

BLAST Results

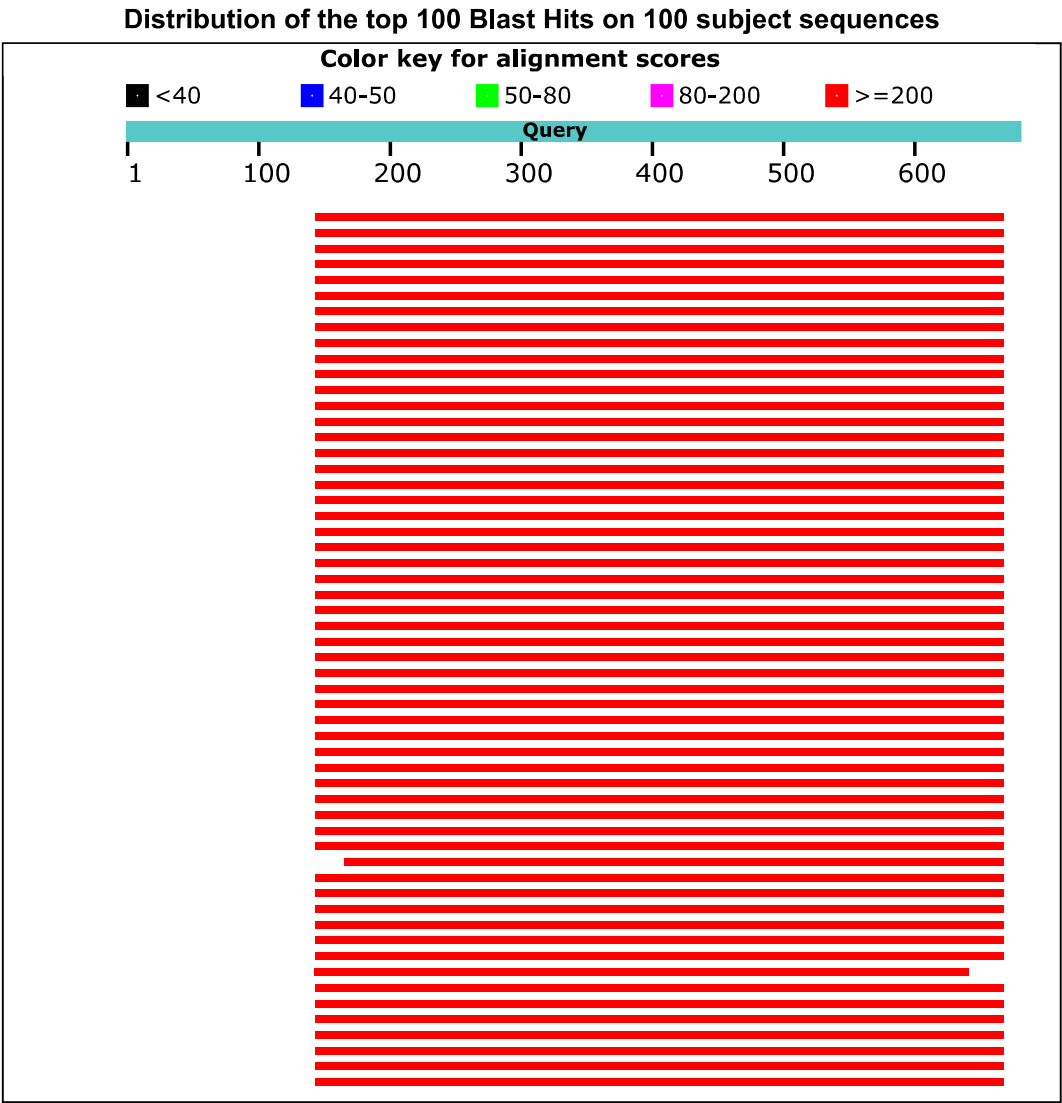
[Questions/comments](#)

Job title: Nucleotide Sequence

RID [J1CB9EUS016](#) (Expires on 09-15 00:35 am)

Query ID	Icl Query_49497	Database Name	nt
Description	None	Description	Nucleotide collection (nt)
Molecule type	dna	Program	BLASTN 2.13.0+
Query Length	665		

Graphic Summary.



Descriptions

Sequences producing significant alignments:

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
Equisetum palustre isolate 39349 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	900	900	78%	0.0	97.89%	MH750192.1
Equisetum palustre isolate 17671 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	900	900	78%	0.0	97.89%	MH750191.1
Equisetum palustre chloroplast, partial genome	900	900	78%	0.0	97.89%	MT984458.1
Equisetum palustre chloroplast rbcL gene for ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial cds, specimen_voucher: TNS:776981	900	900	78%	0.0	97.89%	AB574686.1
Equisetum palustre ribulose-1,5- bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	900	900	78%	0.0	97.89%	AY226138.1
Equisetum sylvaticum isolate 41081 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	889	889	78%	0.0	97.51%	MH750205.1
Equisetum sylvaticum isolate 11640 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	889	889	78%	0.0	97.51%	MH750204.1
Equisetum pratense isolate 41087 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	889	889	78%	0.0	97.51%	MH750195.1
Equisetum pratense isolate 41086 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	889	889	78%	0.0	97.51%	MH750194.1
Equisetum pratense isolate 39348 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	889	889	78%	0.0	97.51%	MH750193.1
Equisetum sylvaticum chloroplast rbcL gene for ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial cds, specimen_voucher: TNS:776974	889	889	78%	0.0	97.51%	AB574690.1
Equisetum pratense chloroplast rbcL gene for ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial cds, specimen_voucher: TNS:1107843	889	889	78%	0.0	97.51%	AB574687.1
Equisetum pratense ribulose-1,5- bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	889	889	78%	0.0	97.51%	AY226137.1

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
Equisetum sylvaticum ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	889	889	78%	0.0	97.51%	AY226136.1
Equisetum x litorale isolate 41084 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	878	878	78%	0.0	97.13%	MH750222.1
Equisetum x fontqueri isolate 26093 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	878	878	78%	0.0	97.13%	MH750221.1
Equisetum x dycei isolate 26083 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	878	878	78%	0.0	97.13%	MH750220.1
Equisetum telmateia subsp. telmateia isolate 11642 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	878	878	78%	0.0	97.13%	MH750210.1
Equisetum telmateia subsp. braunii isolate 40836 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	878	878	78%	0.0	97.13%	MH750209.1
Equisetum telmateia subsp. braunii isolate 40832 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	878	878	78%	0.0	97.13%	MH750208.1
Equisetum telmateia subsp. braunii isolate 40828 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	878	878	78%	0.0	97.13%	MH750207.1
Equisetum telmateia subsp. braunii isolate 40817 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	878	878	78%	0.0	97.13%	MH750206.1
Equisetum fluviatile isolate 41076 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	878	878	78%	0.0	97.13%	MH750169.1
Equisetum fluviatile isolate 41075 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	878	878	78%	0.0	97.13%	MH750168.1
Equisetum diffusum isolate 40689 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	878	878	78%	0.0	97.13%	MH750166.1
Equisetum arvense x Equisetum telmateia subsp. braunii isolate 40834 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	878	878	78%	0.0	97.13%	MH750161.1
Equisetum arvense subsp. boreale isolate 41074 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	878	878	78%	0.0	97.13%	MH750160.1
Equisetum arvense subsp. boreale isolate 41073 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	878	878	78%	0.0	97.13%	MH750159.1

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
Equisetum arvense subsp. arvense isolate 41071 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	878	878	78%	0.0	97.13%	MH750158.1
Equisetum arvense subsp. arvense isolate 40833 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	878	878	78%	0.0	97.13%	MH750157.1
Equisetum arvense subsp. arvense isolate 26085 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	878	878	78%	0.0	97.13%	MH750156.1
Equisetum arvense subsp. arvense isolate 26084 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	878	878	78%	0.0	97.13%	MH750155.1
Equisetum environmental sample isolate EDNA16-0043490 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	878	878	78%	0.0	97.13%	MT197555.1
Equisetum fluviatile chloroplast rbcL gene for ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial cds, specimen_voucher: TNS:776384	878	878	78%	0.0	97.13%	AB574684.1
Equisetum arvense chloroplast, complete genome	878	878	78%	0.0	97.13%	GU191334.1
Equisetum fluviatile ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	878	878	78%	0.0	97.13%	DQ463101.1
Equisetum fluviatile ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	878	878	78%	0.0	97.13%	AY226142.1
Equisetum arvense ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	878	878	78%	0.0	97.13%	AY226140.1
Equisetum telmateia subsp. braunii ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	878	878	78%	0.0	97.13%	AY226135.1
Equisetum telmateia ribulose-1,5-bisphosphate carboxylase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	878	878	78%	0.0	97.13%	AF313580.1
Equisetum arvense chloroplast ribulosebisphosphate carboxylase (rbcL) gene, complete cds	878	878	78%	0.0	97.13%	L11053.1
Equisetum telmateia subsp. telmateia isolate 41082 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	874	874	75%	0.0	98.40%	MH750211.1
Equisetum arvense ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	872	872	78%	0.0	96.93%	KM218345.1

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
Equisetum environmental sample isolate EDNA16-0043491b ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	872	872	78%	0.0	96.93%	MT197548.1
Equisetum arvense plastid, complete genome	872	872	78%	0.0	96.93%	JN968380.1
Equisetum arvense chloroplast rbcL gene for ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial cds, specimen_voucher: TNS:763618	872	872	78%	0.0	96.93%	AB574683.1
Equisetum diffusum isolate 40804 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	867	867	78%	0.0	96.74%	MH750167.1
Equisetum diffusum ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	867	867	78%	0.0	96.74%	AY226141.1
Equisetum arvense voucher JAG288 (OAC) ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	846	846	74%	0.0	97.58%	EU677106.1
Equisetum scirpoides isolate 41089 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	833	833	78%	0.0	95.59%	MH750203.1
Equisetum scirpoides isolate 26090 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	833	833	78%	0.0	95.59%	MH750202.1
Equisetum scirpoides isolate 10933 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	833	833	78%	0.0	95.59%	MH750201.1
Equisetum komarovii isolate 40830 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	833	833	78%	0.0	95.59%	MH750182.1
Equisetum scirpoides chloroplast rbcL gene for ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial cds, specimen_voucher: TNS:768168	833	833	78%	0.0	95.59%	AB574689.1
Equisetum scirpoides ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	833	833	78%	0.0	95.59%	AY226133.1
Equisetum x schaffneri isolate 40814 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	828	828	78%	0.0	95.40%	MH750225.1
Equisetum myriochaetum isolate 41080 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	828	828	78%	0.0	95.40%	MH750190.1

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
Equisetum myriochaetum isolate 40936 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	828	828	78%	0.0	95.40%	MH750189.1
Equisetum myriochaetum isolate 40826 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	828	828	78%	0.0	95.40%	MH750188.1
Equisetum myriochaetum isolate 40825 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	828	828	78%	0.0	95.40%	MH750187.1
Equisetum myriochaetum isolate 40816 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	828	828	78%	0.0	95.40%	MH750186.1
Equisetum myriochaetum isolate 40815 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	828	828	78%	0.0	95.40%	MH750185.1
Equisetum myriochaetum isolate 26088 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	828	828	78%	0.0	95.40%	MH750184.1
Equisetum laevigatum isolate 40812 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	828	828	78%	0.0	95.40%	MH750183.1
Equisetum sp. Schuettpeiz 1643 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	828	828	78%	0.0	95.40%	MW620286.1
Equisetum pratense voucher AP451 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	828	828	72%	0.0	97.53%	HQ590083.1
Equisetum x ferrissii ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	828	828	78%	0.0	95.40%	EU352292.1
Equisetum arvense voucher AP400 (OAC) ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	828	828	72%	0.0	97.53%	EU677105.1
Equisetum myriochaetum ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	828	828	78%	0.0	95.40%	AY226131.1
Equisetum laevigatum ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	828	828	78%	0.0	95.40%	AY226130.1
Equisetum x ferrissii ribulose-1,5-bisphosphate carboxylase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	828	828	78%	0.0	95.40%	AF313579.1
Equisetum xylochaetum isolate 40614 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	822	822	78%	0.0	95.21%	MH750228.1

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
Equisetum x schaffneri isolate 40824 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	822	822	78%	0.0	95.21%	MH750226.1
Equisetum x schaffneri isolate 40813 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	822	822	78%	0.0	95.21%	MH750224.1
Equisetum giganteum isolate 40811 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	822	822	78%	0.0	95.21%	MH750176.1
Equisetum giganteum isolate 40809 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	822	822	78%	0.0	95.21%	MH750175.1
Equisetum giganteum isolate 40807 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	822	822	78%	0.0	95.21%	MH750173.1
Equisetum giganteum isolate 40806 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	822	822	78%	0.0	95.21%	MH750172.1
Equisetum giganteum isolate 40805 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	822	822	78%	0.0	95.21%	MH750171.1
Equisetum giganteum isolate 26087 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	822	822	78%	0.0	95.21%	MH750170.1
Equisetum xylochaetum chloroplast, complete genome	822	822	78%	0.0	95.21%	MW282958.1
Equisetum giganteum ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	822	822	78%	0.0	95.21%	AY226127.1
Equisetum environmental sample IRbL.E3 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	821	821	69%	0.0	98.70%	JQ007379.1
Equisetum trachyodon isolate 41092 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	817	817	78%	0.0	95.02%	MH750227.1
Equisetum hyemale subsp. hyemale isolate 41088 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	817	817	78%	0.0	95.02%	MH750181.1
Equisetum hyemale subsp. hyemale isolate 23252 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	817	817	78%	0.0	95.02%	MH750180.1
Equisetum hyemale subsp. hyemale isolate 20201 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	817	817	78%	0.0	95.02%	MH750179.1

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
Equisetum hyemale subsp. affine isolate 41501 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	817	817	78%	0.0	95.02%	MH750178.1
Equisetum hyemale subsp. affine isolate 40831 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	817	817	78%	0.0	95.02%	MH750177.1
Equisetum hyemale subsp. affine voucher OAC 94916 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	817	817	78%	0.0	95.02%	KF186500.1
Equisetum hyemale chloroplast, complete genome	817	817	78%	0.0	95.02%	KC117177.1
Equisetum hyemale chloroplast rbcL gene for ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial cds, specimen_voucher: TNS:765859	817	817	78%	0.0	95.02%	AB574685.1
Equisetum hyemale subsp. affine ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	817	817	78%	0.0	95.02%	AY226128.1
Equisetum giganteum isolate 40808 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	811	811	78%	0.0	94.83%	MH750174.1
Equisetum variegatum chloroplast rbcL gene for ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial cds, specimen_voucher: TNS:768164	811	811	78%	0.0	94.85%	AB574691.1
Equisetum ramosissimum subsp. debile isolate 40829 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	806	806	78%	0.0	94.64%	MH750200.1
Equisetum ramosissimum isolate BTPPS123 voucher LISE:96444 chloroplast, complete genome	806	806	78%	0.0	94.64%	ON641349.1
Equisetum ramosissimum isolate BTPPS056 voucher LISE:96334 chloroplast, complete genome	806	806	78%	0.0	94.64%	NC_062377.1
Equisetum ramosissimum isolate BTPPS056 voucher LISE:96334 chloroplast, complete genome	806	806	78%	0.0	94.64%	QM691674.1
Equisetum ramosissimum subsp. debile voucher G.M. Plunkett 3642 (NYBG) ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	806	806	78%	0.0	94.64%	MT657901.1

Alignments

Equisetum palustre isolate 39349 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid
Sequence ID: **MH750192.1** Length: 1298 Number of Matches: 1
Range 1: 97 to 615

Score	Expect	Identities	Gaps	Strand	Frame
900 bits(487)	0.0()	511/522(98%)	3/522(0%)	Plus/Plus	
Features:					
Query 144	GAAGAAGAAGGAGCAGAGCTATTTGCTGAATCGTCCACGGGCACCTGGACTACCGTATGG	203			
Sbjct 97	GAAGAAGCAGGAGCAGCCGTAGCTGCTGAATCGTCCACGGGCACCTGGACTACCGTATGG	156			
Query 204	ACAGATGGACTTACTAGTCTTGATCGATATAAAGGTCGATGCTATAATATTGAACCTGTT	263			
Sbjct 157	ACAGATGGACTTACTAGTCTTGATCGATATAAAGGTCGATGCTATAATATTGAACCTGTT	216			
Query 264	GCTGGAGAAGATAATCAATTCATAGCTTATGTAGCCTATCCTTTAGATCTTTTTGAAGAA	323			
Sbjct 217	GCTGGAGAAGATAATCAATTCATAGCTTATGTAGCCTATCCTTTAGATCTTTTTGAAGAA	276			
Query 324	GGTTCTGTTACCAATCTTTTTACTTCAATTGTTGGTAATGTTTTCGGCTTCAAAGCTCTA	383			
Sbjct 277	GGTTCTGTTACCAATCTTTTTACTTCAATTGTTGGTAATGTTTTCGGCTTCAAAGCTCTA	336			
Query 384	CGTGCTTTACGTTTGAAGATTTAAGAATTCCTCCTGCTTACTCCAAAACCTTTATAGGA	443			
Sbjct 337	CGTGCTTTACGTTTGAAGATTTAAGAATTCCTCCTGCTTACTCCAAAACCTTTATAGGA	396			
Query 444	CCACCCACGGTATCCAGGTTGAAAGAGATAAGTTAAACAAATATGGTCGTCCTTTATTA	503			
Sbjct 397	CCACCCACGGTATCCAGGTTGAAAGAGATAAGTTAAACAAATATGGTCGTCCTTTATTA	456			
Query 504	GGTTGTACAATTAACCAAAAATTGGGACTATCTGCTAAAAACTATGGTAGGGGCTGTTT	563			
Sbjct 457	GGTTGTACAATTAACCAAAAATTGGGACTATCTGCTAAAAACTATGGTA-GGGCTGTTT	514			
Query 564	ATGAATGTCTTCGTGGTGGACTTGATTTACCAAAGATGATGAGAATGTAAACTCTCAAC	623			
Sbjct 515	ATGAATGTCTTCGTGGTGGACTTGATTTACCAAAGATGATGAGAATGTAAACTCTCAAC	574			
Query 624	CCTTTATGCGTTGGAGAGATCGATTCTTATTTTGTAGCAGAA	665			
Sbjct 575	CCTTTATGCGTTGGAGAGATCGTTTCTTATTC-GTAGCAGAA	615			

Equisetum palustre isolate 17671 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; plastid
Sequence ID: **MH750191.1** Length: 1292 Number of Matches: 1
Range 1: 98 to 616

Score	Expect	Identities	Gaps	Strand	Frame
900 bits(487)	0.0()	511/522(98%)	3/522(0%)	Plus/Plus	
Features:					
Query 144	GAAGAAGAAGGAGCAGAGCTATTTGCTGAATCGTCCACGGGCACCTGGACTACCGTATGG	203			
Sbjct 98	GAAGAAGCAGGAGCAGCCGTAGCTGCTGAATCGTCCACGGGCACCTGGACTACCGTATGG	157			
Query 204	ACAGATGGACTTACTAGTCTTGATCGATATAAAGGTCGATGCTATAATATTGAACCTGTT	263			
Sbjct 158	ACAGATGGACTTACTAGTCTTGATCGATATAAAGGTCGATGCTATAATATTGAACCTGTT	217			
Query 264	GCTGGAGAAGATAATCAATTCATAGCTTATGTAGCCTATCCTTTAGATCTTTTTGAAGAA	323			
Sbjct 218	GCTGGAGAAGATAATCAATTCATAGCTTATGTAGCCTATCCTTTAGATCTTTTTGAAGAA	277			
Query 324	GGTTCTGTTACCAATCTTTTTACTTCAATTGTTGGTAATGTTTTCGGCTTCAAAGCTCTA	383			
Sbjct 278	GGTTCTGTTACCAATCTTTTTACTTCAATTGTTGGTAATGTTTTCGGCTTCAAAGCTCTA	337			
Query 384	CGTGCTTTACGTTTGAAGATTTAAGAATTCCTCCTGCTTACTCCAAAACCTTTATAGGA	443			
Sbjct 338	CGTGCTTTACGTTTGAAGATTTAAGAATTCCTCCTGCTTACTCCAAAACCTTTATAGGA	397			
Query 444	CCACCCACGGTATCCAGGTTGAAAGAGATAAGTTAAACAAATATGGTCGTCCTTTATTA	503			
Sbjct 398	CCACCCACGGTATCCAGGTTGAAAGAGATAAGTTAAACAAATATGGTCGTCCTTTATTA	457			
Query 504	GGTTGTACAATTAACCAAAAATTGGGACTATCTGCTAAAAACTATGGTAGGGGCTGTTT	563			
Sbjct 458	GGTTGTACAATTAACCAAAAATTGGGACTATCTGCTAAAAACTATGGTA-GGGCTGTTT	515			
Query 564	ATGAATGTCTTCGTGGTGGACTTGATTTACCAAAGATGATGAGAATGTAAACTCTCAAC	623			
Sbjct 516	ATGAATGTCTTCGTGGTGGACTTGATTTACCAAAGATGATGAGAATGTAAACTCTCAAC	575			
Query 624	CCTTTATGCGTTGGAGAGATCGATTCTTATTTTGTAGCAGAA	665			
Sbjct 576	CCTTTATGCGTTGGAGAGATCGTTTCTTATTC-GTAGCAGAA	616			

Equisetum palustre chloroplast, partial genome

Sequence ID: **MT984458.1** Length: 5501 Number of Matches: 1
Range 1: 2363 to 2881

Score	Expect	Identities	Gaps	Strand	Frame
900 bits(487)	0.0()	511/522(98%)	3/522(0%)	Plus/Plus	

Features:

Query	144	GAAGAAGAAGGAGCAGAGCTATTTGCTGAATCGTCCACGGGCACCTGGACTACCGTATGG	203
Sbjct	2363	GAAGAAGCAGGAGCAGCCGTAGCTGCTGAATCGTCCACGGGCACCTGGACTACCGTATGG	2422
Query	204	ACAGATGGACTTACTAGTCTTGATCGATATAAAGGTCGATGCTATAATATTGAACCTGTT	263
Sbjct	2423	ACAGATGGACTTACTAGTCTTGATCGATATAAAGGTCGATGCTATAATATTGAACCTGTT	2482
Query	264	GCTGGAGAAGATAATCAATTCATAGCTTATGTAGCCTATCCTTTAGATCTTTTTGAAGAA	323
Sbjct	2483	GCTGGAGAAGATAATCAATTCATAGCTTATGTAGCCTATCCTTTAGATCTTTTTGAAGAA	2542
Query	324	GGTTCTGTTACCAATCTTTTTACTTCAATTGTTGGTAATGTTTTCGGCTTCAAAGCTCTA	383
Sbjct	2543	GGTTCTGTTACCAATCTTTTTACTTCAATTGTTGGTAATGTTTTCGGCTTCAAAGCTCTA	2602
Query	384	CGTGCTTTACGTTTGAAGATTTAAGAATTCCTCCTGCTTACTCCAAAACCTTTTATAGGA	443
Sbjct	2603	CGTGCTTTACGTTTGAAGATTTAAGAATTCCTCCTGCTTACTCCAAAACCTTTTATAGGA	2662
Query	444	CCACCCACGGTATCCAGGTTGAAAGAGATAAGTTAAACAAATATGGTCGTCCTTTATTA	503
Sbjct	2663	CCACCCACGGTATCCAGGTTGAAAGAGATAAGTTAAACAAATATGGTCGTCCTTTATTA	2722
Query	504	GGTTGTACAATTAACCAAAAATTGGGACTATCTGCTAAAACTATGGTAGGGGCTGTTT	563
Sbjct	2723	GGTTGTACAATTAACCC-AAAATTGGGACTATCTGCTAAAACTATGGTA-GGGCTGTTT	2780
Query	564	ATGAATGTCTTCGTGGTGGACTTGATTTACCAAAAGATGATGAGAATGTAAACTCTCAAC	623
Sbjct	2781	ATGAATGTCTTCGTGGTGGACTTGATTTACCAAAAGATGATGAGAATGTAAACTCTCAAC	2840
Query	624	CCTTTATGCGTTGGAGAGATCGATTCTATTTTGTAGCAGAA	665
Sbjct	2841	CCTTTATGCGTTGGAGAGATCGTTTCTTATTC-GTAGCAGAA	2881

Equisetum palustre chloroplast rbcL gene for ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial cds,
specimen_voucher: TNS:776981

Sequence ID: **AB574686.1** Length: 1205 Number of Matches: 1
Range 1: 79 to 597

Score	Expect	Identities	Gaps	Strand	Frame
900 bits(487)	0.0()	511/522(98%)	3/522(0%)	Plus/Plus	

Features:

Query	144	GAAGAAGAAGGAGCAGAGCTATTTGCTGAATCGTCCACGGGCACCTGGACTACCGTATGG	203
Sbjct	79	GAAGAAGCAGGAGCAGCCGTAGCTGCTGAATCGTCCACGGGCACCTGGACTACCGTATGG	138
Query	204	ACAGATGGACTTACTAGTCTTGATCGATATAAAGGTCGATGCTATAATATTGAACCTGTT	263
Sbjct	139	ACAGATGGACTTACTAGTCTTGATCGATATAAAGGTCGATGCTATAATATTGAACCTGTT	198
Query	264	GCTGGAGAAGATAATCAATTCATAGCTTATGTAGCCTATCCTTTAGATCTTTTTGAAGAA	323
Sbjct	199	GCTGGAGAAGATAATCAATTCATAGCTTATGTAGCCTATCCTTTAGATCTTTTTGAAGAA	258
Query	324	GGTTCTGTTACCAATCTTTTTACTTCAATTGTTGGTAATGTTTTCGGCTTCAAAGCTCTA	383
Sbjct	259	GGTTCTGTTACCAATCTTTTTACTTCAATTGTTGGTAATGTTTTCGGCTTCAAAGCTCTA	318
Query	384	CGTGCTTTACGTTTGAAGATTTAAGAATTCCTCCTGCTTACTCCAAAACCTTTTATAGGA	443
Sbjct	319	CGTGCTTTACGTTTGAAGATTTAAGAATTCCTCCTGCTTACTCCAAAACCTTTTATAGGA	378
Query	444	CCACCCACGGTATCCAGGTTGAAAGAGATAAGTTAAACAAATATGGTCGTCCTTTATTA	503
Sbjct	379	CCACCCACGGTATCCAGGTTGAAAGAGATAAGTTAAACAAATATGGTCGTCCTTTATTA	438

Query 504 GGTGTGACAATTAAACCAAAAATTGGGACTATCTGCTAAAAACTATGGTAGGGGCTGTTT 563
 Sbjct 439 GGTGTGACAATTAAACC-AAAATTGGGACTATCTGCTAAAAACTATGGTA-GGGCTGTTT 496
 Query 564 ATGAATGTCCTTCGTGGTGGACTTGATTTACCAAAGATGATGAGAATGTAACTCTCAAC 623
 Sbjct 497 ATGAATGTCCTTCGTGGTGGACTTGATTTACCAAAGATGATGAGAATGTAACTCTCAAC 556
 Query 624 CCTTTATGCGTTGGAGAGATCGATTCTTATTTGTAGCAGAA 665
 Sbjct 557 CCTTTATGCGTTGGAGAGATCGTTTCTTATTC-GTAGCAGAA 597

Equisetum palustre ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product

Sequence ID: **AY226138.1** Length: 1325 Number of Matches: 1

Range 1: 125 to 643

Score	Expect	Identities	Gaps	Strand	Frame
900 bits(487)	0.0()	511/522(98%)	3/522(0%)	Plus/Plus	

Features:

Query 144 GAAGAAGAAGGAGCAGAGCTATTGCTGAATCGTCCACGGGCACCTGGACTACCGTATGG 203
 Sbjct 125 GAAGAAGCAGGAGCAGCCGTAGCTGCTGAATCGTCCACGGGCACCTGGACTACCGTATGG 184
 Query 204 ACAGATGGACTTACTAGTCTTGATCGATATAAAGGTCGATGCTATAATATTGAACCTGTT 263
 Sbjct 185 ACAGATGGACTTACTAGTCTTGATCGATATAAAGGTCGATGCTATAATATTGAACCTGTT 244
 Query 264 GCTGGAGAAGATAATCAATTCATAGCTTATGTAGCCTATCCTTTAGATCTTTTGAAGAA 323
 Sbjct 245 GCTGGAGAAGATAATCAATTCATAGCTTATGTAGCCTATCCTTTAGATCTTTTGAAGAA 304
 Query 324 GGTTCTGTTACCAATCTTTTACTTCAATTGTTGGTAATGTTTTCGGCTTCAAAGCTCTA 383
 Sbjct 305 GGTTCTGTTACCAATCTTTTACTTCAATTGTTGGTAATGTTTTCGGCTTCAAAGCTCTA 364
 Query 384 CGTGCTTTACGTTTGAAGATTTAAGAATTCCTCCTGCTTACTCCAAAACCTTTATAGGA 443
 Sbjct 365 CGTGCTTTACGTTTGAAGATTTAAGAATTCCTCCTGCTTACTCCAAAACCTTTATAGGA 424
 Query 444 CCACCCACCGGTATCCAGGTTGAAAGAGATAAGTTAAACAAATATGGTCGTCCTTTATTA 503
 Sbjct 425 CCACCCACCGGTATCCAGGTTGAAAGAGATAAGTTAAACAAATATGGTCGTCCTTTATTA 484
 Query 504 GGTGTGACAATTAAACCAAAAATTGGGACTATCTGCTAAAAACTATGGTAGGGGCTGTTT 563
 Sbjct 485 GGTGTGACAATTAAACC-AAAATTGGGACTATCTGCTAAAAACTATGGTA-GGGCTGTTT 542
 Query 564 ATGAATGTCCTTCGTGGTGGACTTGATTTACCAAAGATGATGAGAATGTAACTCTCAAC 623
 Sbjct 543 ATGAATGTCCTTCGTGGTGGACTTGATTTACCAAAGATGATGAGAATGTAACTCTCAAC 602
 Query 624 CCTTTATGCGTTGGAGAGATCGATTCTTATTTGTAGCAGAA 665
 Sbjct 603 CCTTTATGCGTTGGAGAGATCGTTTCTTATTC-GTAGCAGAA 643

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