

The sequences of the *Gilliamella*-like bacterial 16S rDNA sequences, alignments and Blastn search results

Different partial 16S *rRNA* gene sequences were obtained with a high similarity to that of *Gilliamella* sp. and shown below in fasta formats. Note: Lab1, my own lab, two sequences were obtained from fly surface and guts, respectively. Lab2, Dr. Erjun Ling's lab at our Institute. CFDRT, Core Facility of Drosophila Resource and Technology from the Shanghai Institute of Biochemistry and Cell Biology, Chinese Academy of Sciences.

>Lab1-Surface

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CTCTAGAGTATGGGGATCTGCCGAATGGAGGGGGACAACAGTTGGAAACGGCTGCTAATACCGCATAACGTC
GAGAGACCAAAGGGTGGGACCTTCGGGCCACTTGCCATTTGATGAGCCCATATGAGATTAGCTAGTTGGTGT
GGTAATGGCTCACCAAGGCGACGATCTCTAGCTGGTTTGAGAGGATGACCAGCCACACTGGGACTGAGACAC
GGCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCACAATGGGGGGAACCCTGATGCAGCCATGCCG
CGTGTATGAAGAAGGCCCTTAGGGTTGTAAAGTACTTTTCGTGGAGGAGGAAGGGTTTACGTTTAATAGGCGTG
GACATTGACGTTACTCCAAGAAGAAGCACCGGCTAACTCCGTGCCAGCAGCCGCGGTAATACGGAGGGTGCG
AGCGTTAATCGGAATGACTGGGCGTAAAGGGCATGTAGGCGGATGATTAAGTTAGATGTGAAATCCCTGGGC
TTAACCTAGGAATTGCATTTAAAACTGGTTATCTAGAGTATTGTAGAGGAAGGTAGAATTCATGTGTAGCG
GTGAAATGCGTAGAGATGTGGAGGAATACCGGTGGCGAAGGCGGCCTTCTGGACAGATACTGACGCTGAGAT
GCGAAAGCGTGGGGAGCAAACAGGATTAGATACCCTGGTAGTCCACGCTGTAAACGATGTCGATTTGGAGTT
TGTTGCCTAGAGTGATGGGCTCCGAAGCTAACGCGATAAATCGACCGCCTGGGGAGTACGGCCGCAAGGTTA
AAACTCAAATGAATTGACGGGGGCCCCGCACA
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>Lab1-Guts

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CTCTAGAGTATGGGGATCTGCCGAATGGAGGGGGACAACAGTTGGAAACGGCTGCTAATACCGCATAACGTC
GAGAGACCAAAGGGTGGGACCTTCGGGCCACTTGCCATTTGATGAGCCCATATGAGATTAGCTAGTTGGTGT
GGTAATGGCTCACCAAGGCGACGATCTCTAGCTGGTTTGAGAGGATGACCAGCCACACTGGGACTGAGACAC
GGCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCACAATGGGGGGAACCCTGATGCAGCCATGCCG
CGTGTATGAAGAAGGCCCTTAGGGTTGTAAAGTACTTTTCGTGGAGGAGGAAGGGTTTACGTTTAATAGGCGTG
GACATTGACGTTACTCCAAGAAGAAGCACCGGCTAACTCCGTGCCAGCAGCCGCGGTAATACGGAGGGTGCG
AGCGTTAATCGGAATGACTGGGCGTAAAGGGCATGTAGGCGGATGATTAAGTTAGATGTGAAATCCCTGGGC
TTAACCTAGGAATTGCATTTAAAACTGGTTATCTAGAGTATTGTAGAGGAAGGTAGAATTCATGTGTAGCG
GTGAAATGCGTAGAGATGTGGAGGAATACCGGTGGCGAAGGCGGCCTTCTGGACAGATACTGACGCTGAGAT
GCGAAAGCGTGGGGAGCAAACAGGATTAGATACCCTGGTAGTCCACGCTGTAAACGATGTCGATTTGGAGT
TTGTTGCCTAGAGTGATGGGCTCCGAAGCTAACGCGATAAATCGACCGCCTGGGGGAGTACGGCCGCAAGGT
TAAAACTCAAATGAATTGACGGGGGCCCCGCACA
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>CFDRT

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CTCTAGAGTATGGGGATCTGCCGAATGGAGGGGGACAACAGTTGGAAACGGCTGCTAATACCGCATAACGTC
GAGAGACCAAAGGGTGGGACCTTCGGGCCACTTGCCATTTGATGAGCCCATATGAGATTAGCTAGTTGGTGT
GGTAATGGCTCACCAAGGCGACGATCTCTAGCTGGTTTGAGAGGATGACCAGCCACACTGGGACTGAGACAC
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GGCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCACAATGGGGGGAACCCTGATGCAGCCATGCCG
 CGTGTATGAAGAAGGCCTTAGGGTTGTAAAGTACTTTTCGTGGAGGAGGAAGGGTTTACGTTTAAATAGGCGTG
 GACATTGACGTTACTCCAAGAAGAAGCACCGGCTAACTCCGTGCCAGCAGCCGCGGTAATACGGAGGGTGCG
 AGCGTTAATCGGAATGACTGGGCGTAAAGGGCATGTAGGCGGATGATTAAGTTAGATGTGAAATCCCTGGGC
 TTAACCTAGGAATTGCATTTAAACTGGTTATCTAGAGTATTGTAGAGGAAGGTAGAATTCATGTGTAGCG
 GTGAAATGCGTAGAGATGTGGAGGAATACCGGTGGCGAAGGCGGCCTTCTGGACAGATACTGACGCTGAGAT
 GCGAAAGCGTGGGGGAGCAAACAGGATTAGATACCCTGGTAGTCCACGCTGTAAACGATGTGATTTGGAGT
 TTGTTGCCTAGAGTGATGGGCTCCGAAGCTAACGCGATAAATCGACCGCTGGGGAGTACGGCCGCAAGGTT
 AAAACTCAAATGAATTGACGGGGGCCCCGCACA

>Lab2

CTCTAGAGTATGGGGACTGCCGAATGGAGGGGGACAACAGTTGGAAACGGCTGCTAATACCGCATAACGTCG
 AGAGACCAAAGGGTGGGACCTTCGGGCCACTTGCCATTTGATGAGCCCATATGAGATTAGCTAGTTGGTGTG
 GTAATGGCTCACCAAGGCGACGATCTCTAGCTGGTTTGAGAGGATGACCAGCCACACTGGGACTGAGACACG
 GCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCACAATGGGGGGAACCCTGATGCAGCCATGCCGC
 GTGTATGAAGAAGGCCTTAGGGTTGTAAAGTACTTTTCGTGGAGGAGGAAGGGTTTACGTTTAAATAGGCGTGG
 ACATTGACGTTACTCCAAGAAGAAGCACCGGCTAACTCCGTGCCAGCAGCCGCGGTAATACGGAGGGTGCGA
 GCGTTAATCGGAATGACTGGGCGTAAAGGGCATGTAGGCGGATGATTAAGTTAGATGTGAAATCCCTGGGCT
 TAACCTAGGAATTGCATTTAAACTGGTTATCTAGAGTATTGTAGAGGAAGGTAGAATTCATGTGTAGCGG
 TGAAATGCGTAGAGATGTGGAGGAATACCGGTGGCGAAGGCGGCCTTCTGGACAGATACTGACGCTGAGATG
 CGAAAGCGTGGGGAGCAAACAGGATTAGATACCCTGGTAGTCCACGCTGTAAACGATGTGATTTGGAGTTT
 GTTGCCTAGAGTGATGGGCTCCGAAGCTAACGCGATAAATCGACCGCTGGGGGAGTACGGCCGCAAGGTTA
 AAACCTCAAATGAATTGACGGGGGCCCCGCACA

The results of the alignments of four obtained sequences:

Lab1-Surface	CTCTAGAGTATGGGGATCTGCCGAATGGAGGGGGACAACAGTTGGAACGGCTGCTAATA
CFDRT	CTCTAGAGTATGGGGATCTGCCGAATGGAGGGGGACAACAGTTGGAACGGCTGCTAATA
Lab1-Guts	CTCTAGAGTATGGGGATCTGCCGAATGGAGGGGGACAACAGTTGGAACGGCTGCTAATA
Lab2	CTCTAGAGTATGGGGA-CTGCCGAATGGAGGGGGACAACAGTTGGAACGGCTGCTAATA

Lab1-Surface	CCGCATAACGTCGAGAGACCAAAGGGTGGGACCTTCGGGCCACTTGCCATTTGATGAGCC
CFDRT	CCGCATAACGTCGAGAGACCAAAGGGTGGGACCTTCGGGCCACTTGCCATTTGATGAGCC
Lab1-Guts	CCGCATAACGTCGAGAGACCAAAGGGTGGGACCTTCGGGCCACTTGCCATTTGATGAGCC
Lab2	CCGCATAACGTCGAGAGACCAAAGGGTGGGACCTTCGGGCCACTTGCCATTTGATGAGCC

Lab1-Surface	CATATGAGATTAGCTAGTTGGTGTGGTAATGGCTCACCAAGGCGACGATCTCTAGCTGGT
CFDRT	CATATGAGATTAGCTAGTTGGTGTGGTAATGGCTCACCAAGGCGACGATCTCTAGCTGGT
Lab1-Guts	CATATGAGATTAGCTAGTTGGTGTGGTAATGGCTCACCAAGGCGACGATCTCTAGCTGGT

Lab2	CATATGAGATTAGCTAGTTGGTGTGGTAATGGCTCACCAAGGCGACGATCTCTAGCTGGT *****
Lab1-Surface	TTGAGAGGATGACCAGCCACACTGGGACTGAGACACGGCCCAGACTCCTACGGGAGGCAG
CFDRT	TTGAGAGGATGACCAGCCACACTGGGACTGAGACACGGCCCAGACTCCTACGGGAGGCAG
Lab1-Guts	TTGAGAGGATGACCAGCCACACTGGGACTGAGACACGGCCCAGACTCCTACGGGAGGCAG
Lab2	TTGAGAGGATGACCAGCCACACTGGGACTGAGACACGGCCCAGACTCCTACGGGAGGCAG *****
Lab1-Surface	CAGTGGGGAATATTGCACAATGGGGGAACCCTGATGCAGCCATGCCGCGTGTATGAAGA
CFDRT	CAGTGGGGAATATTGCACAATGGGGGAACCCTGATGCAGCCATGCCGCGTGTATGAAGA
Lab1-Guts	CAGTGGGGAATATTGCACAATGGGGGAACCCTGATGCAGCCATGCCGCGTGTATGAAGA
Lab2	CAGTGGGGAATATTGCACAATGGGGGAACCCTGATGCAGCCATGCCGCGTGTATGAAGA *****
Lab1-Surface	AGGCCTTAGGGTTGTAAAGTACTTTCGTGGAGGAGGAAGGGTTTACGTTTAATAGGCGTG
CFDRT	AGGCCTTAGGGTTGTAAAGTACTTTCGTGGAGGAGGAAGGGTTTACGTTTAATAGGCGTG
Lab1-Guts	AGGCCTTAGGGTTGTAAAGTACTTTCGTGGAGGAGGAAGGGTTTACGTTTAATAGGCGTG
Lab2	AGGCCTTAGGGTTGTAAAGTACTTTCGTGGAGGAGGAAGGGTTTACGTTTAATAGGCGTG *****
Lab1-Surface	GACATTGACGTTACTCCAAGAAGAAGCACCGGCTAACTCCGTGCCAGCAGCCGCGTAAT
CFDRT	GACATTGACGTTACTCCAAGAAGAAGCACCGGCTAACTCCGTGCCAGCAGCCGCGTAAT
Lab1-Guts	GACATTGACGTTACTCCAAGAAGAAGCACCGGCTAACTCCGTGCCAGCAGCCGCGTAAT
Lab2	GACATTGACGTTACTCCAAGAAGAAGCACCGGCTAACTCCGTGCCAGCAGCCGCGTAAT *****
Lab1-Surface	ACGGAGGGTGCGAGCGTTAATCGGAATGACTGGGCGTAAAGGCATGTAGGCGGATGATT
CFDRT	ACGGAGGGTGCGAGCGTTAATCGGAATGACTGGGCGTAAAGGCATGTAGGCGGATGATT
Lab1-Guts	ACGGAGGGTGCGAGCGTTAATCGGAATGACTGGGCGTAAAGGCATGTAGGCGGATGATT
Lab2	ACGGAGGGTGCGAGCGTTAATCGGAATGACTGGGCGTAAAGGCATGTAGGCGGATGATT *****
Lab1-Surface	AAGTTAGATGTGAAATCCCTGGGCTTAACCTAGGAATTGCATTTAAACTGGTTATCTAG
CFDRT	AAGTTAGATGTGAAATCCCTGGGCTTAACCTAGGAATTGCATTTAAACTGGTTATCTAG

Lab1-Guts	AAGTTAGATGTGAAATCCCTGGGCTTAACCTAGGAATTGCATTTAAAACTGGTTATCTAG
Lab2	AAGTTAGATGTGAAATCCCTGGGCTTAACCTAGGAATTGCATTTAAAACTGGTTATCTAG

Lab1-Surface	AGTATTGTAGAGGAAGGTAGAATTCCATGTGTAGCGGTGAAATGCGTAGAGATGTGGAGG
CFDRT	AGTATTGTAGAGGAAGGTAGAATTCCATGTGTAGCGGTGAAATGCGTAGAGATGTGGAGG
Lab1-Guts	AGTATTGTAGAGGAAGGTAGAATTCCATGTGTAGCGGTGAAATGCGTAGAGATGTGGAGG
Lab2	AGTATTGTAGAGGAAGGTAGAATTCCATGTGTAGCGGTGAAATGCGTAGAGATGTGGAGG

Lab1-Surface	AATACCGGTGGCGAAGGCGGCCTTCTGGACAGATACTGACGCTGAGATGCGAAAGCGTGG
CFDRT	AATACCGGTGGCGAAGGCGGCCTTCTGGACAGATACTGACGCTGAGATGCGAAAGCGTGG
Lab1-Guts	AATACCGGTGGCGAAGGCGGCCTTCTGGACAGATACTGACGCTGAGATGCGAAAGCGTGG
Lab2	AATACCGGTGGCGAAGGCGGCCTTCTGGACAGATACTGACGCTGAGATGCGAAAGCGTGG

Lab1-Surface	GG-AGCAAACAGGATTAGATACCCTGGTAGTCCACGCTGTAAACGATGTCGATTT-GGAG
CFDRT	GGGAGCAAACAGGATTAGATACCCTGGTAGTCCACGCTGTAAACGATGTCGATTT-GGAG
Lab1-Guts	GG-AGCAAACAGGATTAGATACCCTGGTAGTCCACGCTGTAAACGATGTCGATTTTGAG
Lab2	GG-AGCAAACAGGATTAGATACCCTGGTAGTCCACGCTGTAAACGATGTCGATTT-GGAG
	** ***** **
Lab1-Surface	TTTGTGCCTAGAGTGATGGGCTCCGAAGCTAACGCGATAAATCGACCGCTGGGG-AGT
CFDRT	TTTGTGCCTAGAGTGATGGGCTCCGAAGCTAACGCGATAAATCGACCGCTGGGG-AGT
Lab1-Guts	TTTGTGCCTAGAGTGATGGGCTCCGAAGCTAACGCGATAAATCGACCGCTGGGGGAGT
Lab2	TTTGTGCCTAGAGTGATGGGCTCCGAAGCTAACGCGATAAATCGACCGCTGGGGGAGT
	***** **
Lab1-Surface	ACGGCCGCAAGGTAAAACTCAAATGAATTGACGGGGCCCGCACA
CFDRT	ACGGCCGCAAGGTAAAACTCAAATGAATTGACGGGGCCCGCACA
Lab1-Guts	ACGGCCGCAAGGTAAAACTCAAATGAATTGACGGGGCCCGCACA
Lab2	ACGGCCGCAAGGTAAAACTCAAATGAATTGACGGGGCCCGCACA

Example results of Blastn search against the NCBI nr database:

Gilliamella apicola strain wkB30 16S ribosomal RNA gene, complete sequence

Sequence ID: [JQ936676.2](#) Length: 1538 Number of Matches: 1

Range 1: 118 to 933 [GenBank](#) [Graphics](#) Next Match Previous Match

Alignment statistics for match #1

Score	Expect	Identities	Gaps	Strand
1275 bits(690)	0.0	775/817(95%)	2/817(0%)	Plus/Plus
Query 8	GTATGGGGATCTGCCGAATGGAGGGGGACAACAGTTGGAAACGGCTGCTAATACCGCATA	67		
Sbjct 118	GTATGGGGATCTGCCGAATGGAGGGGGACAACAGTTGGAAACGACTGCTAATACCGCATA	177		
Query 68	ACGTCGAGAGACCAAAGGTGGGACCTTCGGGCCACTTGCCATTTGATGAGCCCATATGA	127		
Sbjct 178	AAGTTGAGAGACCAAAGCATGGGACCTACGGGCCATGCGCCATTTGATGAACCCATATGG	237		
Query 128	GATTAGCTAGTTGGTGTGGTAATGGCTACCAAGGCGACGATCTCTAGCTGGTTTGAGAG	187		
Sbjct 238	GATTAGCTAGTTGGTGGGGTAAAGGCTACCAAGGCGACGATCTCTAGCTGGTCTGAGAG	297		
Query 188	GATGACCAGCCACACTGGGACTGAGACACGGCCCAGACTCCTACGGGAGGCAGCAGTGGG	247		
Sbjct 298	GATGACCAGCCACACTGGAAGTGAAGACACGGTCCAGACTCCTACGGGAGGCAGCAGTGGG	357		
Query 248	GAATATTGCACAATGGGGGAACCCTGATGCAGCCATGCCGCGTGTATGAAGAAGGCCTT	307		
Sbjct 358	GAATATTGCACAATGGGGGAACCCTGATGCAGCCATGCCGCGTGTATGAAGAAGGCCTT	417		
Query 308	AGGGTTGTAAAGTACTTTTCGTGGAGGAGGAAGG-GTTTACGTTTAATAGGCGTGGACATT	366		
Sbjct 418	CGGGTTGTAAAGTACTTTTCGTGATGAGGAAGGTGATGA-ATCTAATAGGTTTATTAATT	476		
Query 367	GACGTTACTCCAAGAAGAAGCACC GGCTAACTCCGTGCCAGCAGCCGCGTAATACGGAG	426		
Sbjct 477	GACGTTAATCACAGAAGAAGCACC GGCTAACTCCGTGCCAGCAGCCGCGTAATACGGAG	536		
Query 427	GGTGCAGCGTTAATCGGAATGACTGGGCGTAAAGGGCATGTAGGCGGATGATTAAGTTA	486		
Sbjct 537	GGTGCAGCGTTAATCGGAATGACTGGGCGTAAAGGGCATGTAGGCGGATAATTAAGTTA	596		

Query	487	GATGTGAAATCCCTGGGCTTAACCTAGGAATTGCATTTAAAACTGGTTATCTAGAGTATT	546
Sbjct	597	GGTGTGAAAGCCCTGGGCTCAACCTAGGAATTGCACTTAAAACTGGTTAACTAGAGTATT	656
Query	547	GTAGAGGAAGGTAGAATTCCATGTGTAGCGGTGAAATGCGTAGAGATGTGGAGGAATACC	606
Sbjct	657	GTAGAGGAAGGTAGAATTCCACGTGTAGCGGTGAAATGCGTAGAGATGTGGAGGAATACC	716
Query	607	GGTGGCGAAGGCGGCCTTCTGGACAGATACTGACGCTGAGATGCGAAAGCGTGGGGAGCA	666
Sbjct	717	GGTGGCGAAGGCGGCCTTCTGGACAGATACTGACGCTGAGATGCGAAAGCGTGGGGAGCA	776
Query	667	AACAGGATTAGATACCCTGGTAGTCCACGCTGTAAACGATGTCGATTTGGAGTTTGTTC	726
Sbjct	777	AACAGGATTAGATACCCTGGTAGTCCACGCTGTAAACGATGTCGATTTGGAGTTTGTTC	836
Query	727	CTAGAGTGATGGGCTCCGAAGCTAACGCGATAAATCGACCGCCTGGGGAGTACGGCCGCA	786
Sbjct	837	CTAGAGTGATGGGCTCCGAAGCTAACGCGATAAATCGACCGCCTGGGGAGTACGGCCGCA	896
Query	787	AGGTAAAACTCAAATGAATTGACGGGGGCCCCGCACA	823
Sbjct	897	AGGTAAAACTCAAATGAATTGACGGGGGCCCCGCACA	933

Orbus sasakiæ strain C7 16S ribosomal RNA, partial sequence

Sequence ID: [NR_109477.1](#) Length: 1301 Number of Matches: 1

See 1 more title(s) See all Identical Proteins (IPG)

Range 1: 91 to 906 GenBank Graphics Next Match Previous Match

Alignment statistics for match #1

Score	Expect	Identities	Gaps	Strand
1170 bits(633)	0.0	757/818(93%)	4/818(0%)	Plus/Plus
Query 8	GTATGGGGATCTGCCGAATGGAGGGGGACAACAGTTGGAAACGGCTGCTAATACCGCATA	67		
Sbjct 91	GTATGGGGATCTGCCGAATGGAGGGGGACAACAGTTGGAAACGACTGCTAATACCGCATA	150		
Query 68	ACGTCGAGAGACCAAAGGGTGGGACCTTCGGGCCACTTGCCATTTGATGAGCCCATATGA	127		
Sbjct 151	ATGTCGTAAGACCAAAGCGTGGGACTTTCGGGCCACGTACCATTTGATGAACCCATATGG	210		
Query 128	GATTAGCTAGTTGGTGTGGTAATGGCTACCAAGGCGACGATCTCTAGCTGGTTTGAGAG	187		
Sbjct 211	GATTAGCTAGTAGGTGGGGTAATGGCTACCTAGGCGACGATCTCTAGCTGGTCTGAGAG	270		
Query 188	GATGACCAGCCACACTGGGACTGAGACACGGCCCAGACTCCTACGGGAGGCAGCAGTGGG	247		
Sbjct 271	GATGACCAGCCACACTGGAAGTGGGACTGAGACACGGTCCAGACTCCTACGGGAGGCAGCAGTGGG	330		
Query 248	GAATATTGCACAATGGGGGAACCCTGATGCAGCCATGCCGCGTGTATGAAGAAGGCCTT	307		
Sbjct 331	GAATATTGCACAATGGGGGAAACCCTGATGCAGCCATGCCGCGTGTATGAAGAAGGCCTT	390		
Query 308	AGGGTTGTAAAGTACTTTTCGTGGAGGAGGAAGGGTTTAC-GTT-TAATAGGCGTGACAT	365		
Sbjct 391	AGGGTTGTAAAGTACTTTTCGGTAATGAGGAA-GG-TAACAATTCTAACAGGATTGTTAAT	448		
Query 366	TGACGTTACTCCAAGAAGAAGCACC GGCTAACTCCGTGCCAGCAGCCGCGGTAATACGGA	425		
Sbjct 449	TGACGTTAATTACAGAAGAAGCACC GGCTAACTCCGTGCCAGCAGCCGCGGTAATACGGA	508		
Query 426	GGGTGCGAGCGTTAATCGGAATGACTGGGCGTAAAGGGCATGTAGGCGGATGATTAAGTT	485		
Sbjct 509	GGGTGCGAGCGTTAATCGGAATGACTGGGCGTAAAGGGCATGTAGGCGGATGATTAAGTT	568		
Query 486	AGATGTGAAATCCCTGGGCTTAACCTAGGAATTGCATTTAAACTGGTTATCTAGAGTAT	545		
Sbjct 569	AGGTGTGAAAGCCCCGAGCTCAACTTGGGAATTGCACTTAAACTGGTCGTCTGGAGTAT	628		

Query	546	TGTAGAGGAAGGTAGAATTCCATGTGTAGCGGTGAAATGCGTAGAGATGTGGAGGAATAC	605
Sbjct	629	TGTAGAGGAAGGTAGAATTCCACGTGTAGCGGTGAAATGCGTAGAGATGTGGAGGAATAC	688
Query	606	CGGTGGCGAAGGCGGCCTTCTGGACAGATACTGACGCTGAGATGCGAAAGCGTGGGGAGC	665
Sbjct	689	CGGTGGCGAAGGCGGCCTTCTGGACAGATACTGACGCTGAGATGCGAAAGCGTGGGGAGC	748
Query	666	AAACAGGATTAGATACCCTGGTAGTCCACGCTGTAAACGATGTCGATTTGGAGTTTGTG	725
Sbjct	749	AAACAGGATTAGATACCCTGGTAGTCCACGCTGTAAACGATGTCGATTTGGAGTTTGGAG	808
Query	726	CCTAGAGTGATGGGCTCCGAAGCTAACGCGATAAATCGACCGCCTGGGGAGTACGGCCGC	785
Sbjct	809	GCATGACCTCTGGGCTCCGGAGCTAACGCATTAAATCGACCGCCTGGGGAGTACGGCCGC	868
Query	786	AAGGTAAAACTCAAATGAATTGACGGGGGCCGCACA	823
Sbjct	869	AAGGTAAAACTCAAATGAATTGACGGGGGCCGCACA	906