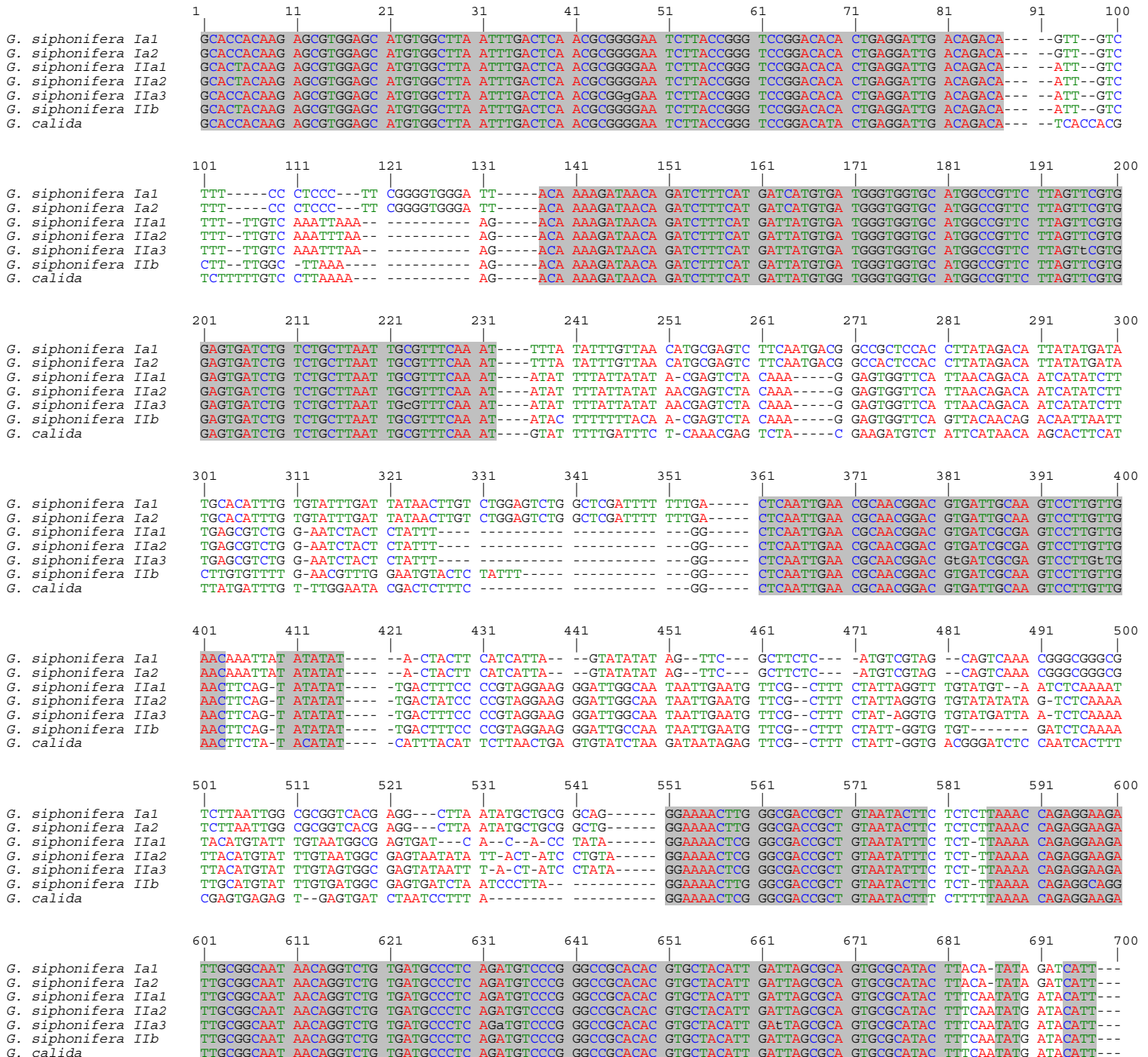


Figure S2 - SSU rDNA sequence alignments for four of the most common Arabian Sea planktonic foraminiferal morphospecies

The unambiguously aligned nucleotide sites used to reconstruct the phylogenies in Figure 3 are shown in grey. For full species names and GenBank accession numbers please see Table S1 (Additional file 1).

Globigerinella siphonifera and *Globigerinella calida* (668 bp)



701 711 721 731 741 751 761 771 781 791 800

G. siphonifera Ia1 ---G-ATTGG -TTATTT--- ATAACCG--- -----TCA ATATCGCCTT GTCTGAAAGG A-----CTAG GTAATCTATT
G. siphonifera Ia2 ---G-ATTGG -TTATTT--- ATAACCG--- -----TCA ATATCGCCTT GTCTGAAAGG A-----CTAG GTAATCTATT
G. siphonifera IIa1 --AG-ATTGG ATAGCTT--- -----T T--GCTTCCA T-----CTA ATACTATCCG GCTTGAGAAG G-----CTGG GTAATCAATT
G. siphonifera IIa2 --AG-ATTGG ATTGTTCTG--- -----T TGAGCT-CCA T-----CTA ATACTATCCG GCTTGAGAAG G-----CTGG GTAATCAATT
G. siphonifera IIa3 --AG-ATTGG ATTGTTTTA--- -----T TAAGCT-CCA T-----CTA ATACTATCCG GCTTGAGAAG G-----CTGG GTAATCAATT
G. siphonifera IIb --GG-ATTGG TGGTGAATTG TTGGCCCCGT CTAATACT-- -----GTCCCT GTCTGAGAAG G-----CTGG GTAATCAATT
G. calida --GGTTTGG TAGTAAGCTA TTCATCTGAT GGATATGCTA CTCTCCATAC CAATACT--- -----ATCTA GTCTGAAAAG A-----CTGG GTAATCTATT

801 811 821 831 841 851 861 871 881 891 900

G. siphonifera Ia1 GTAAGTGCTG GTTCCCTCCTC CCGTTGAGCA TTTTAATAAT GGTCCTCTCTA CATCCCTAGC A---CATGAT GTC---TAGT GCGATTGTAG TTGAGTCTTG
G. siphonifera Ia2 GTAAGTGCTG GTTCCCTCCTC CCGTTGAGCA TTTTAATAAT GGTCCTCTCTA CATCCCTAGC A---CATGAT GTC---TAGT GCGATTGTAG TTGAGTCTTG
G. siphonifera IIa1 GTAAGTGCTG GTTCCCTCCTC CCGTTGAGCA TTTTAATAAT GGCTCTCTCTA CATCCCTAGT A---AT-AT GAC---TAGT GCGATTGTAG TTGAGCCTTG
G. siphonifera IIa2 GTAAGTGCTG GTTCCCTCCTC CCGTTGAGCA TTTTAATAAT GGCTCTCTCTA CATCCCTAGC A---AT-AT GAC---TAGT GCGATTGTAG TTGAGCCTTG
G. siphonifera IIa3 GTAAGTGCTG GTTCCCTCCTC CCGTTGAGCA TTTTAATAAT GGCTCTCTCTA CATCCCTAGT A---AT-AT GAC---TAGT GCGATTGTAG TTGAGCCTTG
G. siphonifera IIb GTAAGTGCTG GTTCCCTACTC CCGTTGAGCA TTTTAATAAT GGCTCTCTCTA CATCCCTAGT A---AC---CC---TAGT GCGATTGTAG TTGAGCCTTG
G. calida GTAAGTGCTG GTTCCCTCTTC CCGTTGAGCA TTTTAATAAT GGTCCTCTCTA CGTCCCTAGT A---T-AT -TC---TAGT GCGATTGTAG TTGAGTCT-G

901 911 921 931 941 951 961 971 981 991 1000

G. siphonifera Ia1 CCATTTATGC AAGGTGCAAT TCTCAGTGGG GACAGCCATT TGATAAATCT TTGGCTCGGC CTCAACTAGG AATGCCCTGT ACGGGTCTTG GTTCAACAGA
G. siphonifera Ia2 CCATTTATGC AAGGTGCAAT TCTCAGTGGG GACAGCCATT TGATAAATCT TTGGCTCGGC CTCAACTAGG AATGCCCTGT ACGGGTCTTG GTTCAACAGA
G. siphonifera IIa1 CCATTTATGC AAGGTGCAAT TCTCAGTGGG GACAGCATT TGATAAATCT TTGTCTCGTT CTTAACTAGG AATGCCCTGT ACGGGTCTTG GTTCAACAGA
G. siphonifera IIa2 CCATTTATGC AAGGTGCAAT TCTCAGTGGG GACAGCATT TGATAAATCT TTGTCTCGTT CTTAACTAGG AATGCCCTGT ACGGGTCTTG GTTCAACAGA
G. siphonifera IIa3 CCATTTATGC AAGGTGCAAT TCTCAGTGGG GACAGCATT TGATAAATCT TTGTCTCGTT CTTAACTAGG AATGCCCTGT ACGGGTCTTG GTTCAACAGA
G. siphonifera IIb CCATTTATGC AAGGTGCAAT TCTCAGTGGG GACAGCATT TGATAAATCT TTGTCTCGTT CTTAACTAGG AATGCCCTGT ACGGGTCTTG GTTCAACAGA
G. calida CCATTTATGC AAGGTGCAAT TCTCAGTGGG GACAGCATT TGATAAATCT TTGTCTCGTT CTTAACTAGG AATGCCCTGT ACGGGTCTTG GTTCAACAGA

1001 1011 1021 1031 1041 1051 1061 1071 1081 1091 1100

G. siphonifera Ia1 CCACCCGGA TACGTCCCTG CCCTTTGTAC ACACCGCCG TCGCTCTTAC CGATGAATTG TACTGTGAGT T----TGAG GACCGAACCC A-----T
G. siphonifera Ia2 CCACCCGGA TACGTCCCTG CCCTTTGTAC ACACCGCCG TCGCTCTTAC CGATGAATTG TACTGTGAGT T----TGAG GACCGAACCC A-----T
G. siphonifera IIa1 CCACCCGGA TACGTCCCTG CCCTTTGTAC ACACCGCCG TCGCTCTTAC CGATGAATTG TACTGTGAGT T----TGAG GACTGATGGT TGNAAAAATC-
G. siphonifera IIa2 CCACCCGGA TACGTCCCTG CCCTTTGTAC ACACCGCCG TCGCTCTTAC CGATGAATTG TACTGTGAGT T----TGAG GACTGATGGT TGNAAAAATC-
G. siphonifera IIa3 CCACCCGGA TACGTCCCTG CCCTTTGTAC ACACCGCCG TCGCTCTTAC CGATGAATTG TACTGTGAGT T----TGAG GACTGATGGT TGNAAAAATC-
G. siphonifera IIb CCACCCGGA TACGTCCCTG CCCTTTGTAC ACACCGCCG TCGCTCTTAC CGATGAATTG TACTGTGAGT T----TGAG GACTGATGGT TGNAAAAATC-
G. calida CCACCCGGA TACGTCCCTG CCCTTTGTAC ACACCGCCG TCGCTCTTAC CGATGAATTG TACTGTGAGT T----CAATG GACCGATTTT TTCCC-----

1101 1111 1121 1131 1141 1151

G. siphonifera Ia1 TTTTGGGT-- --TTGGAAT GCAGTCAAA AGTAGGATT AAAGGAAAGA GAA
G. siphonifera Ia2 TTTTGGGT-- --TTGGAAT GCAGTCAAA AGTAGGATT AAAGGAAAGA GAA
G. siphonifera IIa1 -----A-- --TTGGAAT TCTGTCAAA AGCGAGATT AAAGGAAAGA GAA
G. siphonifera IIa2 -----A-- --TTGGAAT TCTGTCAAA AGCGAGATT AAAGGAAAGA GAA
G. siphonifera IIa3 -----A-- --TTGGAAT TCTGTCAAA AGCGAGATT AAAGGAAAGA GAA
G. siphonifera IIb -----A-- --TTGGAAT TCTGTCAAA AGCGAGATT AAAGGAAAGA GAA
G. calida -----T-- --TTGGAAT TTGGTCAAA AGTAGGATT AAAGGAAAGA GAA

Globigerinoides ruber and Globigerinoides conglobatus (589 bp)

1 11 21 31 41 51 61 71 81 91 100

G. ruber pink GCACCACAAG CGCGTGGAGC ATGTGGCTTA ATTTGACTCA ACCGGGGA TCTTACCGGG TCCGGACATA TCGAGGATTG ACAGACAGTT -----ACCA
G. ruber Ia GCACCACAAG CGCGTGGAGC ATGTGGCTTA ATTTGACTCA ACCGGGGA TCTTACCGGG TCCGGACATA TCGAGGATTG ACAGACAGTT -----ATACA
G. ruber Ib1 GCACCACAAG CGCGTGGAGC ATGTGGCTTA ATTTGACTCA ACCGGGGA TCTTACCGGG TCCGGACATA TCGAGGATTG ACAGACAGTT -----ATACA
G. ruber Ib2 GCACCACAAG CGCGTGGAGC ATGTGGCTTA ATTTGACTCA ACCGGGGA TCTTACCGGG TCCGGACATA TCGAGGATTG ACAGACAGTT -----ATACA
G. ruber IIa GCACCACAAG CGCGTGGAGC ATGTGGCTTA ATTTGACTCA ACCGGGGA TCTTACCGGG TCCGGACATA TCGAGGATTG ACAGACAGTT -----
G. conglobatus GCACCACAAG CGCGTGGAGC ATGTGGCTTA ATTTGACTCA ACCGGGGA TCTTACCGGG TCCGGACATA TCGAGGATTG ACAGACAGTT -----

101 111 121 131 141 151 161 171 181 191 200

G. ruber pink TGCCCTTTG AA----- AGGAG TCAG-----G TTTTAAACCT AATGGCTCTT TCATGATTAT ATGATAGGTG GTGCATGGCC GTTCTTAGTT
G. ruber Ia TGCCCT--AC AAGT----- AGGAG TCAG-----G TTTTAAACCT AATGGCTCTT TCATGATTAT ATGATAGGTG GTGCATGGCC GTTCTTAGTT
G. ruber Ib1 TGCCCT--AC AAGCAAGT-- AGGAG TCAG-----G TTTTAAACCT AATGGCTCTT TCATGATTAT ATGATAGGTG GTGCATGGCC GTTCTTAGTT
G. ruber Ib2 TGCCCT--AC AAGCAAGT-- AGGAG TCAG-----G TTTTAAACCT AATGGCTCTT TCATGATTAT ATGATAGGTG GTGCATGGCC GTTCTTAGTT
G. ruber IIa ---AACTGC AACACATGCT GCTAA-----G TTTTAAACCT AATAGCTCTT TCATGATTAT ATGATAGGTG GTGCATGGCC GTTCTTAGTT
G. conglobatus ---AACTTG CCCCACCTAT ---AGGAG CTAG-----G TTCTAAACCT AATAGCTCTT TCATGATTAT ATGATAGGTG GTGCATGGCC GTTCTTAGTT

201 211 221 231 241 251 261 271 281 291 300

G. ruber pink CGTGGAGTGA TCTGCTGCT TAATTGCGTT TC-----AAA TTTT-TATTT -----G AGGACCAGGT TTTGGTTTGG GTAGTGGTCC TACGATGACT
G. ruber Ia CGTGGAGTGA TCTGCTGCT TAATTGCGTT TC-----AAA ATTT-AACTT -----G AGGACCGGGT TTTGGTTTGG CTAGTGGTTC TACGATGACT
G. ruber Ib1 CGTGGAGTGA TCTGCTGCT TAATTGCGTT TC-----AAA ATTT-AACTT -----G AGGACCGGGT TTTGGTTTGG CTAGTGGTCC TACGATGACT
G. ruber Ib2 CGTGGAGTGA TCTGCTGCT TAATTGCGTT TC-----AAA ATTT-AACTT -----G AGGACCGGGT TTTGGTTTGG CTAGTGGTCC TACGATGACT
G. ruber IIa CGTGGAGTGA TCTGCTGCT TAATTGCGTT TC-----AAA ATCTAAACCT -----G AGGACCAAGG TGCTGCTATC GAAACTGTCT TTGAGTGGA
G. conglobatus CGTGGAGTGA TCTGCTGCT TAATTGCGTT TC-----AA ATATGAATTT GAGTACCAGG TCCCAAGTGT TTCAGTAAA TCTGTCTCTG AGTGTGAAC

301 311 321 331 341 351 361 371 381 391 400

G. ruber pink GTGAACGTG ATGTCTTCGG ATGTGCGACT ATCGGTCTAG GATCGCATCT CA----- GCCCTTGGGA CTCTTTTGAA CGCAACGGAC GTGATTGCAA
G. ruber Ia GTGAACGTG ATGTCTTCGG ATGTGCGACT ATCGGTCTAG GATCAGATGA CTT----- GCCCTTGGGA CTCTTTTGAA CGCAACGGAC GTGATTGCAA
G. ruber Ib1 GTGAACGTG ATGTCTTCGG ATGTGCGACT ATCGGTCTAG GATCAGATGA CTT----- GCCCTTGGGA CTCTTTTGAA CGCAACGGAC GTGATTGCAA

G. ruber Ib2 GTGAACGTGC ATGCTCTTCGG ATGTACGACT ATCGGTCTAG GATCACATGA CTT----- GCCCCCTGGGA CTCCTTTTGAA CGCAACGGAC GTGATTGCAA
G. ruber IIa ACTATAAGTC TTTTGACTTA TGACCATCAC TCTAGACGTT TATGTTTTGG TGTG----- GCCCCTGATG CTCAATTTGAA CGCAACGGAC GTGATTGCAA
G. conglobatus GTATCTCTTC GGATATGCGA CTATCACTCT TAGGCAACTA TGATCTGCTT GTA----- GCCCCCTGGTA CTCCTTTTGAA CGCAACGGAC GTGATTGCAA

401 411 421 431 441 451 461 471 481 491 500
G. ruber pink CCCCTTGGTG AG-----AT- TAGAGG---- --AGTCT CGATATTCAT TGGCC--AAA CTTACCGCTT CGAGCTTGCT CGTGCACTTT TGTTAGCCG-
G. ruber Ia CCCCTTGGTG AG-----AT- TAGAGAT---- --AGTCT CGATATTCAC TGGAC--AAA CTGGCTGCTT TATGCAGTCT TGTGAAAT-- -----G-
G. ruber Ib1 CCCCTTGGTG AG-----AT- TAGAGAT---- --AGTCT CGATATTCAC TGGCC--AAA CTGGCTGCTT TATGCAGTCT TGTGAAAT-- -----G-
G. ruber Ib2 CCCCTTGGTG AG-----AT- TAGAGAT---- --AGTCT CGATATTCAC TGGCC--AAA CTGGCTGCTT TATGCAGTCT TGTGAAAT-- -----G-
G. ruber IIa CCCCTTGGTG AG-----ATT TATCCGATCT CTACGTTTAC TGAAACACAC TCTTTAGCGA GAGCAGTGGG GA----- -----T-
G. conglobatus CCCCTTGGTG AG-----TTT GCTTCTCTTA GGAACCTTAC GTCTACTGAT CCACCTACCT TAGCGGGTAG GTGGTGA--- -----G-

501 511 521 531 541 551 561 571 581 591 600
G. ruber pink ----GTGGAT AAACCTCGGG GACTGCTGAC TATAACCATT TCTCAAAACA GAGGAAGGTT GCGGCAATAA CAGGTCTGTG ATGCCCTTAG ATGTCCCGGG
G. ruber Ia ----GTGGAT AAACCTCGGG GACTGCTGAC TATAACCATT TCTCAAAACA GAGGAAGGTT GCGGCAATAA CAGGTCTGTG ATGCCCTCAG ATGTCCCGGG
G. ruber Ib1 ----GTGGAT AAACCTCGGG GACTGCTGAC TATAACCATT TCTCAAAACA GAGGAAGGTT GCGGCAATAA CAGGTCTGTG ATGCCCTCAG ATGTCCCGGG
G. ruber Ib2 ----GTGGAT AAACCTCGGG GACTGCTGAC TATAACCATT TCTCAAAACA GAGGAAGGTT GCGGCAATAA CAGGTCTGTG ATGCCCTCag ATGTCCCGGG
G. ruber IIa ----GTGGAT AAACCTCGGG GACTGCTGAC TATAAACTTT TCTCAAAACA GAGGAAGGTT GCGGCAATAA CAGGTCTGTG ATGCCCTCAG ATGTTCGGGG
G. conglobatus ----GTGGAT AAACCTCGGG GACTGCTGAC TATAACCATT TCTCAAAACA AAGGAAGGTT GCGGCAATAA CAGGTCTGTG ATGCCCTCAG ATGTCCCGGG

601 611 621 631 641 651 661 671 681 691 700
G. ruber pink CTGCACACGT GCTACAATGA GT-GGCGCAA TGTGT----- GCAATTTTGT -AAGGG-ATA AGAGTGT--- G-G-TCAGT- ---ATG-CCG --TCGGGGAT
G. ruber Ia CTGCACACGT GCTACAATGA GT-GGCGCAA TGTGT----- TAATGTTT-- -AAGGG-ATA AGAGTGT--- G-G-TCAGT- ---AGA-ACG --TCGGG-AT
G. ruber Ib1 CTGCACACGT GCTACAATGA GT-TGGCGCAA TGTGT----- TAATGTTT-- TAAGGG-ATA AGCGTGC--- G-G-CCAGT- ---AGA-ACG --TCGGGAAA
G. ruber Ib2 CTGCACACGT GCTACAATGa GT-GGCGCAA TGTGT----- TAATGTTT-- TAAGGG-ATA AGCGTGC--- G-G-CCAGT- ---AGA-ACG --TCGGC-AA
G. ruber IIa CTGCACACGT GCTACATTTA GT-AGCGCAG TGTGT----- ACATTAAAT-- AGAGTG-ATA GGTTCCTGG TTTG--TACA TTTTAAAGGGC TCGTCCTAGT
G. conglobatus CTGCACACGT GCTACAATGA GT-AGCGCAG TGTGT----- ACATTTT-- -GAAGAGTGA TA-GGTGCTG GGGTTGTACA TTTTAAAGGG CTCTCTCTAG

701 711 721 731 741 751 761 771 781 791 800
G. ruber pink TCCCCCTG-A CG--TCTC-C TAGCACACGA TT-----ATC AGCCTTTCCT TAACAGGGCG GGTAACTTTT TCAAAATACC AGTTTGA--- --TTTT-A--
G. ruber Ia TCCCCCTG-A CG--TCTC-C CCGCGA-CGA TT-----ATC AGCCTTTCCT TAACAGGGCG GGCAACTTTT TCAAAATACC GGTTTTGA--- --TGTT-A--
G. ruber Ib1 TCCCCCTG-- CG--TCGCC- TGCGCA-CGA TT-----ATC AGCCTTTCCT TAACAGGGCG GGCAACTTTT TCAAAATACC GGTTTTGA--- --TATT-A--
G. ruber Ib2 TCCCCCTG-G CG--TCTTCT ACCGCA-CGA TT-----ATC AGCCTTTCCT TAACAGGGCG GGCAACTTTT TCAAAATACC GGTTTTGA--- --TGTT-A--
G. ruber IIa AAACAAAGCT CCACGGGACA T-----ATC AACCTTCCCT TTACAGGGCG GGTAACTTCT TCGAAGTGCT GGCATGA--- --TTTCCCTA
G. conglobatus TAACCAACCG CCCCC-AAGC ATCT----- --ATC AACCTTCCCT TTACAGGGTG GGTAACTTCT TCGAAGTGCT GGTTTTGA--- --TTTCCC-T

801 811 821 831 841 851 861 871 881 891 900
G. ruber pink ---A--AGC- --TTTGGGTC A-ATTAG-GG TG-AT--GG TTGATAG-A ACCAATATCA -CCAGCTGTC TA-----CT CGTGCGCGCG TG-T-----
G. ruber Ia ---A--AGT- --ATTGAGTC G-TTTTTTTT GGAT--GG TGGTTTGTTA ACCAATACCA TCCGGCAACT GC-----T CCGCAGTTTG TGGTT-----
G. ruber Ib1 ---A--AGT- --ATAGATC G-TTTTTTTT GGAT--GG TGGTTTACGA ACCAATACCA TCCG-CAACT GC-----T CCGCAGTTTG TGGTT-----
G. ruber Ib2 ---A--AGT- --AtaGAGTC G-TTTTTTTT GGAT--GG TGGTTTACGA ACCAATACCA TCCG-CAACT GC-----T CCGCAGTTTG TGGTT-----
G. ruber IIa GTTTTGGCAT TTGAATCTTT GTCCGAGCAG CCGCTGAGAC TAGTGAAACG TGCAAGTCTT TCCAGTCTT AGGTTTGC-----
G. conglobatus AGTGTTTGTC ATAATAATCC TCGTCGCACC TACTCTAGGA CATAGTGAAC ATTGTAGACT TTGTCAATAT GATTCCCGTC TTAGGTTTGC GACGCATGCT

901 911 921 931 941 951 961 971 981 991 1000
G. ruber pink -----TAT TC----- -CTGG-TGAC TCATGGTGGG GACCGACATT TGTAATTGTC TGTGCG-TG TTAACCGGGA ATGCCCTTGTA CTGTCGATTTC
G. ruber Ia -----TCGCGAC TCATGGTGGG GACCGACATT TGTAATTTT TGTGCG-TG TTAACTAGGA ATGCCCTTGTA CTGTCGATTTC
G. ruber Ib1 -----CTGG-TGAC TCATGGTGGG GACCGATGTT TGTAATTGTT TGTGCG-TG TCAACTAGGA ATGCCCTTGTA CTGTCGATTTC
G. ruber Ib2 -----CTGG-TGAC TCATGGTGGG GACCGATGTT TGTAATTGTT TGTGCG-TG TCAACTAGGA ATGCCCTTGTA CTGTCGATTTC
G. ruber IIa --GACACATG CAATTTC--- -CTGGTTGAC TCATCGTGGG GACTGATTCT TGTAATTATT TTTACCGG-T TCAACCAAGGA ATGCCCTTGTA CCGCGGGCTC
G. conglobatus TT----- --TC--- -CTGGTTGAC TCATCGTGGG AACTGATTCT TGTAATTATT TGTACCGG-T TCAACCAAGGA ATGCCCTTGTA CTGGCGGCTC

1001 1011 1021 1031 1041 1051 1061 1071 1081 1091 1100
G. ruber pink ACTAAGTTAT GGGGAATACG TCCCTGCCCT TTGTACACAC CGCCCGTCGC TCTTACCGAT GGCTTTGGCT GCGAGTAA-- --AAGGGAC TTTTG-TTTT
G. ruber Ia ACTAAGTTAT TGGGAATACG TCCCTGCCCT TTGTACACAC CGCCCGTCGC TCTTACCGAT GGCTGTGTGT GTGAGTAA-- --GAGCGAC TGTTA-AGAG
G. ruber Ib1 ACTAAGTTAT TGGGAATACG TCCCTGCCCT TTGTACACAC CGCCCGTCGC TCTTACCGAT GGCTTTGTGT GTGAGTAA-- --GACCGAC AATTA-AGCT
G. ruber Ib2 ACTAAGTTAT TGGGAATACG TCCCTGCCCT TTGTACACAC CGCCCGTCGC TCTTACCGAT GGCTTTGTGT GTGAGTAA-- --GACCGAC AATTA-AGCT
G. ruber IIa ATTAACCCGC TGGGAATACG TCCCTGCCCT TTGTACACAC CGCCCGTCGC TCTTACCGAT GACTTTGACT GTGAGTAG-- --GACTGAC CGTTTA-TCG
G. conglobatus ATTAACCCGC TCGGTATACG TCCCTGCCCT TTGTACACAC CGCCCGTCGC TCTTACCGAT GACTTTGACT GTGAGTAG-- --GCTGGAT CGA---AATG

1101 1111 1121 1131
G. ruber pink GGAACTTT-- --GTCGAAC AGATGGGGCT AAAG
G. ruber Ia GGAATTTT-- --GTCGAAT GCATTTGGCT AAAG
G. ruber Ib1 GGAATTTT-- --GTCGAAT GCATTTGGCT AAAG
G. ruber Ib2 GGAATTTT-- --GTCGAAT GCATTTGGCT AAAG
G. ruber IIa GGAATCC-- --GTCGAAC AGTTAGAGTT AAAG
G. conglobatus GGAAGCT-- --GTCGAAC AGTTAGAGTT AAAG

Globigerina bulloides (669 bp)

1 11 21 31 41 51 61 71 81 91 100
G. bulloides IIa GCACCACAAG AGCGTGGAGT ATGTGGCTTA ATTTGACTCA ACGCGGAAAA GCTTATCTGG TCCGGACACA GTGAGGATTG ACAGAC-----GGTC-----T
G. bulloides Ib GCACCACAAG AGCGTGGAGT ATGTGGCTTA ATTTGACTCA ACGCGGAAAA GCTTATTTGG TCCGGACACA GTGAGGATTG ACAGAC-----ATGT---CG
G. bulloides IIa GCACCACAAG AGCGTGGAGT ATGTGGCTTA ATTTGACTCA ACGCGGAAAA GCTTATCTGG TCCGGACACA GTGAGGATTG ACAGAC-----AGTT---T
G. bulloides IIb GCACCACAAG AGCGTGGAGT ATGTGGCTTA ATTTGACTCA ACGCGGAAAA GCTTATCTGG TCCGGACACA GTGAGGATTG ACAGAC-----AGTTAGA--
G. bulloides Iic GCACCACAAG AGCGTGGAGT ATGTGGCTTA ATTTGACTCA ACGCGGAAAA GCTTATCTGG TCCGGACACA GTGAGGATTG ACAGAC-----AGTT---GG

G. bulloides II*d*
G. bulloides II*e*

101 111 121 131 141 151 161 171 181 191 200

G. bulloides II*a*
G. bulloides II*b*
G. bulloides II*a*
G. bulloides II*b*
G. bulloides II*c*
G. bulloides II*d*
G. bulloides II*e*

201 211 221 231 241 251 261 271 281 291 300

G. bulloides II*a*
G. bulloides II*b*
G. bulloides II*a*
G. bulloides II*b*
G. bulloides II*c*
G. bulloides II*d*
G. bulloides II*e*

301 311 321 331 341 351 361 371 381 391 400

G. bulloides II*a*
G. bulloides II*b*
G. bulloides II*a*
G. bulloides II*b*
G. bulloides II*c*
G. bulloides II*d*
G. bulloides II*e*

401 411 421 431 441 451 461 471 481 491 500

G. bulloides II*a*
G. bulloides II*b*
G. bulloides II*a*
G. bulloides II*b*
G. bulloides II*c*
G. bulloides II*d*
G. bulloides II*e*

501 511 521 531 541 551 561 571 581 591 600

G. bulloides II*a*
G. bulloides II*b*
G. bulloides II*a*
G. bulloides II*b*
G. bulloides II*c*
G. bulloides II*d*
G. bulloides II*e*

601 611 621 631 641 651 661 671 681 691 700

G. bulloides II*a*
G. bulloides II*b*
G. bulloides II*a*
G. bulloides II*b*
G. bulloides II*c*
G. bulloides II*d*
G. bulloides II*e*

Turborotalita quinqueloba (748 bp)

1 11 21 31 41 51 61 71 81 91 100

T. quinqueloba I*a*
T. quinqueloba I*b*
T. quinqueloba II*a*
T. quinqueloba II*b*
T. quinqueloba II*c*
T. quinqueloba II*d*

101 111 121 131 141 151 161 171 181 191 200

T. quinqueloba I*a*
T. quinqueloba I*b*
T. quinqueloba II*a*
T. quinqueloba II*b*
T. quinqueloba II*c*
T. quinqueloba II*d*

5

	1201	1211	1221	1231	1241	1251	1261	1271	1281	1291	1300
<i>T. quinqueloba</i> Ia	ACCGCCCGTC	GCTTTTACCA	ATGGCCCTCG	TTGTGAGTGA	GCTGGACAAG	-----TTATT	TTA-----	AC	TTGAAAAGTT	CTCAATCAAG	GTTTGCTAAA
<i>T. quinqueloba</i> Ib	ACCGCCCGTC	GCTTTTACCA	ATGGCCCTCG	TTGTGAGTGA	GCTGGACAAG	-----TTATT	TTA-----	AC	TTGAAAAGTT	CTCAATCAAG	GTTTGCTAAA
<i>T. quinqueloba</i> IIa	ACCGCCCGTC	GCTTTTACCA	ATGGCCCTCG	TTGTGAGATA	GCTGGACAAG	-----TATTT	ACT-----	AC	TTCAAAAGTT	CTCAATCAAG	GTTTGCTAAA
<i>T. quinqueloba</i> IIb	ACCGCCCGTC	GCTTTTACCA	ATGGCCCTCG	TTGTGAGATA	GCTGGACAAG	-----TATTT	ACT-----	AC	TTCAAAAGTT	CTCAATCAAG	GTTTGCTAAA
<i>T. quinqueloba</i> IIc	ACCGCCCGTC	GCTTTTACCA	ATGGCCCTCG	TTGTGAGATA	GCTGGACAAG	-----TATTT	ACT-----	AC	TTCAAAAGTT	CTCAATCAAG	GTTTGCTAAA
<i>T. quinqueloba</i> IID	ACCGCCCGTC	GCTTTTACCA	ATGGCCCTCG	TTGTGAGATA	GCTGGACAAG	-----TATTT	ACT-----	AC	TTCAAAAGTT	CTCAATCAAG	GTTTGCTAAA

	1301	1311
<i>T. quinqueloba</i> Ia	GGAAAAAGAA	GTCTGTAAC
<i>T. quinqueloba</i> Ib	GGAAAAAGAA	GTCTGTAAC
<i>T. quinqueloba</i> IIa	GGAAAAAGAA	GTCTGTAAC
<i>T. quinqueloba</i> IIb	GGAAAAAGAA	GTCTGTAAC
<i>T. quinqueloba</i> IIc	GGAAAAAGAA	GTCTGTAAC
<i>T. quinqueloba</i> IID	GGAAAAAGAA	GTCTGTAAC