BLAST Basic Local Alignment Search Tool
Job Title: Borrprobe

- Your search parameters were adjusted to search for a short input sequence.

BLASTN 2.2.17 (Aug-26-2007)


Query= Borrprobe Length=24

Distribution of 100 Blast Hits on the Query Sequence
### Distance tree of results

Legend for links to other resources: U UniGene E GEO G Gene S Structure M M

#### Sequences producing significant alignments:
(Click headers to sort columns)

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<td>16S ribosomal RNA (rrs) gene, partial sequence</td>
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<td>Borrelia burgdorferi strain 251094</td>
<td>16S ribosomal RNA (rrs) gene, partial sequence</td>
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<td>16S ribosomal RNA (rrs) gene, partial sequence</td>
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>gb|EU240883.1| Borrelia theileri 16S ribosomal RNA gene, partial sequence
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Sbjct 106  AGTGTCGCTCCGTCAGGCTTTCGC  83

>db|AB330849.1| Uncultured bacterium gene for 16S ribosomal RNA, partial sequence
Clone: TP4 L
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Identities = 24/24 (100%), Gaps = 0/24 (0%)
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>gb|EU025061.1| Borrelia burgdorferi isolate SCW-57 16S ribosomal RNA (rrs) gene, partial sequence
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>gb|EU025058.1| Borrelia burgdorferi isolate SCW-48 16S ribosomal RNA (rrs) gene, partial sequence
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>gb|EU025057.1| Borrelia burgdorferi isolate SCW-47 16S ribosomal RNA (rrs) gene, partial sequence
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Sbjct 306  AGTGTCGCTCCGTCAGGCTTTCGC  283

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>gb|EU025053.1| Borrelia burgdorferi isolate SCW-9 16S ribosomal RNA (rrs) gene, partial sequence
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>gb|EU025052.1| Borrelia burgdorferi isolate SCW-6 16S ribosomal RNA (rrs) gene, partial sequence
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>gb|EU025051.1| Borrelia burgdorferi isolate SCW-4 16S ribosomal RNA (rrs) gene, partial sequence
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>gb|EU025049.1| Borrelia burgdorferi isolate SI-18 16S ribosomal RNA (rrs) gene, partial sequence
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>gb|EU025048.1| Borrelia burgdorferi isolate SI-17 16S ribosomal RNA (rrs) gene, partial sequence
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>gb|EU025047.1| Borrelia burgdorferi isolate SI-16 16S ribosomal RNA (rrs) gene, partial sequence
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>gb|EU025043.1| Borrelia burgdorferi isolate SCSC-5 16S ribosomal RNA (rrs) gene, partial sequence
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Sbjct 306 AGTGTCGCTCGTCAGGCTTTCGC 283

>gb|EU025042.1| Borrelia burgdorferi isolate SCSC-3 16S ribosomal RNA (rrs) gene, partial sequence
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Sbjct 306 AGTGTCGCTCGTCAGGCTTTCGC 283

>gb|EU025041.1| Borrelia burgdorferi isolate SCSC-2 16S ribosomal RNA (rrs) gene, partial sequence
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Sbjct 306 AGTGTCGCTCGTCAGGCTTTCGC 283

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Sbjct 306 AGTGTCGCTCGTCAGGCTTTCGC 283

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Sbjct 306 AGTGTCGCTCGTCAGGCTTTCGC 283

>gb|EU025037.1| Borrelia burgdorferi isolate SCGT-7 16S ribosomal RNA (rrs) gene, partial sequence
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Sbjct  306  AGTGTCGCTCCGTCAGGCTTTCGC  283

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>gb|EU025034.1| Borrelia burgdorferi isolate SCCH-28 16S ribosomal RNA (rrs) gene, partial sequence
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Sbjct  306  AGTGTCGCTCCGTCAGGCTTTCGC  283

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Sbjct  306  AGTGTCGCTCCGTCAGGCTTTCGC  283

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Sbjct  306  AGTGTCGCTCCGTCAGGCTTTCGC  283

>gb|EU025031.1| Borrelia burgdorferi isolate SCCH-31 16S ribosomal RNA (rrs) gene, partial sequence
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Sbjct 306  AGTGTCGCTCGTCAGGCTTTCGC  283

>gb|EU025029.1| Borrelia burgdorferi isolate BUL-3 16S ribosomal RNA (rrs) gene, partial sequence
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Sbjct 306  AGTGTCGCTCGTCAGGCTTTCGC  283

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Identities = 24/24 (100%), Gaps = 0/24 (0%)
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Sbjct 306  AGTGTCGCTCGTCAGGCTTTCGC  283

>gb|EU014808.1| Borrelia burgdorferi isolate SCW-53 16S ribosomal RNA (rrs) gene, partial sequence
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Identities = 24/24 (100%), Gaps = 0/24 (0%)
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Sbjct 306  AGTGTCGCTCGTCAGGCTTTCGC  283

>gb|EU014807.1| Borrelia burgdorferi isolate SCW-25 16S ribosomal RNA (rrs) gene, partial sequence
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Sbjct 306  AGTGTCGCTCGTCAGGCTTTCGC  283

>gb|EU014806.1| Borrelia burgdorferi isolate SI-15 16S ribosomal RNA (rrs) gene, partial sequence
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Strand=Plus/Minus
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Sbjct 306  AGTGTCGCTCGTCAGGCTTTCGC  283

>gb|EU014805.1| Borrelia burgdorferi isolate SCI-1 16S ribosomal RNA (rrs) gene, partial sequence
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>gb|EU014804.1| Borrelia burgdorferi isolate SCCH-19 16S ribosomal RNA (rrs) gene, partial sequence
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Sbjct 306  AGTGTCGCTCGTCAGGCTTTCGC  283

>gb|EU014802.1| Borrelia burgdorferi isolate SCCH-9 16S ribosomal RNA (rrs) gene, partial sequence
Length=1362
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Identities = 24/24 (100%), Gaps = 0/24 (0%)
Strand=Plus/Minus
Query 1    AGTGTCGCTCGTCAGGCTTTCGC  24
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>gb|EU014801.1| Borrelia burgdorferi isolate SCCH-3 16S ribosomal RNA (rrs) gene, partial sequence
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Query 1    AGTGTCGCTCGTCAGGCTTTCGC  24
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Sbjct 306  AGTGTCGCTCGTCAGGCTTTCGC  283

>gb|EU014800.1| Borrelia burgdorferi isolate BUL-10 16S ribosomal RNA (rrs) gene, partial sequence
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Sbjct 306  AGTGTCGCTCGTCAGGCTTTCGC  283
>gb|EU014799.1| Borrelia burgdorferi isolate BUL-6 16S ribosomal RNA (rrs) gene, partial sequence
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Score = 48.1 bits (24), Expect = 4e-04
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|--------------------------------------------------|
Sbjct  306  AGTGTCGCTCCGTCAGGCTTTCGC  283

>gb|EU014798.1| Borrelia burgdorferi isolate BUL-5 16S ribosomal RNA (rrs) gene, partial sequence
Length=1362
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Sbjct  306  AGTGTCGCTCCGTCAGGCTTTCGC  283

>gb|EU014797.1| Borrelia burgdorferi isolate BUL-4 16S ribosomal RNA (rrs) gene, partial sequence
Length=1362
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Sbjct  306  AGTGTCGCTCCGTCAGGCTTTCGC  283

>gb|EU014796.1| Borrelia burgdorferi isolate BUL-1 16S ribosomal RNA (rrs) gene, partial sequence
Length=1362
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Sbjct  306  AGTGTCGCTCCGTCAGGCTTTCGC  283

>gb|EF641295.1| Borrelia hermsii strain LPO 16S ribosomal RNA gene, partial sequence
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Sbjct  331  AGTGTCGCTCCGTCAGGCTTTCGC  308

>gb|EF541175.1| Borrelia afzelii strain Nov1105 16S ribosomal RNA gene, partial sequence
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Score = 48.1 bits (24), Expect = 4e-04
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Sbjct  331  AGTGTCGCTCCGTCAGGCTTTCGC  308

>gb|EF541174.1| Borrelia afzelii strain Nov11506 16S ribosomal RNA gene, partial sequence
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Strand=Plus/Minus
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Sbjct  331  AGTGTCGCTCCGTCAGGCTTTCGC  308
Query 1    AGTGTCGCTCCGTCAGGCTTTCGC  24
Sbjct 331  AGTGTCGCTCCGTCAGGCTTTCGC  308

>gb|DQ872186.1| Borrelia theileri 16S ribosomal RNA (rrs) gene, partial sequence
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Sbjct 289  AGTGTCGCTCCGTCAGGCTTTCGC  266

>gb|DQ855530.1| Borrelia hermsii isolate MAT 16S ribosomal RNA gene, complete sequence
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>gb|DQ855529.1| Borrelia hermsii isolate LAK-5 16S ribosomal RNA gene, complete sequence
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>gb|DQ855528.1| Borrelia hermsii isolate LAK-4 16S ribosomal RNA gene, complete sequence
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Sbjct 300  AGTGTCGCTCCGTCAGGCTTTCGC  277

>gb|DQ855527.1| Borrelia hermsii isolate LAK-3 16S ribosomal RNA gene, complete sequence
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>gb|AY934610.1| Borrelia turicatae isolate TCB-2 16S ribosomal RNA gene, partial sequence
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>gb|AY934609.1| Borrelia turicatae isolate TCB-1 16S ribosomal RNA gene, partial sequence
>gb|AY934608.1| Borrelia turicatae isolate PE1-926 16S ribosomal RNA gene, partial sequence

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>gb|AY934607.1| Borrelia turicatae isolate 99PE-1807 16S ribosomal RNA gene, partial sequence

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Strand=Plus/Minus

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>gb|AY934606.1| Borrelia turicatae isolate 95PE-570 16S ribosomal RNA gene, partial sequence

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>gb|AY934605.1| Borrelia turicatae isolate RML 16S ribosomal RNA gene, partial sequence

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>gb|AY934598.1| Borrelia parkeri isolate CA221 16S ribosomal RNA gene, partial sequence

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>gb|AY934597.1| Borrelia parkeri isolate CA220 16S ribosomal RNA gene, partial sequence

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Identities = 24/24 (100%), Gaps = 0/24 (0%)
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Sbjct  300  AGTGTCGCTCGTCAGGCTTTCGC  277

Sbjct  319  AGTGTCGCTCGTCAGGCTTTCGC  296
>gb|AY253149.1| Borrelia sp. MK-N61 16S ribosomal RNA gene, partial sequence
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Identities = 24/24 (100%), Gaps = 0/24 (0%)
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Sbjct  369  AGTGTCGCTCGTCAGGCTTTCGC  346
>gb|DQ393306.1| Borrelia valaisiana strain M7 16S ribosomal RNA (rrs) gene, partial sequence
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Identities = 24/24 (100%), Gaps = 0/24 (0%)
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Length=522
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Identities = 24/24 (100%), Gaps = 0/24 (0%)
Strand=Plus/Minus
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Sbjct  369  AGTGTCGCTCGTCAGGCTTTCGC  346
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>gb|DQ393303.1| Borrelia californiensis strain CA404 16S ribosomal RNA (rrs) gene, partial sequence
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Query  1    AGTGTCGCTCCGTCAGGCTTTCGC  24
Sbjct  369  AGTGTCGCTCCGTCAGGCTTTCGC  346

>gb|DQ393302.1| Borrelia andersonii strain 19952 16S ribosomal RNA (rrs) gene, partial sequence
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>gb|DQ393301.1| Borrelia andersonii strain 21133 16S ribosomal RNA (rrs) gene, partial sequence
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>gb|DQ393300.1| Borrelia andersonii strain 21123 16S ribosomal RNA (rrs) gene, partial sequence
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>gb|DQ393299.1| Borrelia burgdorferi strain 5LM218 16S ribosomal RNA (rrs) gene, partial sequence
Length=522
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Identities = 24/24 (100%), Gaps = 0/24 (0%)
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Query  1    AGTGTCGCTCCGTCAGGCTTTCGC  24
Sbjct  369  AGTGTCGCTCCGTCAGGCTTTCGC  346

>gb|DQ393298.1| Borrelia burgdorferi strain Z51094 16S ribosomal RNA (rrs) gene, partial sequence
Length=522
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Query  1    AGTGTCGCTCCGTCAGGCTTTCGC  24
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Borrelia burgdorferi strain Sh-2-82 16S ribosomal RNA (rrs) gene, partial sequence

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Query 1: AGTGTCGCTCCGTCAGGCTTTCGC
Sbjct 369: AGTGTCGCTCCGTCAGGCTTTCGC

Borrelia burgdorferi isolate St4 16S ribosomal RNA gene, partial sequence

Length: 548

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Query 1: AGTGTCGCTCCGTCAGGCTTTCGC
Sbjct 377: AGTGTCGCTCCGTCAGGCTTTCGC

Borrelia burgdorferi isolate Na34 16S ribosomal RNA gene, partial sequence

Length: 554

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Sbjct 383: AGTGTCGCTCCGTCAGGCTTTCGC

Borrelia burgdorferi isolate To89 16S ribosomal RNA gene, partial sequence

Length: 500

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Sbjct 329: AGTGTCGCTCCGTCAGGCTTTCGC

Borrelia burgdorferi isolate To16 16S ribosomal RNA gene, partial sequence

Length: 557

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Query 1: AGTGTCGCTCCGTCAGGCTTTCGC
Sbjct 386: AGTGTCGCTCCGTCAGGCTTTCGC

Borrelia burgdorferi isolate To106 16S ribosomal RNA gene, partial sequence

Length: 557

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Sbjct 385: AGTGTCGCTCCGTCAGGCTTTCGC

Borrelia burgdorferi isolate Sa5 16S ribosomal RNA gene, partial sequence

Length: 558

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>gb|AY083495.1| Borrelia burgdorferi isolate Osk3 16S ribosomal RNA gene, partial sequence
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>gb|AY083494.1| Borrelia burgdorferi isolate Osk2 16S ribosomal RNA gene, partial sequence
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Sbjct 385 AGTGTCGCTCCTGCTAGGGCTTTCGC  362

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>gb|DQ346813.1| Borrelia recurrentis isolate A2 16S ribosomal RNA gene, complete sequence
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>gb|DQ057989.1| Borrelia crocidurae 16S ribosomal RNA gene, partial sequence
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>gb|DQ057988.1| Borrelia hispanica 16S ribosomal RNA gene, partial sequence
NCBI Blast: Borrprobe

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Sbjct  380  AGTGTCGCTCCGTCAGGCTTTCGC  357

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Sbjct  324  AGTGTCGCTCCGTCAGGCTTTCGC  301

Database: All GenBank+EMBL+DDBJ+PDB sequences (but no EST, STS, GSS, environmental samples or phase 0, 1 or 2 HTGS sequences)
Posted date: Dec 19, 2007 5:48 PM
Number of letters in database: 935,294,007
Number of sequences in database: 6,196,379

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Length adjustment: 19
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Effective search space: 111461996430
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X2: 15 (29.7 bits)
X3: 25 (49.6 bits)
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S2: 14 (28.2 bits)