

Sequence comparison of ITS sequences flanking the 5.8S rRNA gene from several volvocine species.

Compared species			ITS ^a	
			% Identity	% Gaps
<i>Gonium pectorale</i> SAG 12.85	vs.	<i>Gonium pectorale</i> CCAP 32/14	# 94.29	2.11
<i>Gonium pectorale</i> SAG 12.85	vs.	<i>Gonium pectorale</i> NIES-1710	94.08	2.11
<i>Gonium pectorale</i> SAG 12.85	vs.	<i>Gonium pectorale</i> UTEX 2570	### 99.79	0.00
<i>Gonium pectorale</i> SAG 12.85	vs.	<i>Gonium pectorale</i> AWCAf2-3	88.82	3.59
<i>Gonium pectorale</i> SAG 12.85	vs.	<i>Gonium pectorale</i> AWC-Laos	94.08	2.11
<i>Gonium pectorale</i> SAG 12.85	vs.	<i>Gonium pectorale</i> Coleman 16-1	94.08	2.11
<i>Gonium pectorale</i> SAG 12.85	vs.	<i>Gonium pectorale</i> UTEX 2075	## 95.78	2.11
<i>Gonium pectorale</i> SAG 12.85	vs.	<i>Gonium pectorale</i> UTEX 2581	93.87	2.11
<i>Gonium pectorale</i> SAG 12.85	vs.	<i>Gonium quadratum</i> AWC-Cat	81.84	11.78
<i>Gonium pectorale</i> SAG 12.85	vs.	<i>Gonium quadratum</i> AWC-Cal3-3	83.4	9.92
<i>Gonium pectorale</i> SAG 12.85	vs.	<i>Gonium viridistellatum</i> UTEX 2520	77.41	14.93
<i>Gonium pectorale</i> SAG 12.85	vs.	<i>Gonium octonarium</i> UTEX 842	86.79	5.66
<i>Gonium pectorale</i> SAG 12.85	vs.	<i>Gonium multicoccum</i> UTEX 783	78.40	12.00
<i>Gonium pectorale</i> SAG 12.85	vs.	<i>Basichlamys sacculifera</i> UTEX 822	77.62	12.28
<i>Gonium pectorale</i> SAG 12.85	vs.	<i>Tetrabaena socialis</i> UTEX 14	77.82	12.28
<i>Gonium pectorale</i> SAG 12.85	vs.	<i>Astrephomene perforata</i> UTEX 2475	75.39	12.98
<i>Gonium pectorale</i> SAG 12.85	vs.	<i>Astrephomene gubernaculifera</i> UTEX 1393	77.69	12.37
<i>Gonium pectorale</i> SAG 12.85	vs.	<i>Pandorina morum</i> (Poona)	75.15	15.73
<i>Gonium pectorale</i> CCAP 32/14	vs.	<i>Gonium pectorale</i> SAG 12.85	94.29	2.11
<i>Gonium pectorale</i> CCAP 32/14	vs.	<i>Gonium pectorale</i> NIES-1710	# 98.92	0.00
<i>Gonium pectorale</i> CCAP 32/14	vs.	<i>Gonium pectorale</i> UTEX 2570	94.50	2.11
<i>Gonium pectorale</i> CCAP 32/14	vs.	<i>Gonium pectorale</i> AWCAf2-3	89.15	3.19
<i>Gonium pectorale</i> CCAP 32/14	vs.	<i>Gonium pectorale</i> AWC-Laos	### 99.35	0.00
<i>Gonium pectorale</i> CCAP 32/14	vs.	<i>Gonium pectorale</i> Coleman 16-1	# 98.92	0.00
<i>Gonium pectorale</i> CCAP 32/14	vs.	<i>Gonium pectorale</i> UTEX 2075	96.16	1.28
<i>Gonium pectorale</i> CCAP 32/14	vs.	<i>Gonium pectorale</i> UTEX 2581	## 99.14	0.00
<i>Gonium pectorale</i> CCAP 32/14	vs.	<i>Gonium quadratum</i> AWC-Cat	81.89	11.47
<i>Gonium pectorale</i> CCAP 32/14	vs.	<i>Gonium quadratum</i> AWC-Cal3-3	82.89	9.98
<i>Gonium pectorale</i> CCAP 32/14	vs.	<i>Gonium viridistellatum</i> UTEX 2520	77.62	14.65
<i>Gonium pectorale</i> CCAP 32/14	vs.	<i>Gonium octonarium</i> UTEX 842	87.05	4.46
<i>Gonium pectorale</i> CCAP 32/14	vs.	<i>Gonium multicoccum</i> UTEX 783	77.52	16.28
<i>Gonium pectorale</i> CCAP 32/14	vs.	<i>Basichlamys sacculifera</i> UTEX 822	78.02	10.08
<i>Gonium pectorale</i> CCAP 32/14	vs.	<i>Tetrabaena socialis</i> UTEX 14	78.51	10.84
<i>Gonium pectorale</i> CCAP 32/14	vs.	<i>Astrephomene perforata</i> UTEX 2475	74.09	15.93
<i>Gonium pectorale</i> CCAP 32/14	vs.	<i>Astrephomene gubernaculifera</i> UTEX 1393	77.64	13.21
<i>Gonium pectorale</i> CCAP 32/14	vs.	<i>Pandorina morum</i> (Poona)	74.61	15.82

<i>Gonium pectorale</i> NIES-1710	vs. <i>Gonium pectorale</i> SAG 12.85	94.29	2.11
<i>Gonium pectorale</i> NIES-1710	vs. <i>Gonium pectorale</i> CCAP 32/14	# 98.92	0.00
<i>Gonium pectorale</i> NIES-1710	vs. <i>Gonium pectorale</i> UTEX 2570	94.29	2.11
<i>Gonium pectorale</i> NIES-1710	vs. <i>Gonium pectorale</i> AWCAf2-3	87.21	6.08
<i>Gonium pectorale</i> NIES-1710	vs. <i>Gonium pectorale</i> AWC-Laos	## 99.14	0.00
<i>Gonium pectorale</i> NIES-1710	vs. <i>Gonium pectorale</i> Coleman 16-1	### 100.00	0.00
<i>Gonium pectorale</i> NIES-1710	vs. <i>Gonium pectorale</i> UTEX 2075	95.52	1.28
<i>Gonium pectorale</i> NIES-1710	vs. <i>Gonium pectorale</i> UTEX 2581	# 98.92	0.00
<i>Gonium pectorale</i> NIES-1710	vs. <i>Gonium quadratum</i> AWC-Cat	81.12	11.85
<i>Gonium pectorale</i> NIES-1710	vs. <i>Gonium quadratum</i> AWC-Cal3-3	82.48	9.98
<i>Gonium pectorale</i> NIES-1710	vs. <i>Gonium viridistellatum</i> UTEX 2520	77.47	15.02
<i>Gonium pectorale</i> NIES-1710	vs. <i>Gonium octonarium</i> UTEX 842	86.53	6.11
<i>Gonium pectorale</i> NIES-1710	vs. <i>Gonium multicoccum</i> UTEX 783	77.52	16.28
<i>Gonium pectorale</i> NIES-1710	vs. <i>Basichlamys sacculifera</i> UTEX 822	76.75	11.22
<i>Gonium pectorale</i> NIES-1710	vs. <i>Tetrabaena socialis</i> UTEX 14	78.23	10.08
<i>Gonium pectorale</i> NIES-1710	vs. <i>Astrephomene perforata</i> UTEX 2475	74.52	14.86
<i>Gonium pectorale</i> NIES-1710	vs. <i>Astrephomene gubernaculifera</i> UTEX 1393	77.96	12.45
<i>Gonium pectorale</i> NIES-1710	vs. <i>Pandorina morum</i> (Poona)	71.98	19.00

Comparison of cDNA sequences. ^aInternal transcribed spacer sequences (ITS 1 and ITS 2) flanking the 5.8S rRNA gene; fragment lengths 454 - 494 bp, except for *Gonium multicoccum* UTEX 783, which corresponds only to the 122 bp ITS 2 sequence.

###, ##, #: Highest, second highest and third highest identity value in the given data set, respectively.