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# FASTA Results

## SUBMISSION PARAMETERS

Title	58137	Database	em_rel_pro
Sequence length	426	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:EU370956</a>	Spirosoma panaciterrae strai	1442	87.2	87.2	422	7.6e-56
15	<a href="#">EM_PRO:AY279980</a>	Spirosoma escalantus strain	1234	86.6	86.6	366	1.3e-46
16	<a href="#">EM_PRO:AY279981</a>	Spirosoma escalantus strain	1234	86.6	86.6	366	1.3e-46
17	<a href="#">EM_PRO:AY279979</a>	Spirosoma escalantus strain	1234	86.6	86.6	366	1.3e-46
2	<a href="#">EM_PRO:AM000023</a>	Spirosoma linguale 16S rRNA	1460	86.5	86.5	431	1.5e-54
3	<a href="#">EM_PRO:AM988957</a>	Spirosoma sp. AKB-2008-JO115	862	86.5	86.5	431	2e-54
12	<a href="#">EM_PRO:AY279982</a>	Spirosoma linguale 16S ribos	1234	86.5	86.5	370	5e-47
4	<a href="#">EM_PRO:X89911</a>	Spirosoma-like sp. PC5.1A 16S rR	1458	86.3	86.3	423	2.6e-54
5	<a href="#">EM_PRO:EF507900</a>	Spirosoma aquatica strain WP	1407	86.1	86.1	423	2.8e-54
6	<a href="#">EM_PRO:AY234558</a>	Bacterium Ellin5207 16S ribo	425	86.1	86.1	424	3.4e-54
9	<a href="#">EM_PRO:AF174431</a>	Spirosoma sp. HDK211 16S rib	714	86.1	86.1	409	4.5e-52
10	<a href="#">EM_PRO:EF451725</a>	Spirosoma spitsbergense stra	1296	86.0	86.0	400	1e-49
8	<a href="#">EM_PRO:EF507901</a>	Spirosoma aquatica strain WP	1401	85.9	85.9	417	4.3e-53
26	<a href="#">EM_PRO:X89919</a>	Spirosoma-like sp. BF7 partial 1	845	85.9	85.9	361	8e-45
7	<a href="#">EM_PRO:AB461073</a>	Spirosoma sp. IK2_06 gene fo	1100	85.7	85.7	428	2.2e-53
18	<a href="#">EM_PRO:FJ267587</a>	Spirosoma sp. Il_Gauze_A_2_1	1350	85.6	85.6	374	2e-46
35	<a href="#">EM_PRO:AY279976</a>	Spirosoma navajo strain HDK6	1234	85.2	85.2	371	8.1e-44
36	<a href="#">EM_PRO:AY279978</a>	Spirosoma navajo strain HDK6	1234	85.2	85.2	371	8.1e-44
40	<a href="#">EM_PRO:AY279977</a>	Spirosoma navajo strain HDK6	1234	84.9	84.9	371	1.8e-43
11	<a href="#">EM_PRO:EU725657</a>	Bacterium 7Q 16S ribosomal R	856	84.6	84.6	409	1.9e-49
20	<a href="#">EM_PRO:AF174432</a>	Spirosoma sp. HDK201 16S rib	712	84.1	84.1	402	1.7e-45
13	<a href="#">EM_PRO:EF451726</a>	Spirosoma luteum strain SPM-	1396	83.9	83.9	422	1.1e-46
14	<a href="#">EM_PRO:EF187349</a>	Bacteroidetes bacterium M5H2	1384	83.5	83.5	412	1.2e-46
25	<a href="#">EM_PRO:M62789</a>	S.linguale 16S ribosomal RNA.	1463	81.9	81.9	436	6.5e-45
19	<a href="#">EM_PRO:AM295987</a>	Flexibacteraceae bacterium J	477	80.9	80.9	423	1e-45

41	<a href="#">EM_PRO:AB190064</a>	Sphingobacteriaceae bacteriu	428	80.4	80.4	409	2.7e-43
31	<a href="#">EM_PRO:AM295986</a>	Flexibacteraceae bacterium J	479	80.3	80.3	426	3.8e-44
44	<a href="#">EM_PRO:EF635010</a>	Rudanella lutea strain 5715S	1387	80.3	80.3	406	4.2e-43
22	<a href="#">EM_PRO:AY854022</a>	Leadbetterella byssophila st	1457	80.2	80.2	425	2.6e-45
32	<a href="#">EM_PRO:DQ063082</a>	Bacteroidetes bacterium BAL1	443	80.0	80.2	419	4.3e-44
23	<a href="#">EM_PRO:FJ517608</a>	Dyadobacter sp. DL1 16S ribo	1500	80.1	80.1	423	6.4e-45
24	<a href="#">EM_PRO:FJ447543</a>	Dyadobacter sp. DR5 16S ribo	1500	80.1	80.1	423	6.4e-45
37	<a href="#">EM_PRO:EF017660</a>	Dyadobacter koreensis strain	1412	80.1	80.1	423	8.3e-44
27	<a href="#">EM_PRO:AJ619978</a>	Dyadobacter hamtensis partia	1446	79.9	79.9	423	1.5e-44
29	<a href="#">EM_PRO:AM295985</a>	Flexibacteraceae bacterium J	477	79.9	79.9	423	2.7e-44
30	<a href="#">EM_PRO:AM295984</a>	Flexibacteraceae bacterium J	477	79.9	79.9	423	2.7e-44
21	<a href="#">EM_PRO:DQ372985</a>	Runella limosa strain EMB111	1428	79.8	79.8	426	2.4e-45
42	<a href="#">EM_PRO:AB078054</a>	Flexibacter flexilis subsp.	1461	79.8	79.8	410	2.9e-43
48	<a href="#">EM_PRO:DQ177475</a>	Hymenobacter psychrotolerans	1484	79.6	79.6	416	1.2e-42
28	<a href="#">EM_PRO:AM000022</a>	Larkinella insperata 16S rRN	1466	79.5	79.5	430	2.5e-44
34	<a href="#">EM_PRO:Y17356</a>	Hymenobacter actinosclerus 16S r	1445	79.4	79.4	432	6.2e-44
33	<a href="#">EM_PRO:FN391025</a>	Larkinella sp. Z0532 partial	1437	79.3	79.3	430	5.7e-44
38	<a href="#">EM_PRO:EF093135</a>	Dyadobacter sp. VTT E-052912	1493	79.2	79.2	423	1.7e-43
39	<a href="#">EM_PRO:AB245369</a>	Dyadobacter ginsengisoli gen	1451	79.2	79.2	423	1.7e-43
43	<a href="#">EM_PRO:EU373325</a>	Dyadobacter sp. SSL13 16S ri	1478	79.2	79.2	424	3.8e-43
47	<a href="#">EM_PRO:AY358004</a>	Bacterium iR1115 16S riboso	470	79.2	79.2	423	8.3e-43
46	<a href="#">EM_PRO:EU155010</a>	Flexibacteraceae bacterium V	1439	78.7	78.7	428	7.2e-43
49	<a href="#">EM_PRO:AB272165</a>	Persicitalea jodogahamensis	1464	78.7	78.7	431	1.5e-42
45	<a href="#">EM_PRO:EU155011</a>	Flexibacteraceae bacterium V	1438	78.5	78.5	432	6e-43
50	<a href="#">EM_PRO:AY822525</a>	Bacterium RSB-3-5 16S riboso	839	78.5	78.5	424	1.6e-42