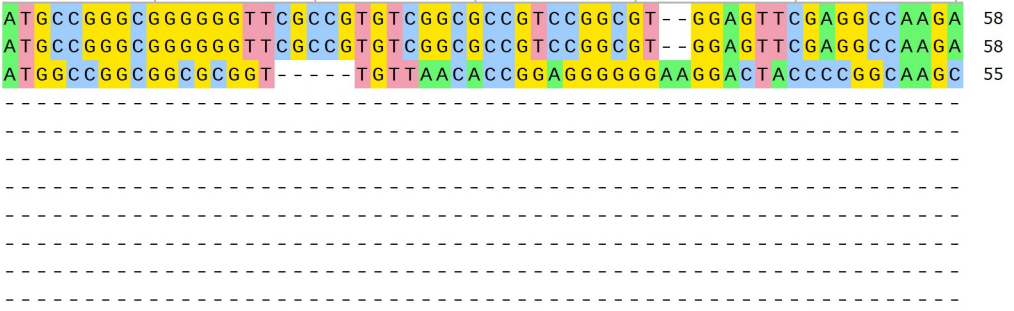
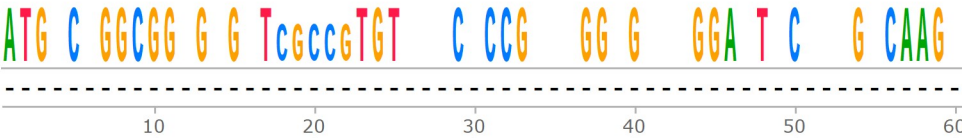


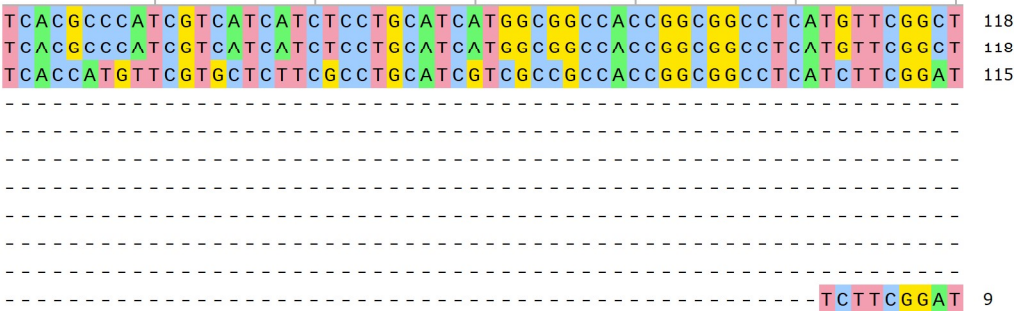
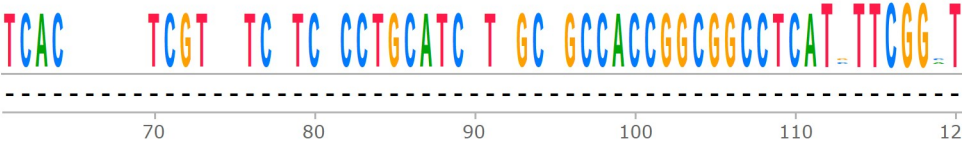
Consensus

Lr67(sus)
Lr67(res)
ScLr_SUG4 (Lo7)
ScLr_SUG4_118_DANKO_APR
ScLr_SUG4_120_DANKO_APR
ScLr_SUG4_71_PHR_APR
ScLr_SUG4_149_PHR_APR
ScLr_SUG4_59_DANKO_non-APR
ScLr_SUG4_61_DANKO_non-APR
ScLr_SUG4_88_PHR_non-APR
ScLr_SUG4_105_PHR_non-APR



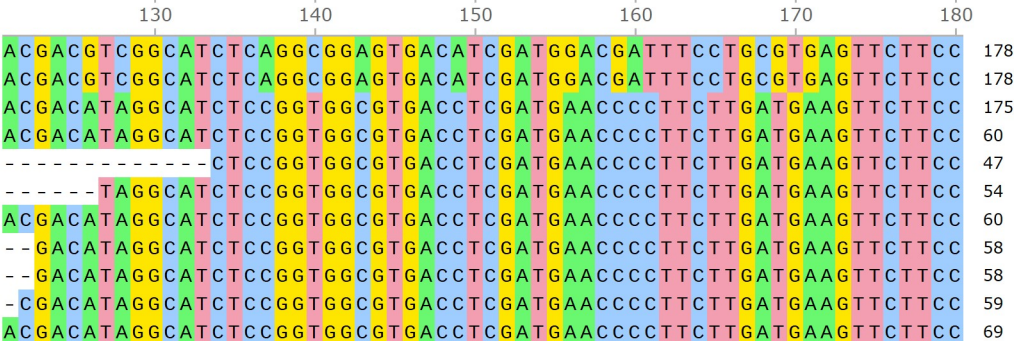
Consensus

Lr67(sus)
Lr67(res)
ScLr_SUG4 (Lo7)
ScLr_SUG4_118_DANKO_APR
ScLr_SUG4_120_DANKO_APR
ScLr_SUG4_71_PHR_APR
ScLr_SUG4_149_PHR_APR
ScLr_SUG4_59_DANKO_non-APR
ScLr_SUG4_61_DANKO_non-APR
ScLr_SUG4_88_PHR_non-APR
ScLr_SUG4_105_PHR_non-APR



Consensus

Lr67(sus)
Lr67(res)
ScLr_SUG4 (Lo7)
ScLr_SUG4_118_DANKO_APR
ScLr_SUG4_120_DANKO_APR
ScLr_SUG4_71_PHR_APR
ScLr_SUG4_149_PHR_APR
ScLr_SUG4_59_DANKO_non-APR
ScLr_SUG4_61_DANKO_non-APR
ScLr_SUG4_88_PHR_non-APR
ScLr_SUG4_105_PHR_non-APR



Consensus

Lr67(sus)
Lr67(res)
ScLr_SUG4 (Lo7)
ScLr_SUG4_118_DANKO_APR
ScLr_SUG4_120_DANKO_APR
ScLr_SUG4_71_PHR_APR
ScLr_SUG4_149_PHR_APR
ScLr_SUG4_59_DANKO_non-APR
ScLr_SUG4_61_DANKO_non-APR
ScLr_SUG4_88_PHR_non-APR
ScLr_SUG4_105_PHR_non-APR



TCCAGCTGATGGTACGATCGGCATCCTGTGCGCGAACCTGATCAACTACGGGACGGCTA

550 560 570 580 590 600

TCCAGCTGAACTGACCATCGGCATCCTGTTGCGGAACCTGGTGAACACGGGCACGAGCA	580
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TCCAGCTGATGGTGACGATCGGCATCCTGTGCGCGAACCTGATCAACTACGGGACGGCCA	471
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TCCAGCTGATGGTCACGATCGGCATCCTGTGCGCGAACCTGATCAACTACGGGACGGCTA	465
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TCCAGCTGATGGTCACGATCGGCATCCTGTGCGCGAACCTGATCAACTACGGGACGGCTA	470
TCCAGCTGATGGTCACGATCGGCATCCTGTGCGCGAACCTGATCAACTACGGGACGGCTA	480

Consensus

Lr67(sus)
Lr67(res)
ScLr_SUG4 (Lo7)
ScLr_SUG4_118_DANKO_APR
ScLr_SUG4_120_DANKO_APR
ScLr_SUG4_71_PHR_APR
ScLr_SUG4_149_PHR_APR
ScLr_SUG4_59_DANKO_non-APR
ScLr_SUG4_61_DANKO_non-APR
ScLr_SUG4_88_PHR_non-APR
ScLr_SUG4_105_PHR_non-APR



AGATCAAGGGCGGGTGGGGCTGGCGCGTGAGCCTCGCGCTGGCCGCGGGTGCCGGCCGGAA

610 620 630 640 650 660

AGATCCA---CCC GTGGGGCTGGCGGCTGTGCTGTGCTGGCCGGCATCCCGGCGGGCGA	637
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AGATCAAGGGCGGGTGGGGCTGGCGCGTGAGCCTCGCGCTGGCCGCGGGTGCCGGCCGGAA	540

Consensus

Lr67(sus)
Lr67(res)
ScLr_SUG4 (Lo7)
ScLr_SUG4_118_DANKO_APR
ScLr_SUG4_120_DANKO_APR
ScLr_SUG4_71_PHR_APR
ScLr_SUG4_149_PHR_APR
ScLr_SUG4_59_DANKO_non-APR
ScLr_SUG4_61_DANKO_non-APR
ScLr_SUG4_88_PHR_non-APR
ScLr_SUG4_105_PHR_non-APR



TCATCGCCATCGGCGCGCTCTTCCTCCCCGACACCCCCAACTCCCTCATCGACCGCGGCT

670 680 690 700 710 720

TGCTCACCCCTGGGCGCGCTCTTCGTACCGGACACCCCCAACAGCCTCATCGAGCGCGGCC	697
TGCTCACCCCTGGGCGCGCTCTTCGTACCGGACACCCCCAACAGCCTCATCGAGCGCGGCC	697
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TCATCGCCATCGGCGCGCTCTTCCTCCCCGACACCCCCAACTCCCTCATCGACCGCGGCT	591
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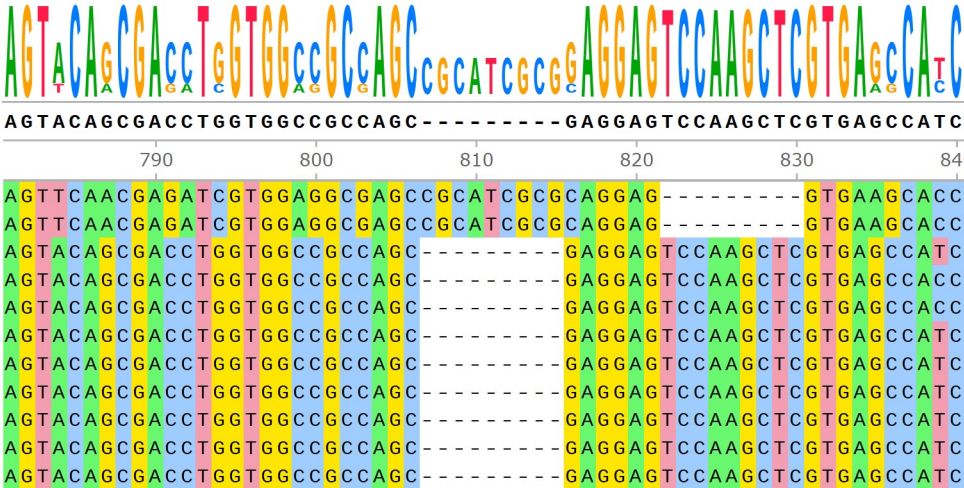
Consensus

Lr67(sus)
Lr67(res)
ScLr_SUG4 (Lo7)
ScLr_SUG4_118_DANKO_APR
ScLr_SUG4_120_DANKO_APR
ScLr_SUG4_71_PHR_APR
ScLr_SUG4_149_PHR_APR
ScLr_SUG4_59_DANKO_non-APR
ScLr_SUG4_61_DANKO_non-APR
ScLr_SUG4_88_PHR_non-APR
ScLr_SUG4_105_PHR_non-APR



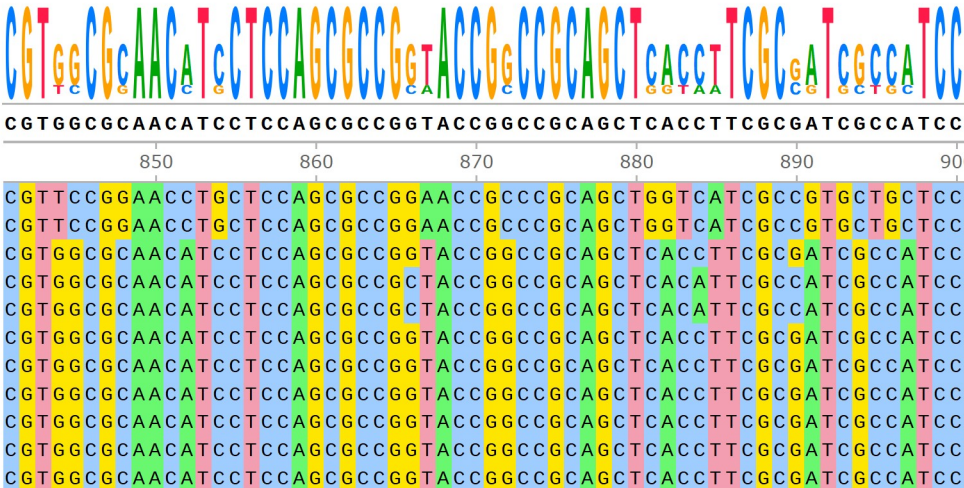
Consensus

Lr67(sus)
Lr67(res)
ScLr_SUG4 (Lo7)
ScLr_SUG4_118_DANKO_APR
ScLr_SUG4_120_DANKO_APR
ScLr_SUG4_71_PHR_APR
ScLr_SUG4_149_PHR_APR
ScLr_SUG4_59_DANKO_non-APR
ScLr_SUG4_61_DANKO_non-APR
ScLr_SUG4_88_PHR_non-APR
ScLr_SUG4_105_PHR_non-APR



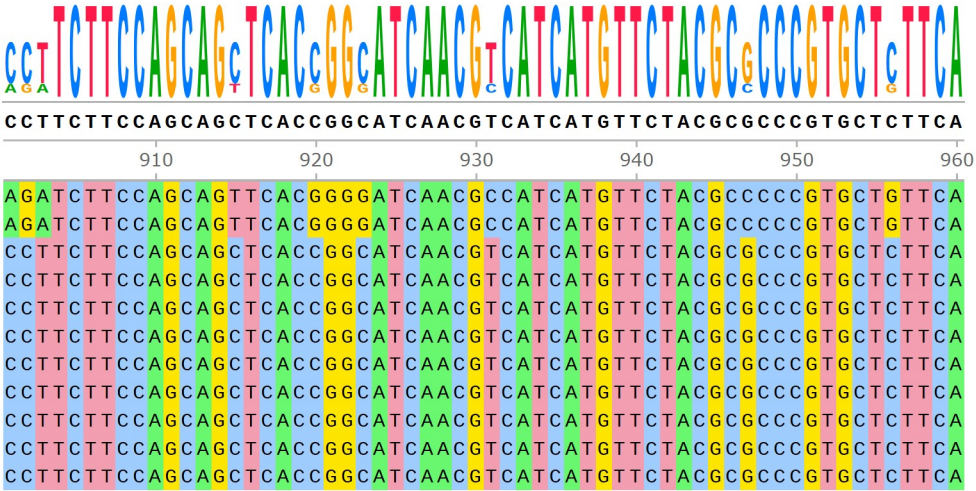
Consensus

Lr67(sus)
Lr67(res)
ScLr_SUG4 (Lo7)
ScLr_SUG4_118_DANKO_APR
ScLr_SUG4_120_DANKO_APR
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ScLr_SUG4_149_PHR_APR
ScLr_SUG4_59_DANKO_non-APR
ScLr_SUG4_61_DANKO_non-APR
ScLr_SUG4_88_PHR_non-APR
ScLr_SUG4_105_PHR_non-APR



Consensus

Lr67(sus)
Lr67(res)
ScLr_SUG4 (Lo7)
ScLr_SUG4_118_DANKO_APR
ScLr_SUG4_120_DANKO_APR
ScLr_SUG4_71_PHR_APR
ScLr_SUG4_149_PHR_APR
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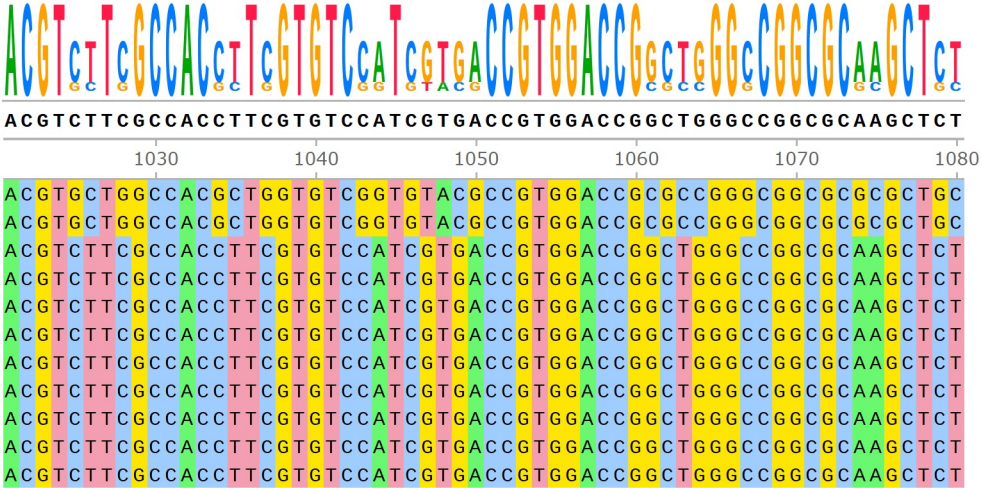
Consensus

Lr67(sus)
Lr67(res)
ScLr_SUG4 (Lo7)
ScLr_SUG4_118_DANKO_APR
ScLr_SUG4_120_DANKO_APR
ScLr_SUG4_71_PHR_APR
ScLr_SUG4_149_PHR_APR
ScLr_SUG4_59_DANKO_non-APR
ScLr_SUG4_61_DANKO_non-APR
ScLr_SUG4_88_PHR_non-APR
ScLr_SUG4_105_PHR_non-APR



Consensus

Lr67(sus)
Lr67(res)
ScLr_SUG4 (Lo7)
ScLr_SUG4_118_DANKO_APR
ScLr_SUG4_120_DANKO_APR
ScLr_SUG4_71_PHR_APR
ScLr_SUG4_149_PHR_APR
ScLr_SUG4_59_DANKO_non-APR
ScLr_SUG4_61_DANKO_non-APR
ScLr_SUG4_88_PHR_non-APR
ScLr_SUG4_105_PHR_non-APR



Consensus

Lr67(sus)
Lr67(res)
ScLr_SUG4 (Lo7)
ScLr_SUG4_118_DANKO_APR
ScLr_SUG4_120_DANKO_APR
ScLr_SUG4_71_PHR_APR
ScLr_SUG4_149_PHR_APR
ScLr_SUG4_59_DANKO_non-APR
ScLr_SUG4_61_DANKO_non-APR
ScLr_SUG4_88_PHR_non-APR
ScLr_SUG4_105_PHR_non-APR



TCCTGCAGGGGCGGCACCCAGATGCTGGCCTGC - - CAGATCGTGGTGGGCAGCCTGATCGG

1090 1100 1110 1120 1130 1140

TGCTGGAGGGCTGGCGTGCGAGATGTT - - CCTGTCGCAGGTGGTGATCGCCGTGGTGCTGGG	1106
TGCTGGAGGGCTGGCGTGCGAGATGTT - - CCTGTCGCAGGTGGTGATCGCCGTGGTGCTGGG	1106
TCCTGCAGGGGCGGCACCCAGATGCTGGCCTGC - - CAGATCGTGGTGGGCAGCCTGATCGG	1115
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TCCTGCAGGGGCGGCACCCAGATGCTGGCCTGC - - CAGATCGTGGTGGGCAGCCTGATCGG	1009

Consensus

Lr67(sus)
Lr67(res)
ScLr_SUG4 (Lo7)
ScLr_SUG4_118_DANKO_APR
ScLr_SUG4_120_DANKO_APR
ScLr_SUG4_71_PHR_APR
ScLr_SUG4_149_PHR_APR
ScLr_SUG4_59_DANKO_non-APR
ScLr_SUG4_61_DANKO_non-APR
ScLr_SUG4_88_PHR_non-APR
ScLr_SUG4_105_PHR_non-APR



CGCCAAAGTTTCGGGTTCAACGGGCGTGCCGACATCCC - - - CAAGGGGTACGCGGCGTTCTGT

1150 1160 1170 1180 1190 1200

CATCAA - - - - - GGTGACGGACAAGTCGGACAACCTGGGCCACGGGTGGGCCATCCTGGT	1160
CATCAA - - - - - GGTGACGGACAAGTCGGACAACCTGGGCCACGGGTGGGCCATCCTGCT	1160
CGCCAAAGTTTCGGGTTCAACGGGCGTGCCGACATCCC - - - CAAGGGGTACGCGGCGTTCTGT	1172
CGCCAAAGTTTCGGGTTCAACGGGCGTGCCGACATCCC - - - CAAGGGGTACGCGGCGTTCTGT	1057
CGCCAAAGTTTCGGGTTCAACGGGCGTGCCGACATCCC - - - CAAGGGGTACGCGGCGTTCTGT	1044
CGCCAAAGTTTCGGGTTCAACGGGCGTGCCGACATCCC - - - CAAGGGGTACGCGGCGTTCTGT	1051
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CGCCAAAGTTTCGGGTTCAACGGGCGTGCCGACATCCC - - - CAAGGGGTACGCGGCGTTCTGT	1056
CGCCAAAGTTTCGGGTTCAACGGGCGTGCCGACATCCC - - - CAAGGGGTACGCGGCGTTCTGT	1066

Consensus

Lr67(sus)
Lr67(res)
ScLr_SUG4 (Lo7)
ScLr_SUG4_118_DANKO_APR
ScLr_SUG4_120_DANKO_APR
ScLr_SUG4_71_PHR_APR
ScLr_SUG4_149_PHR_APR
ScLr_SUG4_59_DANKO_non-APR
ScLr_SUG4_61_DANKO_non-APR
ScLr_SUG4_88_PHR_non-APR
ScLr_SUG4_105_PHR_non-APR



GGTGCTCTTCATCTGCGCGTACGTGGCCGGGTTTCGCGTGGTCTCTGGGGCCCCGCTGGGGTG

1210 1220 1230 1240 1250 1260

GGTGGTCAATGGTGTGCACCTACGTGGCCTCCTTCGCTGGTCTCTGGGGCCCCGCTGGGGTG	1220
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GGTGCTCTTCATCTGCGCGTACGTGGCCGGGTTTCGCGTGGTCTCTGGGGCCCCGCTGGGGTG	1232
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GGTGCTCTTCATCTGCGCGTACGTGGCCGGGTTTCGCGTGGTCTCTGGGGCCCCGCTGGGGTG	1115
GGTGCTCTTCATCTGCGCGTACGTGGCCGGGTTTCGCGTGGTCTCTGGGGCCCCGCTGGGGTG	1116
GGTGCTCTTCATCTGCGCGTACGTGGCCGGGTTTCGCGTGGTCTCTGGGGCCCCGCTGGGGTG	1126

Consensus

Lr67(sus)
Lr67(res)
ScLr_SUG4 (Lo7)
ScLr_SUG4_118_DANKO_APR
ScLr_SUG4_120_DANKO_APR
ScLr_SUG4_71_PHR_APR
ScLr_SUG4_149_PHR_APR
ScLr_SUG4_59_DANKO_non-APR
ScLr_SUG4_61_DANKO_non-APR
ScLr_SUG4_88_PHR_non-APR
ScLr_SUG4_105_PHR_non-APR



GCTCGTCCCCAGCGAGATCTTCCCGCTGGAGATCAGGTCGGCGGGGCAGAGCATCACCGT

1270 1280 1290 1300 1310 1320

GCTCATCCCCAGCGAGACGTTCCCGCTGGAGACGCGGTCGGCGGGGCAGAGCGTGACGGT	1280
GCTCATCCCCAGCGAGACGTTCCCGCTGGAGACGCGGTCGGCGGGGCAGAGCGTGACGGT	1280
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GCTCGTCCCCAGCGAGATCTTCCCGCTGGAGATCAGGTCGGCGGGGCAGAGCATCACCGT	1175
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GCTCGTCCCCAGCGAGATCTTCCCGCTGGAGATCAGGTCGGCGGGGCAGAGCATCACCGT	1186

Consensus

Lr67(sus)
Lr67(res)
ScLr_SUG4 (Lo7)
ScLr_SUG4_118_DANKO_APR
ScLr_SUG4_120_DANKO_APR
ScLr_SUG4_71_PHR_APR
ScLr_SUG4_149_PHR_APR
ScLr_SUG4_59_DANKO_non-APR
ScLr_SUG4_61_DANKO_non-APR
ScLr_SUG4_88_PHR_non-APR
ScLr_SUG4_105_PHR_non-APR



GTCCATGAACATGCTGTGACACCTTCATCATCGCGCAGGCGTTTCTCCCCATGCTCTGCCG

1330 1340 1350 1360 1370 1380

GTGCGTCAACCTGCTCTTACCTTCTCATCGCGCAGGCGTTTCTCTCCATGCTCTGCCA	1340
GTGCGTCAACCTGCTCTTACCTTCTCATCGCGCAGGCGTTTCTCTCCATGCTCTGCCA	1340
GTCCATGAACATGCTGTGACACCTTCATCATCGCGCAGGCGTTTCTCCCCATGCTCTGCCG	1352
GTCCATGAACATGCTGTGACACCTTCATCATCGCGCAGGCGTTTCTCCCCATGCTCTGCCG	1237
GTCCATGAACATGCTGTGACACCTTCATCATCGCGCAGGCGTTTCTCCCCATGCTCTGCCG	1224
GTCCATGAACA-----	1182
GTCCATGAACATGCTGTGACACCTTCATCATCGCGCAGGCGTTTCTCCCCATGCTCTGCCG	1237
GTCCATGAACATGCTGTGACACCTTCATCATCGCGCAGGCGTTTCTCCCCA-----	1225
GTCCATGAACATGCTGTGACACCTTCATCATCGCGCAGGCGTTTCTCCCCATGCTCTGCCG	1235
GTCCATGAACATGCTGTGACACCTTCATCATCGCGCAGGCGTTTCTCCCCATGCTCTGCCG	1236
GTCCATGAACATGCTGTGACACCTTCATCATCGCGCAGGCGTTTCTCCCCATGCTCTGCCG	1246

Consensus

Lr67(sus)
Lr67(res)
ScLr_SUG4 (Lo7)
ScLr_SUG4_118_DANKO_APR
ScLr_SUG4_120_DANKO_APR
ScLr_SUG4_71_PHR_APR
ScLr_SUG4_149_PHR_APR
ScLr_SUG4_59_DANKO_non-APR
ScLr_SUG4_61_DANKO_non-APR
ScLr_SUG4_88_PHR_non-APR
ScLr_SUG4_105_PHR_non-APR



CTTGAAGTTTCATGNTCT-----

1390 1400 1410 1420 1430 1440

CCTCAAGTTTCGCCATCTTCTTCTCGGCCTGGGTGCTCGTCTATGTCCGTCTTCGT	1400
CCTCAAGTTTCGCCATCTTCTTCTCGGCCTGGGTGCTCGTCTATGTCCGTCTTCGT	1400
CTTGAAGTTTCATGCTCTTCTTCTTCTCGGCCTGGGTGATCGTCTATGACCCCTCTTCGT	1412
CTTGAAGTTTCATG-----	1250
CTTGAAGTTTCATGCTCTC-----	1242
-----	1182
CTTGAAGTTTCATGCTCTC-----	1255
-----	1225
CTTGAAGTTTC-----	1245
CTTGAAGTTTCATGCTCT-----	1253
CTTGAAGTTTCATGCTCT-----	1263

Consensus

Lr67(sus)	GCTCTTCTTCTCCCGGAGACCAAGAACGTGCCCATCGAGGAGATGCAAGGTGTG	1460
Lr67(res)	GCTCTTCTTCTCCCGGAGACCAAGAACGTGCCCATCGAGGAGATGACCGACAAGGTGTG	1460
ScLr_SUG4 (Lo7)	TGCCCTTCTTCTGCCGGAGACCAAGAACGTGCCCATCGAGGAGATGGTGCTC--GTGTG	1469
ScLr_SUG4_118_DANKO_APR	-----	1250
ScLr_SUG4_120_DANKO_APR	-----	1242
ScLr_SUG4_71_PHR_APR	-----	1182
ScLr_SUG4_149_PHR_APR	-----	1255
ScLr_SUG4_59_DANKO_non-APR	-----	1225
ScLr_SUG4_61_DANKO_non-APR	-----	1245
ScLr_SUG4_88_PHR_non-APR	-----	1253
ScLr_SUG4_105_PHR_non-APR	-----	1263

Consensus

Lr67(sus)	GAAGGCACTGGTCTGGA G TTCAT CGACGA GAC CAC C C CG	1519
Lr67(res)	GAAGCAGCACTGGTTCTGGAAGAGATTCTGGACGACGACGACCACCACCACAACATCG-	1519
ScLr_SUG4 (Lo7)	GAAGGCGCACTGGTACTGGAGCCGCTTCATCCGCGACGAGGACGTGCACGTCGGCGGCGG	1529
ScLr_SUG4_118_DANKO_APR	-----	1250
ScLr_SUG4_120_DANKO_APR	-----	1242
ScLr_SUG4_71_PHR_APR	-----	1182
ScLr_SUG4_149_PHR_APR	-----	1255
ScLr_SUG4_59_DANKO_non-APR	-----	1225
ScLr_SUG4_61_DANKO_non-APR	-----	1245
ScLr_SUG4_88_PHR_non-APR	-----	1253
ScLr_SUG4_105_PHR_non-APR	-----	1263

Consensus

Lr67(sus)	CCAACGGCAAG C C G C TGA	1545
Lr67(res)	CCAACGGCAAGAACGCCACCGTC	1545
ScLr_SUG4 (Lo7)	CGCAGACGTCGAGATGCGCTCCAACGGCAAGGTCCAGGCTGCCAAGCTCCCGTGA	1584
ScLr_SUG4_118_DANKO_APR	-----	1250
ScLr_SUG4_120_DANKO_APR	-----	1242
ScLr_SUG4_71_PHR_APR	-----	1182
ScLr_SUG4_149_PHR_APR	-----	1255
ScLr_SUG4_59_DANKO_non-APR	-----	1225
ScLr_SUG4_61_DANKO_non-APR	-----	1245
ScLr_SUG4_88_PHR_non-APR	-----	1253
ScLr_SUG4_105_PHR_non-APR	-----	1263

Sequence Logo: 50% GC base composition

Consensus Threshold: >50%

Colors: 4-color highlighting

Created: 26 lis 2024

Last Modified: 26 lis 2024

