

Table S2. cDNA sequences of 15 SPLs in *Codonopsis pilosula*.

Gene name	Gene sequence
>CpSPL1	ATGGAGGCTAAACTGAGAGGAAGGCTCATCATTCTATGGTCCAGTGATGTCAGATTGAAAGCGGTTGAAAGAGAAATTAGAGTGGATTGAATGATTGAAATGGGATGGTATCTATTACTGCGGCTCCTTAAACCTTACGGTCAGATTCAGGGTCAAGTGTGGGAGTGGTGTGGTATTGAGGACGAAGAGTTGTATGAGCTGGGACTACATCGAACCGTGCAGTTGTCAGGTGGATGATTGCGAGCTGATTGAGCAATGCCAAAGATTATCACCGAAGGCATAAGGTTGTGATATGCATTCAAAGGCCACCAAGGCATTGGTGGAAATGTGATGCAGAGGTTGCGCAGCAGTCAG-CAGTTTCAAGAGTTGATGAGGGAAAAGGAAGCTGCCAAGGGCTTAGCCGCCATAACAGAAGGAAAGGGAAAGAATGGGAAGAAGTCCAAGGTAGTGGGACTACATCGAACCGTGCAGTTGTCAGGTGGATGATTGCGAGCTGATTGAGCAATGCCAAAGATTGAA-AGGAAACACATCCTGAAATGCAGTTAATGGTGTGCTTAATGATGACCGAGGTAG-TAGTTATTACTGATTAGCCTGCTGAGGATACTCTCAACATACACTCTAATAGCTGGATCAAATAAGGATCAGGATCTCTTCTCATCTATTGAGAAACCTCTCCAGTCTCGGGTACAGTCGGTGAAGAAGACTTCTGGGTACTGGCTCAAGACTGAGGACATCCGTTGCAACTCTAGAGAAGGAGCCTGCACGGTCTACAAGACAGAAATTGGATGCCCTGTAAGATGAATTGGTACAGAAGA-GAACATCTCAGATTITAATCAGGGTGAACCTACAAACTCCATCTCCTCGCAGTCCACTGTTCCATTCCACACAAAA-GATATGCCAACTAAAGGTGAAATCCCTGGGACCTACAGTTGAGGATAAAATTGAA-TAATTGACTTGAATAATGCTTATGATGATTCTCAAGATTGATGGAAACGGTGGAGAGTTGATGCCCTGCAAATGTAAGGGATACAGCTGGCGTTGCTCTTATGGTACGCAAGATTCTCAAAAGTCAAGCCCAC-CTCAGACAAGTGGGAACTCAGGTTCCACAGCAACCCAGTCTCCATCCAGTCCAGTGGAGAGGCTCAGAGCCGTACAGATCGAATTGTAATCAAGCTTTGGAAAAGATCCCAGCGAGTCCCTTGTCTCCGGAAAC-CAGATCCTGACTGGTTGTCACACAGTCCAACGGACATTGAAAGCTACATCAGACCTGGATGATCATATTAAACAATATCTCGAATGGAGAACTCCTGCTGGAGGAGTTGCTTGTGATCTGAGCAGTAGTTGAGAAA-GCTCGGGATGCATCCAGCGACTCTCTGGAGAAAGGGATGGTTATGCTAGGGTGCATCATGTTGCGTTGCTGTGATGGTCAGACACACCCCTGCTTCTAGAAGCAATACAACCTTGAG-CTGAGCATCAAACCAATTGCAAGTCCCTGTTCTGAGAGAGCACAATTTCAGTTAAAGGCTACAACCTTCCGATCCACCTCAAGGTTACACTGTGCTTAGAAGGGAGTCTAGTCCAGAGACGTT-GTTCAGATGTAATGGAGGGAGCAGGCTTACAGTTAAGCAGGAGATGCTCAGTCCCTGGCTCTTGTCTATAACCTGATGTTCTGGCGAGGATTATTGAGATTGAGGATGATAGTCTCAGCAG-CAGCTCTTCCATTATAGTGCAGAGTCAGATGTTGCTGGAAATATGACTAGAGACTGTTAGAGGTGGCTGGAAACTGCTGATGACATACAAGAGGCTGAGAAAATTGAAACCAAGAAACCTAGCTT-GGACTTCATAAATGAGGTTGGCTCTTCATCGAAGACGCTGAAATTGACATTGGCTCACATGGACCCGACCTCGGATTGTTCTCGTCAACGGTCTCAGGTTGCTCTTGTCTTGTGACATCCCTCA-ATCGAACCTGCGTGGGGAGATTGGCCTACTCCATCGAGCTGCGGAGAAACTGCCAC-CGATGATAGAATTCCCTTGACTTACAATCCAGAAACGTTCTGGATAACTCAGGATCAGAAGAGAAGGAAAGTTGAAGGGGTTTATTAGACCGGATGCAAGTGGTCCGGACAATTGACACCCCTCATGTGG-CAGCTAGTAGGGATGGATCTGAGAAATGATATTGACGCACTGACAATGACCTCACCTGGGGAGTTGAAGCATGGAAATGCACGAGACAGTCAGGTCAGGCTAATGTTGAGGAGACTGTTGACATCCCTACGGGGCAC-TATACTTATATCCACCTAATTCAAAGAAAGATCAACAAGAAATCAGGAAGCGGACATGATGTTGACATCCCTACGGGGCAC-TAACCTTGTAAACATTAACCTAAGCAGAAAGCTGAGCAGCAGAAAATCTGCAAAGTT-GCTAGCTTCAACCGAGAAAGACTGTAATAAAACCATCCCAAGACCCCTGCAACCTATGCGAGCAGAAGTTGGCATTG-GCACTGGAGAACGTCAGGCAATTGAGGCTCTGCTCAAAAGCTCACCTGAGGTTCTGATGTTGAGCCCTCAGGTGGGAAAAGCTAAAGTATGGATCAAGTTAG
>CpSPL2	ATGAGGTCTGTTCTGTGATGGAGTGGAAATTGAATACCCCTCAGAATGGGACTGGGA-GAATCTATCTATGTCAGTGGAAAGGCAATAGAAAGTCCCAGGCATGAACAACTTTAGCAATGAGACCGAAGGAAATGTTGTTGAGATAATGGATCAATATATTCTACAGGGAG-TGACAGCTCTGGTTCTGCTTGGGGCATGGTCTTGTACCCAAGTTGATATCAGCTCTGTTGAGGATTCGCTCTGAGAAGGAA-GACTTCTCTGGGGCTAAATGGGAGTTCTCAATATGGCTGAAGCTCTGTGGTGTCTGAACCAATGATTGGGAGGTTATCTGAGCAGACTCAGAC-TACATCATTTCTGTGAGGCTCCTCATCTTCTCCCAATTAAGAGATCTAGAGCAGTGTATCAAAGTACACAGTCCC-CATGCTGCCAAGTGAAGGATGCAACCTCAACCTGCTCGGCCAAAGATTACATCG-CAGGCATAGAATTGTGAAAGCCATTCAAAGCCAAAAGTCGTTGAGCTGGGATGGAGGCCCGCTTGTCAACA

	ATGCAGCAGGTTCCATGGGCTGCTGAGTTGATGATAAGAAGCGAACGCTGTCGAAGAC-GCCTCTGATACAATGCCGACGACGCCACTGACAGAGGATATCCAATTCAAGATTTCTCATT AATATATGGTGTITCCAACCCTGAAGCTAGACTGCTATATTACTTTGGCTCAAGTCCTATGA
>CpSPL3	ATGGAAAATGGCTGAACTTGGCTCTGGTACAGAGGGAGAGCAGTAATTCAACAC-CAACATTCGATGCGATATCTGGCAACTCGTTCTACTACTTCACTTCCCCTATGATTACTGGATCAACCCCCACAATTCC TTCCCCCATTCGGACCACCAACATCAACGCCACACTCGGGGAAGCGAGTGGAT-TCCACCGCGCTCGTACAATCAAGCTCTCCATCGACTGGTTCTACGCCGGGCTGGGACCCACTTAATCAGCCAGAC CCACACTTAATGTGCTGAAACTGGGAAGAGGCACTATTGAGGATGCAAC-GCCTCTGGGTATCGAAACCTGGCTCGTATCAAAAAGAGGGAAATGCGATACTATGGTTATGGGATTGGGGTTCG TCGGGGGTACGGTAGTGTACTCCGCCGGCGCCGGTCCGGAGGTGCAAGTG- GAAGGGTGCCAGGCAGCGCTTAAACGCCAAGGAGTATCACAGGAGGCATAAGGTGTGAAATGCAATTCAAAGGCT CAAAAGTGATTGTCATGGCATTGAGCAACGCTCTGTCAACAGTGTAG-CAGGTTCATGAAGTGTCCAGTTGATGAATCCAAGAGGAGTTGAGAAGGAGATTAGCCGTACAATGAGAGACG AAGAAAAAGCTCCCTCGATTCGCTAGCTCGAAATCCCCCTCAAGAAAATACTGAC- GACGGATAGATTCTCACACTATCATCCCGACAGGATGTGCTCTCTCTCTGTCACTCAAAAATGAACCCCTGGATTT TCCATCTGATCTCCTCAAGATGCAGCGCAGCACTACGAGAACTCATAGCTGAAACCGAG-CATCCATCTTGTGAAAGCAATTCTGACATATTGACAAAGATTATGCCGGAACATCATACAATAGAATCCTTACTGAAAACC AAAATAGTAATGCCCTCCATCCTGATCATGTTGTTACCAACCATCATCAA- TATTACATGACTTGCATAATGGGATCGTTCAATGAAAGCAGACACGAATGTGACACTCAACCTGGCTCAACTCTGC ATTTGA
>CpSPL4	ATGGAATCCAAGACCCAAAGGCGCATCTTAATCTTGAATTCAAGGAGGCTGCTAAA-GCGCGGAAGAAATTGATGACTATGACTCTGAGGATGATGAGAAGACGATGATGAAGAGGGTTGTTCTCTGGAT TTGGGGTTGAGCGTAATGGTCAAGCTCTAAAGAAGAAGAAGGAATTGGTGGGCTGGT-GAAAGAAACGGCTACTGTGCTGGTAGCGGAGGATGTATGCCGGCGCGCTGTCAGGTGAAAATTGGGTGCGG ATCTGACGGAGGCAAAGCGGTACTACCGTCGCCATAAGGTCTGTGAGGTTCAC- GCCAAATGCCGTTGGTGGATGGATCCAGCAGCGCTCTGTCAAGCAATGTAGCAGGTTCATGAACATATCAGA GTTGACGAGATGAGAAGAAGTTGCTGAGCCGTTAGCCGGCACACGAGCGACGTCG- CAAGTTGTCATCGGAGACTATCGAGAGGAGGCTCAAGTCCAGGGTCAAGTCTCAGCTGAAGGAAAATGAACG TAGACTGGTTGATGAAGGAGGAGAATAAGTAGCCACCAAGCAAAGCATATTCAAGTCCGTTAA
>CpSPL5	ATGGACGACGGGAGTTCTGGGTGGGATGTCGACGATAAGAAGAAGAAA-GCCGGTCCGGTACCGGTGGTGGGATCAGCTAGTTCCATGAGGTTGCCAGGCAGAGAAGTGCACGGCTGATC TGACCGATGCTAACGACTACCATAGACGGCATAAGGTTGTGAATACCATGCAAAGCG- CAAGTCGTCATTGTCGAAATCCGCCAGCGCTCTGTCAACAATGTAGCAGATTCTCATGAGCTAACGAAATTGATGA AGCAAAGAGAAAGTTGCCGGAGGCGTTAGCTGGACACAACGAACGGCCAGGAA- GAACTAGCTGATCATCCTCATGCAGAAACATCAAGCGTAAAGTAACAACAGGCACCGAAATGAAAGAATGTTGC GGACAGGTTGATGATAGGGAGGATTAGGATAAGTATCCAAGAAAATGCCAGTTACAAACATTCCAGATTGA
>CpSPL6	ATGGAGTCTGGAGTTATGTTCTGAAGAATCTTCCCCGAATAATGCAATTGAA-GAGCTAAAATGGGCTTGAATTGGGATTAAAACCCCTGAGATTAATAATAATCAGGGTTGCGGGATTGGTTCC CTCGCAAGTCTGTTCCAATGCCGTAAATTGGCTAGTATGTGATGGTTAGGGATGGAG- TCTTGGTCAATCCAATTACTACTGATCAGAAATGCAATTCTGAAGAAGAGGATTCAGTCAAGCTGACTCTGTGCG TGGAACTAACTCTAGGGATTCTGGACTAATTGATCTCAAGTTGGTAGGTTT- GGTGGTGTCAAAGAGATGCAAACCCAACCCAATTGGGTCAGCTGAATCATCCGAAAGCGAATGCCAGTTGGG GTTTGGGTTCTCAAACGCCACTTGCAAGGTTCAATGGTCAAAAAGAATCTCAG- TTCCTCAAAGACTACCACAAACGGCATAAAAGTTGCGAGGCTCACTCGAAAATCCAAACTCATTGTGAATAGCCTT GAACAAAGGTTGTCAGCAATGTAGCAGATTCCATTGCTGGCTGAGTTGATGAGGACAA- GCGAAGCTGCCGAAACGCTTGTGTCACAATGAAACGCCAGGAAACCTCACGTGGCATTAAAGCAGACCTGG GAGGCTGTTCTGTATAAGTGTACTACAGAAGGGACGGCAGGTAG- CAGCTCTAAGGGAACTATGTCGACCAATTCTTAACTTCCAAAGATGACCCCCAACAGCATCCCTATCCACATAA ATACGGGACAAACGTTGGAGGTGGCGTATAAAACTGAAAGACGATACTT- GCCATGATCCTCAATCAACAAATTCTTCACAGATGAGAAACTGCGTTACAATGCCATTGGTTCTGAAAAAT ATTATCCCTCATGAAAGTCAACTAAATTCTGCACTGAAAGCAAATCTGATGGCGCCG- TACTCAGTACTCAAATAACTGGACTCTCAAACATTGGCTCGGCCCTGTTCTGACAAACTCAATAGGAGGTGAGG AGGACTTCACTATGTTGGCTCTGCCCTCAACTGTTCAAGGGCTATCCGGGAT- TCCATCAGGCCGCTGAAACGTGCTCTCTCTGTCAATTACAAACTCTCAAGTCTGTCATCACGGTTCACAT GGCACACCCCTACTTGTCCCAGGCAGCCAAGATGCTGTTAGTGG- GACTCAATTCTGAAACCTCTGGAAATGGGCCACAGGTTCAAGGGACTGGGTTCAAAAAATTGCCATTCTG GCATAAGTTCTGTTGAGGAGACTCACTGGATCCACTCATTTCTGATGG- TAACAATGCTGCTACCTTCGGAATAGATGGGTTATTGAGGGTGGCAATACAAGAATTCCAAGGACCAATTGCACTC CAGATGGGTCACCAGATTTGCTGCAACTGCGTCAGCTCAGCGAGTGGAG- CATCAAAGGCAAGGCTTGCATGTGAAGCCGGAAAGATGATGCTTCTTGGCCTCAGGATCTTGA
>CpSPL7	ATGCACAATCTCCCTCACAAACGCCGCCGCTCCGTCGCCGTTGACACAAC- CTAGGGTTGCGAAATGAAACATTCAATGCTGACGAGCCTCAACTTTCCATGGGATTGGTCCGACTCCTCGACT TCAATCTGACGATCAATTCAAACATCCACACTCCCTCTGATCCGATCAC- TCTCCTCCGTCACTCCCCCGCCCTCCCTCCAGCCCTCCAATTAAAGTCTCCCTGCAATTCCGACAAG

	AGTCGGAAACCGGACCCGGATGAGTTGCAGAGAATTCTGGCGGGTCGGATCCCTT-GTGCTGTCCGGAGATAGATGCAATTCTGCCGCAAAGAGGAGGAAGAAGGCGGTGGGCCGCTAAGAACGGGCCAGGACTGCTGGTCCGGTACCTTAAGGTGTCAGGTACCGGGTTGTCTCCGGTGCACAAATTGAGTGTGCTGTGAGGGCAGAGCAAGAGATAATTGTCAGCAGTGTGGCAAGTTCATATACTGTCAAGATTGACGAAGGTAAC- GTAGTTGTCAGAGAATTAGAGCGTACAACAACCACGACGTCAGAGAAAACCCTCAGACTGAAGGGCTGTGATAAGAACACTGCAACAGGCCGTATCAGCTGAAGAGGTTGTGATGATGAAACTGGTAAAGA-TATCAGGTGCAAGGAGCAGCCAGGGCAGTGGGAGGGAAACATTGATGGAGGCTGATGGCGTAATTCTACCTGCTCTGCTAATGCTAAAATATCCAAGTGTAGCATGGTCTGGTAAACCCAAATTGATGAAGA-GAAGGAAAGATATGCCAATTCTCCATCCTATTGTGATGATAAAAGTGTCTTCTGTGTCACGGTCGAATCTCATTCAAGCTTATGATTGAAATCCGGCAGAGTCCCTCGCCACTCGGCACCAAA-TATTCAGTGGTGGCGAGCATGCCCTGTTGAGTTGGAGGGATATTCGCTCTGGATGTACAATCTGACCTGTTGCAATTGCAAGGAAAGTCCGTGATTAAGTACATGAAGACCTGTGGCATAACATAAGTGA-CTCGTGCAGAGAACATGCTATCTGGACGAGGCACCTTCATATTACCTAACAGCATGATGTACAGTGTATGAAAGGGGAAAGTCCGTGATTAAGTAAAGTGGAGGAGCGTGTCCGAAGCTCCAC-TATGTCATCCTATGTGCTTGAAGCTGCAAGCCCAGTCAATTGTCAGTGGCTTGTGAGTAATCTGCTCAGCCAAAATTTCGGTTCTGTATCATITGCTGGAGTATCTGACACATGACATGTGTGGCCAG-CATCGTGTGACAAAGCCGAAGATTCTGCTAGTGCCTCGACCATCAGTTACTGAGGATATGTGTCCTCATACTGAATACAACATTAGGCCCGATTGAGGTGAGAATGAG-CATGGCTTATCCAATTTCATTCTCATTGCCACGAAGAAATATGTTCTGAGATCAATATAATGCAGAAGAGATTGATTATCTATTGCCCAGAGATTCTGCATTGCAAGGACTAGTTCTGCTGATGAAAAAGCAG-TGTTGAGACACAAAGAGTTACGGAACCTATTCTGAAAGTACGCTACAAAGATTACATGCTGTCATGAAATTCTGTTGA- GAATGAGTCCACCAAACTTGGAGAGAGTGTATGTTACATGAGGATTAGAGTCGATAAAAGTGTGCCACTGGTATTCTGAAGCTGAGATGAGGCAATTCTGCTACAGATATTATTGGTCAA-GAACAGGAGAAAAGACTGAATCTGGTATTGCAATTCCAAGAATTCCAAATTGGAGGGAGGATCAAAGCTCCATAGATG TGCTCCCTGCTATTCAATTCAACCCGGATATGAAGGTCAAAAGAGCAGGTT-GGATGCCATCCTCAGGTTCTGAGACAATGCTGTTACTGTTCCACTTTAAATGGTGAAGCTATGTGAGTATGAGCAGTCTTCAACGGACCCGAGGAAACCTACAATCACAGTACAAACAC- TTACACAGCCTTCACATCACGTCTTATTATGCTTCCGGTGTGTTGGAAATTGTTGGTCTTTCCA TTCTCAAAAGGATAGCGAGCTGCACTATTGCAAGGTGTTATTCTACAGATCATAG
>CpSPL8	ATGTTGGACTATGAATGGGCAACCCATCATCCATAATGCTAACGGGTGATGCTGAACCCAC-TACTCAAGACTCCGACTTGAACCGCCCCCTTTTCGATCACTACTCCCACACCACCTTCAATGACTCCCTCTCCACCACCCCCAACAACTTCACTCCCCATCAACACCACCACTTTCTCAAACCCAAATTCTACGATCCACGCCCTACACTGGGCCCTGTGCTTCTTACCCCTAACCCCTTCCCTCATGCTACTTGAACCTGTTAACCCGGTCCGAACGGG-TACATGGTGTCCCCAAGACTGAACCCGGGGCGCGCGATTGACTTTATGAGCAGAATTGGGTGAAATTGGGTGCCGGACTTACTCTCGTGTGCTACCGCTCTACCGCCGTCTTAACCTGCTGAGTACGCTGACCTTACCCACGCCAACACTATTACGCCGGCATAAGGTTGTGAGTTCAACTCCGAGACTTCAAGCTCCACCGTCATT-GACCGCTGGAACCCGGCTTGGTCAACACTCCGAGATGTCAAGCTGAAGGCTGCAATGCTGACCTTACCCACGCCAACACTATTACGCCGGCATAAGGTTGTGAGTTCAACTCCGAGACTTCAAGCTCCACCGTCATT-GCCGCCGGGTTGACTCAGCGATTCTGCCAACAGTGCAGCAGATTCTCATCTGACGGAATTGATAACGGAAAAAGGA GTTGGCCGAGAAAGGTTGGCCGATCACAACCGGGCGAGAAGAAAGTCAGGCCACAAAC-CAAGATCAGAACAAAGTCTCATCTCAACCACATCTCAGAACACTTCAATAGGGTCTCATGGATTCCGGAGCTCATCTTCATGCTGTTCTGCTGAGTACGCTGAGTATGAGTCAAGCTGAGTACTACCACCAACACTACACGAGTACCTCTGGCGTGGCGAGCTCACTATTICA CTTTAATGGTAA
>CpSPL9	ATGGAGATGGGATAATTCAAGAACGCTCTTCCCG- CAACACAGACTCTTCTCCCTACTGAAAATTGGTTAGAATTGGCCAGAAAATCTACTTGAAGATGTGGGTATTGGAGTTCCCCCAAACCCGGTGGTGGTCATCCTCCGCCGCCGGAGGGCCACCGAAGAAATGGA-GAAGCGGTGGTGTGGTCAAAACGGGGTGGCAGCCGAGCCGAGCAGCCGCCCTAGGTGTCAGGGTGAAGGGTGTAAATTAGATCTGACTGACGCAAAGACCTACTATTCAAGGCACAAAGTGTGGGAC-GCATTCCAAGACTGCTACTGTCATTGTTGCTGGCTTGAAGCAGAGGTTTGTCAACAGTGTAGCAGGTTCCATTGCTGCC- GGAATTTGACCACGGAAAACGAAGTTGTCGCAAGCGTCTAGCTGCCACAAACGAACGTCG-CAGGAAGCCACCTCCAGGATCTCTTCCCTCGCTATGGAAGTCTCTGCTTACATTGAAAACAACAGCAGATCTGGAGGTTCTGATGGACTCTCATACATACCCAAAGCCAATGG-GAGGGATCCATGCCAACATGGAAGTGCCTCTGAACGGGTGACTAACACACATACCAATACCAAAAGTCCACCA-CATCCATGGCAGAGCAACTTAGACAATCTCCCTCCAGACCTTCTCAGGGCTCAGCAAA-TAGGAGTCCTTACCTGACCATATACTGTTAGGAGGATGTTGCCGGAGTCACCGACTCCAGCTGTGCTCTCTCTCTGTCATGAAAATCAGCCCTCTGACTCAACAAACCGCCATTGAGTCTT-GGGCAAATTACTATGTTAACCCGATGGTGACACATGATTCAACCAGCAGCAGTGCTGATGGTGGGTCATGGATCATCTCAAGCGGCTTATGACAC-TTCCGGCACCCACATTCACTGGTCACTTGA
>CpSPL10	ATGGAGTGGAAATGCAAAGTGGACTGGAAAACCTAGACATATTCAAGTCAAAAGCCATT-GTAAGTCCAAAGAACGAGCTAGAACGAGCTGATTGGGAATCGAAGAGGGTGAGGAAGACATTGATGCTGCGTCTTTAACT

	TGTCTGGAGGATTGGTGGTACCAAGCCATTCTGCCTCTGATGTGGGAA- TAATTCTCAGCGAAGAGCTCAATATCAGCTCAACTGAATCGTCATAAAAGAGGGCTGAAAACATCCAATTACAT TTGATGGATTGGAGGATTCCATCGCTGGAGGCTCTGGCTCTGGTAACCATTATTGGCTGAAACTTGGTAAAGAAC TACITGGAAAATGGTGGCGCAAGAG- CAGCTCAAGGCTCGTCTCTGTTATTCCCTGTCACCCGGCTATACCGAAGAAAGTCAGTCATCTGCCAGAC AGTTACTCCACCGTCAAGTGAAGGATGCAACCTGATCTCTCTGCGAAGGAA- TATCACCGCAAACACAGAGTTGGAAATCATTGCAAATGTCATTAGTGGTTAGGAGGTCTAGAACGTCGGTTTG CCAACAATGTAGCAGGTTCCATAGCTTATCAGAATTGATGACCAGAAGCGAAGCTGTCG- CAGCGGCTTCTGATCACAAATGCACGTCGCCGAAGCCACAGCAGGAGACGATCCAGTTAACTCATCAAGTCTCTCA TCTCATTATGATGGACCGAACAGTGTAGTTGTGTAACAAATGTCCTCAGTT- GTTCACACAAGACCTGCTGCAAGTAATACATGGGACAGCACGTGCAGCTCAAGTATCCACTACAAAAGCTGAAAGCTG AAAAGGATGGAGGCATTGACGGGCAAC- CTCATTCTAGGGACTCAACTGCCACATGCTGTGAGCATACTTAATCATGCTTICAGTAGGCTATTGCCATCCAAGGGTG CTAGACTGAGGTCTAAATCAAGGCCTCAAGGAATCCATGTCCTCTCTGTCAAACAATTCTGGGTTCATGTGAGCCTGATT GATGCAGCACTGGATCTCGCTGCTCTCTGTCAAACAATTCTGGGTTCATGTGAGCCTGATT TCGACCACCCCCTGAATGCAAACAGACCTCATGCCCTCAGGCCGG- GATGCATGCTGTCCCCAAGGTTGCCCTTTCATCATCGCAGTACTGGCAGGTTGACCAGCAGTCAAACGACTCCCGTA TGCTTCCATGGCTGCCAAGACTAGTACTGCTAACAGCTACTACCAAGGACCTATGAAACTCGATTCTATTCCCGCTAG
>CpSPL11	ATGGACTGGATGCTGAGAACATCTGCTGGATTGACTGAATTGGGTCGA- GATGACTTCCCCGTGCTGACTGACTGAGTAGCAGTCAGTGAGGTGAACAAACAATGTCCTTTTACCTATTGATCAAGG ATTGATAGATTAGGAGATGAGATAGTGTACAAAATGAATGAGCAGAAGGGTTAG- CAAAGGAGGCATTGTCACCTCGAGGGGGTCGAGGAGGGCACGAGGGATAATGGCAATAATTCAAATATGTCGTGCTT AGTGGATGGATGCACTCGGACCTCACCAATTGAGGGACTATCACGGCGCCATAGGG- TATGGAGCGCTCACTCGAACACCCCTGTTGTGTTAGGTTAGGTTAGGAAAGAGCAAAGGTTGGCCAGCAATGCCAGCAGATT CCATTCACTTGAAGAGTTGATGAAGTAAAGAGGAGTTGAGAAAGCGTCTT- GATGCCACAAACAGCGCTGAAGGAAACCTCAACCGGAATCCTCTACTTGAGTTGAGGTTGGCAACTTTGGCAATCACC AAGGTGAAAATTGTCAGTTCGGTAGTCCAGAGGACATACAAGTACACATAGCAG- CAGCCTAACCTGGCTAATTACAATAATTACAACAAACAGCTGATGTAATTGTTCAACAGAACACTCTTCATATTCAAC TGGTCATGTCACAGTGAAGACATAACATTCCCTCTGTTGATAAAATGCACT- CAGTGCCTGAAGTCCAATAGCCCAGCAGCAGGGCTCAATGCGATGTCCTAAAAGGATATCTGAAATCGAAACAA ATTGGTTAGTCCAAGGATGCTCTCTCTGTCACACATTCCAACACAAAC- CTCGAGGGCTGTCGAGCCATTGATGAGCAGCAGGATGTCGTCATCCGAATCAATCCACAGGCACITGCCGTGAAAT TTGATGGCCTGGCTCAGTACCCCTCATTACAGCGTCCCCAAGATTAAATGGGTATTTCAC- TTTGAACACTGATGGGTTGGAAAACAAGCCTCAAAACTATTCTTCTGCAACTAG
>CpSPL12	ATGATGGAGTTTGTCCACCTCATCGGGTTCATCAAAGAGAGCAAAAAACGGCAGTGGC- TAGTATCAATGCAAATGTTCTGCTTAGTGATGGCTGCAATCCGATCTAGTCAGTCAGGGAGTACCATCGGCACA TAAAGTTGACCATCCACTCTAAACCGCAAAGGTTACGATGGAGGCCGGAGCAGAGAT- TCTGTCACAGTCAGCAGGTTTCAATTGCTGTCGGAGTTGATGACGGAAACGCAGCTGAGGAAACGCCAGATGG TCACAACCGTCGCCGAAGAAAGCCTCAATCAGATTCCATGTCAGAACCTCCG- GAATGTTCTCCCTAGTCACAAGGAATTCTTTATGATAGGCACTACACTTGTCACTCAGTAGTCACAGATATAACC AAAGTCAGTGGTAGCGAAGCGGCTGGGTGACAGGCCGCTAAACCGGAGGATGAATCG- GAATCCATGCTGTCAGCAGCCAGAACCCATAAAACTACATGGACAAGCACAACTATTCCAGAGTCGTAGCTCACC GCTACAAAGGAGAAAACCAGTTCACTGAGCCGTAATTCCGATGTCCTCTCTGTCATCAGGCCAACTCAA GCCGCCACTCTGGCAGCGCTTAACTCGAGCCGTAATTCCGATGTCCTCTCTGTCATCAGGCCAACTCAA AGTCAAACCTAGGGATATGGCTCAATCAAATGGTCAACCCGGTCCCAGCTCTCAA- GCCAGACATCATTGATAAACACCTTGAGTTATTGGGCTGGCAATTCCCTTACACCGGAAATGAAAGCAAGGG TCTGTAATTCTGATTCATGAACTGG- TAACAACAACAATACAACCTCCAATTCCAGGGAATGTTCATGATGCCACAGTCAGGCTCATCTGTCATCTGTCATC AAACACTCTCATTCAAGTGGAGTAG
>CpSPL13	ATGGATTGGAATCTGAAAGACACCCAACTGGATTACTGAATACGAACATGGAAC- CATTCAAAACATTGATGGGTTAGTGGGTCAAGTAGCTTACAGGTCACTGGGATTAATAAGGGGGATTTCAGTGGATT GAAGCTTGGTCAGGTATTGACCCAGGAAATGAGTTAGAAGACAG- TTAAAGGCAACAAATGTTCAAAATGTCGGTGTGCGCTTCAGGATCTCCAAGAGAGAGCTGGCGATTGTAATGGAA TTCAGATAGTGCCTGTCTGAGGTTGCAATGAGCAGACCTAGTAATTCCAGAGAG- TATCATAGGAGGCATAAGTTGTAAGTCCACTCAAGACTCTGAGGTTGCAATTACGGCAACAAGCAACGCTTCTG CCAGCAGTGTAGCAGGTTTCAATTCCAGGAAAGCTCAACCGAGAAAGTCTATCACGTTGGAGCCTTTCTCC CCTAACCATGTTACTCTTCACTGAGGTTGCAATTCTGAGGTTGCAATTCTGAGTCAGCATAACAGCATA- TCCAACCTCTGTCACAAACCGATCTGGCTGGACTTGTCAAAACCGAAGAAGATGTCAGTCTATAATGCCAC GCACACTCTCGTACCATACAACAAAGCTCATTCTGAAATCTCTAGCAG- CAACAAAGAACATGTAACACCAATTCAACCTCTCCACAGCAGTAACCTGAACTCAACAAACACATACCTCGCAA ACTTCACTTGTCACCAACTCTCAACACCCCTGCTCATGAGAAACTAGTAGCAG- TACTGACAAAATGTTCTGATGGGTTCCATCTGGAGACTGTCCTCTCTGTCATCATCCTTACAGACATCT TGTATGGGCCCAAGCCATGATGAGGCCCATTGATCCAAACGGAACATCTGTTA- GACTCTGGCCTTACTACAGCAGTTGGAGGCCATGGAGTCCTCATGTTAATGATGATGTCGATGCCAGTGCCT

	TGCCAGGAATGTTCACATGGCGCTCATGCTTCGTGATACGAAACCCCTCAAACACTTCATTATTGGGAATAG
>CpSPL14	ATGGAAGAGGTTGGTACGCAGTAGCTCGCAATATTCTCATAAAACACTT- GCTGGCCGTTCTGTGATTCACATCCCAGGAAAGAAGCGCAGTCTCCCTCCAAGGAACAAGTTACCACCA CCAACCTGCAGCAGCAACATCATCGGCTCAGTCAGGATTGAAATGGTAGAGATAACTG- GAACCTAACAGCAGTGGAAAGGGATAGCTAACAGACTTGAGCTAACCCCTGGAATCGGATGACTCCGCCTAGGTAC CCAGCTGTCTGTGGATACTAATGTATCTAACAGAGAATTCTGTGGTAGGG- TAATGAGGTAGATGAAAGCCTCTGCTGAAGCTGGAGTTGCTGGGACTATTAACTCCGTGAGGAGCCAATCG CAAGGCCTAACAAAGAAAGTCGATCTGGATCCTGGTAGTGGTGGCGTGGCGG- GAGGTGGTGGAAACTACCCATGTGTCAAGTTGATAACTGCAAGGAAGATCTAACAGCAGGACTATCACAGGG ACACAAAGTTGTGAGATTACAGTAAAGCCACTAACGGCTGGTAGGAA- GCAGATGCAAAGGTTGTCAACAGTCAGCAGATTCACTCTCAGAGTTGATGAAGGTAAGCGAAGCTGCAGG CGTCGACTTGCAGGGCATAATCGACGGAGGAGAAAACTCAGCCGGAGGATGTTAC- GTCACAGTTGTACTCCCTGAAACCGTGAACAAAGCCGCAATGGAGGAGATATGGATATTGTCATTGCTAACAGTGT TAGCTCGTAATCAAGGAAACACCGAGGGATAGGACCACTGCCCCCTACCTAA- TAAGGATCAGCTATTGAGATCCTAACAAAATAACTCCTAACCTTGCAGTCACCTGCTGCAAAGTTACCTGTTTC TGGAAATTGAATAGAATCGTCCCGAACAAAGTAGTCTCGGAGAACAAATAGGT- GAATGGAATGAAATTCTGCTCATCAACTATGAACTTGCTGCTGCTCTTCTGCGAACCCGTAACACCTGCTCCAG ATGCCGTGCGACAGTGTCCAAAGAACAGCAGGAGTTGACACTGATA- GAACTAACTCAGTTGTCTAGACCAAGGTACTTCTCAATTGCAACACGGACCGGTTGAGTTCTCAGTTGAG GAGGAGAGAGAAGTAGTACCAAGTGTCCATTCTGAGATTGCAAGTCATT- GATGCTCTGGAAATTACCAACTTITAGTCTCGCTGAAATGATAGCCGCAAACGCCATTGAGCAG GAAATATTCTCATCTGACAGCAGTAATCCAATGGAAGAGAGGTAC- CGTCATCTCCACCCGTAGTGCACAGTCTGCTAACACATGCATCAAGAGAAATGTTGAGGCTGAGAGTATGTCG ACTAGCGGAGAGGTTACTGAAATGGTAAAGGTAGTGGAGTGTGGTT- GCATCCGTGCTGAACCTTGGAGGTCAAATCCAGTGTGATAATGTTCAATTCAAAGTTCTCCTACCGAGCTG GATACACATCTCATCTGTTCTGATCAGTCGGCTCTAGTTGAACTCTGATCCTCAG- GATCGAACTGGCAGAATAATCTCAAACACTGTTGACAAGGATCCCAGTCATTGCTGGACACTCGTACACAGATCTA CAATTGGCTCTCACAGTCCATGGAGATGGAGGGTACATAAGGCTGGTGTAGTTC- TATCAATTATGTTCCATGTCATCTCTGCTGGAAACAATGGAAGAGAGGTAC- GGCTTCGATAAAAGATGGAAGGGTCATATATGCAAATATTGAGAGCATGGAACCTCCAGAATTGATATCTGCTCCC CGTTGGCTGTTGGGTGTAAGAGACTCTTCTGTTGAGGGAAATTGAG- GACTTCCGGCACCAAGATCCACTGCACACATAACTATGGAATACTTAAAGAAGTCCGGGATCAGCCTCTCAAGGA GACGCATATGATGAAAGTAAACTTGGCAGCTTCTGAGTCAACCTAGTG- TACTGGTCGCTGTTCAATTGAGGTGAAATGGTTCAGAGGCACCACTGTTATAATAGCTAATGCTACTATCTG CAAAGAATTGAGACTCTGAGGCCACTTGTGAAAGTGTGACGGTGCACGA- TATGCCACAGAGGATCGTGCCTGAAATTGGACAGCCCACCTCAAGGGAAAAATGTTGACTTCAAACGAGCTA GGTGGCTATTCCAGAGGAAGTGCCTGTT- TAACATGCTCGGTCTTAATTATGGCCTAGCCCTAAATTCTGTTATATTGCACTGAAACGTGATTGTTGATT TGGTCAAGACCCCTCTAGACATTCTCTAGAAAGAAACTTGGGACTGACGAGC- TATCGAGGGAGTCCCTGAAATGCTATCAGAGATAATCTCTGAAACAGGGCAGTCAGGAAAGGTGCAAGACCATGGT TGACCTGCTCATACATTATTCCATATTGGCATCAACAATACCTCGAG- GAAATATATTCTCCCAAATCTGATGGCCTGGATCACACCTCTGCACTGGCTGCTGCACATCAAGTTCAGA TGATCTGGTTGACGCTTACAAGTGCACCCACAAGAGATCGGATTGCGATGCTG- GAATTCCCTGATGCAAACGGGTATTCTCATTGATGCGAGATGAGGAATAACCACTCTACAAACACGCTTGT GGCGCGGAAGCTGCTGACAGAAATGCTGGTAAATTCTGATGCTGCTGAGGATA- GAGCTCAAACATCAACAGTGGATCAAACCGCGGGCTAGCTATCAAGGGAAAAATCTGCTCAAGGTGTGCTG TTATGGCTGCAAGGTACCAAGGAGGATCCGGGCTACAAGGGTT- GCTCATCGCCTTACATTCACTCAATGCTGCTATTGCTGTTGTTGTTGCTGCTGAGGGCTCCTG ACATTGGCTCTGTCCTCAAGTGGAGAACATGCTTATGCCAAATTAA
>CpSPL15	ATGGAGATGGTAATTCAAGAAGCTCTTCCCG- CAACACAGACTCTCTCCCTACTGAAAATTGGTTAGAATTGGCCAGAAAATCTACTTGAAGATGTGGGTATTGGAGT TCCCCCAAACCCGGTGGTGGTCATCCTCCGCCGCCGGCCACCGAAGAAAATGGA- GAAGCGGTGGCGGTGGTGTCAAACCGGAGGTGGCAGCCGAGCAGCCGCCCTAGGTGTCAGGTGGAAGGGTGT AATTAGATCTGAGTGACGCAAAGACCTACTATTCAAGGACAAGTTGTGGAC- GCATTCAAAAGTCTACTGTCATGTTGCTGGCTTGCAGAGGTTTGCAACAGTGTAGCAGGTTCCATTGCTGCC GGAATTGACCAAGGAAAACGAAGTTGTCAGGGCTAGCTGGCCACAACGAACGTCG- CAGGAAGCCACCTCCAGGATCTTTTCCCTCGCTATGGAAGTCTCTGCTCATTCATTGAAAACAACAGCAGATC TGGAGGTTCTGATGGACTCTACATACCCAAAGCCAAAGG- GAGGGATCCATGGCAAATGGAAGTGCCTCTGAAACGGGTGACTAACACATACCAACTGCAATACCAAAGTCCACCA CATCCATGGCAGAGCAACTAGACAATCCTCTCCAGACCTCTCAGGGCTCAGCAAA- TAGGAGTCCTTATCCTGACCATATACTTGTACTTGTAGGAGGATTTGCGGAGTCACCGACTCCAGCTGCTCTCTT CTGTCATGAGCCCTCTGACTCAACAAACCGCTTGTAGCTT- GGGCAAATTACTATGTTAATCCGATGGTGACATGATTCAACCAGCAGCAGTGTGAGCAG- TTCCCTGATGCATCCCCATCTGGCTGGTCAAATCTGCCAGCCGCAAACGATCAACTACTCTGGTAGCTGAG

	TGGCTAACAGAGCGGAAGACAGTATGAACTTGAACCTCAAGGGCTTATGACAC- TTCCCGCACCACATTCACTGGTCACTTGA
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