SEQUENCE LISTING

SEQ ID NO:1

SZ02613

TGTTGAAGAATGAGCCGGCGAC

SEQ ID NO:2

SZ02615

CAGTGAGCTATTACGCACTC

SEQ ID NO:3

UTEX 25

TGTTGAAGAATGAGCCGGCGACTTAGAAAACGTGGCAAGGTTAAGGAAAC
GTATCCGGAGCCGAAGCGAAAGCAAGTCTGAACAGGGCGATTAAGTCATT
TTTTCTAGACCCGAACCCGGGTGATCTAACCATGACCAGGATGAAGCTTG
GGTGACACCAAGTGAAGGTCCGAACCGACCGATGTTGAAAAATCGGCGGA
TGAGTTGTGGTTAGCGGTGAAATACCAGTCGAACTCGGAGCTAGCTGGTT
CTCCCCGAAATGCGTTGAGGCGCAGCGGTTCATAAGGCTGTCTAGGGGTA
AAGCACTGTTTCGGTGCGGGCTGCGAAAGCGGTACCAAATCGTGGCAAAC
TCTGAATACTAGATATGCTATTTATGGGCCAGTGAGACGGTGGGGGATAA
GCTTCATCGTCGAGAGGGAAACAGCCCAGATCACTAGCTAAGGCCCCAAA
ATGATCGTTAAGTGACAAAGGAGGTGAGAATGCAGAAACAACCAGGAGGT
TTGCTTAGAAGCAGCCACCCTTTAAAGAGTGCGTAATAGCTCACTG

SEQ ID NO:4

UTEX 249, UTEX 250, UTEX 256, UTEX 264, UTEX 411, CCAP 211/17 and CCAP 211/8d

TGTTGAAGAATGAGCCGGCGACTTAGAAAAAGTGGCGTGGTTAAGGAAAA
ATTCCGAAGCCTTAGCGAAAGCGAGTCTGAATAGGGCGATCAAATATTTT
AATATTTACAATTTAGTCATTTTTTCTAGACCCGAACCCGGGTGATCTAA
CCATGACCAGGATGAAACTTGGGTGATACCAAGTGAAGGTCCGAACCGAC
CGATGTTGAAAAATCGGCGGATGAGTTGTGGTTAGCGGTGAAATACCAGT
CGAACCCGGAGCTAGCTGGTTCTCCCCGAAATGCGTTGAGGCGCAGCAGT
ACATCTAGTCTATCTAGGGGTAAAGCACTGTTTCGGTGCGGGCTGTGAAA
ACGGTACCAAATCGTGGCAAACTCTGAATACTAGAAATGACGGTGTAGTA

GTGAGACTGTGGGGGATAAGCTCCATTGTCAAGAGGGAAACAGCCCAGAC
CACCAGCTAAGGCCCCAAAATGGTAATGTAGTGACAAAGGAGGTGAAAAT
GCAAACACAACCAGGAGGTTGGCTTAGAAGCAGCCATCCTTTAAAGAGTG
CGTAATAGCTCACTG

SEQ ID NO:5

Prototheca moriformis UTEX 1436

TGTTGAAGAATGAGCCGGCGACTTAGAAAAGGTGGCATGGTTAAGGAAATATTC
CGAAGCCGTAGCAAAAGCGAGTCTGAATAGGGCGATAAAATATATTAATATTTA
GAATCTAGTCATTTTTTCTAGACCCGAACCCGGGTGATCTAACCATGACCAGGAT
GAAGCTTGGGTGATACCAAGTGAAGGTCCGAACCGACCGATGTTGAAAAATCGG
CGGATGAGTTGTGGTTAGCGGTGAAATACCAGTCGAACCCGGAGCTAGCTGGTT
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ACTGTTTCGGTGCGGGCTGTGAGAACGGTACCAAATCGTGGCAAACTCTGAATAC
TAGAAATGACGATGTAGTAGTGAGACTGTGGGGGATAAGCTCCATTGTCAAGAG
GGAAACAGCCCAGACCACCAGCTAAGGCCCCAAAATGGTAATGTAGTGACAAAG
GAGGTGAAAATGCAAATACAACCAGGAGGTTGGCTTAGAAGCAGCCATCCTTTA
AAGAGTGCGTAATAGCTCACTG

SEQ ID NO:6

UTEX 1435, 1437, 1439

TGTTGAAGAATGAGCCGGCGACTTAAAATAAATGGCAGGCTAAGAGAATTAATA
ACTCGAAACCTAAGCGAAAGCAAGTCTTAATAGGGCGCTAATTTAACAAAACAT
TAAATAAAATCTAAAGTCATTTATTTTAGACCCGAACCTGAGTGATCTAACCATG
GTCAGGATGAAACTTGGGTGACACCAAGTGGAAGTCCGAACCGACCGATGTTGA
AAAATCGGCGGATGAACTGTGGTTAGTGGTGAAATACCAGTCGAACTCAGAGCT
AGCTGGTTCTCCCCGAAATGCGTTGAGGCGCAGCAATATATCTCGTCTATCTAGG
GGTAAAGCACTGTTTCGGTGCGGGCTATGAAAATGGTACCAAATCGTGGCAAAC
TCTGAATACTAGAAATGACGATATATTAGTGAGACTATGGGGGATAAGCTCCAT
AGTCGAGAGGGAAACAGCCCAGACCACCAGTTAAGGCCCCAAAATGATAATGAA
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CATCCTTTAAAGAGTGCGTAATAGCTCACTG

SEQ ID NO:7

TGTTGAAGAATGAGCCGGCGACTTAGAAAAAGTGGCGTGGTTAAGGAAAAATTC
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AATTTAGTCATTTTTTCTAGACCCGAACCCGGGTGATCTAACCATGACCAGGATG
AAACTTGGGTGATACCAAGTGAAGGTCCGAACCGACCGATGTTGAAAAATCGGC
GGATGAGTTGTGGTTAGCGGTGAAATACCAGTCGAACCCGGAGCTAGCTGGTTCT
CCCCGAAATGCGTTGAGGCGCAGCAGTACATCTAGTCTATCTAGGGGTAAAGCA
CTGTTTCGGTGCGGGCTGTGAAAACGGTACCAAATCGTGGCAAACTCTGAATACT
AGAAATGACGGTGTAGTAGTGAGACTGTGGGGGATAAGCTCCATTGTCAAGAGG
GAAACAGCCCAGACCACCAGCTAAGGCCCCAAAATGGTAATGTAGTGACAAAGG
AGGTGAAAATGCAAACACAACCAGGAGGTTGGCTTAGAAGCAGCCATCCTTTAA
AGAGTGCGTAATAGCTCACTG

SEQ ID NO:8

TGTTGAAGAATGAGCCGGCGACTTAGAAAACGTGGCAAGGTTAAGGAAACGTAT
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ACCCGAACCCGGGTGATCTAACCATGACCAGGATGAAGCTTGGGTGACACCAAG
TGAAGGTCCGAACCGACCGATGTTGAAAAATCGGCGGATGAGTTGTGGTTAGCG
GTGAAATACCAGTCGAACTCGGAGCTAGCTGGTTCTCCCCGAAATGCGTTGAGGC
GCAGCGGTTCATAAGGCTGTCTAGGGGTAAAGCACTGTTTCGGTGCGGGCTGCG
AAAGCGGTACCAAATCGTGGCAAACTCTGAATACTAGATATGCTATTTATGGGCC
AGTGAGACGGTGGGGGATAAGCTTCATCGTCGAGAGGGAAACAGCCCAGATCAC
TAGCTAAGGCCCCAAAATGATCGTTAAGTGACAAAGGAGGTGAGAATGCAGAAA
CAACCAGGAGGTTTGCTTAGAAGCAGCCACCCTTTAAAGAGTGCGTAATAGCTC
ACTG

SEQ ID NO:9

TGTTGAAGAATGAGCCGGCGACTTAGAAAAAGTGGCGTGGTTAAGGAAAAATTC
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AATTTAGTCATTTTTTCTAGACCCGAACCCGGGTGATCTAACCATGACCAGGATG
AAACTTGGGTGATACCAAGTGAAGGTCCGAACCGACCGATGTTGAAAAATCGGC
GGATGAGTTGTGGTTAGCGGTGAAATACCAGTCGAACCCGGAGCTAGCTGGTTCT
CCCCGAAATGCGTTGAGGCGCAGCAGTACATCTAGTCTATCTAGGGGTAAAGCA

CTGTTTCGGTGCGGGCTGTGAAAACGGTACCAAATCGTGGCAAACTCTGAATACT
AGAAATGACGGTGTAGTAGTGAGACTGTGGGGGATAAGCTCCATTGTCAAGAGG
GAAACAGCCCAGACCACCAGCTAAGGCCCCAAAATGGTAATGTAGTGACAAAGG
AGGTGAAAATGCAAACACAACCAGGAGGTTGGCTTAGAAGCAGCCATCCTTTAA
AGAGTGCGTAATAGCTCACTG

SEQ ID NO:10

TGTTGAAGAATGAGCCGGCGACTTAGAAAAAGTGGCGTGGTTAAGGAAAAATTC
CGAAGCCTTAGCGAAAGCGAGTCTGAATAGGGCGATCAAATATTTTAATATTTAC
AATTTAGTCATTTTTTCTAGACCCGAACCCGGGTGATCTAACCATGACCAGGATG
AAACTTGGGTGATACCAAGTGAAGGTCCGAACCGACCGATGTTGAAAAATCGGC
GGATGAGTTGTGGTTAGCGGTGAAATACCAGTCGAACCCGGAGCTAGCTGGTTCT
CCCCGAAATGCGTTGAGGCGCAGCAGTACATCTAGTCTATCTAGGGGTAAAGCA
CTGTTTCGGTGCGGGCTGTGAAAACGGTACCAAATCGTGGCAAACTCTGAATACT
AGAAATGACGGTGTAGTAGTGAGACTGTGGGGGATAAGCTCCATTGTCAAGAGG
GAAACAGCCCAGACCACCAGCTAAGGCCCCAAAATGGTAATGTAGTGACAAAGG
AGGTGAAAATGCAAACACAACCAGGAGGTTGGCTTAGAAGCAGCCATCCTTTAA
AGAGTGCGTAATAGCTCACTG

SEQ ID NO:11

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CCGGAGCCAGAGCGAAAGCAAGTCTGAATAGGGCGCTTAAAGGTCACTTTTTCT
AGACCCGAACCCGGGTGATCTAACCATGACCAGGATGAAGCTTGGGTAACACCA
CGTGAAGGTCCGAACCGACCGATGTTGAAAAATCGGCGGATGAGTTGTGGTTAG
CGGTGAAATACCAATCGAACTCGGAGCTAGCTGGTTCTCCCCGAAATGCGTTGAG
GCGCAGCGGTTTATGAGGCTGTCTAGGGGTAAAGCACTGTTTCGGTGCGGGCTGC
GAAAGCGGTACCAAATCGTGGCAAACTCTGAATACTAGATATGCTATTCATGAG
CCAGTGAGACGGTGGGGGATAAGCTTCATCGTCAAGAGGGAAACAGCCCAGATC
ACCAGCTAAGGCCCCAAAATGGTCGTTAAGTGGCAAAGGAGGTGAGAATGCTGA
AACAACCAGGAGGTTTGCTTAGAAGCAGCCACCCTTTAAAGAGTGCGTAATAGC
TCACTG

SEQ ID NO:12

TGTTGAAGAATGAGCCGGCGACTTAGAAGAAGTGGCTTGGTTAAGGATAACTAT
CCGGAGCCAGAGCGAAAGCAAGTCTGAATAGGGCGCTTAAAGGTCACTTTTTCT
AGACCCGAACCCGGGTGATCTAACCATGACCAGGATGAAGCTTGGGTAACACCA
CGTGAAGGTCCGAACCGACCGATGTTGAAAAATCGGCGGATGAGTTGTGGTTAG
CGGTGAAATACCAATCGAACTCGGAGCTAGCTGGTTCTCCCCGAAATGCGTTGAG
GCGCAGCGGTTTATGAGGCTGTCTAGGGGTAAAGCACTGTTTCGGTGCGGGCTGC
GAAAGCGGTACCAAATCGTGGCAAACTCTGAATACTAGATATGCTATTCATGAG
CCAGTGAGACGGTGGGGGATAAGCTTCATCGTCAAGAGGGAAACAGCCCAGATC
ACCAGCTAAGGCCCCAAAATGGTCGTTAAGTGGCAAAGGAGGTGAGAATGCTGA
AACAACCAGGAGGTTTGCTTAGAAGCAGCCACCCTTTAAAGAGTGCGTAATAGC
TCACTG

SEQ ID NO:13

TGTTGAAGAATGAGCCGGCGACTTAGAAGAAGTGGCTTGGTTAAGGATAACTAT
CCGGAGCCAGAGCGAAAGCAAGTCTGAATAGGGCGCTTAAAGGTCACTTTTTCT
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CGTGAAGGTCCGAACCGACCGATGTTGAAAAATCGGCGGATGAGTTGTGGTTAG
CGGTGAAATACCAATCGAACTCGGAGCTAGCTGGTTCTCCCCGAAATGCGTTGAG
GCGCAGCGGTTTATGAGGCTGTCTAGGGGTAAAGCACTGTTTCGGTGCGGGCTGC
GAAAGCGGTACCAAATCGTGGCAAACTCTGAATACTAGATATGCTATTCATGAG
CCAGTGAGACGGTGGGGGATAAGCTTCATCGTCAAGAGGGAAACAGCCCAGATC
ACCAGCTAAGGCCCCAAAATGGTCGTTAAGTGGCAAAGGAGGTGAGAATGCTGA
AACAACCAGGAGGTTTGCTTAGAAGCAGCCACCCTTTAAAGAGTGCGTAATAGC
TCACTG

SEQ ID NO:14

TGTTGAAGAATGAGCCGGCGACTTAGAAGAAGTGGCTTGGTTAAGGATAACTAT
CCGGAGCCAGAGCGAAAGCAAGTCTGAATAGGGCGCTTAAAGGTCACTTTTTCT
AGACCCGAACCCGGGTGATCTAACCATGACCAGGATGAAGCTTGGGTAACACCA
CGTGAAGGTCCGAACCGACCGATGTTGAAAAATCGGCGGATGAGTTGTGGTTAG
CGGTGAAATACCAATCGAACTCGGAGCTAGCTGGTTCTCCCCGAAATGCGTTGAG
GCGCAGCGGTTTATGAGGCTGTCTAGGGGTAAAGCACTGTTTCGGTGCGGGCTGC
GAAAGCGGTACCAAATCGTGGCAAACTCTGAATACTAGATATGCTATTCATGAG

CCAGTGAGACGGTGGGGGATAAGCTTCATCGTCAAGAGGGAAACAGCCCAGATC
ACCAGCTAAGGCCCCAAAATGGTCGTTAAGTGGCAAAGGAGGTGAGAATGCTGA
AACAACCAGGAGGTTTGCTTAGAAGCAGCCACCCTTTAAAGAGTGCGTAATAGC
TCACTG

SEQ ID NO:15

TGTTGAAGAATGAGCCGGCGACTTAGAAAAAGTGGCGTGGTTAAGGAAAAATTC
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AATTTAGTCATTTTTTCTAGACCCGAACCCGGGTGATCTAACCATGACCAGGATG
AAACTTGGGTGATACCAAGTGAAGGTCCGAACCGACCGATGTTGAAAAATCGGC
GGATGAGTTGTGGTTAGCGGTGAAATACCAGTCGAACCCGGAGCTAGCTGGTTCT
CCCCGAAATGCGTTGAGGCGCAGCAGTACATCTAGTCTATCTAGGGGTAAAGCA
CTGTTTCGGTGCGGGCTGTGAAAACGGTACCAAATCGTGGCAAACTCTGAATACT
AGAAATGACGGTGTAGTAGTGAGACTGTGGGGGATAAGCTCCATTGTCAAGAGG
GAAACAGCCCAGACCACCAGCTAAGGCCCCAAAATGGTAATGTAGTGACAAAGG
AGGTGAAAATGCAAACACAACCAGGAGGTTGGCTTAGAAGCAGCCATCCTTTAA
AGAGTGCGTAATAGCTCACTG

SEQ ID NO:16

TGTTGAAGAATGAGCCGGCGAGTTAAAAAAAATGGCATGGTTAAAGATATTTCT
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AAACCGAGTGATCTACCCATGATCAGGGTGAAGTGTTGGTCAAATAACATGGAG
GCCCGAACCGACTAATGGTGAAAAATTAGCGGATGAATTGTGGGTAGGGGCGAA
AAACCAATCGAACTCGGAGTTAGCTGGTTCTCCCCGAAATGCGTTTAGGCGCAGC
AGTAGCAACACAAATAGAGGGGTAAAGCACTGTTTCTTTTGTGGGCTTCGAAAGT
TGTACCTCAAAGTGGCAAACTCTGAATACTCTATTTAGATATCTACTAGTGAGAC
CTTGGGGGATAAGCTCCTTGGTCAAAAGGGAAACAGCCCAGATCACCAGTTAAG
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CAGGTTAGCTTAGAAGCAGCAATCCTTTCAAGAGTGCGTAATAGCTCACTG

SEQ ID NO:17

TGTTGAAGAATGAGCCGGCGACTTAAAATAAATGGCAGGCTAAGAGAATTAATA
ACTCGAAACCTAAGCGAAAGCAAGTCTTAATAGGGCGCTAATTTAACAAAACAT

TAAATAAAATCTAAAGTCATTTATTTTAGACCCGAACCTGAGTGATCTAACCATG
GTCAGGATGAAACTTGGGTGACACCAAGTGGAAGTCCGAACCGACCGATGTTGA
AAAATCGGCGGATGAACTGTGGTTAGTGGTGAAATACCAGTCGAACTCAGAGCT
AGCTGGTTCTCCCCCGAAATGCGTTGAGGCGCAGCAATATATCTCGTCTATCTAGG
GGTAAAGCACTGTTTCGGTGCGGGCTATGAAAATGGTACCAAATCGTGGCAAAC
TCTGAATACTAGAAATGACGATATATTAGTGAGACTATGGGGGATAAGCTCCAT
AGTCGAGAGGGAAACAGCCCAGACCACCAGTTAAGGCCCCAAAATGATAATGAA
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CATCCTTTAAAGAGTGCGTAATAGCTCACTG

SEQ ID NO:18

TGTTGAAGAATGAGCCGGCGACTTAAAATAAATGGCAGGCTAAGAGAATTAATA
ACTCGAAACCTAAGCGAAAGCAAGTCTTAATAGGGCGCTAATTTAACAAAACAT
TAAATAAAATCTAAAGTCATTTATTTTAGACCCGAACCTGAGTGATCTAACCATG
GTCAGGATGAAACTTGGGTGACACCAAGTGGAAGTCCGAACCGACCGATGTTGA
AAAATCGGCGGATGAACTGTGGTTAGTGGTGAAATACCAGTCGAACTCAGAGCT
AGCTGGTTCTCCCCGAAATGCGTTGAGGCGCAGCAATATATCTCGTCTATCTAGG
GGTAAAGCACTGTTTCGGTGCGGGCTATGAAAATGGTACCAAATCGTGGCAAAC
TCTGAATACTAGAAATGACGATATATTAGTGAGACTATGGGGGATAAGCTCCAT
AGTCGAGAGGGAAACAGCCCAGACCACCAGTTAAGGCCCCAAAATGATAATGAA
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CATCCTTTAAAGAGTGCGTAATAGCTCACTG

SEQ ID NO:19

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AAACTTGGGTGATACCAAGTGAAGGTCCGAACCGACCGATGTTGAAAAATCGGC
GGATGAGTTGTGGTTAGCGGTGAAATACCAGTCGAACCCGGAGCTAGCTGGTTCT
CCCCGAAATGCGTTGAGGCGCAGCAGTACATCTAGTCTATCTAGGGGTAAAGCA
CTGTTTCGGTGCGGGCTGTGAAAACGGTACCAAATCGTGGCAAACTCTGAATACT
AGAAATGACGGTGTAGTAGTGAGACTGTGGGGGATAAGCTCCATTGTCAAGAGG
GAAACAGCCCAGACCACCAGCTAAGGCCCCAAAATGGTAATGTAGTGACAAAGG

AGGTGAAAATGCAAACACAACCAGGAGGTTGGCTTAGAAGCAGCCATCCTTTAA
AGAGTGCGTAATAGCTCACTG

SEQ ID NO:20

TGTTGAAGAATGAGCCGGCGACTTAGAAAAAGTGGCGTGGTTAAGGAAAAATTC
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GGATGAGTTGTGGTTAGCGGTGAAATACCAGTCGAACCCGGAGCTAGCTGGTTCT
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GAAACAGCCCAGACCACCAGCTAAGGCCCCAAAATGGTAATGTAGTGACAAAGG
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AGAGTGCGTAATAGCTCACTG

SEQ ID NO:21

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GCAGCGGTTCATAAGGCTGTCTAGGGGTAAAGCACTGTTTCGGTGCGGGCTGCG
AAAGCGGTACCAAATCGTGGCAAACTCTGAATACTAGATATGCTATTTATGAGCC
AGTGAGACGGTGGGGGATAAGCTTCATCGTCGAGAGGGAAACAGCCCAGATCAC
TAGCTAAGGCCCCTAAATGATCGTTAAGTGACAAAGGAGGTGAGAATGCAGAAA
CAACCAGGAGGTTTGCTTAGAAGCAGCCACCCTTTAAAGAGTGCGTAATAGCTC
ACTG

SEQ ID NO:22

TGTTGAAGAATGAGCCGGCGACTTATAGGAAGTGGCAGGGTTAAGGAAGAATCT
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CGAGGACTGAACCCACCGATGTTGAAAAATCGGGGGATGAGCTGTGATTAGCGG
TGAAATTCCAATCGAATTCAGAGCTAGCTGGATCTCCCCGAAATGCGTTGAGGCG
CAGCGGCGACGATGTCCTGTCTAAGGGTAGAGCGACTGTTTCGGTGCGGGCTGC
GAAAGCGGTACCAAGTCGTGGCAAACTCCGAATATTAGGCAAAGGATTCCGTGA
GCCAGTGAGACTGTGGGGGATAAGCTTCATAGTCAAGAGGGAAACAGCCCAGAC
CATCAGCTAAGGCCCCTAAATGGCTGCTAAGTGGAAAAGGATGTGAGAATGCTG
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GCTCACTG

SEQ ID NO:23

TGTTGAAGAATGAGCCGGCGACTTAGAAGAAGTGGCTTGGTTAAGGATAACTAT
CCGGAGCCAGAGCGAAAGCAAGTCTGAATAGGGCGCTTAAAGGTCACTTTTTCT
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CGTGAAGGTCCGAACCGACCGATGTTGAAAAATCGGCGGATGAGTTGTGGTTAG
CGGTGAAATACCAATCGAACTCGGAGCTAGCTGGTTCTCCCCGAAATGCGTTGAG
GCGCAGCGGTTTATGAGGCTGTCTAGGGGTAAAGCACTGTTTCGGTGCGGGCTGC
GAAAGCGGTACCAAATCGTGGCAAACTCTGAATACTAGATATGCTATTCATGAG
CCAGTGAGACGGTGGGGGATAAGCTTCATCGTCAAGAGGGAAACAGCCCAGATC
ACCAGCTAAGGCCCCAAAATGGTCGTTAAGTGGCAAAGGAGGTGAGAATGCTGA
AACAACCAGGAGGTTTGCTTAGAAGCAGCCACCCTTTAAAGAGTGCGTAATAGC
TCACTG

SEQ ID NO:24

TGTTGAAGAATGAGCCGGCGACTTATAGGGGGTGGCGTGGTTAAGGAAGTAATC
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GAAGGTCCGAACTCATCGATCTTGAAAAATCGTGGGATGAGTTGGGGTTAGTTG
GTTAAATGCTAATCGAACTCGGAGCTAGCTGGTTCTCCCCGAAATGTGTTGAGGC
GCAGCGATTAACGAAATATTTTGTACGGTTTAGGGGTAAAGCACTGTTTCGGTGC
GGGCTGCGAAAGCGGTACCAAATCGTGGCAAACTCTGAATACTAAGCCTGTATA
CCGTTAGTCAGTGAGAGTATAGGGGATAAGCTCTATACTCAAGAGGGAAACAGC
CCAGATCACCAGCTAAGGCCCCAAAATGACAGCTAAGTGGCAAAGGAGGTGAAA

GTGCAGAAACAACCAGGAGGTTCGCTTAGAAGCAGCAACCCTTTAAAGAGTGCG
TAATAGCTCACTG

SEQ ID NO:25

TGTTGAAGAATGAGCCGGCGACTTAGAAGAAGTGGCTTGGTTAAGGATAACTAT
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CGTGAAGGTCCGAACCGACCGATGTTGAAAAATCGGCGGATGAGTTGTGGTTAG
CGGTGAAATACCAATCGAACTCGGAGCTAGCTGGTTCTCCCCGAAATGCGTTGAG
GCGCAGCGGTTTATGAGGCTGTCTAGGGGTAAAGCACTGTTTCGGTGCGGGCTGC
GAAAGCGGTACCAAATCGTGGCAAACTCTGAATACTAGATATGCTATTCATGAG
CCAGTGAGACGGTGGGGGATAAGCTTCATCGTCAAGAGGGAAACAGCCCAGATC
ACCAGCTAAGGCCCCAAAATGGTCGTTAAGTGGCAAAGGAGGTGAGAATGCTGA
AACAACCAGGAGGTTTGCTTAGAAGCAGCCACCCTTTAAAGAGTGCGTAATAGC
TCACTG

SEQ ID NO:26

TGTTGAAGAATGAGCCGGCGACTTAGAAAAAGTGGCGTGGTTAAGGAAAAATTC
CGAAGCCTTAGCGAAAGCGAGTCTGAATAGGGCGATCAAATATTTTAATATTTAC
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AAACTTGGGTGATACCAAGTGAAGGTCCGAACCGACCGATGTTGAAAAATCGGC
GGATGAGTTGTGGTTAGCGGTGAAATACCAGTCGAACCCGGAGCTAGCTGGTTCT
CCCCGAAATGCGTTGAGGCGCAGCAGTACATCTAGTCTATCTAGGGGTAAAGCA
CTGTTTCGGTGCGGGCTGTGAAAACGGTACCAAATCGTGGCAAACTCTGAATACT
AGAAATGACGGTGTAGTAGTGAGACTGTGGGGGATAAGCTCCATTGTCAAGAGG
GAAACAGCCCAGACCACCAGCTAAGGCCCCAAAATGGTAATGTAGTGACAAAGG
AGGTGAAAATGCAAACACAACCAGGAGGTTGGCTTAGAAGCAGCCATCCTTTAA
AGAGTGCGTAATAGCTCACTG

SEQ ID NO:27

TGTTGAAGAATGAGCCGGCGACTTATAGGGGGTGGCTTGGTTAAGGACTACAAT
CCGAAGCCCAAGCGAAAGCAAGTTTGAAGTGTACACACATTGTGTGTCTAGAGC
GATTTTGTCACTCCTTATGGACCCGAACCCGGGTGATCTATTCATGGCCAGGATG

AAGCTTGGGTAACACCAAGTGAAGGTCCGAACTCATCGATGTTGAAAAATCGTG
GGATGAGTTGTGAATAGGGGTGAAATGCCAATCGAACTCGGAGCTAGCTGGTTC
TCCCCGAAATGTGTTGAGGCGCAGCGATTCACGATCTAAAGTACGGTTTAGGGGT
AAAGCACTGTTTCGGTGCGGGCTGTTAACGCGGTACCAAATCGTGGCAAACTAA
GAATACTAAACTTGTATGCCGTGAATCAGTGAGACTAAGAGGGATAAGCTTCTTA
GTCAAGAGGGAAACAGCCCAGATCACCAGCTAAGGCCCCAAAATGACAGCTAAG
TGGCAAAGGAGGTGAGAGTGCAGAAACAACCAGGAGGTTTGCTTAGAAGCAGCC
ATCCTTTAAAGAGTGCGTAATAGCTCACTG

SEQ ID NO:28

TGTTGAAGAATGAGCCGGCGACTTATAGGGGGTGGCTTGGTTAAGGACTACAAT
CCGAAGCCCAAGCGAAAGCAAGTTTGAAGTGTACACACGTTGTGTGTCTAGAGC
GATTTTGTCACTCCTTATGGACCCGAACCCGGGTGATCTATTCATGGCCAGGATG
AAGCTTGGGTAACACCAAGTGAAGGTCCGAACTCATCGATGTTGAAAAATCGTG
GGATGAGTTGTGAATAGGGGTGAAATGCCAATCGAACTCGGAGCTAGCTGGTTC
TCCCCGAAATGTGTTGAGGCGCAGCGATTCACGATCTAAAGTACGGTTTAGGGGT
AAAGCACTGTTTCGGTGCGGGCTGTTAACGCGGTACCAAATCGTGGCAAACTAA
GAATACTAAACTTGTATGCCGTGAATCAGTGAGACTAAGAGGGATAAGCTTCTTA
GTCAAGAGGGAAACAGCCCAGATCACCAGCTAAGGCCCCAAAATGACAGCTAAG
TGGCAAAGGAGGTGAGAGTGCAGAAACAACCAGGAGGTTTGCTTAGAAGCAGCC
ATCCTTTAAAGAGTGCGTAATAGCTCACTG

SEQ ID NO:29

TGTTGAAGAATGAGCCGGCGACTTATAGGGGGTGGCTTGGTTAAGGACTACAAT
CCGAAGCCCAAGCGAAAGCAAGTTTGAAGTGTACACACATTGTGTGTCTAGAGC
GATTTTGTCACTCCTTATGGACCCGAACCCGGGTGATCTATTCATGGCCAGGATG
AAGCTTGGGTAACACCAAGTGAAGGTCCGAACTCATCGATGTTGAAAAATCGTG
GGATGAGTTGTGAATAGGGGTGAAATGCCAATCGAACTCGGAGCTAGCTGGTTC
TCCCCGAAATGTGTTGAGGCGCAGCGATTCACGATCTAAAGTACGGTTTAGGGGT
AAAGCACTGTTTCGGTGCGGGCTGTTAACGCGGTACCAAATCGTGGCAAACTAA
GAATACTAAACTTGTATGCCGTGAATCAGTGAGACTAAGAGGGATAAGCTTCTTA
GTCAAGAGGGAAACAGCCCAGATCACCAGCTAAGGCCCCAAAATGACAGCTAAG

TGGCAAAGGAGGTGAGAGTGCAGAAACAACCAGGAGGTTTGCTTAGAAGCAGCC
ATCCTTTAAAGAGTGCGTAATAGCTCACTG