

BLAST Results

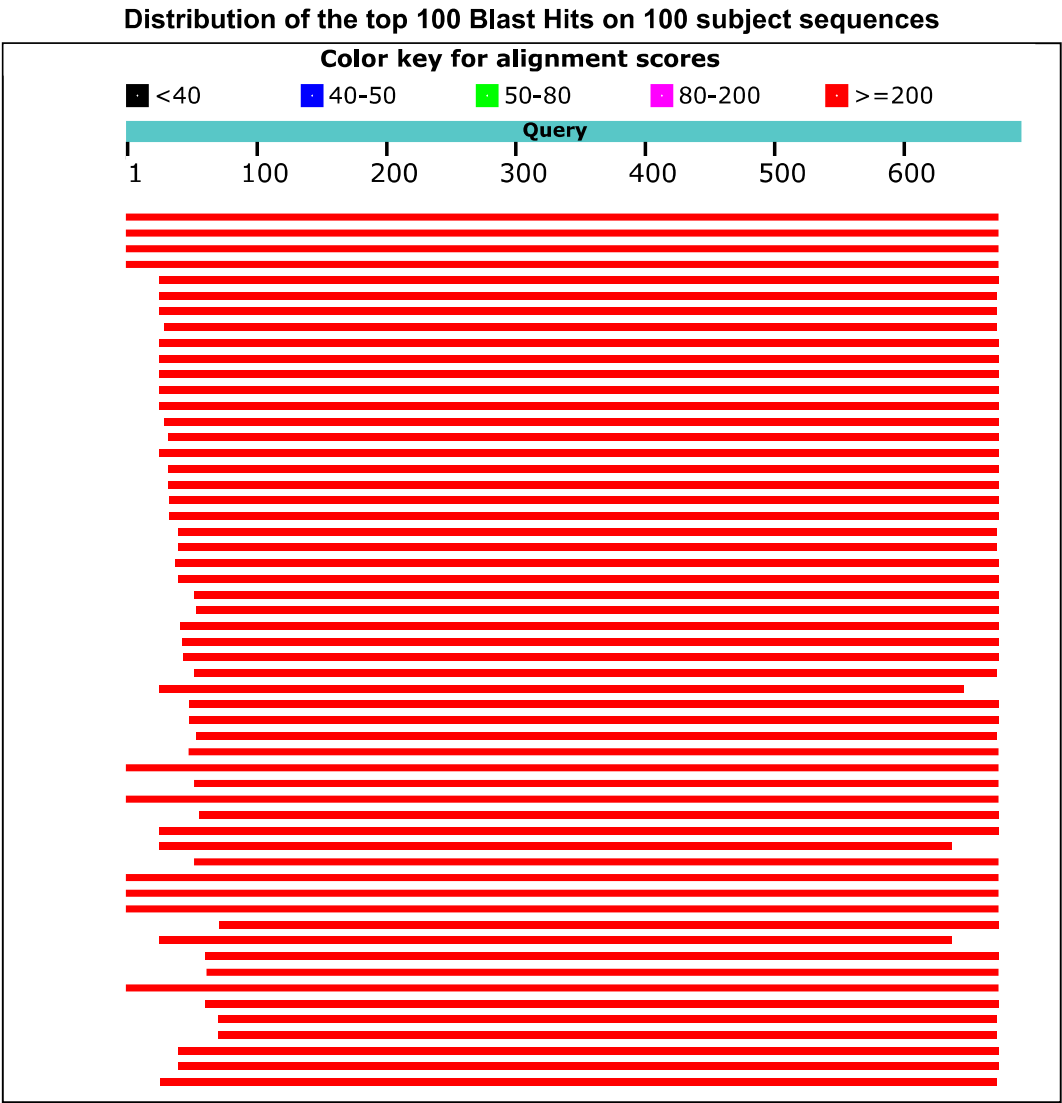
[Questions/comments](#)

Job title: Nucleotide Sequence

RID [J1BFPYK9013](#) (Expires on 09-15 00:21 am)

Query ID	Icl Query_56843	Database Name	nt
Description	None	Description	Nucleotide collection (nt)
Molecule type	dna	Program	BLASTN 2.13.0+
Query Length	674		

Graphic Summary.



Descriptions

Sequences producing significant alignments:

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
Equisetum palustre chloroplast, partial genome	1216	1216	99%	0.0	99.40%	MT984458.1
Equisetum arvense chloroplast, complete genome	1194	1194	99%	0.0	98.81%	GU191334.1
Equisetum arvense chloroplast ribulosebisphosphate carboxylase (rbcL) gene, complete cds	1194	1194	99%	0.0	98.81%	L11053.1
Equisetum arvense plastid, complete genome	1188	1188	99%	0.0	98.66%	JN968380.1
Equisetum palustre ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	1179	1179	95%	0.0	99.69%	AY226138.1
Equisetum pratense ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	1166	1166	95%	0.0	99.38%	AY226137.1
Equisetum sylvaticum ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	1166	1166	95%	0.0	99.38%	AY226136.1
Equisetum sylvaticum isolate 11640 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1158	1158	94%	0.0	99.37%	MH750204.1
Equisetum environmental sample isolate EDNA16-0043490 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1157	1157	95%	0.0	99.07%	MT197555.1
Equisetum fluviatile ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	1157	1157	95%	0.0	99.07%	AY226142.1
Equisetum arvense ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	1157	1157	95%	0.0	99.07%	AY226140.1
Equisetum telmateia subsp. braunii ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	1157	1157	95%	0.0	99.07%	AY226135.1
Equisetum environmental sample isolate EDNA16-0043491b ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1151	1151	95%	0.0	98.91%	MT197548.1
Equisetum telmateia subsp. telmateia isolate 11642 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1149	1149	94%	0.0	99.06%	MH750210.1

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
Equisetum arvense subsp. boreale isolate 41074 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; plastid	1146	1146	94%	0.0	99.06%	MH750160.1
Equisetum diffusum ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; chloroplast gene for chloroplast product	1146	1146	95%	0.0	98.76%	AY226141.1
Equisetum x dycei isolate 26083 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; plastid	1144	1144	94%	0.0	99.06%	MH750220.1
Equisetum telmateia ribulose-1,5-bisphosphate carboxylase large subunit (rbcl) gene, partial cds; chloroplast gene for chloroplast product	1144	1144	94%	0.0	99.06%	AF313580.1
Equisetum fluviatile isolate 41076 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; plastid	1142	1142	94%	0.0	99.06%	MH750169.1
Equisetum fluviatile isolate 41075 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; plastid	1142	1142	94%	0.0	99.06%	MH750168.1
Equisetum sylvaticum isolate 41081 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; plastid	1138	1138	93%	0.0	99.36%	MH750205.1
Equisetum pratense isolate 41087 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; plastid	1138	1138	93%	0.0	99.36%	MH750195.1
Equisetum arvense subsp. boreale isolate 41073 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; plastid	1134	1134	93%	0.0	99.05%	MH750159.1
Equisetum telmateia subsp. braunii isolate 40828 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; plastid	1129	1129	93%	0.0	99.05%	MH750207.1
Equisetum palustre isolate 17671 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; plastid	1129	1129	91%	0.0	99.68%	MH750191.1
Equisetum palustre isolate 39349 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; plastid	1127	1127	91%	0.0	99.68%	MH750192.1
Equisetum arvense subsp. arvense isolate 41071 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; plastid	1127	1127	93%	0.0	99.04%	MH750158.1
Equisetum x fontqueri isolate 26093 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; plastid	1125	1125	93%	0.0	99.04%	MH750221.1
Equisetum x litorale isolate 41084 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; plastid	1122	1122	92%	0.0	99.04%	MH750222.1

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
Equisetum pratense isolate 41086 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1118	1118	91%	0.0	99.35%	MH750194.1
Equisetum arvense voucher JAG288 (OAC) ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1118	1118	91%	0.0	99.35%	EU677106.1
Equisetum telmateia subsp. braunii isolate 40832 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1116	1116	92%	0.0	99.04%	MH750208.1
Equisetum arvense subsp. arvense isolate 26085 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1116	1116	92%	0.0	99.04%	MH750156.1
Equisetum pratense isolate 39348 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1114	1114	91%	0.0	99.35%	MH750193.1
Equisetum diffusum isolate 40689 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1110	1110	92%	0.0	98.87%	MH750166.1
Equisetum xylochaetum chloroplast, complete genome	1110	1110	99%	0.0	96.57%	MW282958.1
Equisetum arvense subsp. arvense isolate 26084 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1109	1109	91%	0.0	99.03%	MH750155.1
Equisetum hyemale chloroplast, complete genome	1105	1105	99%	0.0	96.42%	KC117177.1
Equisetum arvense subsp. arvense isolate 40833 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1101	1101	91%	0.0	99.02%	MH750157.1
Equisetum scirpoides ribulose-1,5- bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	1101	1101	95%	0.0	97.52%	AY226133.1
Equisetum arvense voucher AP400 (OAC) ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1099	1099	90%	0.0	99.34%	EU677105.1
Equisetum diffusum isolate 40804 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1098	1098	91%	0.0	98.71%	MH750167.1
Equisetum ramosissimum isolate BPTPS123 voucher LISE:96444 chloroplast, complete genome	1094	1094	99%	0.0	96.12%	ON641349.1
Equisetum ramosissimum isolate BPTPS056 voucher LISE:96334 chloroplast, complete genome	1094	1094	99%	0.0	96.12%	NC_062377.1
Equisetum ramosissimum isolate BPTPS056 voucher LISE:96334 chloroplast, complete genome	1094	1094	99%	0.0	96.12%	OM691674.1

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
Equisetum palustre chloroplast rbcL gene for ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial cds, specimen_voucher: TNS:776981	1094	1094	88%	0.0	99.67%	AB574686.1
Equisetum pratense voucher AP451 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1092	1092	90%	0.0	99.01%	HQ590083.1
Equisetum fluviatile ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1092	1092	90%	0.0	99.01%	DQ463101.1
Equisetum arvense x Equisetum telmateia subsp. braunii isolate 40834 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1090	1090	90%	0.0	99.01%	MH750161.1
Equisetum hyemale ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1090	1090	99%	0.0	95.97%	DQ646001.1
Equisetum arvense ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1088	1088	90%	0.0	98.85%	KM218345.1
Equisetum sylvaticum chloroplast rbcL gene for ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial cds, specimen_voucher: TNS:776974	1081	1081	88%	0.0	99.33%	AB574690.1
Equisetum pratense chloroplast rbcL gene for ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial cds, specimen_voucher: TNS:1107843	1081	1081	88%	0.0	99.33%	AB574687.1
Equisetum scirpoides isolate 41089 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1079	1079	93%	0.0	97.62%	MH750203.1
Equisetum komarovii isolate 40830 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1079	1079	93%	0.0	97.62%	MH750182.1
Equisetum bogotense ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	1075	1075	95%	0.0	96.88%	AY226139.1
Equisetum myriochaetum ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	1074	1074	95%	0.0	96.74%	AY226131.1
Equisetum giganteum ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	1074	1074	95%	0.0	96.74%	AY226127.1
Equisetum sp. Schuettpeiz 1643 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1072	1072	95%	0.0	96.73%	MW620286.1

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
Equisetum fluviatile chloroplast rbcL gene for ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial cds, specimen_voucher: TNS:776384	1072	1072	88%	0.0	99.00%	AB574684.1
Equisetum laevigatum ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	1070	1070	95%	0.0	96.73%	AY226130.1
Equisetum scirpoides isolate 26090 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1068	1068	93%	0.0	97.30%	MH750202.1
Equisetum hyemale subsp. affine voucher OAC 94916 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1068	1068	95%	0.0	96.58%	KF186500.1
Equisetum hyemale subsp. affine ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	1068	1068	95%	0.0	96.58%	AY226128.1
Equisetum giganteum isolate 40806 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1066	1066	94%	0.0	96.72%	MH750172.1
Equisetum giganteum isolate 26087 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1066	1066	94%	0.0	96.72%	MH750170.1
Equisetum ramosissimum voucher R825 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1066	1066	96%	0.0	96.30%	KY656709.1
Equisetum arvense chloroplast rbcL gene for ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial cds, specimen_voucher: TNS:763618	1066	1066	88%	0.0	98.83%	AB574683.1
Equisetum x ferrissii ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1066	1066	94%	0.0	96.72%	EU352292.1
Equisetum x ferrissii ribulose-1,5-bisphosphate carboxylase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	1064	1064	94%	0.0	96.71%	AF313579.1
Equisetum scirpoides isolate 10933 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1059	1059	91%	0.0	97.57%	MH750201.1
Equisetum ramosissimum subsp. debile voucher G.M. Plunkett 3642 (NYBG) ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1057	1057	95%	0.0	96.27%	MT657901.1
Equisetum ramosissimum subsp. debile ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	1057	1057	95%	0.0	96.27%	AY226132.1

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
Equisetum myriochaetum isolate 40815 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1053	1053	94%	0.0	96.55%	MH750185.1
Equisetum scirpoides voucher AP248 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1050	1050	90%	0.0	97.86%	HQ590084.1
Equisetum xylochaetum isolate 40614 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1046	1046	93%	0.0	96.66%	MH750228.1
Equisetum myriochaetum isolate 41080 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1046	1046	93%	0.0	96.66%	MH750190.1
Equisetum myriochaetum isolate 40826 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1046	1046	93%	0.0	96.66%	MH750188.1
Equisetum sylvaticum voucher TJD-502 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1046	1046	84%	0.0	99.82%	KJ841305.1
Equisetum x schaffneri isolate 40813 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1044	1044	93%	0.0	96.66%	MH750224.1
Equisetum giganteum isolate 40811 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1042	1042	93%	0.0	96.65%	MH750176.1
Equisetum hyemale subsp. hyemale isolate 41088 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1040	1040	93%	0.0	96.50%	MH750181.1
Equisetum variegatum ribulose-1,5- bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast gene for chloroplast product	1040	1040	95%	0.0	95.81%	AY226134.1
Equisetum bogotense isolate 40800 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1037	1037	92%	0.0	96.78%	MH750162.1
Equisetum arvense voucher TJD-508 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1037	1037	84%	0.0	99.47%	KJ841301.1
Equisetum arvense voucher TJD-503 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1035	1035	84%	0.0	99.47%	KJ841302.1
Equisetum giganteum isolate 40807 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1033	1033	92%	0.0	96.62%	MH750173.1
Equisetum arvense voucher TJD-504 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1033	1033	84%	0.0	99.47%	KJ841300.1

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
Equisetum trachyodon isolate 41092 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1029	1029	92%	0.0	96.33%	MH750227.1
Equisetum ramosissimum subsp. debile isolate 40829 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1029	1029	93%	0.0	96.18%	MH750200.1
Equisetum myriochaetum isolate 40936 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1029	1029	91%	0.0	96.61%	MH750189.1
Equisetum hyemale voucher AP344 (OAC) ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1029	1029	91%	0.0	96.76%	EU677107.1
Equisetum hyemale subsp. affine isolate 40831 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1027	1027	92%	0.0	96.46%	MH750177.1
Equisetum sylvaticum plastid partial rbcL gene for ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, specimen voucher H823764	1027	1027	82%	0.0	99.82%	HE574610.1
Equisetum ramosissimum subsp. debile isolate 36802 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1026	1026	93%	0.0	96.03%	MH750199.1
Commelina diffusa voucher Q555 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1026	1026	84%	0.0	99.29%	MH714073.1
Equisetum myriochaetum isolate 26088 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1022	1022	91%	0.0	96.59%	MH750184.1
Equisetum scirpoides chloroplast rbcL gene for ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial cds, specimen_voucher: TNS:768168	1022	1022	88%	0.0	97.49%	AB574689.1
Equisetum palustre voucher Chase 11641 (K) ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast	1022	1022	82%	0.0	100.00%	GQ248601.1
Equisetum laevigatum isolate 40812 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; plastid	1020	1020	91%	0.0	96.59%	MH750183.1

Alignments

Equisetum palustre chloroplast, partial genome

Sequence ID: **MT984458.1** Length: 5501 Number of Matches: 1

Range 1: 2213 to 2882

Score	Expect	Identities	Gaps	Strand	Frame
1216 bits(658)	0.0()	666/670(99%)	0/670(0%)	Plus/Plus	

Features:

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Query 1      ATGTCACCACAAACAGAGACTAAAGCAGGTGTTGGATTTAAAGCTGGTGTAAAGATTAT 60
Sbjct 2213   ATGTCACCACAAACGGAGACCAAAGCAGGTGTTGGATTTAAAGCTGGTGTAAAGATTAT 2272

Query 61     CGATTGACTTATTTTACTCCAGATTATGAAACCAAAGATACCGATATTTTAGCAGCATT 120
Sbjct 2273   CGATTGACTTATTTTACTCCAGATTATGAAACCAAAGATACCGATATTTTAGCAGCATT 2332

Query 121    CGTATGACTCCTCAACCGGGAGTACCACCGGAAGAAGCAGGAGCAGCCGTAGCTGCTGAA 180
Sbjct 2333   CGTATGACTCCTCAACCGGGAGTACCACCGGAAGAAGCAGGAGCAGCCGTAGCTGCTGAA 2392

Query 181    TCGTCCACGGGCACCTGGACTACCGTATGGACAGATGGACTTACTAGTCTTGATCGATAT 240
Sbjct 2393   TCGTCCACGGGCACCTGGACTACCGTATGGACAGATGGACTTACTAGTCTTGATCGATAT 2452

Query 241    AAAGGTCGATGCTATAATATTGAACCTGTTGCTGGAGAAGATAATCAATTCATAGCTTAT 300
Sbjct 2453   AAAGGTCGATGCTATAATATTGAACCTGTTGCTGGAGAAGATAATCAATTCATAGCTTAT 2512

Query 301    GTAGCCTATCCTTTAGATCTTTTTGAAGAAGGTTCTGTTACCAATCTTTTTACTTCAATT 360
Sbjct 2513   GTAGCCTATCCTTTAGATCTTTTTGAAGAAGGTTCTGTTACCAATCTTTTTACTTCAATT 2572

Query 361    GTTGGTAATGTTTTCGGCTTCAAAGCTCTACGTGCTTTACGTTTAGAAGATTTAAGAATT 420
Sbjct 2573   GTTGGTAATGTTTTCGGCTTCAAAGCTCTACGTGCTTTACGTTTAGAAGATTTAAGAATT 2632

Query 421    CCTCTGCTTACTCCAAAACTTTTATAGGACCACCCACGGTATCCAGGTTGAAAGAGAT 480
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Query 481    AAGTTAAACAAATATGGTCGTCCTTTATTAGGTTGTACAATTAACCAAATTTGGGACTA 540
Sbjct 2693   AAGTTAAACAAATATGGTCGTCCTTTATTAGGTTGTACAATTAACCAAATTTGGGACTA 2752

Query 541    TCTGCTAAAACTATGGTAGGGCTGTTTATGAATGTCTTCGTGGTGGACTTGATTTACC 600
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Query 601    AAAGATGATGAGAATGTAAACTCTCAACCCTTTATGCGTTGGAGAGATCGATTCTTATTT 660
Sbjct 2813   AAAGATGATGAGAATGTAAACTCTCAACCCTTTATGCGTTGGAGAGATCGTTCTTATTC 2872

Query 661    GTAGCAGAAG 670
Sbjct 2873   GTAGCAGAAG 2882

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Equisetum arvense chloroplast, complete genome

Sequence ID: **GU191334.1** Length: 133309 Number of Matches: 1

Range 1: 27302 to 27971

Score	Expect	Identities	Gaps	Strand	Frame
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Features:

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Query 61     CGATTGACTTATTTTACTCCAGATTATGAAACCAAAGATACCGATATTTTAGCAGCATT 120
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Query 121    CGTATGACTCCTCAACCGGGAGTACCACCGGAAGAAGCAGGAGCAGCCGTAGCTGCTGAA 180
Sbjct 27851   CGTATGACTCCTCAACCGGGAGTACCACCGGAAGAAGCAGGAGCAGCCGTAGCTGCTGAA 27792

Query 181    TCGTCCACGGGCACCTGGACTACCGTATGGACAGATGGACTTACTAGTCTTGATCGATAT 240
Sbjct 27791   TCGTCCACGGGCACCTGGACTACCGTATGGACAGATGGACTTACTAGTCTTGATCGATAT 27732

Query 241    AAAGGTCGATGCTATAATATTGAACCTGTTGCTGGAGAAGATAATCAATTCATAGCTTAT 300
Sbjct 27731   AAAGGTCGATGCTATAATATTGAACCTGTTGCTGGAGAAGATAATCAATTCATAGCTTAT 27672

Query 301    GTAGCCTATCCTTTAGATCTTTTTGAAGAAGGTTCTGTTACCAATCTTTTTACTTCAATT 360
Sbjct 27671   GTAGCCTACCTTTAGATCTTTTTGAAGAAGGTTCTGTTACCAATCTTTTTACTTCAATT 27612

Query 361    GTTGGTAATGTTTTCGGCTTCAAAGCTCTACGTGCTTTACGTTTAGAAGATTTAAGAATT 420
Sbjct 27611   GTTGGTAATGTTTTCGGCTTCAAAGCTCTACGTGCTTTACGTTTAGAAGATTTAAGAATT 27552

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Query 421 CCTCCTGCTTACTCCAAAACCTTTTATAGGACCACCCACGGTATCCAGGTTGAAAGAGAT 480
Sbjct 27551 CCTCCTGCTTACTCCAAAACCTTTTATAGGACCACCCACGGTATCCAGGTTGAAAGAGAT 27492

Query 481 AAGTTAAACAAATATGGTCGTCCTTTATTAGGTTGTACAATTAACCAAATGGGACTA 540
Sbjct 27491 AAGTTAAACAAATACGGTCGTCCTTTATTAGGTTGTACAATTAACCAAATGGGACTA 27432

Query 541 TCTGCTAAAACTATGGTAGGGCTGTTTATGAATGTCTTCGTGGTGGACTTGATTTACC 600
Sbjct 27431 TCTGCTAAAACTATGGTAGAGCTGTTTATGAATGTCTTCGTGGTGGGCTTGATTTACC 27372

Query 601 AAAGATGATGAGAATGTAACTCTCAACCTTTATGCGTTGGAGAGATCGATTCTTATTT 660
Sbjct 27371 AAAGATGATGAGAATGTAACTCTCAACCTTTATGCGTTGGAGAGATCGTTTCTTATTC 27312

Query 661 GTAGCAGAAG 670
Sbjct 27311 GTAGCAGAAG 27302

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Equisetum arvense chloroplast ribulosebiphosphate carboxylase (rbcL) gene, complete cds

Sequence ID: **L11053.1** Length: 1587 Number of Matches: 1

Range 1: 73 to 742

Score	Expect	Identities	Gaps	Strand	Frame
1194 bits(646)	0.0()	662/670(99%)	0/670(0%)	Plus/Plus	

Features:

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Query 1 ATGTCACCACAAACAGAGACTAAAGCAGGTGTTGGATTTAAAGCTGGTGTAAAGATTAT 60
Sbjct 73 ATGTCACCACAAACGGAGACCAAAGCAGGTGTTGGATTTAAAGCTGGTGTAAAGATTAT 132

Query 61 CGATTGACTTATTTTACTCCAGATTATGAAACCAAAGATACCGATATTTTAGCAGCATTC 120
Sbjct 133 CGATTGACTTATTTTACTCCAGATTATGAAACCAAAGATACCGATATTTTAGCAGCATTC 192

Query 121 CGTATGACTCCTCAACCGGGAGTACCACCGGAAGAAGCAGGAGCAGCCGTAGCTGCTGAA 180
Sbjct 193 CGTATGACTCCTCAACCGGGAGTACCACCGGAAGAAGCAGGAGCAGCCGTAGCTGCTGAA 252

Query 181 TCGTCCACGGGCACCTGGACTACCGTATGGACAGATGGACTTACTAGTCTTGATCGATAT 240
Sbjct 253 TCGTCCACGGGCACCTGGACTACCGTATGGACAGATGGACTTACTAGTCTTGATCGATAT 312

Query 241 AAAGGTCGATGCTATAATATTGAACCTGTTGCTGGAGAAGATAATCAATTCATAGCTTAT 300
Sbjct 313 AAAGGTCGATGCTATAATATTGAACCTGTTGCTGGAGAAGATAATCAATTCATAGCTTAT 372

Query 301 GTAGCCTATCCTTTAGATCTTTTTGAAGAAGGTTCTGTTACCAATCTTTTACTTCAATT 360
Sbjct 373 GTAGCCTACCTTTAGATCTTTTTGAAGAAGGTTCTGTTACCAATCTTTTACTTCAATT 432

Query 361 GTTGGTAATGTTTTCGGCTTCAAAGCTCTACGTGCTTTACGTTTAGAAGATTTAAGAATT 420
Sbjct 433 GTTGGTAATGTTTTCGGCTTCAAAGCTCTACGTGCTTTACGTTTAGAAGATTTAAGAATT 492

Query 421 CCTCCTGCTTACTCCAAAACCTTTTATAGGACCACCCACGGTATCCAGGTTGAAAGAGAT 480
Sbjct 493 CCTCCTGCTTACTCCAAAACCTTTTATAGGACCACCCACGGTATCCAGGTTGAAAGAGAT 552

Query 481 AAGTTAAACAAATATGGTCGTCCTTTATTAGGTTGTACAATTAACCAAATGGGACTA 540
Sbjct 553 AAGTTAAACAAATACGGTCGTCCTTTATTAGGTTGTACAATTAACCAAATGGGACTA 612

Query 541 TCTGCTAAAACTATGGTAGGGCTGTTTATGAATGTCTTCGTGGTGGACTTGATTTACC 600
Sbjct 613 TCTGCTAAAACTATGGTAGAGCTGTTTATGAATGTCTTCGTGGTGGGCTTGATTTACC 672

Query 601 AAAGATGATGAGAATGTAACTCTCAACCTTTATGCGTTGGAGAGATCGATTCTTATTT 660
Sbjct 673 AAAGATGATGAGAATGTAACTCTCAACCTTTATGCGTTGGAGAGATCGTTTCTTATTC 732

Query 661 GTAGCAGAAG 670
Sbjct 733 GTAGCAGAAG 742

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Equisetum arvense plastid, complete genome

Sequence ID: **JN968380.1** Length: 132726 Number of Matches: 1

Range 1: 64958 to 65627

Score	Expect	Identities	Gaps	Strand	Frame
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1188 bits(643)	0.0()	661/670(99%)	0/670(0%)	Plus/Plus
Features:				
Query 1	ATGTCACCACAAACAGAGACTAAAGCAGGTGTTGGATTTAAAGCTGGTGTAAAGATTAT	60		
Sbjct 64958	ATGTCACCACAAACGGAGACCAAAGCAGGTGTTGGATTTAAAGCTGGTGTAAAGATTAT	65017		
Query 61	CGATTGACTTATTTTACTCCAGATTATGAAACCAAAGATACCGATATTTTAGCAGCATTCT	120		
Sbjct 65018	CGATTGACTTATTTTACTCCAGATTATGAAACCAAAGATACCGATATTTTAGCAGCATTCT	65077		
Query 121	CGTATGACTCCTCAACCGGGAGTACCACCGGAAGAAGCAGGAGCAGCCGTAGCTGCTGAA	180		
Sbjct 65078	CGTATGACTCCTCAACCGGGAGTACCACCGGAAGAAGCAGGAGCAGCCGTAGCTGCTGAA	65137		
Query 181	TCGTCCACGGGCACCTGGACTACCGTATGGACAGATGGACTTACTAGTCTTGATCGATAT	240		
Sbjct 65138	TCGTCCACGGGCACCTGGACTACCGTATGGACAGATGGACTTACTAGTCTTGATCGATAT	65197		
Query 241	AAAGGTCGATGCTATAATATTGAACCTGTTGCTGGAGAAGATAATCAATTCATAGCTTAT	300		
Sbjct 65198	AAAGGTCGATGCTATAATATTGAACCTGTTGCTGGAGAAGATAATCAATTCATAGCTTAT	65257		
Query 301	GTAGCCTATCCTTTAGATCTTTTTGAAGAAGGTTCTGTTACCAATCTTTTTACTTCAATT	360		
Sbjct 65258	GTAGCCTACCTTTAGATCTTTTTGAAGAAGGTTCTGTTACCAATCTTTTTACTTCAATT	65317		
Query 361	GTTGGTAATGTTTTCGGCTTCAAAGCTCTACGTGCTTTACGTTTAGAAGATTTAAGAATT	420		
Sbjct 65318	GTTGGTAATGTTTTCGGATTCAAAGCTCTACGTGCTTTACGTTTAGAAGATTTAAGAATT	65377		
Query 421	CCTCCTGCTTACTCCAAAACCTTTTATAGGACCACCCACGGTATCCAGGTTGAAAGAGAT	480		
Sbjct 65378	CCTCCTGCTTACTCCAAAACCTTTTATAGGACCACCCACGGTATCCAGGTTGAAAGAGAT	65437		
Query 481	AAGTTAAACAAATATGGTCGTCCTTTATTAGGTTGTACAATTAACCAAATTTGGGACTA	540		
Sbjct 65438	AAGTTAAACAAATACGGTCGTCCTTTATTAGGTTGTACAATTAACCAAATTTGGGACTA	65497		
Query 541	TCTGCTAAAACTATGGTAGGGCTGTTTATGAATGTCTTCGTGGTGGACTTGATTTACC	600		
Sbjct 65498	TCTGCTAAAACTATGGTAGAGCTGTTTATGAATGTCTTCGTGGTGGGCTTGATTTACC	65557		
Query 601	AAAGATGATGAGAATGTAAACTCTCAACCCCTTTATGCGTTGGAGAGATCGATTCTATTT	660		
Sbjct 65558	AAAGATGATGAGAATGTAAACTCTCAACCCCTTTATGCGTTGGAGAGATCGTTTCTATTC	65617		
Query 661	GTAGCAGAAG	670		
Sbjct 65618	GTAGCAGAAG	65627		

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: 1 to 644

Score	Expect	Identities	Gaps	Strand	Frame
1179 bits(638)	0.0()	642/644(99%)	0/644(0%)	Plus/Plus	
Features:					
Query	27	AGGTGTTGGATTTAAAGCTGGTGTAAAGATTATCGATTGACTTATTTTACTCCAGATTA			86
Sbjct	1	AGGTGTTGGATTTAAAGCTGGTGTAAAGATTATCGATTGACTTATTTTACTCCAGATTA			60
Query	87	TGAAACCAAAGATACCGATATTTTAGCAGCATTCCGTATGACTCCTCAACCGGGAGTACC			146
Sbjct	61	TGAAACCAAAGATACCGATATTTTAGCAGCATTCCGTATGACTCCTCAACCGGGAGTACC			120
Query	147	ACCGGAAGAAGCAGGAGCAGCCGTAGCTGCTGAATCGTCCACGGGCACCTGGACTACCGT			206
Sbjct	121	ACCGGAAGAAGCAGGAGCAGCCGTAGCTGCTGAATCGTCCACGGGCACCTGGACTACCGT			180
Query	207	ATGGACAGATGGACTTACTAGTCTTGATCGATATAAAGGTCGATGCTATAATATTGAACC			266
Sbjct	181	ATGGACAGATGGACTTACTAGTCTTGATCGATATAAAGGTCGATGCTATAATATTGAACC			240
Query	267	TGTTGCTGGAGAAGATAATCAATTCATAGCTTATGTAGCCTATCCTTTAGATCTTTTTGA			326
Sbjct	241	TGTTGCTGGAGAAGATAATCAATTCATAGCTTATGTAGCCTATCCTTTAGATCTTTTTGA			300
Query	327	AGAAGGTTCTGTTACCAATCTTTTACTTCAATTGTTGGTAATGTTTTCGGCTTCAAAGC			386
Sbjct	301	AGAAGGTTCTGTTACCAATCTTTTACTTCAATTGTTGGTAATGTTTTCGGCTTCAAAGC			360

Query	387	TCTACGTGCTTTACGTTTAGAAGATTTAAGAATTCCTCCTGCTTACTCCAAAACCTTTTAT	446
Sbjct	361	TCTACGTGCTTTACGTTTAGAAGATTTAAGAATTCCTCCTGCTTACTCCAAAACCTTTTAT	420
Query	447	AGGACCACCCACGGTATCCAGGTTGAAAGAGATAAGTTAAACAAATATGGTCGTCCTTT	506
Sbjct	421	AGGACCACCCACGGTATCCAGGTTGAAAGAGATAAGTTAAACAAATATGGTCGTCCTTT	480
Query	507	ATTAGGTTGTACAATTAACCAAAATTGGGACTATCTGCTAAAACTATGGTAGGGCTGT	566
Sbjct	481	ATTAGGTTGTACAATTAACCAAAATTGGGACTATCTGCTAAAACTATGGTAGGGCTGT	540
Query	567	TTATGAATGCTTCGTGGTGGACTTGATTTACCAAAGATGATGAGAATGTAAACTCTCA	626
Sbjct	541	TTATGAATGCTTCGTGGTGGACTTGATTTACCAAAGATGATGAGAATGTAAACTCTCA	600
Query	627	ACCCCTTTATGCGTTGGAGAGATCGATTCTTATTTGTAGCAGAAG	670
Sbjct	601	ACCCCTTTATGCGTTGGAGAGATCGTTTCTTATTCGTAGCAGAAG	644

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