BLAST®

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NCBI/ BLAST/ blastn suite/ Formatting Results - ZE156ZPY015
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Blast report description

Nucleotide Sequence (1253 letters)

RID <u>ZE156ZPY015</u> (Expires on 09-16 01:32 am)

Molecule type nucleic acid Query Length 1253

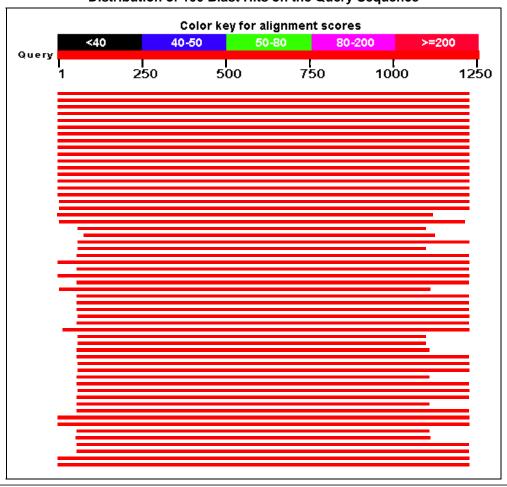
Database Name rRNA_typestrains/prokaryotic_16S_riboso

Description 16S ribosomal RNA (Bacteria and

Archaea) **Program** BLASTN 2.2.32+

Graphic Summary

Distribution of 100 Blast Hits on the Query Sequence



Descriptions

Sequences producing significant alignments:

Description	Max score	Total score	Query cover	E value	Ident	Accession
Dyadobacter koreensis strain NBRC 101116 16S ribosomal RNA gene, partial sequence	1873	1873	97%	0.0	95%	NR_113977.1
Dyadobacter koreensis strain KCTC 12537 16S ribosomal RNA gene, partial sequence	1873	1873	97%	0.0	95%	NR 044041.1
Dyadobacter psychrophilus strain BZ26 16S ribosomal RNA gene, partial sequence	1868	1868	97%	0.0	95%	NR_117212.1
Dyadobacter ginsengisoli strain Gsoil 043 16S ribosomal RNA gene, partial sequence	1838	1838	97%	0.0	94%	NR_041372.1
Dyadobacter hamtensis strain HHS 11 16S ribosomal RNA gene, partial sequence	1838	1838	97%	0.0	94%	NR_042226.1
Dyadobacter jejuensis strain AM1R11 16S ribosomal RNA gene, partial sequence	1825	1825	97%	0.0	94%	NR 109488.1
Dyadobacter fermentans strain NS114 16S ribosomal RNA gene, partial sequence	1794	1794	97%	0.0	94%	NR_027533.1
Dyadobacter alkalitolerans strain 12116 16S ribosomal RNA gene, partial sequence	1790	1790	97%	0.0	93%	NR_044476.1
Dyadobacter soli strain MJ20 16S ribosomal RNA gene, partial sequence	1788	1788	97%	0.0	93%	NR 117263.1
Dyadobacter tibetensis strain Y620-1 16S ribosomal RNA gene, partial sequence	1777	1777	97%	0.0	93%	NR 109648.1
Dyadobacter fermentans strain NS114 16S ribosomal RNA gene, complete sequence	1777	1777	97%	0.0	93%	NR_074368.1
Dyadobacter arcticus strain R-S7-29 16S ribosomal RNA gene, partial sequence	1757	1757	97%	0.0	93%	NR_109479.1
Dyadobacter crusticola strain CP183-8 16S ribosomal RNA gene, partial sequence	1744	1744	97%	0.0	93%	NR 042335.1
Dyadobacter beijingensis strain A54 16S ribosomal RNA gene, partial sequence	1705	1705	97%	0.0	92%	NR_043725.1
Persicitalea jodogahamensis strain NBRC 103568 16S ribosomal RNA gene, partial sequence	1225	1225	97%	0.0	85%	NR_114246.1
Persicitalea jodogahamensis strain Shu-9-SY12-35C 16S ribosomal RNA gene, partial sequence	1225	1225	97%	0.0	85%	NR_041525.1
Runella slithyformis strain DSM 19594 16S ribosomal RNA gene, complete sequence	1155	1155	97%	0.0	84%	NR 074339.1
Runella slithyformis strain ATCC 29530 16S ribosomal RNA gene,	1129	1129	97%	0.0	84%	NR 044735.2

Description	Max score	Total score	Query cover	E value	Ident	Accession
complete sequence	1			'		1
Imperialibacter roseus strain P4 16S ribosomal RNA, partial sequence	1125	1125	89%	0.0	85%	NR_132295.1
Runella defluvii strain EMB13 16S ribosomal RNA gene, partial sequence	1123	1123	96%	0.0	84%	NR_043766.1
Larkinella insperata strain LMG 22510 16S ribosomal RNA gene, complete sequence	1110	1110	82%	0.0	86%	NR_042402.1
Siphonobacter aquaeclarae strain P2 16S ribosomal RNA gene, partial sequence	1109	1109	83%	0.0	86%	NR_116562.1
Mongoliitalea lutea strain MIM18 16S ribosomal RNA gene, partial sequence	1105	1105	92%	0.0	84%	NR_122086.1
Larkinella arboricola strain Z0532 16S ribosomal RNA gene, partial sequence	1094	1094	82%	0.0	86%	NR_116968.1
Arcicella aurantiaca strain TNR-18 16S ribosomal RNA gene, partial sequence	1088	1088	92%	0.0	84%	NR_116735.1
Algoriphagus faecimaris strain LYX05 16S ribosomal RNA gene, partial sequence	1088	1088	97%	0.0	83%	NR_108679.1
Arcicella aquatica strain NO-502 16S ribosomal RNA gene, partial sequence	1088	1088	92%	0.0	84%	NR 029000.1
Algoriphagus hitonicola strain 7-UAH 16S ribosomal RNA gene, partial sequence	1085	1085	97%	0.0	83%	NR_044249.1
Runella limosa strain EMB111 16S ribosomal RNA gene, partial sequence	1085	1085	92%	0.0	84%	NR_043771.1
Runella zeae strain NS12 16S ribosomal RNA gene, partial sequence	1085	1085	87%	0.0	85%	NR_025004.1
Algoriphagus boritolerans strain T-22 16S ribosomal RNA gene, partial sequence	1083	1083	92%	0.0	84%	NR_041271.1
Algoriphagus boritolerans strain NBRC 101277 16S ribosomal RNA gene, partial sequence	1079	1079	92%	0.0	84%	NR_113997.1
Flectobacillus roseus strain GFA-11 16S ribosomal RNA gene, partial sequence	1079	1079	92%	0.0	84%	NR_116312.1
Arcicella rigui strain NSW-5 16S ribosomal RNA gene, partial sequence	1072	1072	92%	0.0	84%	NR_108997.1
Arcicella rosea strain TW5 16S ribosomal RNA gene, partial sequence	1072	1072	92%	0.0	84%	NR 042707.1
Flectobacillus lacus strain CL-GP79 16S ribosomal RNA gene, partial sequence	1064	1064	96%	0.0	83%	NR_043554.1
Larkinella bovis strain NBRC 106324 16S ribosomal RNA gene, partial sequence	1061	1061	82%	0.0	85%	NR_114299.1

Description	Max score	Total score	Query cover	E value	Ident	Accession
Larkinella bovis strain M2T2B15 16S ribosomal RNA gene, partial sequence	1061	1061	82%	0.0	85%	NR_117267.1
Algoriphagus lutimaris strain S1-3 16S ribosomal RNA gene, partial sequence	1061	1061	83%	0.0	85%	NR 104489.1
Algoriphagus alkaliphilus strain AC-74 16S ribosomal RNA gene, complete sequence	1059	1059	92%	0.0	84%	NR_042278.1
Marinoscillum furvescens strain NBRC 15994 16S ribosomal RNA gene, partial sequence	1051	1051	92%	0.0	83%	NR_113833.1
Marinoscillum furvescens strain NBRC 15994 16S ribosomal RNA gene, partial sequence	1051	1051	92%	0.0	83%	NR_040920.1
Algoriphagus halophilus strain JC2051 16S ribosomal RNA gene, partial sequence	1050	1050	83%	0.0	85%	NR 025744.1
Algoriphagus terrigena strain DS-44 16S ribosomal RNA gene, partial sequence	1046	1046	92%	0.0	83%	NR_043616.1
Pseudarcicella hirudinis strain E92 16S ribosomal RNA gene, partial sequence	1042	1042	92%	0.0	83%	NR_108865.1
Belliella pelovolcani strain CC-SAL-25 16S ribosomal RNA gene, partial sequence	1042	1042	92%	0.0	83%	NR 116416.1
Algoriphagus zhangzhouensis strain 12C11 16S ribosomal RNA gene, partial sequence	1038	1038	83%	0.0	85%	NR_109472.1
Algoriphagus taeanensis strain HMC4223 16S ribosomal RNA gene, partial sequence	1038	1038	92%	0.0	83%	NR_125540.1
Cytophaga hutchinsonii strain ATCC 33406 16S ribosomal RNA gene, complete sequence	1033	1033	97%	0.0	82%	NR_102866.1
Cytophaga hutchinsonii strain NBRC 15051 16S ribosomal RNA gene, partial sequence	1033	1033	97%	0.0	82%	NR 112977.1
Algoriphagus ornithinivorans strain JC2052 16S ribosomal RNA gene, partial sequence	1033	1033	83%	0.0	85%	NR 025745.1
Sporocytophaga myxococcoides strain DSM 11118 16S ribosomal RNA gene, partial sequence	1031	1031	83%	0.0	85%	NR_025463.1
Algoriphagus jejuensis strain CNU040 16S ribosomal RNA gene, partial sequence	1027	1027	92%	0.0	83%	NR_108184.1
Marinoscillum luteum strain SJP7 16S ribosomal RNA gene, partial sequence	1026	1026	92%	0.0	83%	NR_108992.1
Belliella baltica strain DSM 15883 16S ribosomal RNA gene, complete sequence	1024	1024	97%	0.0	82%	NR 102864.1
Nafulsella turpanensis strain ZLM-10 16S ribosomal RNA gene, partial sequence	1024	1024	97%	0.0	82%	NR_118330.1

Description	Max score	Total score	Query cover	E value	Ident	Accession
Algoriphagus aquaeductus strain T4 16S ribosomal RNA gene, partial sequence	1024	1024	83%	0.0	85%	NR_116214.1
Algoriphagus mannitolivorans strain JC2050 16S ribosomal RNA gene, partial sequence	1024	1024	83%	0.0	85%	NR 025743.1
Belliella baltica strain BA134 16S ribosomal RNA gene, partial sequence	1024	1024	97%	0.0	82%	NR_025599.1
Algoriphagus chungangensis strain CAU 1002 16S ribosomal RNA gene, partial sequence	1022	1022	83%	0.0	85%	NR_109527.1
Pedobacter terrae strain DS-57 16S ribosomal RNA gene, partial sequence	1020	1020	95%	0.0	83%	NR_044005.1
Algoriphagus shivajiensis strain NIO-S3 16S ribosomal RNA gene, partial sequence	1018	1018	83%	0.0	84%	NR 117207.1
Rhodocytophaga aerolata strain 5416T-29 16S ribosomal RNA gene, partial sequence	1018	1018	97%	0.0	82%	NR_116118.1
Roseivirga echinicomitans strain KMM 6058 16S ribosomal RNA gene, partial sequence	1018	1018	90%	0.0	83%	NR_043168.1
Algoriphagus machipongonensis strain PR1 16S ribosomal RNA gene, complete sequence	1016	1016	83%	0.0	85%	NR 121685.1
Algoriphagus boseongensis strain BS-R1 16S ribosomal RNA gene, partial sequence	1016	1016	83%	0.0	84%	NR_118640.1
Algoriphagus namhaensis strain DPG-3 16S ribosomal RNA gene, partial sequence	1014	1014	84%	0.0	84%	NR_109104.1
Algoriphagus marincola strain SW-2 16S ribosomal RNA gene, partial sequence	1014	1014	83%	0.0	84%	NR_025808.1
Flexibacter ruber strain NBRC 16677 16S ribosomal RNA gene, partial sequence	1013	1013	91%	0.0	83%	NR 113860.1
Algoriphagus aquatilis strain NBRC 104237 16S ribosomal RNA gene, partial sequence	1013	1013	83%	0.0	84%	NR 114262.1
Algoriphagus aquatilis strain A8-7 16S ribosomal RNA gene, partial sequence	1013	1013	83%	0.0	84%	NR_044462.1
Flexibacter ruber strain IFO 16677 16S ribosomal RNA gene, partial sequence	1013	1013	91%	0.0	83%	NR_040916.1
Spirosoma linguale strain DSM 74 16S ribosomal RNA gene, complete sequence	1011	1011	83%	0.0	84%	NR_074369.1
Cecembia lonarensis strain LW9 16S ribosomal RNA gene, partial sequence	1011	1011	92%	0.0	83%	NR 116971.1
Spirosoma spitsbergense strain SPM-9 16S ribosomal RNA gene, partial sequence	1011	1011	93%	0.0	83%	NR_044220.1

Description	Max score	Total score	Query cover	E value	Ident	Accession
Pedobacter koreensis strain WPCB189 16S ribosomal RNA gene, partial sequence	1009	1009	95%	0.0	82%	NR_043538.1
Pedobacter ginsengisoli strain Gsoil 104 16S ribosomal RNA gene, partial sequence	1009	1009	88%	0.0	83%	NR 041374.1
Flectobacillus major strain ATCC 29496 16S ribosomal RNA gene, complete sequence	1007	1007	91%	0.0	83%	NR_044736.2
Algoriphagus olei strain CC-Hsuan-617 16S ribosomal RNA gene, partial sequence	1007	1007	92%	0.0	83%	NR_116592.1
Spirosoma linguale strain DSM 74 16S ribosomal RNA gene, complete sequence	1007	1007	83%	0.0	84%	NR_042403.1
Rhodonellum psychrophilum strain GCM71 16S ribosomal RNA gene, partial sequence	1005	1005	97%	0.0	82%	NR 043556.1
Pedobacter koreensis strain NBRC 101153 16S ribosomal RNA gene, partial sequence	1003	1003	95%	0.0	82%	NR_113980.1
Algoriphagus vanfongensis strain KMM 6241 16S ribosomal RNA gene, partial sequence	1003	1003	83%	0.0	84%	NR_044196.1
Pedobacter rhizosphaerae strain 01-96 16S ribosomal RNA gene, partial sequence	1003	1003	95%	0.0	82%	NR 122096.1
Pedobacter suwonensis strain 15-52 16S ribosomal RNA gene, partial sequence	1003	1003	95%	0.0	82%	NR_043543.1
Roseivirga spongicola strain UST030701-084 16S ribosomal RNA gene, partial sequence	1003	1003	87%	0.0	84%	NR_043531.1
Algoriphagus yeomjeoni strain MSS-160 16S ribosomal RNA gene, partial sequence	1003	1003	97%	0.0	82%	NR_043131.1
Flexibacter flexilis strain NBRC 15060 16S ribosomal RNA gene, partial sequence	1002	1002	83%	0.0	84%	NR 113726.1
Algoriphagus antarcticus strain LMG 21980 16S ribosomal RNA gene, partial sequence	1002	1002	92%	0.0	83%	NR 025604.1
Roseivirga ehrenbergii strain KMM 6017 16S ribosomal RNA gene, partial sequence	1002	1002	90%	0.0	83%	NR_025825.1
Flexibacter flexilis strain IFO 15060 16S ribosomal RNA gene, partial sequence	1002	1002	83%	0.0	84%	NR_112181.1
Pedobacter oryzae strain N7 16S ribosomal RNA gene, partial sequence	998	998	88%	0.0	83%	NR_116174.1
Algoriphagus winogradskyi strain LMG 21969 16S ribosomal RNA gene, partial sequence	996	996	97%	0.0	82%	NR 025601.1
Marivirga tractuosa strain DSM 4126 16S ribosomal RNA gene, complete sequence	994	994	94%	0.0	82%	NR_074493.1

Description	Max score	Total score	Query cover	E value	Ident	Accession
Spirosoma luteum strain SPM-10 16S ribosomal RNA gene, partial sequence	994	994	92%	0.0	83%	NR_044221.1
Marivirga tractuosa strain IFO 15989 16S ribosomal RNA gene, partial sequence	994	994	94%	0.0	82%	NR_040918.1
Pedobacter sandarakinus strain DS-27 16S ribosomal RNA gene, partial sequence	992	992	95%	0.0	82%	NR_043665.1
Algoriphagus aquimarinus strain LMG 21971 16S ribosomal RNA gene, partial sequence	990	990	85%	0.0	84%	NR_025602.1
Leadbetterella byssophila strain DSM 17132 16S ribosomal RNA gene, complete sequence	989	989	86%	0.0	83%	NR_074303.1
Fontibacter ferrireducens strain SgZ-2 16S ribosomal RNA gene, partial sequence	989	989	97%	0.0	82%	NR 109591.1

Alignments

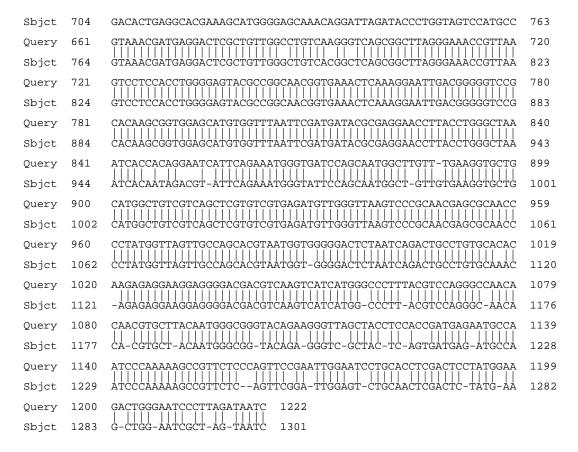
Dyadobacter koreensis strain NBRC 101116 16S ribosomal RNA gene, partial sequence

Sequence ID: ref|NR_113977.1| Length: 1433 Number of Matches: 1

Range 1: 106 to 1301

Score		Expect	Identities	Gaps	Strand	Frame	_
1873 bit	s(1014)	0.0()	1158/1223(95%)	28/1223(2%)	Plus/Plus		_
Features	s:						
Query	1	GCCCGGGGAAA	CCCGGATTAATACCC	GCATAACACAGGGGTCC	CGCATGGGTAC	TATTTGT	60
Sbjct	106	GCCCGGGGAAA	.CCCGGATTAATACCC	SCATAATACAGGGGTGC	CACCT-GGTAC	TATTTGT	164
Query	61	TAAAGATTTAT	CGGTGGTAGATGGGC	CATGCGTTCGATTAGCT	AGTTGGTATAG	GTAACGG	120
Sbjct	165	TAAAGATTTAT	TGGTTGAAGATGGG	CATGCGTTCGATTAGCT	AGTTGG-CGGG	GTAACGG	223
Query	121	CTTACCAAGGC	TACGATCGATAGGG	GAGCTGAGAGGTTGATC	CCCCACACGGG	CACTGAG	180
Sbjct	224	CCCACCAAGGC	gacgatcgataggg	BAGCTGAGAGGTTGATC	CCCCACACGGG	CACTGAG	283
Query	181	ATACGGGCCCG	ACTCCTACGGGAGGC	CAGCAGTAGGGAATATT	GGGCAATGGAT	GCAAGTC	240
Sbjct	284	ATACGGGCCCG	actcctacgggagg	CAGCAGTAGGGAATATI	GGGCAATGGAT	GCAAGTC	343
Query	241	TGACCCAGCCA	TGCCGCGTGCCGGAT	GAAGGCCCTCAGGGTT	GTAAACGGCTT	TTATTCG	300
Sbjct	344	TGACCCAGCCA	tgccgcgtgccgga	rgaaggeetteagggti	GTAAACGGCTT	TTATTCG	403
Query	301	GGAAGAAGAGC	AGGGATGCGTCCTTC	GTGTGACGGTACCGAAT	GAATAAGCACC	GGCTAAC	360
Sbjct	404	GGAAGAAGAGC	addatddtcct	stgtgacggtactgaal	GAATAAGCACC	GGCTAAC	463
Query	361	TCCGTGCCAGC	AGCCGCGGTAATAC	GGAGGGTGCGAGCGTTG	TCCGGATTTAT	TGGGTTT	420
Sbjct	464	TCCGTGCCAGC	agccgcggtaatac	GAGGGTGCGAGCGTTG	TCCGGATTTAT	TGGGTTT	523
Query	421	AAAGGGTGCGT	AGGTGGCTTGTTAAC	GTCAGTGGTGAAATACA	GCCGCTCAACG	GTTGAGG	480
Sbjct	524	AAAGGGTGCGT	'AGGTGGCTAATTAAC	stcagtggtgaaataca	GCCGCTCAACG	GTTGAGG	583
Query	481	TGCCATTGATA	CTGACAAGCTTGAA	ACAAGTGGAGGCTGCCG	GAATGGATGGT	GTAGCGG	540
Sbjct	584	TGCCATTGATA	.ctgattagcttgaa <i>l</i>	Acaagtggaggctgccd	GAATGGATGGT	'GTAGCGG	643
Query	541	TGAAATGCATA	GATATCATCCAGAAC	CACCGATTGCGAAGGCA	GGTGGCTACGT	TTGATTT	600
Sbjct	644	TGAAATGCATA	datatcatccagaad	CACCGATTGCGAAGGCA	dgtggctacgt	TTGATTT	703
Query	601	GACACTGAGGC	ACGAAAGCATGGGGA	AGCAAACAGGATTAGAT	ACCCTGGTAGT	CCATGCC	660

NCBI Blast:Nucleotide Sequence (1253 letters)



Dyadobacter koreensis strain KCTC 12537 16S ribosomal RNA gene, partial sequence

Sequence ID: ref|NR_044041.1| Length: 1412 Number of Matches: 1

Range 1: 103 to 1298

Score		Expect	Identities	Gaps	Strand	Frame	_
1873 bits	s(1014)	0.0()	1158/1223(95%)	28/1223(2%)	Plus/Plus		_
Features	3:						
Query	1	GCCCGGGGAAA	CCCGGATTAATACCG	CATAACACAGGGGTCC	CGCATGGGTAC	TATTTGT	60
Sbjct	103	GCCCGGGGAAA	CCCGGATTAATACCG	CATAATACAGGGGTGC	CACCT-GGTAC	TATTTGT	161
Query	61	TAAAGATTTAT	CGGTGGTAGATGGGC	ATGCGTTCGATTAGCT	AGTTGGTATAG	GTAACGG	120
Sbjct	162	TAAAGATTTAT	TGGTTGAAGATGGGC	ATGCGTTCGATTAGCT	AGTTGG-CGGG	GTAACGG	220
Query	121	CTTACCAAGGC	TACGATCGATAGGGG	AGCTGAGAGGTTGATC	CCCCACACGGG	CACTGAG	180
Sbjct	221	CCCACCAAGGC	GACGATCGATAGGGG	AGCTGAGAGGTTGATO	CCCCACACGGG	CACTGAG	280
Query	181	ATACGGGCCCG	ACTCCTACGGGAGGC	AGCAGTAGGGAATATT	GGGCAATGGAT	GCAAGTC	240
Sbjct	281	ATACGGGCCCG	ACTCCTACGGGAGGC	AGCAGTAGGGAATATI	GGGCAATGGAT	GCAAGTC	340
Query	241	TGACCCAGCCA	TGCCGCGTGCCGGAT	GAAGGCCCTCAGGGTT	GTAAACGGCTT	TTATTCG	300
Sbjct	341	TGACCCAGCCA	TGCCGCGTGCCGGAT	GAAGGCCCTCAGGGT1	GTAAACGGCTT	TTATTCG	400
Query	301	GGAAGAAGAGC	AGGGATGCGTCCTTG	rgtgacggtaccgaat	GAATAAGCACC	GGCTAAC	360
Sbjct	401	GGAAGAAGAGC	AGGGATGCGTCCCTG	rgtgacggtactgaai	GAATAAGCACC	GGCTAAC	460
Query	361	TCCGTGCCAGC	AGCCGCGGTAATACG	GAGGGTGCGAGCGTTG	TCCGGATTTAT	TGGGTTT	420
Sbjct	461	TCCGTGCCAGC	AGCCGCGGTAATACG	GAGGGTGCGAGCGTTC	TCCGGATTTAT	TGGGTTT	520
Query	421	AAAGGGTGCGT	AGGTGGCTTGTTAAG	rcagtggtgaaatac <i>a</i>	GCCGCTCAACG	GTTGAGG	480
Sbjct	521	AAAGGGTGCGT	AGGTGGCTAATTAAG	rcagtggtgaaataca	GCCGCTCAACG	GTTGAGG	580
Query	481	TGCCATTGATA	CTGACAAGCTTGAAA	CAAGTGGAGGCTGCCG	GAATGGATGGT	GTAGCGG	540
Sbjct	581	TGCCATTGATA	CTGATTAGCTTGAAA	CAAGTGGAGGCTGCC	GAATGGATGGT	GTAGCGG	640
Query	541	TGAAATGCATA	GATATCATCCAGAAC	ACCGATTGCGAAGGCA	GGTGGCTACGT	TTGATTT	600

Sbjct	641	TGAAATGCATAGATATCATCCAGAACACCGATTGCGAAGGCAGGTGGCTACGTTTGATTT	700
Query	601	GACACTGAGGCACGAAAGCATGGGGAGCAAACAGGATTAGATACCCTGGTAGTCCATGCC	660
Sbjct	701	GACACTGAGGCACGAAAGCATGGGGAGCAAACAGGATTAGATACCCTGGTAGTCCATGCC	760
Query	661	GTAAACGATGAGGACTCGCTGTTGGCCTGTCAAGGGTCAGCGGCTTAGGGAAACCGTTAA	720
Sbjct	761	GTAAACGATGAGGACTCGCTGTTGGGCTGTCACGGCTCAGCGGCTTAGGGAAACCGTTAA	820
Query	721	GTCCTCCACCTGGGGAGTACGCCGGCAACGGTGAAACTCAAAGGAATTGACGGGGGTCCG	780
Sbjct	821	GTCCTCCACCTGGGGAGTACGCCGGCAACGGTGAAACTCAAAGGAATTGACGGGGGTCCG	880
Query	781	CACAAGCGGTGGAGCATGTGGTTTAATTCGATGATACGCGAGGAACCTTACCTGGGCTAA	840
Sbjct	881	CACAAGCGGTGGAGCATGTGGTTTAATTCGATGATACGCGAGGAACCTTACCTGGGCTAA	940
Query	841	ATCACCACAGGAATCATTCAGAAATGGGTGATCCAGCAATGGCTTGTT-TGAAGGTGCTG	899
Sbjct	941	ATCACAATAGACGT-ATTCAGAAATGGGTATTCCAGCAATGGCT-GTTGTGAAGGTGCTG	998
Query	900	CATGGCTGTCGTCAGCTCGTGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACC	959
Sbjct	999	CATGGCTGTCGTCAGCTCGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACC	1058
Query	960	CCTATGGTTAGTTGCCAGCACGTAATGGTGGGGGACTCTAATCAGACTGCCTGTGCACAC	1019
Sbjct	1059	CCTATGGTTAGTTGCCAGCACGTAATGGT-GGGGACTCTAATCAGACTGCCTGTGCAAAC	1117
Query	1020	AAGAGAGGAGGAGGACGACGTCAAGTCATCATGGGCCCTTTACGTCCAGGGCCAACA	1079
Sbjct	1118	-AGAGAGGAAGGACGACGTCAAGTCATCATGG-CCCTT-ACGTCCAGGGC-AACA	1173
Query	1080	CAACGTGCTTACAATGGGCGGGTACAGAAGGGTTAGCTACCTCCACCGATGAGAATGCCA	1139
Sbjct	1174	CA-CGTGCT-ACAATGGGCGG-TACAGA-GGGTC-GCTAC-TC-AGTGATGAG-ATGCCA	1225
Query	1140	ATCCCAAAAAGCCGTTCTCCCAGTTCCGAATTGGAATCCTGCACCTCGACTCCTATGGAA	1199
Sbjct	1226	ATCCCAAAAAGCCGTTCTCAGTTCGGA-TTGGAGT-CTGCAACTCGACTC-TATG-AA	1279
Query	1200	GACTGGGAATCCCTTAGATAATC 1222	
Sbjct	1280	G-CTGG-AATCGCT-AG-TAATC 1298	

Dyadobacter psychrophilus strain BZ26 16S ribosomal RNA gene, partial sequence Sequence ID: ref|NR_117212.1| Length: 1501 Number of Matches: 1 Range 1: 126 to 1322

Score		Expect	Identities	Gaps	Strand	Frame	_
1868 bits	s(1011)	0.0()	1157/1223(95%)	27/1223(2%)	Plus/Plus		
Features	s:						
Query	1	GCCCGGGGAAZ	ACCCGGATTAATAC	CGCATAACACAGGGGTCC	CGCATGGGTAC	TATTTGT	60
Sbjct	126	GCCCGGGGAAZ	ACCCGGATTAATAC	CGCATAACACAGGGGTAC	AGCAT-TGTAC	TATTTGT	184
Query	61	TAAAGATTTAT	CGGTGGTAGATGG	GCATGCGTTCGATTAGCT	AGTTGGTATAG	GTAACGG	120
Sbjct	185	TAAAGATTTAT	TGGTTGAAGATGG	SCATGCGTTCGATTAGCT	'AGTTGGTATGG	GTAACGG	244
Query	121	CTTACCAAGGO	CTACGATCGATAGG	GGAGCTGAGAGGTTGATC	CCCCACACGGG	CACTGAG	180
Sbjct	245	CCTACCAAGGC	CGACGATCGATAGG	GGAGCTGAGAGGTTGATC	CCCCACACGGG	CACTGAG	304
Query	181	ATACGGGCCCC	ACTCCTACGGGAG	GCAGCAGTAGGGAATATT	GGGCAATGGAT	GCAAGTC	240
Sbjct	305	ATACGGGCCC	BACTCCTACGGGAG	GCAGCAGTAGGGAATATT	'GGGCAATGGAT	GCAAGTC	364
Query	241	TGACCCAGCCA	ATGCCGCGTGCCGG	ATGAAGGCCCTCAGGGTT	GTAAACGGCTT	TTATTCG	300
Sbjct	365	TGACCCAGCCA	rtgccgcgtgccgg	ATGAAGGCCCTCAGGGTT	'GTAAACGGCTT	TTATTCG	424
Query	301	GGAAGAAGAG	CAGGGATGCGTCCT	rgtgtgacggtaccgaat	GAATAAGCACC	GGCTAAC	360
Sbjct	425	GGAAGAAGAG	CAGGGATGCGTCCC	rgrgrgacggraccgaar	'GAATAAGCACC	GGCTAAC	484
Query	361	TCCGTGCCAGC	CAGCCGCGGTAATA	CGGAGGGTGCGAGCGTTG	TCCGGATTTAT	TGGGTTT	420
Sbjct	485	TCCGTGCCAG	CAGCCGCGGTAATA	CGGAGGGTGCGAGCGTTG	TCCGGATTTAT	TGGGTTT	544
Query	421	AAAGGGTGCG7	AGGTGGCTTGTTA	AGTCAGTGGTGAAATACA	GCCGCTCAACG	GTTGAGG	480
Sbjct	545	AAAGGGTGCGT	AGGTGGCTATTTA		.GCCGCTCAACG	GTTGAGG	604

Query	481	TGCCATTGATACTGACAAGCTTGAAACAAGTGGAGGCTGCCGGAATGGATGG	540
Sbjct	605	TGCCATTGATACTGAATAGCTTGAAAGAATTGGAGGCTGCCGGAATGGATGG	664
Query	541	TGAAATGCATAGATATCATCCAGAACACCGATTGCGAAGGCAGGTGGCTACGTTTGATTT	600
Sbjct	665	TGAAATGCATAGATATCATCCAGAACACCGATTGCGAAGGCAGGTGGCTACGATTTATTT	724
Query	601	GACACTGAGGCACGAAAGCATGGGGAGCAAACAGGATTAGATACCCTGGTAGTCCATGCC	660
Sbjct	725	gacactgaggcacgaaagcatggggagcaaacaggattagataccctggtagtccatgcc	784
Query	661	GTAAACGATGAGGACTCGCTGTTGGCCTGTCAAGGGTCAGCGGCTTAGGGAAACCGTTAA	720
Sbjct	785	GTAAACGATGAGGACTCGCTGTTGGCCTGTCACGGGTCAGCGGCTTAGGGAAACCGTTAA	844
Query	721	GTCCTCCACCTGGGGAGTACGCCGGCAACGGTGAAACTCAAAGGAATTGACGGGGGTCCG	780
Sbjct	845	GTCCTCCACCTGGGGAGTACGCCGGCAACGGTGAAACTCAAAGGAATTGACGGGGGGTCCG	904
Query	781	CACAAGCGGTGGAGCATGTGGTTTAATTCGATGATACGCGAGGAACCTTACCTGGGCTAA	840
Sbjct	905	CACAAGCGGTGGAGCATGTGGTTTAATTCGATGATACGCGAGGAACCTTACCTGGGCTAA	964
Query	841	ATCACCACAGGAATCATTCAGAAATGGGTGATCCAGCAATGGCTTGTT-TGAAGGTGCTG	899
Sbjct	965	ATCACAATA-GAATTGCGCAGAAATGTGTAAGCCAGCAATGGCT-GTTGTGAAGGTGCTG	1022
Query	900	CATGGCTGTCGTCAGCTCGTGTCGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACC	959
Sbjct	1023	catggctgtcgtcdcctcgtgtcgtgagatgttgggttaagtcccgcaacgagcgcaacc	1082
Query	960	CCTATGGTTAGTTGCCAGCACGTAATGGTGGGGGGACTCTAATCAGACTGCCTGTGCACAC	1019
Sbjct	1083	CCTATGGTTAGTTGCCAGCACGTAATGGT-GGGGACTCTAGCCAGACTGCCTGTGCAAAC	1141
Query	1020	AAGAGAGGAGGAGGACGACGTCAAGTCATCATGGGCCCTTTACGTCCAGGGCCAACA	1079
Sbjct	1142	-AGAGAGGAAGGACGACGTCAAGTCATCATGG-CCCTT-ACGTCCAGGGC-AACA	1197
Query	1080	CAACGTGCTTACAATGGGCGGGTACAGAAGGGTTAGCTACCTCCACCGATGAGAATGCCA	1139
Sbjct	1198	CA-CGTGCT-ACAATGGGCGG-TACAGA-GGGT-AGCTACA-C-AGTGATGTG-ATGCCA	1249
Query	1140	ATCCCAAAAAGCCGTTCTCCCAGTTCCGAATTGGAATCCTGCACCTCGACTCCTATGGAA	1199
Sbjct	1250	ATCCCAAAAAGCCGTTCTCAGTTCGGA-TTGGAGT-CTGCAACTCGACTC-TATG-AA	1303
Query	1200	GACTGGGAATCCCTTAGATAATC 1222	
Sbjct	1304	g-ctgg-aatcgct-ag-taatc 1322	

Dyadobacter ginsengisoli strain Gsoil 043 16S ribosomal RNA gene, partial sequence Sequence ID: **ref|NR_041372.1|** Length: 1451 Number of Matches: 1 Range 1: 114 to 1308

Score		Expect	Identities	Gaps	Strand	Frame	_
1838 bits	s(995)	0.0()	1155/1226(94%)	35/1226(2%)	Plus/Plus		
Features	3:						
Query	1	GCCCGGGGAA	ACCCGGATTAATACC	GCATAACACAGGGGTC	CCGCATGGGTAC	CTATTTGT	60
Sbjct	114	GCCCGGGGAA	ACCCGGATTAATACC	GCATAATACAGGGGGC	CCACATGGGT-C	CTATTTGT	172
Query	61	TAAAGATTTA	TCGGTGGTAGATGGG	CATGCGTTCGATTAGC	TAGTTGGTATAG	GTAACGG	120
Sbjct	173	TAAAGATTTA	TCGGTGGTAGATGGG	CATGCGTTCGATTAGC	TAGTTGGCA-G	GTAACGG	231
Query	121	CTTACCAAGG	CTACGATCGATAGGG	GAGCTGAGAGGTTGAT	CCCCCACACGG	GCACTGAG	180
Sbjct	232	CCTACCAAGG	cgacgatcgataggg	GAGCTGAGAGGTTGAT	CCCCACACGG	GCACTGAG	291
Query	181	ATACGGGCCC	GACTCCTACGGGAGG	CAGCAGTAGGGAATAT	TGGGCAATGGAT	GCAAGTC	240
Sbjct	292	ATACGGGCCC	gactcctacgggagg	cagcagtagggaatat	TGGGCAATGGAT	rdcaadtc	351
Query	241	TGACCCAGCC	ATGCCGCGTGCCGGA	TGAAGGCCCTCAGGGT'	TGTAAACGGCTT	TTATTCG	300
Sbjct	352	TGACCCAGCC	atgccgcgtgccgga	tgaaggccctcagggt	TGTAAACGGCT1	rttattcg	411
Query	301	GGAAGAAGAG	CAGGGATGCGTCCTT	GTGTGACGGTACCGAA'	TGAATAAGCACO	CGGCTAAC	360
Sbjct	412	GGAAGAAGAG	cgdddatdcdtcct	gtgtgacggtaccgaa'	TGAATAAGCAC	cggctaac	471
Query	361	TCCGTGCCAG	CAGCCGCGGTAATAC	GGAGGGTGCGAGCGTT(GTCCGGATTTA7	TTGGGTTT	420
Sbjct	472	tccgtgccag	cagccgcggtaatac	ggagggtgcgagcgtt(gtccggatta	rtgggttt	531

Query	421	AAAGGGTGCGTAGGTGGCTTGTTAAGTCAGTGGTGAAATACAGCCGCTCAACGGTTGAGG	480
Sbjct	532	AAAGGGTGCGTAGGTGGCTAATTAAGTCAGTGGTGAAATACAGCCGCTCAACGGTTGAGG	591
Query	481	TGCCATTGATACTGACAAGCTTGAAACAAGTGGAGGCTGCCGGAATGGATGG	540
Sbjct	592	TGCCATTGATACTGACTAGCTTGAAATAATTGGAGGCTGCCGGAATGGATGG	651
Query	541	TGAAATGCATAGATATCATCCAGAACACCGATTGCGAAGGCAGGTGGCTACG-TTTGATT	599
Sbjct	652	TGAAATGCATAGATATCATCCAGAACACCGATTGCGAAGGCAGGTGGCTACGATTTG-TT	710
Query	600	TGACACTGAGGCACGAAAGCATGGGGAGCAAACAGGATTAGATACCCTGGTAGTCCATGC	659
Sbjct	711	TGACACTGAGGCACGAAAGCATGGGGAGCAAACAGGATTAGATACCCTGGTAGTCCATGC	770
Query	660	CGTAAACGATGAGGACTCGCTGTTGGCCTG-TCAAGGGTCAGCGGCTTAGGGAAACCGTT	718
Sbjct	771	TGTAAACGATGAGGACTCGCTGTTGGTGTTCACGCATCAGCGGCTTAGGGAAACCGTT	828
Query	719	AAGTCCTCCACCTGGGGAGTACGCCGGCAACGGTGAAACTCAAAGGAATTGACGGGGGTC	778
Sbjct	829	AAGTCCTCCACCTGGGGAGTACGCCGGCAACGGTGAAACTCAAAGGAATTGACGGGGGGTC	888
Query	779	CGCACAAGCGGTGGAGCATGTGGTTTAATTCGATGATACGCGAGGAACCTTACCTGGGCT	838
Sbjct	889	CGCACAAGCGGTGGAGCATGTGGTTTAATTCGATGATACGCGAGGAACCTTACCTGGGCT	948
Query	839	AAATCACCACAGGAATCATTCAGAAATGGGTGATCCAGCAATGG-CT-TGTTTGAAGGTG	896
Sbjct	949	AAATCA-CAGAGGAATTATGCAGAAATGTGTAAGCTAGCAATAGTCTCTGTGAAGGTG	1005
Query	897	CTGCATGGCTGTCGTCAGCTCGTGTCGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCA	956
Sbjct	1006	ctgcatggctgtcgtcagctcgtgtgtgagatgttgggttaagtcccgcaacgagcgca	1065
Query	957	ACCCCTATGGTTAGTTGCCAGCACGTAATGGTGGGGGACTCTAATCAGACTGCCTGTGCA	1016
Sbjct	1066	ACCCCTATGGTTAGTTGCCAGCACGTAATGGT-GGGGACTCTAGCCAGACTGCCTGTGCA	1124
Query	1017	CACAAGAGAAGGAGGGGACGACGTCAAGTCATCATGGGCCCTTTACGTCCAGGGCCA	1076
Sbjct	1125	AAC-AGAGAGGAAGGACGACGTCAAGTCATCATGG-CCCTT-ACGTCCAGGGC-A	1180
Query	1077	ACACAACGTGCTTACAATGGGCGGGTACAGAAGGGTTAGCTACCTCCACCGATGAGAATG	1136
Sbjct	1181	ACACA-CGTGCT-ACAATGGGCGG-TACAGA-GGGT-AGCTACA-C-AGCGATGTG-ATG	1232
Query	1137	CCAATCCCAAAAAGCCGTTCTCCCAGTTCCGAATTGGAATCCTGCACCTCGACTCCTATG	1196
Sbjct	1233	CCAATCCCAAAAAGCCGTTCTCAGTTCGGA-TTGGAGT-CTGCAACTCGACTC-TATG	1287
Query	1197	GAAGACTGGGAATCCCTTAGATAATC 1222	
Sbjct	1288	-AAG-CTGG-AATCGCT-AG-TAATC 1308	

Dyadobacter hamtensis strain HHS 11 16S ribosomal RNA gene, partial sequence Sequence ID: **ref|NR_042226.1|** Length: 1446 Number of Matches: 1 Range 1: 114 to 1308

Score		Expect	Identities	Gaps	Strand	Frame	_
1838 bits(995)		0.0()	1152/1223(94%)	29/1223(2%)	Plus/Plus		_
Features:							
Query	1	GCCCGGGGAA	ACCCGGATTAATACC	GCATAACACAGGGGTC	CCGCATGGGTA	CTATTTGT	60
Sbjct	114	GCCCGGGGAA	ACCCGGATTAATACC	GCATAATACATTTGGG	CCACCT-GGTT	TGATTTGT	172
Query	61	TAAAGATTTA	TCGGTGGTAGATGGG	CATGCGTTCGATTAGC	TAGTTGGTATA	GGTAACGG	120
Sbjct	173	TAAAGATTTA	ttggtgatagatggg	CATGCGTTCGATTAGC	TAGTTGGCA-G	GGTAACGG	231
Query	121	CTTACCAAGG	CTACGATCGATAGGG	GAGCTGAGAGGTTGAT	CCCCCACACGG	GCACTGAG	180
Sbjct	232	CCTACCAAGG	CAACGATCGATAGGG	GAGCTGAGAGGTTGAT	CCCCACACGG	GCACTGAG	291
Query	181	ATACGGGCCC	GACTCCTACGGGAGG	CAGCAGTAGGGAATAT	TGGGCAATGGA	TGCAAGTC	240
Sbjct	292	ATACGGGCCC	GACTCCTACGGGAGG	CAGCAGTAGGGAATAT	TGGGCAATGGA	TGCAAGTC	351
Query	241	TGACCCAGCC	ATGCCGCGTGCCGGA	TGAAGGCCCTCAGGGT	IGTAAACGGCT	TTTATTCG	300
Sbjct	352	TGACCCAGCC	ATGCCGCGTGCCGGA	TGAAGGCCCTCAGGGT	IGTAAACGGCT	TTTATTCG	411
Query	301	GGAAGAAGAG	CAGGGATGCGTCCTT	GTGTGACGGTACCGAA	TGAATAAGCAC 	CGGCTAAC	360

NCBI Blast:Nucleotide Sequence (1253 letters)

Sbjct	412	GGAAGAAGAGCAGGGATGCGTCCCTGTGTGACGGTACCGAATGAAT	471
Query	361	TCCGTGCCAGCAGCCGCGTAATACGGAGGGTGCGAGCGTTGTCCGGATTTATTGGGTTT	420
Sbjct	472	TCCGTGCCAGCAGCCGCGGTAATACGGAGGGTGCGAGCGTTGTCCGGATTTATTGGGTTT	531
Query	421	AAAGGGTGCGTAGGTTGATTAAGTCAGTGGTGAAATACAGCCGCTCAACGGTTGAGG	480
Sbjct	532	AAAGGGGGCGTAGGTGGCTTTTTAAGTCAGTGGTGAAATACAGCCGCTCAACGGTTGAGG	591
Query	481	TGCCATTGATACTGACAAGCTTGAAACAAGTGGAGGCTGCCGGAATGGATGG	540
Sbjct	592	TGCCATTGATACTGAAGAGCTTGAAACAAGTGGAGGCTGCCGGAATGGATGG	651
Query	541	TGAAATGCATAGATATCATCCAGAACACCGATTGCGAAGGCAGGTGGCTACGTTTGATTT	600
Sbjct	652	TGAAATGCATAGATATCATCCAGAACACCGATTGCGAAGGCAGGTGGCTACGTTTGATTT	711
Query	601	GACACTGAGGCACGAAAGCATGGGGAGCAAACAGGATTAGATACCCTGGTAGTCCATGCC	660
Sbjct	712	gacactgaggcacgaaagcatggggagcaaacaggattagataccctggtagtccatgcc	771
Query	661	GTAAACGATGAGGACTCGCTGTTGGCCTGTCAAGGGTCAGCGGCTTAGGGAAACCGTTAA	720
Sbjct	772	gtaaacgatgaggactcgctgttggtctgtcaaggatcagcggcttagggaaaccgttaa	831
Query	721	GTCCTCCACCTGGGGAGTACGCCGGCAACGGTGAAACTCAAAGGAATTGACGGGGGTCCG	780
Sbjct	832	dtcctccacctgggagtacgccggcaacggtgaaactcaaaggaattgacgggggtccg	891
Query	781	CACAAGCGGTGGAGCATGTGGTTTAATTCGATGATACGCGAGGAACCTTACCTGGGCTAA	840
Sbjct	892	cacaagcggtggagcatgtggtttaattcgatgatacccgaggaaccttacctgggctaa	951
Query	841	ATCACCACAGGAATCATTCAGAAATGGGTGATCCAGCAATGGCTTGTT-TGAAGGTGCTG	899
Sbjct	952	atcacaatagacgt-attcagaaatgggtattccagcaatggct-gttgtgaaggtgctg	1009
Query	900	CATGGCTGTCGTCAGCTCGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACC	959
Sbjct	1010	cátggctgtcgtcágctcgtgtgtgagatgttgggttaagtcccgcaacgagcgcaacc	1069
Query	960	CCTATGGTTAGTTGCCAGCACGTAATGGTGGGGGACTCTAATCAGACTGCCTGTGCACAC	1019
Sbjct	1070	cctatggttagttgccagcacgtaatggt-ggggactctaatcagactgcctgtgcaaac	1128
Query	1020	AAGAGAGGAAGGAGGACGACGTCAAGTCATCATGGGCCCTTTACGTCCAGGGCCAACA	1079
Sbjct	1129	- AĠAĠAĠĠAAĠĠAĠĠĠĠAĊĠAĊĠŤĊAAĠŤĊAŤĊĠŤĠĠ-ĊĊĊŤŤ-AĊĠŤĊĊAĠĠĠĊ-AAĊA	1184
Query	1080	CAACGTGCTTACAATGGGCGGGTACAGAAGGGTTAGCTACCTCCACCGATGAGAATGCCA	1139
Sbjct	1185	ĊĀ-ĊĠŦĠĊŦ-ĀĊĀĀŦĠĠĠĊĠĠ-ŦĀĊĀĠĀ-ĠĠĠŦC-ĠĊŦĀĊ-ŦĊ-ĀGŦĠĀŦĠĀĠ-ĀŦĠĊĊĀ	1236
Query	1140	ATCCCAAAAAGCCGTTCTCCCAGTTCCGAATTGGAATCCTGCACCTCGACTCCTATGGAA	1199
Sbjct	1237	ÁTCCCÁÁÁÁÁÁGCCGTTCTCA-Á-TTCGGÁ-TTGAÁGT-CTGCÁACTCGÁCTTÁTG-ÁÁ	1289
Query	1200	GACTGGGAATCCCTTAGATAATC 1222	
Sbjct	1290	Ġ-ĊŦĠĠ-ÀÀŦĊĠĊŦ-ÀĠ-ŤÀÀŦĊ 1308	