Syp isoforms not yet accounted for in the FlyBase annotation.

Proteins first -

This isoform has the same 3’ end as Syp-RD, but the promoter is the same as Syp-RA.

MNKFVSHNLGRDPYRTFSPEMYPLSSPLGPHGTEMAEGNGELLDDINQKADDRGDGERTEDYPKLLEYGLDKKVAGKLDEIYKTGKLAHAELDERALDALKEFPVDGALNVLGQFLESNLEHVSNKSAYLCGVMKTYRQKSRASQQGVAAPATVKGPDEDKIKKILERTGYTLDVTTGQRKYGGPPPHWEGNVPGNGCEVFCGKIPKDMYEDELIPLFENCGIIWDLRLMMDPMTGTNRGYAFVTFTNREAAVNAVRQLDNHEIKPGKCLKINISVPNLRLFVGNIPKSKGKDEILEEFGKLTAGLYEVIIYSSPDDKKKNRGFCFLEYESHKAASLAKRRLGTGRIKVWGCDIIVDWADPQEEPDEQTMSKVKVLYVRNLTQDVSEDKLKEQFEQYGKVERVKKIKDYAFIHFEDRDSAVEAMRGLNGKEIGASNIEVSLAKPPSDKKKKEEILRARERRMMQMMQARPGIVGNLSPTHPSIMSLTPMRPGARMPLRTPIPREYDYFYDFFGFSDYRQGGSFGNNVSYYDDMYRWIDGDYNYYDYPNGGGGGSGGGGGSVSGGTVLPLSAGGSQNSPMASGQRSARGSASGPSASPSLMGVGRGHGITVPRGRVVGQRGSISRLGAQTVPQAAGAAAAAGQAAAAVAQRGATGQGAPAATGGFRGVLPTRPSARGTQHVKPLQNLPAGAAFKTFMEGN

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Both of these skip the second-to-last exon of Syp-RD.

(same promoter as Syp-RA)

MNKFVSHNLGRDPYRTFSPEMYPLSSPLGPHGTEMAEGNGELLDDINQKADDRGDGERTEDYPKLLEYGLDKKVAGKLDEIYKTGKLAHAELDERALDALKEFPVDGALNVLGQFLESNLEHVSNKSAYLCGVMKTYRQKSRASQQGVAAPATVKGPDEDKIKKILERTGYTLDVTTGQRKYGGPPPHWEGNVPGNGCEVFCGKIPKDMYEDELIPLFENCGIIWDLRLMMDPMTGTNRGYAFVTFTNREAAVNAVRQLDNHEIKPGKCLKINISVPNLRLFVGNIPKSKGKDEILEEFGKLTAGLYEVIIYSSPDDKKKNRGFCFLEYESHKAASLAKRRLGTGRIKVWGCDIIVDWADPQEEPDEQTMSKVKVLYVRNLTQDVSEDKLKEQFEQYGKVERVKKIKDYAFIHFEDRDSAVEAMRGLNGKEIGASNIEVSLAKPPSDKKKKEEILRARERRMMQMMQARPGIVGNLSPTHPSIMSLTPMRPGARMPLRTPIPREYDYFYDFFGFSDYRQGGSFGNNVSYYDDMYRWIDGDYNYYDYPNGGGGGSGGGGGSVSGGTVLPLSAGGSQNSPMASGQRSARGSASGPSASPSLMLELHSKHSWRVIKRSSSATSLDSDKSRSPGKKRKVHRSHNKNKSHKSKKHAHKSKSSRPDKEKKSKRKSE

(same promoter as Syp-RD)

MLSQMEASKVQKDEGGGEALSRTILKTPSSFRTPSPIPSCSKMAEGNGELLDDINQKADDRGDGERTEDYPKLLEYGLDKKVAGKLDEIYKTGKLAHAELDERALDALKEFPVDGALNVLGQFLESNLEHVSNKSAYLCGVMKTYRQKSRASQQGVAAPATVKGPDEDKIKKILERTGYTLDVTTGQRKYGGPPPHWEGNVPGNGCEVFCGKIPKDMYEDELIPLFENCGIIWDLRLMMDPMTGTNRGYAFVTFTNREAAVNAVRQLDNHEIKPGKCLKINISVPNLRLFVGNIPKSKGKDEILEEFGKLTAGLYEVIIYSSPDDKKKNRGFCFLEYESHKAASLAKRRLGTGRIKVWGCDIIVDWADPQEEPDEQTMSKVKVLYVRNLTQDVSEDKLKEQFEQYGKVERVKKIKDYAFIHFEDRDSAVEAMRGLNGKEIGASNIEVSLAKPPSDKKKKEEILRARERRMMQMMQARPGIVGNLSPTHPSIMSLTPMRPGARMPLRTPIPREYDYFYDFFGFSDYRQGGSFGNNVSYYDDMYRWIDGDYNYYDYPNGGGGGSGGGGGSVSGGTVLPLSAGGSQNSPMASGQRSARGSASGPSASPSLMLELHSKHSWRVIKRSSSATSLDSDKSRSPGKKRKVHRSHNKNKSHKSKKHAHKSKSSRPDKEKKSKRKSE

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The stretch of pink amino acids in the first isoform comes from the same exon as the pink stretches in the other two isoforms, but read from different reading frames.

**Transcripts (in the same order)**

CAGGAAGGAACATTTCAGTATTACAACATCAACCATTCTGAAATTGTTAAAATTCTAAAAGGATAAAAAAAATCATAGTCCAAATTGGAAATTATTCTTGATATTTCGTGGATAGAAAGCCGATTGTGAGCCGTTGAATAGCGCGAACCTATTCAAGACGAGCCAAGCGATCGAGTTATCGCGAATATATATAAGATACTAATACTATTGGAGGAGAATTTACGCCGCTCGACGATTAGACGGGCGACGTGAATCGTTTTGGAGTTTTCAAGACCTTTTGTAATTTGTTTTGTTCTCTCTAAAGTATCACAAATTGTGATATCATTTAGCACTTTTATAATTTCTGGAAAATTCAAGCAACGGATTTTGATCTTTGACCTGTGCCCTTCGATTGTAATACATTCAAATTGTAAAGCGTGAAGAAAACCCACATATTGACAAGGATCAGTTCTTTTGGAAGCACCGAAAACTAACGTCTCAACTAACGTCAGAAACACTCGCATGCAAA**ATG**AATAAGTTTGTTTCCCACAACCTTGGTCGCGATCCATATCGGACCTTCAGCCCAGAAATGTACCCGTTATCAAGCCCATTGGGACCGCATGGAACTGAAATGGCGGAAGGTAATGGCGAACTGTTGGATGACATTAACCAGAAAGCCGATGACCGTGGCGATGGCGAGCGTACAGAGGATTATCCCAAGCTGCTGGAATACGGTCTGGACAAGAAGGTCGCCGGCAAACTGGATGAGATCTACAAAACCGGCAAGTTGGCTCACGCCGAGCTGGACGAGCGCGCCCTGGACGCGCTCAAGGAGTTTCCCGTCGATGGTGCCTTGAATGTGTTGGGACAGTTCCTGGAATCGAACCTGGAGCACGTGTCAAACAAGTCCGCCTACCTATGCGGCGTGATGAAGACGTACCGACAGAAGAGTCGAGCCAGCCAACAGGGCGTGGCCGCGCCCGCAACTGTCAAAGGTCCCGACGAGGACAAGATCAAGAAAATCCTCGAGCGCACCGGCTACACATTAGATGTGACGACAGGTCAGCGTAAATACGGCGGACCGCCGCCGCATTGGGAGGGAAATGTGCCAGGCAACGGTTGCGAGGTTTTCTGCGGCAAGATACCCAAGGACATGTACGAGGACGAACTGATTCCGCTATTCGAGAACTGCGGCATAATCTGGGACCTACGACTCATGATGGACCCGATGACGGGCACAAATCGTGGTTATGCATTTGTCACATTCACAAATCGCGAAGCGGCCGTCAATGCAGTGCGACAGCTCGATAATCACGAAATAAAACCCGGCAAGTGTCTAAAAATAAATATAAGCGTACCGAATCTGCGCCTTTTCGTAGGCAATATTCCCAAGTCAAAGGGCAAAGATGAAATTTTAGAGGAATTTGGTAAACTTACAGCTGGCCTATACGAGGTAATCATATACAGTTCGCCAGATGATAAGAAAAAGAATCGCGGCTTTTGCTTTCTTGAGTACGAGTCACACAAGGCGGCGTCTTTGGCCAAACGAAGACTTGGCACAGGAAGAATTAAGGTTTGGGGATGTGATATAATAGTCGACTGGGCCGATCCACAGGAGGAGCCGGATGAGCAAACAATGTCCAAGGTTAAAGTTCTTTATGTGCGAAATCTTACCCAGGACGTCTCAGAGGATAAACTGAAGGAACAATTTGAGCAATACGGAAAAGTGGAACGCGTTAAGAAAATTAAAGACTATGCCTTTATACACTTTGAGGATCGTGATAGCGCCGTCGAAGCTATGCGTGGCCTTAATGGCAAGGAGATCGGCGCCTCGAATATTGAGGTCTCTCTAGCCAAACCCCCCTCGGACAAAAAGAAAAAGGAGGAGATTCTGCGTGCTCGTGAGCGCCGCATGATGCAAATGATGCAAGCGCGTCCCGGGATCGTGGGAAACCTGTCGCCGACACATCCTAGCATAATGTCCTTGACGCCCATGCGCCCAGGGGCGCGCATGCCGCTGCGTACGCCGATACCCCGTGAATACGACTACTTTTACGACTTTTTCGGTTTCTCGGACTATCGCCAAGGGGGGTCCTTTGGCAATAATGTGTCCTACTACGATGACATGTACCGCTGGATTGATGGGGATTACAACTACTATGATTACCCGAACGGTGGCGGCGGGGGCAGCGGGGGAGGAGGAGGTAGTGTGTCCGGCGGTACGGTGCTTCCGCTCTCGGCCGGCGGCTCCCAGAATTCACCGATGGCTAGTGGACAGCGATCGGCCAGAGGATCGGCCAGTGGTCCCAGTGCTTCCCCGAGCCTTATGGGAGTTGGTCGTGGGCATGGAATCACAGTACCGCGTGGCAGAGTCGTTGGCCAACGTGGCAGCATCAGTCGTCTGGGGGCCCAAACAGTGCCACAGGCGGCGGGAGCGGCAGCGGCGGCGGGACAGGCGGCGGCGGCGGTAGCTCAGCGGGGGGCCACCGGTCAGGGGGCGCCGGCAGCAACCGGGGGGTTCCGTGGGGTGTTGCCAACGCGTCCCAGCGCTCGTGGCACCCAGCACGTCAAGCCGCTACAAAATTTACCAGCTGGAGCTGCATTCAAAACATTCATGGAGGGTAAT**TAA**GCGTAGCTCATCGGCCACCTCCTTGGACAGCGACAAGAGTCGCTCTCCGGGGAAGAAGCGTAAAGTCCATAGGTCACATAACAAAAACAAGTCACACAAGTCTAAGAAGCATGCCCACAAGTCCAAGTCGTCTCGGCCCGATAAAGAAAAGAAATCCAAGCGGAAGTCCGAATAAAACTTTGTAACCAGACCATATCATATCATCTTCCTTTCGAAATCAAATCCAAACGAAGAATCTCGTCATTGGCAATCGAGGCAAATTCAAGAACACTAATCAATCATCACACATCCCGCATCTTTCAAGCATCAAAATCCTTAACGCCAGATCAGATCAGTTCAGTTCAGCCTCTGAAAGTCCTTGCAAAATTCCAAATTTCAAACTAGGAGTGTACGACCACACACTTATAGATACACGAAGAAGTCCCAAGTCTTTCAAGTACAGCGCTCTGTTCTCCTCCCGTCCAGGGATCCATAGATCTGGCAGACGATCCTTTTTATTACACTGCCCCATTTATCGCCGCTACCCATCAGTGTTCCATGTTTCATGTGTCAGGCGATAATATCATGTACAATGTTTTACTTACAAAATGAACACGTTTGGTAATTGTTAACACCACACACACACACACACACACACTATATGCACTATGTGTTAACATCATAGTCACACACCCCAAACACCATATATTTGTAAATGTAACAAGTCCTAAGTCGTCCCTGGCGTTATGTCGAGTTAACACAATTTCCCGATTTGTGATGTGTATAAACAATGATGAGATAAATTAAACGAACAATGATC

CAGGAAGGAACATTTCAGTATTACAACATCAACCATTCTGAAATTGTTAAAATTCTAAAAGGATAAAAAAAATCATAGTCCAAATTGGAAATTATTCTTGATATTTCGTGGATAGAAAGCCGATTGTGAGCCGTTGAATAGCGCGAACCTATTCAAGACGAGCCAAGCGATCGAGTTATCGCGAATATATATAAGATACTAATACTATTGGAGGAGAATTTACGCCGCTCGACGATTAGACGGGCGACGTGAATCGTTTTGGAGTTTTCAAGACCTTTTGTAATTTGTTTTGTTCTCTCTAAAGTATCACAAATTGTGATATCATTTAGCACTTTTATAATTTCTGGAAAATTCAAGCAACGGATTTTGATCTTTGACCTGTGCCCTTCGATTGTAATACATTCAAATTGTAAAGCGTGAAGAAAACCCACATATTGACAAGGATCAGTTCTTTTGGAAGCACCGAAAACTAACGTCTCAACTAACGTCAGAAACACTCGCATGCAAA**ATG**AATAAGTTTGTTTCCCACAACCTTGGTCGCGATCCATATCGGACCTTCAGCCCAGAAATGTACCCGTTATCAAGCCCATTGGGACCGCATGGAACTGAAATGGCGGAAGGTAATGGCGAACTGTTGGATGACATTAACCAGAAAGCCGATGACCGTGGCGATGGCGAGCGTACAGAGGATTATCCCAAGCTGCTGGAATACGGTCTGGACAAGAAGGTCGCCGGCAAACTGGATGAGATCTACAAAACCGGCAAGTTGGCTCACGCCGAGCTGGACGAGCGCGCCCTGGACGCGCTCAAGGAGTTTCCCGTCGATGGTGCCTTGAATGTGTTGGGACAGTTCCTGGAATCGAACCTGGAGCACGTGTCAAACAAGTCCGCCTACCTATGCGGCGTGATGAAGACGTACCGACAGAAGAGTCGAGCCAGCCAACAGGGCGTGGCCGCGCCCGCAACTGTCAAAGGTCCCGACGAGGACAAGATCAAGAAAATCCTCGAGCGCACCGGCTACACATTAGATGTGACGACAGGTCAGCGTAAATACGGCGGACCGCCGCCGCATTGGGAGGGAAATGTGCCAGGCAACGGTTGCGAGGTTTTCTGCGGCAAGATACCCAAGGACATGTACGAGGACGAACTGATTCCGCTATTCGAGAACTGCGGCATAATCTGGGACCTACGACTCATGATGGACCCGATGACGGGCACAAATCGTGGTTATGCATTTGTCACATTCACAAATCGCGAAGCGGCCGTCAATGCAGTGCGACAGCTCGATAATCACGAAATAAAACCCGGCAAGTGTCTAAAAATAAATATAAGCGTACCGAATCTGCGCCTTTTCGTAGGCAATATTCCCAAGTCAAAGGGCAAAGATGAAATTTTAGAGGAATTTGGTAAACTTACAGCTGGCCTATACGAGGTAATCATATACAGTTCGCCAGATGATAAGAAAAAGAATCGCGGCTTTTGCTTTCTTGAGTACGAGTCACACAAGGCGGCGTCTTTGGCCAAACGAAGACTTGGCACAGGAAGAATTAAGGTTTGGGGATGTGATATAATAGTCGACTGGGCCGATCCACAGGAGGAGCCGGATGAGCAAACAATGTCCAAGGTTAAAGTTCTTTATGTGCGAAATCTTACCCAGGACGTCTCAGAGGATAAACTGAAGGAACAATTTGAGCAATACGGAAAAGTGGAACGCGTTAAGAAAATTAAAGACTATGCCTTTATACACTTTGAGGATCGTGATAGCGCCGTCGAAGCTATGCGTGGCCTTAATGGCAAGGAGATCGGCGCCTCGAATATTGAGGTCTCTCTAGCCAAACCCCCCTCGGACAAAAAGAAAAAGGAGGAGATTCTGCGTGCTCGTGAGCGCCGCATGATGCAAATGATGCAAGCGCGTCCCGGGATCGTGGGAAACCTGTCGCCGACACATCCTAGCATAATGTCCTTGACGCCCATGCGCCCAGGGGCGCGCATGCCGCTGCGTACGCCGATACCCCGTGAATACGACTACTTTTACGACTTTTTCGGTTTCTCGGACTATCGCCAAGGGGGGTCCTTTGGCAATAATGTGTCCTACTACGATGACATGTACCGCTGGATTGATGGGGATTACAACTACTATGATTACCCGAACGGTGGCGGCGGGGGCAGCGGGGGAGGAGGAGGTAGTGTGTCCGGCGGTACGGTGCTTCCGCTCTCGGCCGGCGGCTCCCAGAATTCACCGATGGCTAGTGGACAGCGATCGGCCAGAGGATCGGCCAGTGGTCCCAGTGCTTCCCCGAGCCTTATGCTGGAGCTGCATTCAAAACATTCATGGAGGGTAATTAAGCGTAGCTCATCGGCCACCTCCTTGGACAGCGACAAGAGTCGCTCTCCGGGGAAGAAGCGTAAAGTCCATAGGTCACATAACAAAAACAAGTCACACAAGTCTAAGAAGCATGCCCACAAGTCCAAGTCGTCTCGGCCCGATAAAGAAAAGAAATCCAAGCGGAAGTCCGAA**TAA**AACTTTGTAACCAGACCATATCATATCATCTTCCTTTCGAAATCAAATCCAAACGAAGAATCTCGTCATTGGCAATCGAGGCAAATTCAAGAACACTAATCAATCATCACACATCCCGCATCTTTCAAGCATCAAAATCCTTAACGCCAGATCAGATCAGTTCAGTTCAGCCTCTGAAAGTCCTTGCAAAATTCCAAATTTCAAACTAGGAGTGTACGACCACACACTTATAGATACACGAAGAAGTCCCAAGTCTTTCAAGTACAGCGCTCTGTTCTCCTCCCGTCCAGGGATCCATAGATCTGGCAGACGATCCTTTTTATTACACTGCCCCATTTATCGCCGCTACCCATCAGTGTTCCATGTTTCATGTGTCAGGCGATAATATCATGTACAATGTTTTACTTACAAAATGAACACGTTTGGTAATTGTTAACACCACACACACACACACACACACACTATATGCACTATGTGTTAACATCATAGTCACACACCCCAAACACCATATATTTGTAAATGTAACAAGTCCTAAGTCGTCCCTGGCGTTATGTCGAGTTAACACAATTTCCCGATTTGTGATGTGTATAAACAATGATGAGATAAATTAAACGAACAATGATC

ATCGATGCGTAGTTGGCCCTGCTGGGCGATTGTCAAAAGTTATTCCGTAATGTTTTTTGTTTCTATTCAGTTGTGAAAATTTTTCTCGTCTCTCGAATCGTTTCGGAACTATTGATTTTTACTTCAAAAATAAGAAAAAGCGAAAACAAATTCATTCACATTTGCAATCGAAATTCCAAGTCGCCTAAGGAAATTGAAAATTGTTAAATTGTTGCATTACGCG**ATG**CTTTCCCAGATGGAAGCCTCCAAAGTGCAGAAGGATGAAGGGGGCGGCGAGGCTCTGAGCCGCACGATCCTCAAAACACCGTCTTCATTCAGGACCCCCAGCCCAATTCCCAGTTGCAGCAAAATGGCGGAAGGTAATGGCGAACTGTTGGATGACATTAACCAGAAAGCCGATGACCGTGGCGATGGCGAGCGTACAGAGGATTATCCCAAGCTGCTGGAATACGGTCTGGACAAGAAGGTCGCCGGCAAACTGGATGAGATCTACAAAACCGGCAAGTTGGCTCACGCCGAGCTGGACGAGCGCGCCCTGGACGCGCTCAAGGAGTTTCCCGTCGATGGTGCCTTGAATGTGTTGGGACAGTTCCTGGAATCGAACCTGGAGCACGTGTCAAACAAGTCCGCCTACCTATGCGGCGTGATGAAGACGTACCGACAGAAGAGTCGAGCCAGCCAACAGGGCGTGGCCGCGCCCGCAACTGTCAAAGGTCCCGACGAGGACAAGATCAAGAAAATCCTCGAGCGCACCGGCTACACATTAGATGTGACGACAGGTCAGCGTAAATACGGCGGACCGCCGCCGCATTGGGAGGGAAATGTGCCAGGCAACGGTTGCGAGGTTTTCTGCGGCAAGATACCCAAGGACATGTACGAGGACGAACTGATTCCGCTATTCGAGAACTGCGGCATAATCTGGGACCTACGACTCATGATGGACCCGATGACGGGCACAAATCGTGGTTATGCATTTGTCACATTCACAAATCGCGAAGCGGCCGTCAATGCAGTGCGACAGCTCGATAATCACGAAATAAAACCCGGCAAGTGTCTAAAAATAAATATAAGCGTACCGAATCTGCGCCTTTTCGTAGGCAATATTCCCAAGTCAAAGGGCAAAGATGAAATTTTAGAGGAATTTGGTAAACTTACAGCTGGCCTATACGAGGTAATCATATACAGTTCGCCAGATGATAAGAAAAAGAATCGCGGCTTTTGCTTTCTTGAGTACGAGTCACACAAGGCGGCGTCTTTGGCCAAACGAAGACTTGGCACAGGAAGAATTAAGGTTTGGGGATGTGATATAATAGTCGACTGGGCCGATCCACAGGAGGAGCCGGATGAGCAAACAATGTCCAAGGTTAAAGTTCTTTATGTGCGAAATCTTACCCAGGACGTCTCAGAGGATAAACTGAAGGAACAATTTGAGCAATACGGAAAAGTGGAACGCGTTAAGAAAATTAAAGACTATGCCTTTATACACTTTGAGGATCGTGATAGCGCCGTCGAAGCTATGCGTGGCCTTAATGGCAAGGAGATCGGCGCCTCGAATATTGAGGTCTCTCTAGCCAAACCCCCCTCGGACAAAAAGAAAAAGGAGGAGATTCTGCGTGCTCGTGAGCGCCGCATGATGCAAATGATGCAAGCGCGTCCCGGGATCGTGGGAAACCTGTCGCCGACACATCCTAGCATAATGTCCTTGACGCCCATGCGCCCAGGGGCGCGCATGCCGCTGCGTACGCCGATACCCCGTGAATACGACTACTTTTACGACTTTTTCGGTTTCTCGGACTATCGCCAAGGGGGGTCCTTTGGCAATAATGTGTCCTACTACGATGACATGTACCGCTGGATTGATGGGGATTACAACTACTATGATTACCCGAACGGTGGCGGCGGGGGCAGCGGGGGAGGAGGAGGTAGTGTGTCCGGCGGTACGGTGCTTCCGCTCTCGGCCGGCGGCTCCCAGAATTCACCGATGGCTAGTGGACAGCGATCGGCCAGAGGATCGGCCAGTGGTCCCAGTGCTTCCCCGAGCCTTATGCTGGAGCTGCATTCAAAACATTCATGGAGGGTAATTAAGCGTAGCTCATCGGCCACCTCCTTGGACAGCGACAAGAGTCGCTCTCCGGGGAAGAAGCGTAAAGTCCATAGGTCACATAACAAAAACAAGTCACACAAGTCTAAGAAGCATGCCCACAAGTCCAAGTCGTCTCGGCCCGATAAAGAAAAGAAATCCAAGCGGAAGTCCGAA**TAA**AACTTTGTAACCAGACCATATCATATCATCTTCCTTTCGAAATCAAATCCAAACGAAGAATCTCGTCATTGGCAATCGAGGCAAATTCAAGAACACTAATCAATCATCACACATCCCGCATCTTTCAAGCATCAAAATCCTTAACGCCAGATCAGATCAGTTCAGTTCAGCCTCTGAAAGTCCTTGCAAAATTCCAAATTTCAAACTAGGAGTGTACGACCACACACTTATAGATACACGAAGAAGTCCCAAGTCTTTCAAGTACAGCGCTCTGTTCTCCTCCCGTCCAGGGATCCATAGATCTGGCAGACGATCCTTTTTATTACACTGCCCCATTTATCGCCGCTACCCATCAGTGTTCCATGTTTCATGTGTCAGGCGATAATATCATGTACAATGTTTTACTTACAAAATGAACACGTTTGGTAATTGTTAACACCACACACACACACACACACACACTATATGCACTATGTGTTAACATCATAGTCACACACCCCAAACACCATATATTTGTAAATGTAACAAGTCCTAAGTCGTCCCTGGCGTTATGTCGAGTTAACACAATTTCCCGATTTGTGATGTGTATAAACAATGATGAGATAAATTAAACGAACAATGATC