

Table 4. Repeat type and abundance in *GRP* genes

| Repeat* | Species | Sequence [†] | Copy no. | % Identity | Overlapping repeats‡ |
|----------------------------|---------|--|----------|------------|---------------------------|
| <i>GRPI4</i> (7510) | | | | | |
| I | At | GGACGTAGGAGATTTGGG G R R R F G | 3.2 | 90 | |
| | Aa1 | GGAGGTAGGAGATTTGGG G G R R F G | 3.2 | 94 | |
| | Aa2 | GGAGGTAGGAGATTTGGG G G R R F G | 3.2 | 94 | |
| II | At | GGTGGAGGTTTACCTGGAGGACTTGGAGGATTAGGA G G G L P G G L G G L G | 2.4 | 94 | 15, 5.4, 70 9, 9.7, 67 |
| | Aa1 | GGGGGAGGTTTACCTGGAGGACTTGGAGGCCTTGGA G G G L P G G L G G L G | 3.2 | 94 | 9, 10.7, 69 |
| | Aa2 | GGGGGAGGTTTACCTGGAGGACTTGGAGGCCTTGGA G G G L P G G L G G L G | 3.1 | 94 | 9, 10.7, 69 |
| | Op | GGAGGTCTACCTGGAGCCGCAGGT G G L P G A A G | 6.0 | 91 | 12, 5.3, 64 |
| III | At | GAAAATGCACCTGCCGCT E T A P A A | 2.8 | 87 | |
| | Aa1 | GGAGCTGCACCAGCCGCT G A A P A A | 6.2 | 90 | 6, 17.2, 58 |
| | Aa2 | GGAGCTGCACCTGCCGCT G A A P A A | 4.2 | 84 | |
| | Op | CCACCTGCTGCTGGAGCTGCTACACCACCTGCGCCTGGAGC TAGT P P A A G A A T P P A P G A S | 2.9 | 82 | 21, 6.0, 71 |
| | Si | GGAGGGAGCTTCACCGGCAGGAGGAGCTGCACCGAGG G G A S P A G G A A P A | 3.2 | 92 | 18, 6.3, 80 |
| | Bo | GCACCTGCACCCGCG A P A P A | 2.3 | 100 | |
| <i>GRPI8</i> (7520) | | | | | |
| I | Aa1 | GGTGGAGGTGCACCTGGAGGGGGCGGAAATCCATTGCAA CATCTCAAAATGGTTCGGACCAGGGGCCGCA G G G A P G G G G N P F A N I S K W F G P G A A | 2.2 | 93 | |
| | Aa2 | GGTGGAGGTGCACCGAGGGGGCGGAAATCCATTGCAA CATCTCAAAATGGTTCGGACCAGGGGCCGCA G G G A P G G G G N P F A N | 2.2 | 90 | |

| Repeat* | Species | Sequence† | Copy no. | % Identity | Overlapping repeats‡ |
|---------------------|---------|--|----------|------------|---|
| | | I S K W F G P G A A | | | |
| II | At | GCCGCTGGAGCTGCACCT A A G A A P | 9.2 | 89 | First 2 copies interrupted with 63 bp |
| | Aa1 | GCCGCTGGAGCTGCACCA A A G A A P | 10.0 | 87 | First 3 copies interrupted with the same 51-bp sequence |
| | Aa2 | GCCGCTGGAGCTGCACCT A A G A A P | 10.0 | 90 | First 3 copies interrupted with the same 51-bp sequence |
| | Op | CCTCGGGCTGGAGCTGCTACACCACCTGCGGCTGGAGCTAG TGCA P A A G A A T P P A A G A S A | 3.8 | 88 | 21, 11.8, 68 |
| | Cr | GCGGCCGGAGCTGCTAACCT A A G A A K P | 2.6 | 82 | |
| | Si | GCGGGTGGAGCTGAACCA A G G A E P | 6.4 | 84 | |
| | Bo | GCAGCACCAAGCAGCTGAA A A P A A E | 1.91 | 88 | 18, 4.1, 79 overlaps |
| GRPI7 (7530) | | | | | |
| ExonI | Op | CAAAAACCATCATCGGCTCAGTCAGTCAGTC Q K P S S A Q S L S | 3.1 | 95 | Before oleosin domain |
| | Cr | CAAAACCCATCATCAGCTCAGTCAGTCAGTC CAGAAAGTTCCCTTTCTGTCTCTCCCA Q N P S S A Q S L S M R E G R K F P F L S L P | 2.4 | 93 | Before oleosin domain |
| I | At | GGAGGTAAAAAAAGTAAATTC G G K K S K F | 3.1 | 67 | |
| | Aa1 | GGAGGTAAATCCAAAAGTCGA G G K S K S R | 2.9 | 79 | |
| | Aa2 | GGTAAATTGGAGGTAAAAAGGCAAGTCCGAAGGTGAAGA A G K F G G K K G K S E G E E | 2.1 | 79 | |
| | Cr | TCTCTGCCACAAAACAATCATCAGCTCAG S L P Q K Q S S A Q | 1.9 | 85 | |
| | Bo | ATACCGGAGAGTATTAAACCAAGTAATATT I P E S I K P S N I | 4.0 | 97 | 15, 7.2, 66 |

| Repeat* | Species | Sequence [†] | Copy no. | % Identity | Overlapping repeats [‡] |
|---------|------------|--|----------|------------|--|
| | Bo | AAACACGGAAGTGGAGGT K H G S G G | 17.5 | 68 | 21, 2, 81 21, 4.7, 83 |
| II | At (a) | GAAGGTATGTCTGGAAGTGAAGGAGGTATGTCCGGAGGTGG AGGAAGTAAATCCAAAAGTAAAAAAAGTAAACTCAAAGCTA AATTGGGAAAGAAAAAGGTATGTCCGGAGGCATGTCAGGA AGTGAA E G M S G S E G G M S G G G G S K S K S K K S K L K A K L G K K K G M S G G M S G S E | 4.3 | 93 | 21, 3.1, 67 21, 4.8, 72 42, 2.9, 67 21, 2, 95 21, 2.4, 90 |
| | At (b) | GGCATGTCAGGAAGTGAAGGAGGTATGTCTCGAAGTGAAGG AACTATATCCGGAGGTGGTATGTCTGGGGCAGCGGAAGTA AACACAAAATTGGAGGAGGTAAACACGGAGGTCTAGAGGT AAATTCGGAAAGAAAAGAGGCATGTCAGGAAGTGAAGGA G M S G S E G G M S R S E G S I S G G G M S G G S G S K H K I G G G K H G G L R G K F G K K R G M S G S E G | 2.2 | 93 | Overlaps with previous repeat by 60 bp 21, 23.9, 60 (spans a and b) 141, 2.1, 80 |
| | Aa1 | GGAGGTAAATCCAAAAGAGAGGAGGTAAACTCGGAGGTCT TCGAGATAATACGAAAGAAGGAGGTAAAGTCCGGAGGTG GAGGAGGCATGTCAGGAAGTGAAGGAGCTATGTCTGGAAGT GAAGGAGGTATGTCC G G K S K K R G G K L G G L R D K Y G K K G G K S G G G G G M S G S E G A M S G S E G G M S | 2.0 | 90 | 21, 9, 65 42, 4.7, 66 15, 4.2, 93 21, 13, 63 (spans II and III) |
| | Aa2 (a) | TCCGAAGGTGAAGAAGGTAGTCGCTGGGAAGAAGGTATG TCCGGAGGTGAAGGAGGTAAATCCAAAAGGGAGGGAGTAA ATCTAAAAGTCGACGAGATAATCAAAAGTAAAAAGGCA TGTCCGGAGGG S E G E E G M S S G E E G M S G G E G G K S K K G G S K S K S R R D K S K S K K G M S G G E | 2 | 76 | Partial gene, exon 1 is interrupted 21, 2.9, 74 21, 9.3, 63 (spans a and b) |

| Repeat* | Species | Sequence [†] | Copy no. | % Identity | Overlapping repeats [‡] |
|---------|------------|--|----------|------------|--|
| | Aa2 (b) | GGAGGTAAATCCAAAAAGAGAGGAGGTAAACTCGGAGGTCT TCGAGATAAATACGGAAAGAAAGGAGGCAAGTCCGGAGGTG GAGGAGGCATGTCAAGAAGTGAAGGAGCTATGTCTGGAAGT GAAGGAGGTATGTCC G G K S K K R G G K L G G L R D K Y G K K G G K S G G G G G M S R S E G A M S G S E G G M S | 2.0 | 88 | |
| | Op | GGAGGTATGTCTGGAAGGAAGGAGGTATGTCAGGAGGTGGA GGAGGTAAATCCAAGGTGGGACATAATCCAGAGGTCTAA GAGGTAAGTCCAAAAGTAAAAAAGGTATGTCCGGAAGCGAA G G M S G R K E V C Q E V E E V N P K V G H K S R G L R G K S K S K K G M S G S E | 2.4 | 85 | 21, 34.8, 67 15, 3.2, 84 |
| | Op | GGTATGTCTGGAAGCGAAGGAGGTATGTCAGGAGGTGGA AGGTAAACACGGAGGCGGAGGAGGTAAACACGGAGGTAAAC ATGGAGGTGGA G M S G S E G G M S G S E G G K H G G G G G K H G G K H G G G | 2.1 | 89 | Overlaps with a by 69 bp 12, 2.5, 94 21, 7.4, 76 12, 2.5, 100 33, 2.9, 65 |
| III | Aa1 | GGTGGTATGTCCGGA G G M S G | 2.4 | 85 | |
| | Aa1 | GGAGGTATGTCCGGAGGTGGA G G M S G G G | 5.8 | 78 | 15, 1.9, 92 |
| | Aa2 | GGAGGTATGTCCGGAAGTGAA G G M S G S A | 13 | 66 | 15, 3.3, 97 |
| | Aa2 | GGTGGTATGTCCGGA G G M S G | 2.4 | 85 | |
| | Aa2 | GGAGGTATGTCCGGAGGTGGA G G M S G G G | 5.8 | 78 | 15, 1.9, 92 |
| | Cr | GGAGGTATGTCCGGAAGTGAA G G M S G S A | 21.2 | 67 | 12, 3.1, 100 15, 4.7, 92 24, 2.3, 96 15, 6.7, 79 |
| IV | At | GGTAAACACAAAATCGGAGGA G K H K I G G | 2.7 | 91 | |
| | Aa1 | GGTAAACACAAAATCGGAGGA G K H K I G G | 2.7 | 94 | |

| Repeat* | Species | Sequence† | Copy no. | % Identity | Overlapping repeats‡ |
|---------------------|---------|--|----------|------------|--|
| | Aa2 | GGTAAACACAAAATCGGAGGA G K H K I G G | 2.7 | 94 | |
| | Si | GGAAAAAAATCCAAAAGT G K K S K S | 2.2 | 86 | |
| | Si | TCTATGGGTGGAGGTAAACATGGAAGTGGAAAGTTCA S M G G G K H G S G S S | 7.2 | 70 | 18, 8.7, 66 18, 12.9, 60 |
| | Bo | GGTGGAGGTAAACACGGAAGCGGAGGTAAACATGGAAGTGG AGGTTCGTCTATG G G G K H G S G G K H G S G G S S M | 4.9 | 79 | |
| V | Bo | AGTCAGATGGA S S D G | 5.3 | 86 | 27, 2.7, 82 |
| GRPI6 (7540) | | | | | |
| I | At | GGAGGAGCGTCG G G A S | 15.5 | 81 | 42, 2.1, 82 24, 11.8, 75 36, 7.1, 75 |
| | Aa1 | GAAGGAGCGTCTGGAGATAAACCGGGAGGAATGTCAGGAGC GGGAGGAGCGTCAGGAGATAAACCA E G A S G D K P G G M S G A G G A S G D K P | 2.6 | 92 | 24, 10.8, 71 18, 2, 83 18, 2, 88 |
| | Aa2 | GGAGGAGCGTCTGGAGATAAACCGGGAGGAATGTCAGGAGC GGGAGGAGCGTCAGGAGATAAACCA G G A S G D K P G G M S G A G G A S G D K P | 2.6 | 95 | 24, 9.8, 72 12, 12.5, 64 |
| | Op | GATAAACCGGGAGGAGCGTCGGGA D K P G G A S G | 3.0 | 78 | 48, 6, 76 (spans I and II) |
| | Cr | GGAGCATCGGGAGGAGCGTCAAGTGGAGCGTCATCAGGAAC ATCGGGTGAAGCGTCATCA G A S G G A S S G A S S G T S G E A S S | 4.8 | 78 | 12, 23.8, 64 36, 9.2, 71 |
| | Si | GATAAACCGACAAAATGCCAGCAGATAAACCGACTGGAGG GCCAAAA D K P T K M P A D K P T G G P K | 4.1 | 85 | 12, 3.8, 72 24, 3.5, 75 |
| | Bo | | 3.1 | 77 | 36, 6.3, 76 |

| Repeat* | Species | Sequence† | Copy no. | % Identity | Overlapping repeats‡ |
|---------------------|---------|---|----------|------------|--|
| | | GGAGGAGCAGCAGATAAACCAAAAGATAATCCGCTGGAGG AGCAACAGATAAGCCAGGAAGTAAACCAGCT G G A A D K P K D K S A G G A T D K P G S K P A | | | 24, 3.5, 70 |
| II | At | GGGGGAGCATCGGGAGATAAACCG G G A S G D K P | 5 | 66 | |
| | Aa1 | GGAGGAGCGTCGGGAGGAGCGCCT G G A S G G A P | 4.2 | 81 | 12, 9.7, 59 36, 2.8, 74 36, 4.2, 67 (spans II and III) |
| | Op | GGAGCGCCGGGAGGAGCGTCAGGAGGAGCAGGAGCACCGGG G G A P G G A S G G A G A P G | 4.7 | 78 | 12, 23.9, 61 42, 5, 82 (extends beyond) 24, 12.2, 62 |
| | Cr | AAATCTGGAGGAACGAAGGGTGATAAATCCGGAGGAGCAAA GGGAGAT K S G G T K G D K S G G A K G D | 7.1 | 73 | 24, 14.9, 69 72, 4.6, 68 |
| | Si | GGAGATAAACCGTTGGAGGGTCAACAGATAAGCTA G D K P V G G S T D K | 2.9 | 86 | |
| | Bo | GATAAACCCGCTGGTGGACCAACAGATAAGCCAGAAAGTAA ACCAGCTGGAGAGGCATCAAATAACCAAAA D K P A G G P T D K P E S K P A G E A S N K P K | 5.4 | 88 | 36, 11.1, 70 12, 4.7, 68 |
| III | Aa1 | GGAGCGCGAGGAGATAAACCGGAGGAAACACCAGGACATAA ACCGGCG G A R G D K P E E T P G H K P A | 2.4 | 74 | 24, 4.9, 76 |
| | Aa2 | GGAGCCCGAGGAGATAAAACTCGGAGGAACACCAGGACATAA ACACGGG G A R G D K L G G T P G H K H G | 2.5 | 74 | 24, 4.9, 77 36, 4.2, 69 |
| | Bo | AAACCGACCGGAGGGACAGAAAAT K P T G G T E N | 3.6 | 66 | |
| GRPI9 (7550) | | | | | |
| | | No conserved repeats detected | | | |

| Repeat* | Species | Sequence† | Copy no. | % Identity | Overlapping repeats‡ |
|---------------------|---------|---|----------|------------|--|
| GRP20 (7560) | | | | | |
| I | At | CCAGCAGCTAAA P A A K | 2.7 | 100 | |
| | Aa1 | GCTGCCCA A A P | 4.3 | 76 | |
| | Aa1 | CCAGCAGCTAAA P A A K | 4.2 | 89 | |
| | Aa2 | CCAGCAGCTAAA P A A K | 3.2 | 92 | |
| | Op | GGAGGTGGAGCTGCCAGCA G G G A A P A | 2.8 | 80 | |
| | Cr | GGAGCTGCATCAGGT G A A S G | 2.4 | 100 | |
| | Cr | CCGGCAGCTAAAAAA P A A K K | 4.6 | 87 | |
| | Si | GCAAAACCAGCAGCCAACAAGCAGCCAAACCTGCA A K P A A K Q A A K P A | 1.9 | 76 | 12, 4.8, 86 |
| GRP21 (7565) | | | | | |
| I | At | GATGCACCTTCACCA D A P S P | 8.3 | 62 | |
| | At | GGACCTCCATCAGATGCACCTACATCAGGT G P P S D A P T S G | 6.1 | 62 | |
| | At | TCAGGGTGGACCTCCA S G G P P | 15.9 | 64 | |
| | At | GGACTTATACCGAGACTTCCTGCACCAAGTGGGCCTGCATC GAGTGGACCTTCACCAGGTGGAGATGCAATGACTGGACCAA CACCGGGAGGACCAACACCGAGTGGACTTACACCGAGATGGA CATTTACCTACTGGAGATATATCAAGTGGAAATTTCAGG TGGATCTCCATCGAATGCACCTTCACCAGGTGGATCTATGA TTGATGGACTTACCAAATGGGCTACATCGGGTGGACCT CCATCAGATGCACCTTCATCAAGTGGACCTCCAATAGATGT ACCTGCAACGGGCAAATCAATACTGGATGGACTTACCAA AAGGACTTACCGAGACGACGAATATTGAGA G L I P R L P A P S G P A S S G P S P G G D A M T G P T P G G P T P S G L T P D G H L P T G D I S S G N F P G G S P S N A P S P G G S M I D G L I P N G P T S G G P P S D A P S S S G P P I D V | 3.1 | 95 | 5, 7.2, 64 30, 3.5, 66 15, 3.3, 72 15, 4, 73 15, 3, 83 15, 3.3, 77 30, 2.1, 85 15, 4, 73 15, 6.2, 64 15, 3.3, 77 30, 2.4, 83 15, 4, 70 15, 8, 64 |

| Repeat* | Species | Sequence† | Copy no. | % Identity | Overlapping repeats‡ |
|---------|---------|---|----------|------------|--|
| | | P A T G K S I L D G L I P K G L I P R R R I L R | | | |
| | At | CCGAAAGGACTTATA P K G L I | 4.6 | 78 | |
| | At | CCAAGTGGACCTTCACCTGGTGGAGATAATCAGGTGGTAC TTCA P S G P S P G G D K S G G T S | 2.4 | 71 | |
| | At | GGACTTATAACCGAGA G L I P R | 5.4 | 71 | |
| | Aa1 | CCAGGTGAAGATGCATCAAATGGAGCTTCCAAAGTGAAGA TACAACAAGTGGAGCTACA P G E D A S N G A F P S E D T T S G A T | 2.3 | 75 | 15, 3.6, 70 30, 3.3, 70 |
| | Aa1 | GCATCGGGTGGACCTCCATCAGATGCATCT A S G G P P S D A S | 10.4 | 68 | 15, 2.3, 85 15, 4.3, 65 45, 7, 62 |
| | Aa1 | GGTGGACCCGCACCAAGATGCACCTGCACCT G G P A P D A P A P | 2.2 | 73 | 15, 32.5, 57 (spans this and previous repeats) |
| | Aa1 | GCACCAGGTGGACCTCCATCGGATAACACCT A P G G P P S D T P | 2.5 | 86 | 15, 3.5, 67 15, 5.3, 67 |
| | Aa1 | CTTATACCGAGACGA L I P R R | 4.9 | 90 | |
| | Aa1 | CCTACACCGAGTGGGG P T P S G | 2.9 | 80 | |
| | Aa1 | CCTACACCAAGATGGACCTCCATCGGATGCA P T P D G P P S D A | 2.5 | 96 | 15, 16.8, 72 |
| | Aa1 | GGACTTATAACCGAGAAGACTTATACCGAAA G L I P R R L I P K | 2.5 | 84 | 15, 4.9, 81 |
| | Aa1 | GCACCAAGATGGACCTTACCGGTGGAGAT A P D G P L P G G D | 3.4 | 63 | |
| | Aa1 | CCTACACCAAGGTGGACCTCCATCAGATGCA P T P G G P P S D A | 2.5 | 80 | 15, 6.4, 68 |
| | Aa1 | GGACTTATAACCGAGA G L I P R | 5 | 86 | |
| | Aa1 | AGTGGACCCGCACCGGATGGACCTTCACCTGGTGGAGATGC AATG S G P A P D G P S P G G D A | 1.9 | 81 | 15, 5.2, 68 |

| Repeat* | Species | Sequence† | Copy no. | % Identity | Overlapping repeats‡ |
|---------|---------|---|----------|------------|---|
| | | M | | | |
| | Aa1 | CTTATACCGAGACGA L I P R R | 5 | 81 | |
| | Aa1 | GCACAGAGTGGACCTCACCTGGTGGACAT A Q S G P S P G G H | 2.8 | 72 | 15, 6.6, 74 |
| | Aa2 | CCAGGTGAAGATGCATCAAATGGAGCTTACCAAGTGAAGA TACAACGAGTGCAGCTACA P G E D A S N G A L P S E D T T S A A T | 2.3 | 80 | 30, 4.9, 69 15, 10.4, 61 |
| | Aa2 | CCACCGGATGCATCTGCACCGGATAGATCT P P D A S A P D R S | 4.5 | 76 | 15, 9, 75 45, 2.9, 73 |
| | Aa2 | CCTGCACCCGGTGGACCTCCATCAGATGCA P A P G G P P S D A | 4.5 | 83 | 15, 47.3, 56 (spans this and the next repeat) |
| | Aa2 | CCAGGTGGACCTATA P G G P I | 32.7 | 61 | 15, 6, 78 15, 6.3, 76 |
| | Aa2 | GGTGGACTTACATTAGGTGGACCTAAAACA G G L T L G G P K T | 3.8 | 73 | 15, 6.3, 72 |
| | Aa2 | GGACTTATACCAAGA G L I P R | 4 | 84 | |
| | Aa2 | CCTGCACCCGGTGG P A P G G | 17 | 62 | |
| | Aa2 | GGACTTATACCGAGA G L I P R | 8 | 92 | |
| | Aa2 | GCACCGAGTGGACCC A P S G P | 2.7 | 100 | |
| | Aa2 | AGTGGACCCGCACCGAGTGGACTTCACTGGATGAAGATGC AATG S G P A P S G T S L D E D A M | 1.9 | 75 | |
| | Aa2 | GGACTTATACCGAGA G L I P R | 4 | 91 | |
| | Op | GGAGATGCATCAGGGGGAGGTGCACCAAGTCGGAGATGCATC AGGGGGAGGTGCACCGTTGGAGATGCATCAGGGGGAGGTTT GCCGTTT G D A S G G G A P V G D A S G G G A P L E M H Q G E V C R | 21.3 | 71 | 30, 58.1, 77 15, 11.6, 63 15, 14.7, 64 15, 13.3, 71 60, 32.4, 72 30, 7.3, 85 |
| | Op | GGAGATGCATCGGGTGGAGCTGCACCGATT G D A S G G A A P I | 3.4 | 70 | 15, 3.1, 67 |

| Repeat* | Species | Sequence† | Copy no. | % Identity | Overlapping repeats‡ |
|---------------------|---------|--|----------|------------|--|
| | Cr | CCGATTGGAGACACACCGGTTGGAGACACATCGGGTGGAGC CGCACCA P I G D T P V G D T S G G A A P | 2 | 82 | 15, 6.8, 67 30, 2.1, 84 |
| II | At | CCATCATCTAAACCGACATCTAAA P S S K P T S K | 19.1 | 77 | 12, 37.4, 68 |
| | Aa1 | CCATCATCAAAACCGACAGCAAAA P S S K P T A K | 48 | 65 | 12, 43.4, 65 48, 9.4, 73 36, 19.0, 66 |
| | Aa2 | CCGACATCAAAACCGACAACAAAA P T S K P T T K | 48.7 | 69 | 12, 38, 70 24, 24.3, 71 36, 31.5, 67 |
| | Op | AAACCAACAACT K P T T | 33.8 | 65 | |
| | Op | AAACGACAGCAAAACCGACAGCAAAACCGACAGTAAACCG GCAGCTA K T T A K P T A K P T V K P A A | 18.1 | 70 | 24, 36.3, 71 12, 63.3, 69 12, 86.9, 60 |
| | Op | CCGGCTAACCCAGTAACCTAAA P A K P V T K | 2 | 85 | |
| | Cr | AACCGACATCAAAACCAACATCTAAACCGAAAAACTA P T S K P T S K P K T K | 2.9 | 69 | 12, 8.5, 70 |
| GRP22 (7600) | | | | | |
| I | At | GCTGGT A G | 20.2 | 77 | 3, 41.7, 66 |
| | Aa1 | GCAGGTGCAAGTACACCT A G A M T P | 4.1 | 67 | |
| | Aa2 | GCTGGT A G | 16.2 | 82 | |
| | Cr | GCACCCGCAGCAAGTACACCC A P A A S T P | 3.2 | 75 | 15, 5.4, 68 |

As in Table 3, repeated sequences, numbered (*) were categorized by length and sequence content and are grouped in order of occurrence in each gene; species are abbreviated as in Fig. 2. Consensus repeat sequences (†), adjusted to begin at the first position of a codon and to maintain periodicity between species; nucleotide sequence (upper row); protein sequence (lower row). Sequence length, copy number, and % identity are shown, respectively, for overlapping, internal repeats (‡).