO:AP006716</a> | Staphylococcus haemolyticus      | 2685015 | 99.1 | 99.1 | 939 | 7.1e-215 |
| 21 | <a href="#">EM_PRO:AP006716</a> | Staphylococcus haemolyticus      | 2685015 | 99.1 | 99.1 | 939 | 7.2e-215 |
| 26 | <a href="#">EM_PRO:EF522132</a> | Staphylococcus haemolyticus      | 1488    | 99.1 | 99.1 | 939 | 4.8e-214 |
| 27 | <a href="#">EM_PRO:L37600</a>   | Staphylococcus haemolyticus 16S  | 1468    | 99.1 | 99.1 | 939 | 4.8e-214 |
| 30 | <a href="#">EM_PRO:EU302606</a> | Staphylococcus haemolyticus      | 1510    | 99.1 | 99.1 | 939 | 2.3e-213 |
| 28 | <a href="#">EM_PRO:X66100</a>   | S.haemolyticus gene for 16S ribo | 1544    | 99.0 | 99.0 | 939 | 1.3e-213 |
| 29 | <a href="#">EM_PRO:EU652062</a> | Pseudomonas sp. me-11 16S ri     | 1526    | 99.0 | 99.0 | 939 | 1.3e-213 |
| 34 | <a href="#">EM_PRO:AY928248</a> | Bacterium 7RO1 16S ribosomal     | 1329    | 99.0 | 99.0 | 934 | 2.2e-212 |
| 31 | <a href="#">EM_PRO:X86650</a>   | Staphylococcus sp. 16S rRNA gene | 1466    | 98.9 | 98.9 | 939 | 4.4e-213 |
| 32 | <a href="#">EM_PRO:AY953148</a> | Staphylococcus croceolyticus     | 1546    | 98.8 | 98.9 | 939 | 4.9e-213 |
| 35 | <a href="#">EM_PRO:AB009941</a> | Staphylococcus lugdunensis g     | 1492    | 98.7 | 98.7 | 939 | 2.6e-212 |
| 36 | <a href="#">EM_PAT:BD170168</a> | Diagnostic and examination m     | 1490    | 98.7 | 98.7 | 939 | 2.6e-212 |
| 39 | <a href="#">EM_PRO:EU855750</a> | Staphylococcus sp. Tp3 16S r     | 1426    | 98.6 | 98.6 | 939 | 7.2e-212 |
| 38 | <a href="#">EM_PRO:AP008934</a> | Staphylococcus saprophyticus     | 2516575 | 98.5 | 98.5 | 939 | 2.8e-212 |
| 43 | <a href="#">EM_PRO:EF612332</a> | Staphylococcus sp. K6-17B 16     | 1493    | 98.5 | 98.5 | 939 | 1.9e-211 |
| 40 | <a href="#">EM_PRO:CP000029</a> | Staphylococcus epidermidis R     | 2616530 | 98.4 | 98.4 | 939 | 7.6e-212 |
| 41 | <a href="#">EM_PRO:AP008934</a> | Staphylococcus saprophyticus     | 2516575 | 98.4 | 98.4 | 939 | 7.6e-212 |
| 42 | <a href="#">EM_PRO:AE015929</a> | Staphylococcus epidermidis A     | 2499279 | 98.4 | 98.4 | 939 | 7.6e-212 |
| 44 | <a href="#">EM_PRO:AP008934</a> | Staphylococcus saprophyticus     | 2516575 | 98.3 | 98.3 | 939 | 2.1e-211 |
| 45 | <a href="#">EM_PRO:AE015929</a> | Staphylococcus epidermidis A     | 2499279 | 98.3 | 98.3 | 939 | 2.1e-211 |
| 46 | <a href="#">EM_PRO:AP008934</a> | Staphylococcus saprophyticus     | 2516575 | 98.3 | 98.3 | 939 | 2.1e-211 |
| 47 | <a href="#">EM_PRO:CP000029</a> | Staphylococcus epidermidis R     | 2616530 | 98.3 | 98.3 | 939 | 2.1e-211 |
| 48 | <a href="#">EM_PRO:AE015929</a> | Staphylococcus epidermidis A     | 2499279 | 98.3 | 98.3 | 939 | 2.1e-211 |
| 49 | <a href="#">EM_PRO:CP000029</a> | Staphylococcus epidermidis R     | 2616530 | 98.3 | 98.3 | 939 | 2.1e-211 |
| 50 | <a href="#">EM_PRO:CP000029</a> | Staphylococcus epidermidis R     | 2616530 | 98.3 | 98.3 | 939 | 2.1e-211 |