**Revised DNA and** **protein sequences of 71 PSC pseudogene in *Fusarium graminearum*.**

The PSC editing premature-stop codon TAG and the edited amino acid residue Trp (W) are indicated by red color in DNA and protein sequences, respectively.

>PSC01-FG2G05850

ATGGAGGGTTATGACGATGTACGATGCCTCCCTAGAATCCCGAAGCTCTTCCCTACCTCTGACTCGCAACCGGAGCTCGTTCTGTTTTCCGCATCCTCTGATACCGGAAGCTCGACGAATAGCGCTCCCCACGCTCTTGATACTTGCAACGATAGTAATAAAGATGGCAGACGAGAGGAAGACCAAGAACAAACCGAGTCTCTGCCCAGTAACGCCCCTCACTCGACGCTCATAACCTTTGGAGATGAAAAGGCTATGTTT**TAG**AAGAACAATGATGCGGAAGAATACCCAAAGCCTTCAAGAGTGTTCACGACAGAGATCACACAGTCTTCACAGGACGACACGGCTTCACTTAACCCCTGCACCAGTTCCGCGCACTCAGACGGTGACCGTCAAGAGGACGCCACAGAAGACTGGAGAAATTTGGGCAACGAAGCTCTCAACCCGGATGACCACTCCGATGGTACCAATCCTGGCAGTTCGGGTGAAACAACACCAAACGCACGCTTCTTTGAGACATGCATAGCTTCGATTGGCGCTCAAGAACAAGCTCCGCAGCCCTTGACAAGACACCGCTTGCAATCAATACCGGATACACGACTCTACAAGCTAGGTTCAGTATACAACAAGCTGAAAGGGATGGCGGAAGATTCACAGGCTGCCACTGCCGGTAGTGATACGCCTCGGCGGGACCTAGACGCTGATCCTGATGGCACTTTGGAGGGCCCTGACGTTGCCTCGGAGCCAGACTATCCAGCTTACTACATCTTCGACCCTCGGTCAGCTGGCTCTGCATACTATATGTATCAAGATTCTGATACACAAGAAGGTTACAAGATCGAGAAAGTTTCCTTCAAGCCCATGCTGCCAGAGCCAGGACAGCGAGCATACTGCATTGAGGCATCGGAGAAAGACCAAGGTGAACCCAGGCACGAGAGCCAAGAGACACTGTGGAGGGTCGACTCATCTCGCGTTCCTGCAGTAGTCATCGATTCAGACAGCTCAAGTTCACACGAAGCGGTCGTTGATACGAACGAGCCCCTTTATGCTGGGGATGAGGCTACCCAGAGTATTGCCAGGAAAGTGAGCGATCGACTTCAGAAGATCCGGCATTTGAGGGAACACCTGCGTGTCATCAATGGAAAAGGGCGAGACGTTCCAGAAGCGAGAGGACTGTATCTCATTGGTGACAAGGATATCCGCGATGTTGTCAGTATTGTTCTGAGCGAAGTGTTCAAGAATGGCCATGTCGATCGATCCGAAAGAAGAACCACAACAACGGAATCTTCTGAGGGTCGACCCCTACCAAAGTTAGACGGAGATTCAAATGCTATTCTGGTGCCTACACCCACAGCAGTAGATCCAGCAACAACCATCAACCTACCCAGCACCTCTTATGCAAACATTAACGCATCAGACATGCAAGTTCACACTAAAACACGCGGTGCCGAGTCCGATACAACGACAACAGTCATCACACGTCGGAGTGTTGCTGAAATTGTTTGGGCTCGGGCTTATCCTGAAGGCTATGATCCGGATTCGCGAACGCATGGTCGAACTGTGTCTGACTGTTGCTCGCCCACTCACGGAGGCTCACGTTCGTGTCCAGATGATCGAAGACAGAGTCATCCCAAGGAAGTCAAAGGCGATCCTACACTACGACATTTTACTACACCAAAGAGTACAGCTGAGATTCTCGCAGACATTATGTGCAACAAGAGCTTTGAACAGCAACTGAGAGTCAGCGATGGCACTGTCATTACTTCATTTCCCAGGCTCTTTTCTCGTGATTTGACCACAGAATGGCCTAGATCATTTCCAGATGGCGGAGACTTGATCAAGCCTGCACCCTCTACGCTGTATCACCAAGGCGTTGATGCCTGTAGTGGTCTTCATGAGCCAGTATCATCACCTTCTAACGAGCAGCCCCCGATATGTCCAACATCCACGACCAACGATAGTTCGTTCTTTGGTGCAAATCCTTTCAATCCTAAATCTAGGAACAAATACTTGCCAACTCCTCTTGCAGCAGAGAGAAGACTCAGCGCTTCTCTGGATGCTGATACCCTAAGACGCCGCAGCACGCAGATCGCTGACATTGAAGAAGAGCGCTTGGACGATTGCCAACCACGTCCTGGTCTTATGAACAAGATCAAGCACGGCAGCCACAAGCTTTTTCATAAAGGCCATTTTCGGAGGCCAAACGGGAGTACAGCGACCGAAGAGGATGCTCTTGATGAGAGCAGTGTCGTGCGTTCAGGGAACGGCACAGGAAGAGGAGGAGCTCCAGAACCGCCCGTATCAGATAGCTCGAGAGTACACAATACCGCAACAGGGGGTAAGCTCAACGTCGCCTCATATGAAGAGGGGATATGTTCGGAGGATGACGAGCCACACAGATGCGTCAACGATTCATCGTCTCGAGATCTTTCTCCGAAACGATGA

>PSC01-FG2G05850

MEGYDDVRCLPRIPKLFPTSDSQPELVLFSASSDTGSSTNSAPHALDTCNDSNKDGRREEDQEQTESLPSNAPHSTLITFGDEKAMF**W**KNNDAEEYPKPSRVFTTEITQSSQDDTASLNPCTSSAHSDGDRQEDATEDWRNLGNEALNPDDHSDGTNPGSSGETTPNARFFETCIASIGAQEQAPQPLTRHRLQSIPDTRLYKLGSVYNKLKGMAEDSQAATAGSDTPRRDLDADPDGTLEGPDVASEPDYPAYYIFDPRSAGSAYYMYQDSDTQEGYKIEKVSFKPMLPEPGQRAYCIEASEKDQGEPRHESQETLWRVDSSRVPAVVIDSDSSSSHEAVVDTNEPLYAGDEATQSIARKVSDRLQKIRHLREHLRVINGKGRDVPEARGLYLIGDKDIRDVVSIVLSEVFKNGHVDRSERRTTTTESSEGRPLPKLDGDSNAILVPTPTAVDPATTINLPSTSYANINASDMQVHTKTRGAESDTTTTVITRRSVAEIVWARAYPEGYDPDSRTHGRTVSDCCSPTHGGSRSCPDDRRQSHPKEVKGDPTLRHFTTPKSTAEILADIMCNKSFEQQLRVSDGTVITSFPRLFSRDLTTEWPRSFPDGGDLIKPAPSTLYHQGVDACSGLHEPVSSPSNEQPPICPTSTTNDSSFFGANPFNPKSRNKYLPTPLAAERRLSASLDADTLRRRSTQIADIEEERLDDCQPRPGLMNKIKHGSHKLFHKGHFRRPNGSTATEEDALDESSVVRSGNGTGRGGAPEPPVSDSSRVHNTATGGKLNVASYEEGICSEDDEPHRCVNDSSSRDLSPKR\*

>PSC02-FG3G01790

ATGTCTAAGGGACAAGTAGTAGCTCATTACAACTACCTGAGCATGATGCGCGTCGATCAGGCCGATCTACCTAGTGACGGATTGCCCAAATGGTACAATGGGTACATGAACCACGAATTCAGTCACGAGAGCCATAAAGGACACGACATGCCTATTACAATGACAGTGGACTTGAATAATCAAATACGGATGGGCGTCTTGATAAACGCTACTTGGCGTCCTAGATGGACGACTCCATTGAAAACCTTGGCCCAGTATTGTGCCTTTCCCAATCCCAGAGACATGACGGCGTACATCGATATCATCAGTAAGTCTTATGATATTATTACGCTACTCTTAGTCAGTGCTTCAGGTCCCCGTCTGCCTGCTAACGCCCTTTGATAGTTCCAGATATCGTCCATGAGGCTGCTCTTATCGCTTCCAATCCGCCATCTGTCTCCGATGACATCCTGCGGGACAACTGGCCCCGTTCACTAGTT**TAG**AATACTAGTAACGGTGACGCGGCTGATCCAGAGTTCCACAACTTTATCGAAACGAAAAAGTTCTACGACGAAGACACGGACTTCAGTAACGAATTCGTCAGACCGCCGCCAACTCAAGTACTTCAGGCGTACTATGAGGATGAAAGAGTCCATGATTTCGTCGACCAAATTATCGAGCTTTGTCCCCAGCCAACCTTCCTACCTATTCGGAATGATCATGTATCAGAGAGGAAGGATCACTTGTGGGCTCCAAAACGCCTACATCCCGAGGCATTTGTGCTCGCTGCAGCCGCCCAGATCTTGCTATTCGCTCCCCAAGATTGGAACCCGGACCGTGACTACTCGCGCGACAAGTACACACATCGATTTCCGACTCCTGATAACCTCGACATTGGTGGTGGCACAGACAAAGTAGTTAGTAACAAGTACTCGATGGAAGATCTCCACCGTGCCATTTTGATGTTCTACCGCCTGGTCGACCGTCGAAGTCAAAAGGATTGGCTTACCAAGAGGGTACTTATAAACACAAAATCCGAGTTCCCAGGATACCACGATCCCAAAAAAAACCCAAGAGTGACTGAGATGGATTGA

>PSC02-FG3G01790

MSKGQVVAHYNYLSMMRVDQADLPSDGLPKWYNGYMNHEFSHESHKGHDMPITMTVDLNNQIRMGVLINATWRPRWTTPLKTLAQYCAFPNPRDMTAYIDIIIPDIVHEAALIASNPPSVSDDILRDNWPRSLV**W**NTSNGDAADPEFHNFIETKKFYDEDTDFSNEFVRPPPTQVLQAYYEDERVHDFVDQIIELCPQPTFLPIRNDHVSERKDHLWAPKRLHPEAFVLAAAAQILLFAPQDWNPDRDYSRDKYTHRFPTPDNLDIGGGTDKVVSNKYSMEDLHRAILMFYRLVDRRSQKDWLTKRVLINTKSEFPGYHDPKKNPRVTEMD\*

>PSC03-FG1G16130

ATGGCACAGACGCTGCTAAAGAAGGCCAGCCAACAGTTCATACGACTTTCTTCTTGCGATTCGAAAAATGCAATCGAACCGTCGCCGGACTCTGAGTTGAATGGCCCTGAAGGCCCTGAAGCACAGCATGGTCGCAAGGTTGGCAACATTGCCTCGAAAAGATGGAAGCCTCTTCGCAGTGCTTTCAGAAACTTAAGAATCAGTGGACGGAGCGGTAAGTCATCCGTTTGCCCTCACTAATAACCTGACCTAACTTTAATAGTTATTGAGATATCAAAGGATTCAAAACCGCCCACGGAGGACCAAATCAAGGCCCATCAGTTGACCAAATATGCCTTACAACATGGATTCACCGTGAAGGGCACCAATCCGAAAGGAATGCCCCGAAAGTCGCACCTGAACCCTGTGGCCATGACCTCCAATTCGACCTTGGTGATCCGAACTCCTCCACAAAGGGCGCGAAGTTCTCTTCAACCATTGAATATTACTCCATTGAGTGACTTGGAAACCCCTTCTTGCTCTGAGGCAAGTGCTAAGCCCTCATCATATCAGGAAGAGTCAACAGCCAAGACATCGATCGAATCCTCTTCCTCGCAGCAGTATGACGCAACAGCTGATAGACGATACAACAGACGGAATCCATGGACTCGCTCCAGTCCCGAAGGCCGGGCACTTACCACTATTCCAGAAGCTGGCGTGGTTCAGGCTCGACCCACCATCGCTACCGTAGAGAGAGCCTCTGCCGCAAAGATCTTTCTCGAGACCCATTTCAACGAGATTCTGTACAAGCCCAATGCCAGGGCCTTGAGGAATCAGCAACTTGAAGCGCAGTTGCGTACCTGCTCGCTAATGTCATTGGATGAAAAGGAGAAGATTCGGGTGCAGTACAGAATACAAGAAACCTGCCACCTGAGGGAGCTACGGGCAATGAAAGCCACCTGTATCGCTCAGAAGTCGAATGACGATTGTAGACTATCGGTCAACAATTACGAGCCGCTACAGATTTTAGGCAAGGGAAGTTTTGGAGTGGTTAGATTGGTGCGTGAGAAGCCTGCCCCAGGTCATGCTTTCCCAGGACAAGTATACGCCATGAAGGTAATTCGAAAGTCGGAGATGATACGGAACAGCCAAGAGGGACATCTCAGGGCCGAGAGAGACTTTCTTGTTGCCTCCGAAGGCTCGCAGTGGTTCGTTAAAGGCAAGGTCGGAATTCTCCAGTACTCAGCTAACAGAACGTTCACAGGGCTGTCCCATTGATTGCTAGCTTTCAGGACCCAGCAAGTCTCTATCTGGTGATGGAGTACATGCCCGGTGGAGATTTCCTTGGGCTACTGATTCGACAAAACATCTTGCAAGAACCCATTGCGCAATTCTATATTGCAGAGATGATCCTTGCTATGGAAGAGGCCCATCGTTTGAACATTATCCATCGAGACATCAAACCAGACAACTTTCTTATATCGGCAACCGGCCACTTGAAGATCTCCGATTTTGGGCTAGCATTCGATGACCATTGGTCCCATGACGCAGCATATTACAACACACATCGATACTCACTGGTTCGAGGACTTGGCATCAACATCAACGGCGATGAGACAGACCAGAAATGCAGCAAGAACATACTAAAACAATTCGAATGGTACCAGTCCGTCGTTTCCGGGATAGACAGACACGGAAGATATCCGTTGGCCAAGGATGAAGATTTGCGAAGTCTCATCGGTTGGAGAAACAGGCATGGAAACCGGACTGGTGCGCGGTCCGTCGTCGGAACTAGCCAATACATGGCCCCCGAAGTCGTTCGTGGTGAGCAGTACGACGGAAGATGCGAC**TAGTAG**AGCATTGGAATCATCCTATATGAATGCCTCTACGGACAGACCCCCTTCTTGGCAGAAGAAGGGCGTAAGCAGACGAAACAAAACATCGTTGTGAGTACACCCAATTACATTCCAGCTGAGCGAAATGACTGACATACTGTCGCAGGACTTCAAAAAGAACTTCTGCTTCCCGCGCAGGCCTTTCGTTAGCGAAAAGTGTAAAGACCTCATACACTGTCTTATCCAAGACAAAGAAGAGCGCCTGTGTTCGAGGAAGTACCAAACATCATACCGTAATGGGTTTCAGGGTCCACGGTTGACAGATTACACTGGTCGCTACGTTTTCCCTGGCGACGCCGAAGACATAAAAGCGCACAGATGGTTCAAGAATACGCCATGGGAGCGCTTGCAGTCTATGCCAGCACCCTTCACTCCCAACCTACAGAGCGATGATGATGCCCATTACTTTGACGAGTCTGAGCCGTTCGAAGACTGGTCCGAGTCGATACCCTCCGGGATATACCTCAACACAGAAGATGTGCGAGAGTTGCTGTTTGGATTTGATACACATGTACAGCAGAAGGCGATAGAGCTCATCAAAGTCCCATTTGATGCGGCCAAACTCCGAAGCATGGACCGCGAAATCGATGCAGCAAAGGACCTCCAACTCAGTGAAAAGGCAACTCTGAAGCAGTTTGTCAGGTTCTACGGACACAAAGAGCGCAAACGCCCACGAGACATGCTGCTTCGGGACAAGAATACGAAAAAGATATCATTGAGGATACGAAAAGAGACTGCCTTCATGGGATATACTTGGCGACGAATGCGACCTGGGGGTTACATCGATCCGAGACCTATAGAGACGCCTCCAGTCTCTGAAGTTCAAGTTGCGGCTTAA

>PSC03-FG1G16130

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>PSC04-FG1G45470

ATGACCGATGCTCGTTTGCCTCGATCTATCAATTCATCAACCCAGGCCATTCAAGCTTTAGCCAAAACTACTTCTACTGATCAGTCTCCTTCACCGCAGCCCTTGTCGACACAAGGCCTCCAGGACGGCGGGTCTCGTTCATCATCGACAGGTAGCGTCGCTTCTGTTACTCGCAAATCGCCGTCATTCCCTTCATCTGAGCAAGATATTCAAGACTCTGTAATGTTTTCCACAATTATTGACCACACTCGTGGCCTTCTCCCTCGAAGGGAGTCTCAAGTACAAGCTGTTGGCGTCGGCGATTTTGATCACACGCCTCCTGCCAGTGGGCGTCCATCCGTGGACATCCCAAGAAAGAAGCATGAGGGAGAAGGCATTAGATCTCAACAACTACTTCATAAAACATCCCAGATCGACAGCCCTCTTTCTACTAAAGATCAACCTACTTCAATGGTCTCGAAACCTCTCTTGAGTACGTCGAGGACAACATCGGTCGAGGTGAACAGTCCCTTGCCTGGTCTTACATACCACAAATCCTCTGTATCGCAAGGCGGAACTGCCACGGATAGTACGCATACAGGGTTACGCGATGAGACACGGATCCAGCAATCGCTGAGTCAAACCTCACTTGACTTAAGCAATGTCAACTCCGACAAGGAC**TAG**AAGTCTGGCACTCTTCAGGCGAAAGACTTGAACCGAGAGGAACGAGAACAACCAATCCCTCTTGCGGACACTCAGGGCCATGTTGACGGGCTCCCATCTTGGAACTTTCGACCCATTCTTTCTCAGCATTCTCCTAAAGATGATGCGACTCAACAGTGGAGTAGATCTAGTTCGTTGAATTACTTCTCTGACCATGCCAAAGATCCATCTTGCCCAAATCTCAACACTGATCTGGCCCCCGTAAGCCCTGGCAGCCAGGAGGGGGAACCAAGCCCATGCAATGATACCCAATCACCCAGTGCTGGGATTCCAGAAGTCCAGCTGATCAAACTGCACGATCGCCACGATAATCTCCACGACTCGAATGCGCAACTATCCACACCGGCTGGATCCGGCGAACCGTTGATCGCATATGCGCAACCATCAGGTCGAAGCCAATCTTTTGGGTCAATCATGGATTACTTGTGGAAAAGCCAATGGCTGAAACGTTTGTCAGGGTTAAGCGGATCGCTCGATCCCATGCTTAAAGAAATATCACTTCGAACGAAGTCGATTAGAGCTGATGATAGACGTCCATCAGAACCTGTACTGCCGAGCAACCAAGTTCCGCATAGACTATCCTCTTGGTCTCCCTTGCCTGGCGAACCGGATCATCACGTTGACGGCCTATTGTTTAAACACACTTTCAGTAATCTCGAAAGGCTTGTTGACGAGGCCCTCTCGCTTACATTAGAGGTAGCCGACCATTCGGAGACTGCGAGCCACGACAACCAAAATTCTCTTCCTGAAGCAGGGGATCTAGATTCGGTTACTAAGCCAAACACATCGCCTAAAGCCCAAGAAGAAAACGAAGTGGTTACAGAAGGTGAAAGCCGTCAAAACCACCATGGGAAGCCACAATATAGACGTGCTGCCACTTACACCACCGTACCAATACGTCCACGCTTAGCTGATATTGTCGAGAGTTATTCGGGAACGTATCAGGAGCTTCGAACGAGAACTCACATCGACCGCACACGCCAGGGAAGCTTCTCGAGACAAATACCACATGGTGTCTTCTCACGGTCGCCCAGTCATGCAACAAAGGTGGAGCCCAAACGCAAGTCTGTCACACTGGAGGATCTCCTGAGCACCGTTACTTCTCTCAAGACGGATGGTCATAGCAAGGGCACTGAAGCCAAGATCCAAAAGTGTGCTTCATCTATTAGCCTCCCGTCGGCCATTGGAAGTGGAACTGGACGAGATGCCTTGCAGGAGAATGACATCGCTGGTAGGAGGCTGCACTACGAACATGGGATTAACCTACGAAAGAGATCACACGTCAGTCTACGTGATACGCGTGGATTTAATCTTCCAAAGTCCCACGTAAGGCATCCAATTGCGAGAGACTGGTCACCAGTTCGGAAGCGTTTTGTTGCTTCTGTCGCTTGCTTGAGTACAGCCCTAATTGGAGTACTCCTTGGAATATACACGGGCCTGGTTCCTTCAATTCAGTACTACATCGTGGATCAGTCGCACGTTGCTATCCATGGCAACACCGGTTGTTTCCTGGCTCTCGCTTTGCCCTCGTTCTTTCTTTGGCCGTTGCCGCTACTTCACGGTCGGAAACCATATATCATGTCAAGCCTCATCATTGCAATGCCATTGCTTTTCCCCCAAGCGATCGCTGTCAGTAATCAAAGATTGACAAACACCACCTACTGGCGAGCCATGCTTCTGACTTGTCGTACGCTGATGGGTGGCTCACTAGGATTTGCCAGCATGAATTTTCACTCAGTTCTAACAGACCTGTTTGGTGCATCTCTGATGTGCAGACACCCTCATCAAGAGGTTATTGACCAGTTTGACGCAAGGAGGCACGGGGGAGGTATGGGTATCTGGCTTGGAATCTGGACCTGGTGCTGGATTGGATCCCTCGGTGTTGGTTTTCTCATCGGTGCCGCCATTATTGACAGACATCCCCCGGCCTGGGGGTTTTATGTCAGTATCATATTGATTGCAGTAGTGTTGATACTCAATGTGGTATGCCCCGAAGTACGAAGGTCTGCATTCCGACGATCTATTGCAGAGGTACGAACTGGGGGGGACATTTCGCGACGTTTAGCCCGAGGAGAAGTCATGATGCATCGAGTCAAGACAGGTCCCAAGTGGTGGGGTCAAGAAGCATATCATGGGGTTCGCTTATCCCTGGAGATGCTTGAACAACCTGGTTTTGCCGTTATGGCGATTTATGTCTCATGGATATATGCTCAGATCGTCCTTGTCATCATCCTGATGGGCTCGCTTGTCTCTCGCTTCTACCGCCTACGATCACCATATGTCGGTCTCCACGTTGCTGCAGTGGCTGTCGGCGCTCTGCTTGCAATCCCTTTTCAAAAGGCCAGTATCTTCTCGAGATCTCGCCGTCGAGAAGGCAAGTCCAATCGAGAGACTATAGGCAAAAAGGTCGCATGGTCATCGCATCTCATTCGACGGGCCATCTTCACGATATCCTTGCCCATCGGAGCTGCCTGTTATGCCGTCGTCTCTTCTGGGCCACCGATCAGTTCTATCGTTCCAGCTTTCTTTGCTCTGTGCATGGGCTTTTTGTCGTGTCTTGCAATTTCTGAATGCAATGGCCTCATCATGGAAACGTTCGATACTTCAGACCTATCTCCTGGCATGGTTGGTCTCCACCGTGATCCATCGGGTCAAGACCATCGAAGGACCAACTACTCGTCCTTTCCAAGAGTTACAGCAGGTTTCGCTGTAATACACTCCCTTTCATATATCCTGGCAGCAGGCGCAACTGCTCTGGGCGGCCATGTGACCCGAAAGCTTGGGCAGCAAGTCGCAACATGCGTTGTTGCGGGCATACTCTTCTTGTTGACAGTCTTATTACTTCTCGTACTCATAAGGTTCAAGAATGTACTCATCATACCTCGATCAAAGTCCGAGGAGATGGAAAAACTGACCCAAGCTCGACGCCAATCTTCCCAACGCCGGGCTACTATGCCCAACGACATACGCGCTTTGATGGAAGAAGATCGCGCTTGGCGGCCTGCGATGACGGGCAACCCAATGGGCAAAAATCGTCGAATGAATGTGCTTGAAATGGGGAACTTGACACGATGGGAGGACATTCGAAGGAGAAACAGGCTCATAGATTCAGGTGTACATATCAACCGCGAAACACTAGATCATGGGCTAGAGTCTTTGGGCGTTGCTCTAGAAACCCACGTTGACAATATGCGACAGAATGCCCAGGGATTTTTCAGGCGAGGAAGCTTGAGAAGACATGGAAGCCGCCGCCTGCGACGCAGCAACCAAAGCAGAAGCAGTGAGCAAACTTTCCATGACCTAGAGTTGGATACGTTTGAGCCTGTCGGAACACAGGGCGAGTCATCCCAGCAGCCACGACAGTTTGCTGAGAGGGATTGTGTGATGGGTCAGGCAATCAAGGAGGAGGACAAAGGCGAGAATCAAGCTGGGGCAAGCAACTCTCGCAAGGATGTTTGA

>PSC04-FG1G45470

MTDARLPRSINSSTQAIQALAKTTSTDQSPSPQPLSTQGLQDGGSRSSSTGSVASVTRKSPSFPSSEQDIQDSVMFSTIIDHTRGLLPRRESQVQAVGVGDFDHTPPASGRPSVDIPRKKHEGEGIRSQQLLHKTSQIDSPLSTKDQPTSMVSKPLLSTSRTTSVEVNSPLPGLTYHKSSVSQGGTATDSTHTGLRDETRIQQSLSQTSLDLSNVNSDKD**W**KSGTLQAKDLNREEREQPIPLADTQGHVDGLPSWNFRPILSQHSPKDDATQQWSRSSSLNYFSDHAKDPSCPNLNTDLAPVSPGSQEGEPSPCNDTQSPSAGIPEVQLIKLHDRHDNLHDSNAQLSTPAGSGEPLIAYAQPSGRSQSFGSIMDYLWKSQWLKRLSGLSGSLDPMLKEISLRTKSIRADDRRPSEPVLPSNQVPHRLSSWSPLPGEPDHHVDGLLFKHTFSNLERLVDEALSLTLEVADHSETASHDNQNSLPEAGDLDSVTKPNTSPKAQEENEVVTEGESRQNHHGKPQYRRAATYTTVPIRPRLADIVESYSGTYQELRTRTHIDRTRQGSFSRQIPHGVFSRSPSHATKVEPKRKSVTLEDLLSTVTSLKTDGHSKGTEAKIQKCASSISLPSAIGSGTGRDALQENDIAGRRLHYEHGINLRKRSHVSLRDTRGFNLPKSHVRHPIARDWSPVRKRFVASVACLSTALIGVLLGIYTGLVPSIQYYIVDQSHVAIHGNTGCFLALALPSFFLWPLPLLHGRKPYIMSSLIIAMPLLFPQAIAVSNQRLTNTTYWRAMLLTCRTLMGGSLGFASMNFHSVLTDLFGASLMCRHPHQEVIDQFDARRHGGGMGIWLGIWTWCWIGSLGVGFLIGAAIIDRHPPAWGFYVSIILIAVVLILNVVCPEVRRSAFRRSIAEVRTGGDISRRLARGEVMMHRVKTGPKWWGQEAYHGVRLSLEMLEQPGFAVMAIYVSWIYAQIVLVIILMGSLVSRFYRLRSPYVGLHVAAVAVGALLAIPFQKASIFSRSRRREGKSNRETIGKKVAWSSHLIRRAIFTISLPIGAACYAVVSSGPPISSIVPAFFALCMGFLSCLAISECNGLIMETFDTSDLSPGMVGLHRDPSGQDHRRTNYSSFPRVTAGFAVIHSLSYILAAGATALGGHVTRKLGQQVATCVVAGILFLLTVLLLLVLIRFKNVLIIPRSKSEEMEKLTQARRQSSQRRATMPNDIRALMEEDRAWRPAMTGNPMGKNRRMNVLEMGNLTRWEDIRRRNRLIDSGVHINRETLDHGLESLGVALETHVDNMRQNAQGFFRRGSLRRHGSRRLRRSNQSRSSEQTFHDLELDTFEPVGTQGESSQQPRQFAERDCVMGQAIKEEDKGENQAGASNSRKDV\*

>PSC05- FG4G32110

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>PSC05- FG4G32110

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>PSC06- FG1G28190

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>PSC06- FG1G28190

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>PSC07- FG3G07950

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>PSC07- FG3G07950

MNEPNYFNVPLGPQMSPSLAPPSLFMSGPKYDNTMRHQPSLPSMPENVFSSPLPSGGTTPRPINRQSVESSGFGVDPPRPPRDRFE**W**VWFPQGYWAERQLMAQRKSNSSRSFFRWRNHSTTKSASESDVRDLSLGSPLASLSAPPNFHGFEPPQQRPPSSPFVSESAHVFSLQHPSTNLFSDNTQDFSSVSQSVDRDSTDSISPMHNWVPSRKTDTPPSTPRSSGSLYGKAKKSIGSKLKFRIRKEATPYSAMPEHEHQCSTVGDTRNYTTMHQITKTGSYFKDDVSRIKLRRRFFGRPPWGRKESGDSYSSVTSSVREILKGETPPPSLGSSSASLRVNCVDSPYPGGEARRIKTPPLTDGAVNCRPRSFFTETITSTDLDEVDIHGSSSRRHSLQIVCHKSYSPDSAEWREKIPKQPVRRSPHEGPAPFEFQLPEHLPSSPMCPANEKHVGGGKGVCVYHGRRKGASKMKG\*

>PSC08- FG3G34330

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>PSC08- FG3G34330

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>PSC09- FG1G22410

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>PSC09- FG1G22410

MVDRNQCQTHTRTPWGTSEHRLDHRIRYALMVAFSIFFIVVVIVAVIVVFETTNGH**W**DHSSENLTNLASAQDQVLIKTTHDNNVNEEVEPYHPPSQVCGAQLQDCQAFPRPDIYCPPLTVCHHTKTRISPSGIYCCAQSDECIVDEEHPAVCAVNTTQCGRDLGGGCCPDGTMCAPDGCLSIQTSLRKHSMPRAMITGLFHGDKTSDAVHTGIKFGEVGVVKSSACHAFLGPTLFAMPIAVGIMTWAIVR\*

>PSC10- FG4G10790

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>PSC10- FG4G10790

MASSTNRPIPLSCFVCPETPRFSDVSHLLTHIASKGHLHQETQTKLKAHQDITAAVKLQRYED**W**YSQNGIEGLLVERMRAKQLKEEARVRRNREYQFVPPEKLNKRKMKQEMSMSPAIKLEGDELMSDFPLFPGFLDLEPDNSIQEEFVLGNDSMLLKGQVWPGMGKMDLADDETRKARNQKKPKSVIDKMKKASESIEPTQVVMSSKLEVERTRDVYDDTSSPVPGQEESTPPKRVSRPKRKKTTPLAEISGNVPKQRRRTTRGQKSNVGKTTRPKKEQGIQKEPEAFPSPERNKGVQDIFRDEVIRTASISEPPLPLSRGDHRLEPRNKHGARSMNGFFHSNIVSPTPQARDLAPRHLQARATPSSFRPESFPPGSFSQVEASYAMRDATIYNASSRLPFATADYSQFREPSSDHLRAAANYGFQLKQEEYPGSHTGDLTQGTNSPYIGMPGTNPLFSNDRSFLNSYNQRALGATFSPLSFPPVNQQPDYSHTGRDMKQQTHMCETMEASGLGGDQELNLDASWSLHDADSDMGFASGLAMDDQQI\*

>PSC11- FG1G41030

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>PSC11- FG1G41030

MEYPAQLVHVPMPGLYETFLERYIMSMLRNPYPTASRFFSRHEVYFALLKISEGMHREIGLDVPTRA**W**YALSCPLPPVFKLYELNTKHLTVLNIEVYNDHTYHLHALVPFWPLFSHLTALQLFILRFHAVCDAMPPILHPGRLFYEDAYEIPIGLFKDLAKEDIRLQEGELTGFPYEIDEDPWECLKSKIDIVPTDSDGEYLSPTSVRRLELLFINPGIKNRPKNLYQYKLREFNQSRSPLEIYRCRKELLERFGLIKPKEQAFAAGKVAIERFEPSFSRFSQPILETPDTSTLRLTPGAQHALVTSDVDAPSVSTSMESQGARRSCWNLVLELLLFWYHDFKADFMPNELEPTADDENESAGDL\*

>PSC12- FG1G09210

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>PSC12- FG1G09210

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>PSC13- FG1G30500

ATGGAGCCGATGGAGGATACATATGATCCACCCGAGGGCTACACGTCTTTTGACTGCCCAAACTACCCCGAGAATCAGACTCTCACTTGCCCCTATATAGGTTGCGACGGCTTTGTGTTCAACTCCGTTGATGAGTGC**TAG**AAGCACGAGTACAACTGGCACAGAGGACCCTATGTCTGCGGCGAGTGTGGTCACCGATTCGCAGCTGCTCCAGCCCTCAACAGACACGGGCGCGCAAGCGGTCATCAAGTCGAGTGGGAATGTTACGATGACGAGTGTGAGAAGTTCGGGGAGAAGTTTGCTACCGGTGCTCTTTATCTCGAGCATCTTCGGGAATCGTCAGGTCATCGATCCGGCGAAGTGAGCGATGAGACTAAGAATACCGAGTCTTCGTTCTCGCCTCCTTCCAACTCTAACGCCCAAGATACTGAGGATGATGTCTTTGGTCCCGCTCCTCAAACTGCTACTTCCGACAGAAACATTTGCAATGAGCCCTGCTGTTATCACTACGGCACGGACTATAAGTGCAAGTCGGAGTCCATCCGCCATGAAGACACTGACGCTCATCAGATTGCGACCAGACTGAACCAGGCCCTTCTAACCAACACTCCCGCTGACGAGGTCAAGGCTGAGCAGGAAGCCATCCGTGCCCTGCGATGCAACTGGTCTGATTGTCTGCTGTTCGGAAAGACCTTCAAGAATGCCAGGGTCTTCTACCGACATCTTCAGGAGAAAGATCATCGTGACGGGTGGGATATCAAATTCCAAGAAGATAGCTTCGAGTACAGCAGCGATAACGAGCCCCTGCCTGGAATGGCGTTTAATGTCGACGGTCGAAAAGGGATGTGCATCAACGAAAAGTGTCCTAGAGTCGGTATGAAGTTTGACTCGTTCACGGCCATGAAGCAGCACAGCAGATCTTTCGGTCATGCTCTGACTGAAGAAGACCTAGCCTCTACAGACGTCGAAGAGTCTGGCGACGAGATTTGGAAGACGACTGACGTCCATGGGATGGAAGCTACCCAGGACGAAGGCCTCTGGAAGTGTATTAAGCAAGGATGCAAGGGTTACCAGAAGATCATGAGCAACATGGCGAATGTCAGAATGCACTTCAACTCAGCTGCGCACATGAACGCAGCGGAGGAGGTCAGTTCTTCTGATGACTCCCATGAGGAGCTTGATGGAATGCAATTTTCCAAAGACAGCGGCTGGCTTTGCGTCAAACCAGGTTGCAAGAAACGCGGTACTACGTATCGCTTTCTGTACAATGCGAAGCGCCATTTCTCTGCTGATATCCATGCCATGGCTGAAGAGGAGAGCTCTCATGGTGAGTCTAGAGAAGAGCTCGATGGCATGGCTTACTCGGAGGAGACGGCCGCCTGGGTTTGTGCAAAGAATACCTGCAGGAGTTATGGCAAATCCTTTGTCACTGTTGGCTTCGCCCGCAAACACGCCCGGTGCACTACTCACCTGAAGGCTGATGAAATCACCCCTACCCCGCGTCGTTTCAAGCACTCTTCAACCAACTCCCTCCTTACGCCTATCGAGATGGGTGGTTCGACAGCTAACGTGACACCCGGAAGCCCCTCCACTGGCCGAGGCCTCACCCTCGTACGACGCCCCGCTAGTACTTCCGAGAACACTCCTACCAATCGTACTCCAGGAAAGATTCGAATCCGTCGATCATCTGGTGCCAAATCGGGCAACGGGAAGCGTATTACGGACTTGGAGAGGGAAAATCAGGAGTTGAAGGAGCGTGTTACAAAGCTGGAAGGGGAAGTGTATGGACCCAAGAGTCCAGGTGTCCTTCAATCACCTAGCGCAGGTCTGCTTGCTCCGCCTGCTGCTCAGGTGTCTAAAGCCTCTTCTTCAGCCCTATCTTCCCCTGCTTCATCTGGACAGATGGAGAATTTGGCTCAGTATGTGCAAGAGGAGTTCCATCTTGCCGTATCGATGGAAGTGGATGACGACGATGTGTGGAATCAGGCCATGCACTGA

>PSC13- FG1G30500

MEPMEDTYDPPEGYTSFDCPNYPENQTLTCPYIGCDGFVFNSVDEC**W**KHEYNWHRGPYVCGECGHRFAAAPALNRHGRASGHQVEWECYDDECEKFGEKFATGALYLEHLRESSGHRSGEVSDETKNTESSFSPPSNSNAQDTEDDVFGPAPQTATSDRNICNEPCCYHYGTDYKCKSESIRHEDTDAHQIATRLNQALLTNTPADEVKAEQEAIRALRCNWSDCLLFGKTFKNARVFYRHLQEKDHRDGWDIKFQEDSFEYSSDNEPLPGMAFNVDGRKGMCINEKCPRVGMKFDSFTAMKQHSRSFGHALTEEDLASTDVEESGDEIWKTTDVHGMEATQDEGLWKCIKQGCKGYQKIMSNMANVRMHFNSAAHMNAAEEVSSSDDSHEELDGMQFSKDSGWLCVKPGCKKRGTTYRFLYNAKRHFSADIHAMAEEESSHGESREELDGMAYSEETAAWVCAKNTCRSYGKSFVTVGFARKHARCTTHLKADEITPTPRRFKHSSTNSLLTPIEMGGSTANVTPGSPSTGRGLTLVRRPASTSENTPTNRTPGKIRIRRSSGAKSGNGKRITDLERENQELKERVTKLEGEVYGPKSPGVLQSPSAGLLAPPAAQVSKASSSALSSPASSGQMENLAQYVQEEFHLAVSMEVDDDDVWNQAMH\*

>PSC14- FG1G03830

ATGACTTCATTTATAACCTACGACATCGACCCTCGCGGCGATATTGACTTTATCTTGAATTCTCCAAACAAACAGAAAATCGTGCCAATCATCAAATACAAAGAGGATGAGAACTACCGTGTGTCC**TAG**TTTGACGGCGACAGCGATCATGTTTTCGAAAACCCGTCCCTTGTTGGAAGGTACGCCGTCTTCAACATTGAAGAAGAAGATGGTCAGGAAACATACATCGACAACCCTAAGAACTTTGTCCGGATGCGCGTCTCCTCCCGACACCTGATACTCGCCTCTCGTACATTCCGCACCATGCTGGAGGGGCCATGGAAGGAGTGTCTCGCTGTGGCCTCTAAAAATCAGTCTGGCCCTGTTCTAATCGAGACCTCTGACTGGGACGCTGCTGCTCTGGCAATTGTCTTGGATGCCATTCACGGGCGTTATCAGGACATTCCGAAGCATGTCGGTATTGGACTGATGACCCGAATCGCTACCATAGTCGACTACTACGAATGCCACGAATGCCTCCAGCTTATAAGTGACATATGGATGGCCGATATTTGGGGGAAAAACGAAGTTCCTGATACCTTTTGTAAGAGCAGCCTTTTATGGCTATATACCTCTTGGGTGTTTTCGAGGCCGAATATCATGGATCTCATGTCAAGGGTCCTTCTGCAAGACACCCTGGATCCCTCACACATTAATCTGAAGGACCTCCCTCTTGGTCAAATTCTAGGTTTGATATCCCAATACAGGCTCATCATGACTATAGCGCTGACGCAAGACAGAAAAAATTGGTAACAAGAGGCAGGAGCTCATCGGCAAACTCATAACTGAATTGGATGGTTTCCGCAGGGAACTTTCAGTCAAGAACAGCTGCCCTATGGGAGATTCCGATTGTTCTGCTCTGATGCTTGGCACTTTAACACGGAAACAACACAACCTCGGACTTCTTTTCCCATCACCTGTCGCTCCATACCGTGACCACAGTCTCTCTCGTCTTTTCTCAGGAGCGAAAGCTTTCTGCAGCATAAGGCCATACAGTCACTGCTCATGTACCATTGCGCGGCGATTGTGGCCTGTTATTGAAAAAATTCAGAAAGACATGGAATGCTACAAGTTAATTGCCTGA

>PSC14- FG1G03830

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>PSC15- FG4G36830

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>PSC15- FG4G36830

MVSSSTISFTDPPAFPPQTRPADKRTTFEKVGKWMFEDKDDSSSHVTAEACCCPCVAYGRTRMRLSEAVNRRNGIYETREKH**W**KSPIYPIFSNQCCLFASFCLPLYGGFITDLRGDVRQFYGIDGNDNRDCFAGCCKPCCTLIRVENEIIGREKCRKPSDSSGYTSQPPMSSSSSSSSSASNVGIKSPCSSSESDECLPCIPEDQSEKSPSTRNSRRSSKNRQRSIALDPVAPTDATLVHDHDLDKDPTGPTPHLHDHDLDRDPKGPTPHLHDHDLGQDPKGPTLHLHGNHRLSKDVTTTASYPPSIHQLRTDTKASASPPAILRHDLFDDATTSTIQHSKHDLGFDQVNTYRASPEHQIHQDEIVPGAFPSSSHDLGQDLASDQARSAHPHGLGEDDEVTRRPTNHGLHHLHEGK\*

>PSC16- FG3G15630

ATGCAGTTACCCACGATCCAGGTATCTCGCCCTCGATCCGCATCTAGTTATTTTATTTTACAGTCAAACTAACATGTTCATCTAGACCCTAACCCGCCCCGG**TAG**CAACGTCCGAAAAAGGGTCCTCATGCGTTGCGTCCTTATGCTAAACGGTACCTCCCAAGCCCCGATTATCTCGAAAACCATCATCAACACAACAATTATCGATTCACGGCTGTGTTCAAGGCCATCAAGGCCGCAAACCCTGATTTCCGTTTCGACACCATTGACGTCATTATATCCTCCAGCGCGTTGACAGGACTTCTCCTAAATTCGGCGCCTGCCCTCGGCCACCTAACTCTGGATCTGTTCGGAAACACGCTCATCATCAGTGGCATCGAGGCACACAGTCATCATAAATTCTGGAGCCAGAGTAATGACATGCATGCATTGCGCTACTTAGCGACGACACAACCATCCAAAAACCCACATCGTGCTGTAAAATACAATTTAGGCGGTCTTTCAATCATCGTTGTCAGCGAACCTAATTTAACCTATACCGATACTGGTACCGGCAGATCCAAGAAACATCGAAATGCAAAGAAGACTGCTGCACCTGTCACTGACTGCGCGGCTATGTTCGCATTGCAACTTGGGCCGGACTCGTGCTGTGAAAACAATTTGCAAACCGGAATGACTTCGTGGCTCTCAAGGGCCGAGTACACTGTCAAGGTAAAAGTCGTCAGGAAACCTAGTACAAATGAGCTATGGTTGCGCGGCCTCGACGTCGTCCCAACGACTCTTACCTTCTCAAAATTGGAGGGATATTCAGATGTTCAGAATGCCCTTAACCAGGTGGCTGGTATTCTACATTGGTTACGGGAAACAGCTACGAAATCGAAATCGGAATCGTCCACCAAGTTCAAGGTTGGCGGTTGGAGTGATGTTGAAGGGGGGTCCACTCTAGCATTGTATGATACCGAGCAGGACTCCCGGGTCCTGCACCGAATGTATGGAGAATTCTGGGACAATCCGACAACAGGGTACGATGCGGCAGAGCATGACACAGGGGATGAAGATATTGCGGAGTGTTTGACAAAGAAGCACCTGCAAGCCCTTGCCGAGGTGAACGGGCTGCAGCGTTTTTTGAAGGAGCGATGA

>PSC16- FG3G15630

MPQQSTPLPHFAACRISDMKPRCSVSTNDRYEILCNFDFFDVVKNKNAVTHDPDPNPPR**W**QRPKKGPHALRPYAKRYLPSPDYLENHHQHNNYRFTAVFKAIKAANPDFRFDTIDVIISSSALTGLLLNSAPALGHLTLDLFGNTLIISGIEAHSHHKFWSQSNDMHALRYLATTQPSKNPHRAVKYNLGGLSIIVVSEPNLTYTDTGTGRSKKHRNAKKTAAPVTDCAAMFALQLGPDSCCENNLQTGMTSWLSRAEYTVKVKVVRKPSTNELWLRGLDVVPTTLTFSKLEGYSDVQNALNQVAGILHWLRETATKSKSESSTKFKVGGWSDVEGGSTLALYDTEQDSRVLHRMYGEFWDNPTTGYDAAEHDTGDEDIAECLTKKHLQALAEVNGLQRFLKER\*

>PSC17- FG3G10750

ATGCCCAGTAGCATTTTCAGTGCCTGGCGGGCGAGATCCAGGAGCGACGTCGAGCCGAATCCTCCGGAATTTCCAAAGTCTCGCATGAACTTCAGCAGC**TAG**AGACTGCCGCTCAATCGCCGCAGAGCTCGTATTGACGGACCCGAGGAGCCTGGCGGCGACGACAACATCTGTACCAAGCCTGTGAATCTCAGTCACGAGAGATCACCTTCTCAAAATTCATCATCCTCCCATATTTCCCGATGGTTGAAACCGAAACGGCGAAAGACCACTGCCTCGACATCGACTTTGACAAATTGGGAAGCATTGTCTGGTTGCAAACTCGCAGGCGTTCCAGATATTTTACATATAGGTTAGAAACAATCATTGGACTTCTTTCAGTTCCCACTGTGATCTGCAACTAACCACTTCCCTGTTCTTCATTCTTTAGAAGAAACCTTTCCTGCTCCCCGGGCAGATCTTAGTGATGCATTCCATCATGCTCAAGGAAGATGGAATCGCGACAGGAGCTCTTCAGGCAAATCTACGACAGTTGTGTCATATTCTACCACCAACGACGGAAAGTCATCCCAGACAACTCAAGACGACTTCGAACATGAGCTGGGCCCAGAGCTTTCCGCTCACGCTGTTGAGAAAGACCCGCCACAACTCGCCCCTTTGCCGGACATGTCTAAGTGTAGCTTGGAAAGGTCGTCGACCTTGCGAGCCTGTATAGAGAAGCCATCTGACGACTTCATTGTTGAGTACAAATCTCAGCGGCGCTCTTCAAAGAAAACTATTCATTATGAATTGACCAATCGATCAAGACCCTATACAGCACCGCCCAAAGCTTTACCGGCCGCCACGCTTCGACCTCTTGAGAGGAAGACAAGGATAAAAAGCAGACATCTGCCGTCGAATGACATGGCAGTGTGTTCCAAAGACAAAAGACCGTCACATTGGGCACCTGATTCAAAAGCACGTTGTCGCAGCTTACCAAAAGAAGAGTTTCAGTGGGCTTCTGGAACATCTGTGACCGCTGGATCCGTTGTCAAGCACGATTCAGAACAGGACTCGCCTTCGTGCTCTACCTCGATCACAACTCTTCAACTACCCCCTAATGTATTTGAAAGGCCGCCCTTGTCCGAACAGAACGTTCATTCCCTGCACCTGGCCGCCCTTCAGTCTGCACCGAAGCCCGCTATTCAACGTCAGCTCTCAAACCGGTTCTCAAGCCAGGGGAGCAACATTACATTCTCTAGTATTGGTCTGGGTATATGTTAG

>PSC17- FG3G10750

MPSSIFSAWRARSRSDVEPNPPEFPKSRMNFSS**W**RLPLNRRRARIDGPEEPGGDDNICTKPVNLSHERSPSQNSSSSHISRWLKPKRRKTTASTSTLTNWEALSGCKLAGVPDILHIETFPAPRADLSDAFHHAQGRWNRDRSSSGKSTTVVSYSTTNDGKSSQTTQDDFEHELGPELSAHAVEKDPPQLAPLPDMSKCSLERSSTLRACIEKPSDDFIVEYKSQRRSSKKTIHYELTNRSRPYTAPPKALPAATLRPLERKTRIKSRHLPSNDMAVCSKDKRPSHWAPDSKARCRSLPKEEFQWASGTSVTAGSVVKHDSEQDSPSCSTSITTLQLPPNVFERPPLSEQNVHSLHLAALQSAPKPAIQRQLSNRFSSQGSNITFSSIGLGIC\*

>PSC18- FG3G16010

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>PSC18- FG3G16010

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>PSC19- FG1G17590

ATGTCAATATCTCAGCTACCGCCATCTTCGGCACATCGCCTGAGATCGTCACATCAGCTTCCAGATCCTCTTTCTGTTATCAAAGAGCTTGTTGACAACAGCATCGACTCGGGTGCCACTTCCATTGAGATCACAATTGCGCCAAACACTGTCGACAAGATACAAGTGCGAGATAATGGCAGCGGAATACAGATTGAAGACTTTCGATTTCTAGGATGCCGGTCTCATACAAGCAAAATCCGAAACTATGACGAACTTCATCAAAACGGCGGCAAAACACTAGGCTTTCGTGGCGAGGCCCTCGCCAGTGCAACTGAAACGGCGGCAATCAAGATCACAACTCGAACTGCACAAGATCCAATTGCATCACTTCTGATGTTAAAAGCAAAGACGGGCGGTATCAGCAAGAAACAGCCAGTATCTGGCACAATCGGAACTACTGTCCAAGCGACAAACTTGTTTGATAAATTCACCGTCCGCAAACAGAATGCTATTAAGACGAGCCGCAGGTCTCTGGTTGAGATCCAACGCCTCCTGGAAAGCTATGCGATAGCGATTCCCCATCTCAAGATCTCATTCAAAGTATCCAGTCCTTCAACCCAGTCATGGTCTTACTCTCCTTGCCCGCCATCGAGCACGCAAGAGGCCATCACTCAGATTTTTGGCCACACTCTTGCCGCTCAGCTTGTCGAGGTATCATCTGATTCAAACGTTGAATGTGGCTCAACAGGGGTGCAACTGGGAACTTTAAGAATCACGGCCCTTCTACCACGACCTGGCAGCGATGTTCAGGTCATAAAGGGTAAGGGGGCTTTCATCTCGGTTGACTCGCGGCCCATTTCATCTATAAGGAGCACTGGGAAAAAGCTGGTATCCGTTTTCAAGTCAAGCATCTCTAAAATATTTGGCTCGCCTGATAGTTCGCGGGCGCCTGCAAACCCCTTTCTACAAATCAGCATCCAATGTCCACCAGGCTCATACGACCCCAATGTGTCGCAGCTGAAGGACGAAGTGATGTTTGACAATGAGCCAGCGGTCATCAGTTGTTTTCAAGCTCTTTGCGACGCCATCTACGTTAAGAAGGTTCCAGGCAGTAAAGGGATGCAGAACAAAACTATGCCAGCAGAGAATACTCCTACACCCACAGCCGGAGCTTTGAAAGCCCCAAAAGCAAATGGAGGCGAGGGAAGATTTCAGAACAGGAATGGGCATGAAAGCTTATCATCCGACCATGATCTTATCGAACCCCTTAATGACGAGTTCGAAAGGTTACTCGTTGGAAATTCTGGCGCGTTTAGGAACAACGAGAGCACTATTCCTAGCGTTTTCACCCACTCTCCTTCGCCAAGCAAAACACGACACCAAATCAACAATGTGATCAGCGACACTAATCAAAGCGAAAAAATCCAGCAGATGATGAGGACGAAATTGTGCATCAATCTTTCACACAGGGACAGTGATTCCACCGACATTGACGGCACAGACGGGCTGGTTCCTGTCCAGGTAACACCCCGTCGGGCAGCTTCACCACCTAAAGAGCAATTGTATTCTCATTCTCGTCGTAGGACGATGACCCTAGGCCGGCGCTCAGAGGACATTGGTTCTTATTTTCGCCCTGTGCGAGACAAGCCGATCGTAATCGCAACAGACGAAACTGCCACACCTGAGAACACTCAACTCGGGAACAGTTTGGCGAGCCCTTGCGAGACTAATCGTCGTCCACTAAAGGAATTGACGCAGTCAGAGGTCAACACGTTTCAAGAGGATGAGGAGGAGGATTTCAGCGACGGTGAATCACTGATAGAGCTCCCTCCTACAGAGCTAGCTCTTGGACCTTCTCCTCGCACATCTCCACGCCGTATGGCCCCTCCTCGTATGCCGAACAGCCCCTTCCGACCACCCACAAGGCCGCAACAGTCCTCCAACCTTGATACAGGGCTGGAATTGTTGCCAAATCTACAAACTCCTCCGCCTTCGGACCCCAGACGTGTCGACAATTCAACTCGTCGTGATTCGCGACGTAACTCAGCCAACGTCTTCACTCGAGGCCAACGGCCATCTCAGAGTAGCATGGTGCCGTCACCAAACAGAACAGGCGACCAAGGACCGAGGCAAAGTCGTATCCATGTGGGAAGTGGACCGACTGTATCCTACAACAGACGTCGATCTGAACAAATTGGACGTGGAAACGGATTAGCCGGTCGCAGAAATGCCCCGACCAGTCGCGACAGCTCGGACGCACACCTCAAGGACTGGTTACACAACATTCACGCAAATTCCGAAGACCAGGAAGGT**TAG**CAACCTCCCGGTCAAGGACAACTCTTGTCCCAAGCCTACTCGCACCCTAGGCTATCTATCGAGGAGTCACAGGGTCAAATACCTCTTGATAAAGCTAGCGAACAACAGAATGATATCCACTGGTCCCACTCCATACAGGCGTTGCTGATGAGAACACCACCGCCACGAGAAGAGAGGTCCGGTAATGAAACTCAGAATGAGCATTACCAAGTGCTGGATCATAGTCAAGACTTGTGCAATGGAGACATCAACCCGAGGCCAGCCAAACGACAACGACATGACTCGAGCATCACAACTCCGACAGACGAAGAGCCAGACCCTAGACAACTTCTCATCAAAAGACAACGCATCCATACAGGAGGAGGACAGCTGAAACGCATTGCGTCGAAGAAGCTCCCGCTTGAAACAATTCCTCAAGCCGATCTCACTGTGAATCTATCCGCCAGTGCCAGTATTCAAATGAGCGCGCTCGTAAATGCGGCTCTTGAATTTATGGGATCAGGCCGAGCAGCTGAGCAGGACTCTGCCATACGGTTCGACAACATGGCAGAAGTTGACAAAGTAGACGAGCTGTTGAGGCATGCCACGGAATCATGGTTAAGCGGGGATTCATCAATCGAGGTGGAGTACATGCTGCGGTCTGGAGCGAAGGGCAAATCGAAAGCGTGA

>PSC19- FG1G17590

MSISQLPPSSAHRLRSSHQLPDPLSVIKELVDNSIDSGATSIEITIAPNTVDKIQVRDNGSGIQIEDFRFLGCRSHTSKIRNYDELHQNGGKTLGFRGEALASATETAAIKITTRTAQDPIASLLMLKAKTGGISKKQPVSGTIGTTVQATNLFDKFTVRKQNAIKTSRRSLVEIQRLLESYAIAIPHLKISFKVSSPSTQSWSYSPCPPSSTQEAITQIFGHTLAAQLVEVSSDSNVECGSTGVQLGTLRITALLPRPGSDVQVIKGKGAFISVDSRPISSIRSTGKKLVSVFKSSISKIFGSPDSSRAPANPFLQISIQCPPGSYDPNVSQLKDEVMFDNEPAVISCFQALCDAIYVKKVPGSKGMQNKTMPAENTPTPTAGALKAPKANGGEGRFQNRNGHESLSSDHDLIEPLNDEFERLLVGNSGAFRNNESTIPSVFTHSPSPSKTRHQINNVISDTNQSEKIQQMMRTKLCINLSHRDSDSTDIDGTDGLVPVQVTPRRAASPPKEQLYSHSRRRTMTLGRRSEDIGSYFRPVRDKPIVIATDETATPENTQLGNSLASPCETNRRPLKELTQSEVNTFQEDEEEDFSDGESLIELPPTELALGPSPRTSPRRMAPPRMPNSPFRPPTRPQQSSNLDTGLELLPNLQTPPPSDPRRVDNSTRRDSRRNSANVFTRGQRPSQSSMVPSPNRTGDQGPRQSRIHVGSGPTVSYNRRRSEQIGRGNGLAGRRNAPTSRDSSDAHLKDWLHNIHANSEDQEG**W**QPPGQGQLLSQAYSHPRLSIEESQGQIPLDKASEQQNDIHWSHSIQALLMRTPPPREERSGNETQNEHYQVLDHSQDLCNGDINPRPAKRQRHDSSITTPTDEEPDPRQLLIKRQRIHTGGGQLKRIASKKLPLETIPQADLTVNLSASASIQMSALVNAALEFMGSGRAAEQDSAIRFDNMAEVDKVDELLRHATESWLSGDSSIEVEYMLRSGAKGKSKA\*

>PSC20- FG3G09640

ATGACAAAGGCCCCTTGCTCCACTCTCTGGTGGGTAGGGACACTTGCTCTCTTTTACTTCACTCTGATCGTGTTTGGATCTACGTTGTCTTTGTCTGCTGATTCTCCGATCAAGGCAGCTTTGGTGGCTTTGGTTAAGGATAACGACATCAACGCTACGCTTTTCAGCATCAAGCAGTTCGATGACAAGTTCAACAAGGACTACCTCCATGATTGGGTCTTCTTCAGTATCCAGGATCTCCCAGAGGCTTTCAAGAACTCGGTTTCCAACGCTACCAACGCAACTTGCATCTTCGAGGTCATTCCCGAAGAGAACTGGAACGACCCACGATGGGTTGATTCGTTCCAGCATTCCATGTCTCAGGATGCCAGCCTGGATAAAAGCTCTGCAACTCTCAAGACTATCGCCAACATCCACCAGATGAACCGATGGATCTCGGCTCCTTTTGCCAAAGAGCAACGTCTCCAGGACTATGAATGGTTTCTGAAAGTTGATCCAGGCGTAAGTACACAGTCGGATAAGTATTTTATGAGACGCAGCAGACAACCAGGCGCTGATTTCATACAGGCTCAACTAGCCCAAAACATCCCTTTCGATGTATTTCGCTTCATGCGAGACAATGGCATCGCTTATGGGTCTAGTCGAGCTTTTTTTGGTCAGGCCAAACTGTCTCGGCTCTCTCCCCGAGTCAAGTCCTTCTTTGAGAAAAACCCGGAGCTGCTCCACAAGGAAGCCGATGTCGCATGGCTTATTGAGAACGTCACTGGCCTCCTCATGAAATCTGGTCCACTGGATGACGGTTTTGAAGACTTGGTTGACGAGGGCAATGACAAGCTGAGGTCGCGGGTCATC**TAG**GAGAGCCGCCCCAGCGATCGAGGTCACTCGGAGACTATTGACTTGCAGAACCAGGCGTCTCAGGTTCCCGGAGCCCAAGATGAAGGCGAGAGATCATGGCTTAGCGAGTGCTTTGCATCTTGGCTAGCTGACATTCATGGAAGCAGTCTCTCCCCATCATTCGAGATTGGATCACTCGCTTTTTTCCGCAGCCTTAACCAGGTTGCATTCTTTGATCATCTTGACAATGCGGGCGACTTTCAGTTTCGGCGAGTGGGCGATGCACCACTGCACAGTCTAAGTGCCAGCATGCTCCTGCCTCGAGAGAGCGTTTGGAACTTCCGCACCAAGGAAACCAAGCTCGGCTCTCAACACGACGGCGAACACACTCAAGCTGAGCGCCAGTACAGTGAGATGTGCATGAATAACTTTGACACCTCTAACTTGAACGGCAGTGCGAAGTCGAAGGGGGATGCCTACGAGGCGATGACGGCGCTATTCAAGGCTTGGGACTTGATGGCCCAGGACGTGGGTGCGCAGAGCAAGAGCCCCAAGTTGATTTCGGGTAACACTTGGATGGGCAAAATGAACGGGGATGCTGGATGCTCATTTTTTTGGTTTTGGCGAAAGACACTATCTGCAGATCTAGGATTTGGATGGGAGGAGGTCGATTTGAGTTGCTTGCATGACGGGATGAAGGGTCAGGTAATGATCAAGGTCTAA

>PSC20- FG3G09640

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>PSC21- FG3G04090+FG3G04080

ATGGGTAAACCCAAAAACGCCGCGCCTCAACATGGGCTCCAAAACCCTAACAAGAGACCTCGCAACAGGTCCCTGTCCGGGTCTCCATCGGAGGCACGACCGCCGAAGAAGACTCCCTTTGAACATGACATTCGGCATTGGAATCGTGTATGTACATGGCGGCATCTACACGCTGTCATATCACAGACTCACTACTCGTACCGGCCGCTGATACTTCTCTTATTAGATGATGAAGGACACAGCTCCCATGCCAGAGGCACTACCCTTCACTGCCGTTCGGGACTATATAAACGGTTGCCGGAGCCCCTCTCCTCTAACAGACCAAATCGACGATTGGCTTGAAGACACATATCCCTCTGACATTTATCACAATTACTTGTACTCAGATATCCTCATCCAGAATCCATTACACAGACCTCCAGCAAGATACGCACGATCGGAACCTCCAAGTATGGGTCGCCGCAACGTACGAGGCAAGAGAGTCCGGTTTAGCACCCGGGCCTCTACCATCGGATCCACCAGTGCTGGAGCTACGCCCAGCGGACGGAACGGGTTTTCGACAGCAGGTCCGGGAACTACCACTTCCAGACTCACTGGTGCACTTGTCGAAAACGCCCAGTACGAAGCCATTAACCTAGCAGCGAACAACATCATCTACCGTGACCGCCGCGAAGGACTCCCAGATCATATTTCACAACTTGTTGAAATTATCTCAGGTGATCGGGAGTTACAAGATTTATCGGTCGAAGACGTCAATGATGACGATGTCCTTGCTGATCTGGAGCGAGGAGCCGGCGAGCCACATGTGGAACAGTATATACAGAACACGCTTGTCACATTGCCACCTCGAAACGACATAGTCAAGCGAAGTGACAAGATCCCCATGGCAAGGTGGACCGTACCCAACACTGGAACTGCCCATCGAGTCAGCGGTCCTATTCCGGACATCCTCCTTGGCTACAATCTCACAGGCGCATTTACGCCTGCCCAGCGAAGTAAACTCGTTTCAATGCAGCTGTCAGCAGCGAACAGGGACGGTCTCTGCCTACCATTCCTTCTTGTTGAGTTCAAAGGCGATGGCCCCTCTAGCAACGGTAGTCTC**TAG**GTGGCGACTAACCAATGCCTGGGAGGATCATCATCGTGTGTCAACATCGCTGACATGTTGAACGAGGAGCTTATGGAACGCGGACCTAAGGACATGACGCCAATCGACAATTCTGCTTTCAGTGTCTCTATGAACGGAACAGAGGCGCGTCTTTGTATTACATGGATGGAAGAAGAAACCTTTTATGTCCAAAAGATCCGAACCTTTGCTCTTCAAGAAGCGCAGCAGTTGTTGGAGTTTCGCAAGTGTATTCTCAACATTATGGACTACGGTCGGAACGTGCGTCTTGAGAGCATCGGATCTGCACTTGACCTTTTACCTGAGGAGACATTCGAGAGCGTCAAATCAAGGAGTGACCTCTTATCCGAGGAGGGGTTGGAAAGCATCAAATCAGTACTTGACCTTGATCTTTTGTCTGATGAGGAATTAGAGGCCCAGGGAATGAATGTCCGGCGGCTGCGAAGTCGAAACATACTGAGACCGTAA

>PSC21- FG3G04090+FG3G04080

MGKPKNAAPQHGLQNPNKRPRNRSLSGSPSEARPPKKTPFEHDIRHWNRMMKDTAPMPEALPFTAVRDYINGCRSPSPLTDQIDDWLEDTYPSDIYHNYLYSDILIQNPLHRPPARYARSEPPSMGRRNVRGKRVRFSTRASTIGSTSAGATPSGRNGFSTAGPGTTTSRLTGALVENAQYEAINLAANNIIYRDRREGLPDHISQLVEIISGDRELQDLSVEDVNDDDVLADLERGAGEPHVEQYIQNTLVTLPPRNDIVKRSDKIPMARWTVPNTGTAHRVSGPIPDILLGYNLTGAFTPAQRSKLVSMQLSAANRDGLCLPFLLVEFKGDGPSSNGSL**W**VATNQCLGGSSSCVNIADMLNEELMERGPKDMTPIDNSAFSVSMNGTEARLCITWMEEETFYVQKIRTFALQEAQQLLEFRKCILNIMDYGRNVRLESIGSALDLLPEETFESVKSRSDLLSEEGLESIKSVLDLDLLSDEELEAQGMNVRRLRSRNILRP\*

>PSC22- FG3G12690

ATGGACGACGACGCAGTGGGGAAATCCCAGGAAACACCAGCTGCATTCCTTCACTCGGTCGACGCCAGAAGCAACAATCAATCTCATCGTACGTTCTCGGAGATGAAATAAAAATCCCACGATCCGACACGATCTCCACCCCCTGTAGTTCCACCCACTAATGTGTCTCTCAGTGGTATTCCCGGTGTACGAACGAGATATCTTCAAGATCGGGCGAGACATTCGCTCAAAGTGAGTAGAAAGGCACGGAAAGTGAGACAACGTTTGACAATGGCACACAGTTCATTAGCCATCGACAATGATCCAGACATGCTGGTTTCCCGAAACCACTGCGAGATTTATGTGGTCGTATATGAGCCAACTATCAATCACATCTACGTTCGGGATCGCAAGTCTTCCAACGGGACCTTGGTGAATGGAAGGCTCATTGGGTCTGGTCCTGAAATCAGTCCCGGGTACTTGTTGCAGCATGGTGATGTGATTGAGATTCGGCCTTAC**TAG**AAGTTCACAGTCGCTCAGTATCAACCATCTCCTCGCCATGAAATGACAGCGCTACAGCAAGAGGAGTGCAAGTTATTTGCTAGCAAGTATCAAGTGACTGATCATTGCCTCGGTCACGGAGCAGAGGCAGCCGTATGTCTTGCCAACGACGTTCAAACAGGAAAGCAATTGGTCTGTAAATTGGTCAATCTGGATAAGATTCACGGGAAGAATGCTCAAGATGAAATACGACGCAAGTTCCAGGAGGCGGACATTTTACGCCAGCTGCATCATGTGAGTCTACTGTCTCTCGGAGTAACAGAAAGCTCTCAACTTCTGATGGCATATGGAACCACTCTTCAATCAGCCTGCTCCGATTCTTTGCTCAGAAGCCAGAGATATACTGCCTCTGATCCTCGTATATTTAGAGCGCCACTGACCCAGCCTAGCCCAACATCCTGTCTTACGTGGATGCCATATCCTCTCCACATACACTGTAAGTATCTTGATCATCGATTGAGCGATTCTCTGACACTGTCATCAGCTATACATTCACCGAGCTTGCTTCCGGCGGTGACCTCATGTCATTCATTATGAGGCGCGGCATTGTCAAAGAGTCAGAGTCTATAATCATCATTCGCCAGGTGGCTCGGGCTCTCGCATATATCCACGAGAAAGGCATAGTTCACCGCGATCTTAAGCCAGAGAACATACTCTTGGCTTATTCTCCCAAAATCACCTGCCATCGAGTAATGCTCTCCGATTTCGGTACCTCTGCTGTTCCTCGACGAAGCAGGATGATTACAAACGCTGGCACAGCAGGATACCAAGCACCGTATGTTATCTACCAATTCAGCCGTGACACTGGTTAATAAATACAGGGAATTTGTAACGACTGGCGAAGCTCATACGACAGCCGTTGATATATGGTCCTTGGGCGTTGTTGCTTTTACGCTCTTAGTATCTGATCATCACGATGCAGTGCTCAGTCAAATGACCGAAGAGGAGATTCTCCAATACACCACGCACACTTTCAGCCAATTAACAAAACGACCTTCTCTTGATGCGGCTAAATTTATCCGAAGCTGCCTGCGACTGAATCCCTTGCGCAGAATCAGCGCTCACGAAGCGAAGAGGCACGAGTGGCTATATGGTAAAAAGAAGAACGTGGAACTTTTCAAGCGACTGGATAGAAGGGTCATATCTTCCTGGGAACCTCAGAATACACTCAGACCGATGCCTTGGTCGTTGCCTGACCTTGTCCCGCCGCCCAGGCATCGGAAACATGACTGCTACAGCTTGAGAGATGAGTTGACTTAG

>PSC22- FG3G12690

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>PSC23- FG4G10420

ATGGCTCTGAACAGCCCCAGGCACAGATCAGTTAGCCAATCGTCGCTTCAGAGCACCTATGGCACTCATGAAAGCACTTCCAACCCTCCAAGGCAACGATCTCCATCTCAGCCGCGGTTGCCCTTCCAGAGCTTGAACGAGACTTCTGTCCTTCTCCGCCCTCCTGGGCCCCTCGAGAGCATGCTCAAAACAACTACAGAGACAGGCGACCTGGGCATTTATTCTATCAATCTGCCATCTTTAGGTACACGTCATCACCTCCCTCGCTCAAGAGCTAGCCACAGTGACAAGAAACGACAGTCTCAGTCTCGGCATGATGGCTCCAAATACGGTGCAACAAGAGACGACCGTAAATTGCTACCCTCATATCGAGACCCTACTTCCGAGATTCTTTCACTATACGGCGGTTCTCAGACCCCCTATTCCAGGTCTTACTCTCCAGCTTCGGAGGATCAGCGTTCGCATTCCTTGACAACTTGCAGTTCAAGGCGAGTGCCTTCTTACAAATCCTCAGGGACCTTCAGCAGTCAGCAAAGTAATAGTGGACTTCAACGTCCTCGCTCACCATTTCCATACCCAGCACGTCTGAAGCGGCCTGGTGTCCGGCCTTCTTCGCCAGCAGTGACAGATAACGGCCTCGTTGATTACAGAAGAATGGTTGAGATTGACAGGTCCGCACACGTCAGTATCTTGATTCCTCTCTCTCTATCTCTTGTTGAAGTCTGACTTCGCCTCTACAGCGCACAACTTCTGGTTCCTACATGACGAGAGGTCGCCGCAGGTATCGCCAATACCCCCCTTTGTCTTTGAGACCAGAGTATAGTCGCTCAGCGTCTTCGCTGCCTATGCGCACATCATCAGCACCTTATTACAGATCAGGAGCAGATTCCTCGGGGGCACTGGGCGACATGATACAGCTATACCCGGAATCTTCCTATCGCCAGTTTGCTGCTGAGGACCAGAGCATTCGCTCGGCTAGCTTGACTTCTATAGTTGAAATGTATCGGGGAAAATCATCAGATGGCTCTGTGCAACCTACCCGGTCTCCCTGTTCAGTTTACTACGACTACACCGAAGACTGCGAAGAGACCTTCTCGGACCATCTGCTAAATGGGTCACCAGTTTGTTCTCCTGGTGGAGAATTCAAGCACATGTCAAAAGAAAATGCTACGCAGGATGCAAGCATAGAAACAGACACTAGAGACAAAGGTACAATGAACTATTAACGGCTGTATGATGCTGACTGATGTGCAGACGAATATGATACAACATTTTCTTGGCGTAAAAGCAATGAGATTAAGCCAGCTCTGTCGGTATCCAGTGTTCACCGGCGACTCATCGGTGAACTCAATGGTGGCACAACTAACCAAAATATCTCAATACCAACGAAAAGAAGGTATCCATCGACGCCGCCGGTCCAACCGCAGCCAGCAATAAATCAACTGGAGCCCAAGTACTTC**TAG**CAAAAGCAGACAGGTTCTCGTGAAATTGTATTTCCAGGCCATCGAGAGTCCCACGATAATTCGAAGATATCGCGCGAGCCTGCGTTGCGTGGCACGGGTACAAACCTGGTCAAGAAAAACAATCTTGCAACTTTAACTCTAGCGAAACGTGTATCAGTTGTTCAATCTAGTGACTCAAGTGACTCGGACTGGGTATGGGATAAACCAGAGGATACCACAATCGTCGAAGACAACCAAGTTGTTCAGGGTGTCACTCGTGTTCCCTCCAAAGCGACAGCTCCATGCTTCGAGGAACGGCGGCCACAGGTGAAAGAGAATTATACGGCTAGAAAGCTACCATCTCACTCGGGACAGCATCATCTCAATGCTAGCACAAATATTGGAGACCAAAATCACGCAAGCAAACAAGTTACAACTGAACAGGATGTGCAGGCATCGAAGGCCCATGCAAAGATTCTGTCACCAAGCCCGATCTCGCCTGCACATCAGCTGAGACTATCGAACAGCATACCCCAACTAATGAAGGCCTTACCACCATTGCCCCATGAGACGCAATCTAACAACCAAATTTCTTATGCGGCCTCATCTGAGGATACCCGAGCTCACACAAATATCGACGGCAGCCTTGTCGATAGCTCTGTTGCGGTTCGATCAGGAAACGGTACCGGCGAGTGGTCCTTAGAGCCTGTGTTCAGTAGTAATGACTTGAGAACCCCGTCCCATCAGCGGATACAGAGTCAACCTCATATGAGTCAATCGCGATTCAAAGTTCGCGTGAAGTCGTCTCAGCAATCCATTTGCTGTGAAGCCCACTTGACTGACTCTCCCAAAGTTACAGGAAGAAGCTCCAGTAGTCCTGTCAAGCCCAGACTTAGGCTCAAGGTATCTCGCAACCGCGTGAGCAGTAAATTGATGGACCTCGATGATATTCATGTACGAAATGAGGGTATTCGGCAATGCAAGTCACTCCTGGAATTGGGAGATGCGCCTCAGGGAGAAGCCTCGTCAGACAGGTCCAGCTTTGAAGAACCACTTGAGGAACAGTTGGCTCAGCTTAATTCCGGCAAACCACTTTCGAACATTGAAGAGGGTACCGCGCGAGTATATTCACCACGAATATCTGACCAATTCGACATTTCCTATCCGTCCCCGACAAAAGGAATAGTGATGGCTGAGTTGGTGCCCCGATCAAATCTTGAGGGTAGCCCAGATTCATTCGACCGCCAGCAACAGGACTTCATCAGTAGACCCATTCCGAGGCCCCTGGGGCACAAGACGTCTGGTCCTCAACCAAATGGGGTGATGGGGATAAAGGGTAGGGAATTGATGGCTACGTCCAATATCCATGAAATTGATCCAGCAACATTGGGTTGCGACATTATTTCTGATAGTTCGGACGAATCTACCTTGGCTCCTAGCCAGATCACTGTGCTGTTGGCGCAACGACTAAAAAACAAGACGCTGCGAGTGAAGCGCTGGGTGTTGGAACTGAAGCGGACAGTACAGAAGTTGATGAGGAGAACATCGAATCGACGGCAATAG

>PSC23- FG4G10420

MALNSPRHRSVSQSSLQSTYGTHESTSNPPRQRSPSQPRLPFQSLNETSVLLRPPGPLESMLKTTTETGDLGIYSINLPSLGTRHHLPRSRASHSDKKRQSQSRHDGSKYGATRDDRKLLPSYRDPTSEILSLYGGSQTPYSRSYSPASEDQRSHSLTTCSSRRVPSYKSSGTFSSQQSNSGLQRPRSPFPYPARLKRPGVRPSSPAVTDNGLVDYRRMVEIDRSAHRTTSGSYMTRGRRRYRQYPPLSLRPEYSRSASSLPMRTSSAPYYRSGADSSGALGDMIQLYPESSYRQFAAEDQSIRSASLTSIVEMYRGKSSDGSVQPTRSPCSVYYDYTEDCEETFSDHLLNGSPVCSPGGEFKHMSKENATQDASIETDTRDKEYDTTFSWRKSNEIKPALSVSSVHRRLIGELNGGTTNQNISIPTKRRYPSTPPVQPQPAINQLEPKYF**W**QKQTGSREIVFPGHRESHDNSKISREPALRGTGTNLVKKNNLATLTLAKRVSVVQSSDSSDSDWVWDKPEDTTIVEDNQVVQGVTRVPSKATAPCFEERRPQVKENYTARKLPSHSGQHHLNASTNIGDQNHASKQVTTEQDVQASKAHAKILSPSPISPAHQLRLSNSIPQLMKALPPLPHETQSNNQISYAASSEDTRAHTNIDGSLVDSSVAVRSGNGTGEWSLEPVFSSNDLRTPSHQRIQSQPHMSQSRFKVRVKSSQQSICCEAHLTDSPKVTGRSSSSPVKPRLRLKVSRNRVSSKLMDLDDIHVRNEGIRQCKSLLELGDAPQGEASSDRSSFEEPLEEQLAQLNSGKPLSNIEEGTARVYSPRISDQFDISYPSPTKGIVMAELVPRSNLEGSPDSFDRQQQDFISRPIPRPLGHKTSGPQPNGVMGIKGRELMATSNIHEIDPATLGCDIISDSSDESTLAPSQITVLLAQRLKNKTLRVKRWVLELKRTVQKLMRRTSNRRQ\*

>PSC24- FG1G25270

ATGTCCGCACCAAACATGCTGTCGGAGGAGCGTATTGACTCATGGCGCCAGCGCGTTCCTAGTCGTCTTGATCGTGATGATCCGTTCAAGGGCGATGGGTTCAATGAACGCCCTTCAACACGACTGGTAAATCCTCTCCCTTAATAGGATACTCAGCGTCGAGGCTGACTATTTTATCGTTAGACCTTCCGTGAAGCTTCTCCACCTCCACGTCGTCCTCATACACGACTGGGTTTCCTCCGTGCAGCTACACCTCTGTTTGGACGCTCCTCTACACCCTCTAGTCGTCCCGCTTCAGGCATGACTGAACGACATGCGGAGAGTAATCGAACTCTCGTACTCACTCTTCTCAGTCGTAAGCGCAAGAGAAAGGAGGATGAGGTTGAAATTCCTCGTGAACCTGTTCGCTTGAACTTTTTGTTTGTTGGTAGTAAAGGGTCTGGGCAGACATCTCTACTATTGTGAGTTGGCACAGAATAAATTACAAAGTACATACTGATTCTGCATAGCCGGTCTCGTTATGGCTACTTCCCTCACGTAAGTCACATCTCATGTTGAGTGATTCGATGAGGTAGCTAACATTAACAGTCTGATGCCTTTGCCCGTCCACTGTACGAGACATATGTCAGTGATCGAGTCTACCACAAGCAGCCTGTGCGTATGGAGATG**TAG**GACACTTCAGGCGTACCAGACTTGAACACTGTTGAAAAGTTGACCTATATCGAATGGGATGCTATATTCCTCTGTTTCGACATTTCGGACAAGATGTCCATGTACACAATTGTTCAATGGGTGGGTCCAAGTAATATGCTTGGCTATGGAATGACAACTGACTCAAGCAGTGGAATAATGCTTCTAATCACGGATTCGCCAAGTCGGCCACTTTTGAACCCCTGTTGTATCTTGTCGGTCTCAAGAAGGATATTCGCGACCAGTGCTTTTTGGAAGATCATCGAACTGATTCCGCAGCGAATTTGTCTTCGGATTTGATCGTGTATCCTACTTGCTGCGTCAGTCCTTCAGAGGTGAGTTTCCCTATTTTCTTTATTATGTATCCTGTTCTAGTCTAACTATTGATAGGCATCATGGCAAGCAATGAGAATTGGAGCTCAGAAATACATCGAGTGTTCAGCTGCTACCGGAGAGGGAATGAAGGATGTCATTGACGGCACTGGACGAGACGCAATGCGAAAGATTGTCGGCGAGGAGTGGCTTAAAGATGAGGTTGTTGCTTCCAAGAAGAAACGTCGGTTCTTCTGA

>PSC24- FG1G25270

MSAPNMLSEERIDSWRQRVPSRLDRDDPFKGDGFNERPSTRLTFREASPPPRRPHTRLGFLRAATPLFGRSSTPSSRPASGMTERHAESNRTLVLTLLSRKRKRKEDEVEIPREPVRLNFLFVGSKGSGQTSLLFRSRYGYFPHSDAFARPLYETYVSDRVYHKQPVRMEM**W**DTSGVPDLNTVEKLTYIEWDAIFLCFDISDKMSMYTIVQWWNNASNHGFAKSATFEPLLYLVGLKKDIRDQCFLEDHRTDSAANLSSDLIVYPTCCVSPSEASWQAMRIGAQKYIECSAATGEGMKDVIDGTGRDAMRKIVGEEWLKDEVVASKKKRRFF\*

>PSC25- FG2G12720

ATGTGCTTTTGCTTCGCCCTAGCCAAAGGGGGCAAGCAAACCTTCGATGTCCAATCCCATGAATATCCTTCGATTAAAGGGCAGACA**TAG**TATCACTGTCCCGTCCACCGGTGTTACCATTCCATCATCGCCTCTAGACCTGTCGACCAACCCTGGTGTGGGGAGTGCGCAGTTATCTTCTATCATACACACAAATATGCGGTATGGGCTCATTGGCACGACATCCCTACTTCGCAACAACCCAGCACCGTTGAAATAAGGGCTCAAAATGCCGAAAACGATTCTGCAGAACTCATTGAGGAGATAAATGCCACTCGAGAACAACACCTTGACATATCGGCTCTGCAAGATCTCCGGACTTTCGAAGATGAGAACTTGGAGTACACGGTGCCTTTCGGTGATGAAACATACAAGAATCTAGGGGTTTCTCTCTTGGTACACAATCGTACCCCCGTCATGTCTCTTCTGAGATTCGAAACTTTCGATGGCCTGGAGGCCTTCCAGCCATGTTCACCAAACATTGATCAACTGAACCTCCAGAAGGCCCTGCGTCCCATTGAAACGGGCGATCCCGTTTTCAATGCAGCCCGCGACTGGTCATGCATCCTACAATCCCTTCCAGGCTTGCCCAAAGAATTGAGATGGATTCTTGCCACTGTTTACGACTTGGCTTGTGTCATGTTGCGTGCCGACAGTGACGAAGATGCACACTGGGCCATGAGGCCATGGCTCTCACACTGGTACGATGTTGCCGACATTCTTTTCTTGAAGTACAATATTCCTGCCACAGCACCAGATCCGGAT**TAG**TTTTCGCGGCCTCTGGTACCACTCGAGAACCCGGCGAGGTTATCTCAACACATCAACCCAGAAGGCAGCCGCCAGTCTCAGAATATTGGTGCGACTGTCGATCATCAAACTCCGATATCCAGTCTCATGTACGACTCGGCCCTTGACCTGATCGATATATGTGTTGGCCGCCCACCTGGAATGATCAGGTTCGTCAACAACATGGAGTTGAGACTATTCGACCCTACTCCTGGGGGACAGATATTCTCACAAAGTCTGCCGTGA

>PSC25- FG2G12720

MCFCFALAKGGKQTFDVQSHEYPSIKGQT**W**YHCPVHRCYHSIIASRPVDQPWCGECVAIFYHTHKYAVWAHWHDIPTSQQPSTVEIRAQNAENDSAELIEEINATREQHLDISALQDLRTFEDENLEYTVPFGDETYKNLGVSLLVHNRTPVMSLLRFETFDGLEAFQPCSPNIDQLNLQKALRPIETGDPVFNAARDWSCILQSLPGLPKELRWILATVYDLACVMLRADSDEDAHWAMRPWLSHWYDVADILFLKYNIPATAPDPD**W**FSRPLVPLENPARLSQHINPEGSRQSQNIGATVDHQTPISSLMYDSALDLIDICVGRPPGMIRFVNNMELRLFDPTPGGQIFSQSLP\*

>PSC26- FG2G33240

ATGAAGTCGCGAAACGTCTTTCTTGGTCACCTATTTCTGCAGTCGGTACAAGCTGCAACGCTGAGGGCCCTCGATTCAAGCACTCCAACCATTAACTGGAACCAGTGCAACTTGGACATTGGCAACGAAATATGGAACAGACGTCAGAAAGCTTTCGACTGTGCCAAATTCTCAGTACCCCTCGATTACACCAACGAAGACAGCTCCCGACCCCTCGTGCTCGACTTGATAAAGGCGAATGCGACTAAACAGCCACGTAAAGGCAGTGTTTTCTACAATCCCGGTGGTCCAGGTTCTTCTGGTGTGTCTTCTGTTATAGACTCGCGTGGCCGGCTTGTAGATGTCCTCGGTGGACACTACGATGTCATCAGTTTTGACCCACGGTAAGAGATCATCTCAGGGGACAATTCGCAAAGTTACTTACCCCGACCAGTGGCTCTGGCCAGACATTGACTGCTACATGCGGCGGTTACTTCGACAGATCTCTTTCTACTTTGTCGCCTCAGCAAATACTCTACGAGGGTGATGAAAAAGTGAATGATGTTGACTGGAAACGGATCAAGTACGACGCCTGGCGGAATGCAGGTGAACTCGCCGATGCTTGTTACAAAGACCATGCAGATACTGGGCGCTTTTACGGCACGCCGTTTGTCGCCAGGGATATCGTCAAGATTGCTGACGCCCTCGGAGAAGGTAACCAGATCAACTACTGGGGATCCTCATACGGAACTGTCCTAGGCCAAGTTCTGGCGGCTATGTTTCCCAACCGTATCGGCCGCATGCTTCTCGATAGCAACCTTCTTGCAGATGAATACTTTACTGGTACCTGGAAGAGCGGCACCAAAGATGCTGGGAAAGCTATCCTGCACTTTTTCGACGAATGCATTGCAGCTGGACCCCAGTCCTGTTCTCTAGCGGCCAACTATTCTACAACAGCGAGTCTCCTCAAGGCTTACGACGAAGCACAGATGTTATATCGTTTCGATGACACTCTCAGCATGGCAGGGAGGTCGAACTCGAAAGCGATCCAGTTTGAATCACTCGTGTTTAATCACCTATACACTCCTTTACTTTACCCT**TAG**TTGGATGCAAGGATAAAAGGTGCTCTGGAAGGTAATGAGGCAGTTGCATTCTTCCCCTTTTCCTCCGATGACGATATAGATTCGAACGGTGCGTCTGCTTTATACATGATCGCATGTGGCGACGCGTCTTTCCGCCCCAATGCTCCTGACGATCTTTTCTCCATCTATCAGACAAATCTGGACCAGGGTCCTTTTGGCGATACGGCAGCGTTGGACAGGTTCCAATGTGCTCGATGGAAGTTCCAAGCGGCTGAACGAATCGATGCCAATAGCCTTCGTCGAATAAATACGAAGAACCCTGTTCTTATCGTCAATGGTATCTACGATCCTATTACTCCCTTAATCTCGGCTTGGGAGGTTTCTTCCAGGTTTCCAGGAAGTCGGGTCGTCGTTCACGAAGGTGTTGGAGTGAGTCTCCCGTCTTCACTTAAGTCATTGGCATACTGACTTCCGTAGCATTCATTTGTCTCTCATCCCTCCAACTGCACTGATGATATTGTGGCCAGATACTTCAACAGCGGATCGATGCCTGAGGTAGATACCACGTGCAAGCCCAATCTCCCTGCGTTCGAGTATATCAAGCTGCTGAGAGGTTATCGCCGAGACGACGACCTGGACTGA

>PSC26- FG2G33240

MKSRNVFLGHLFLQSVQAATLRALDSSTPTINWNQCNLDIGNEIWNRRQKAFDCAKFSVPLDYTNEDSSRPLVLDLIKANATKQPRKGSVFYNPGGPGSSGVSSVIDSRGRLVDVLGGHYDVISFDPGSGQTLTATCGGYFDRSLSTLSPQQILYEGDEKVNDVDWKRIKYDAWRNAGELADACYKDHADTGRFYGTPFVARDIVKIADALGEGNQINYWGSSYGTVLGQVLAAMFPNRIGRMLLDSNLLADEYFTGTWKSGTKDAGKAILHFFDECIAAGPQSCSLAANYSTTASLLKAYDEAQMLYRFDDTLSMAGRSNSKAIQFESLVFNHLYTPLLYP**W**LDARIKGALEGNEAVAFFPFSSDDDIDSNGASALYMIACGDASFRPNAPDDLFSIYQTNLDQGPFGDTAALDRFQCARWKFQAAERIDANSLRRINTKNPVLIVNGIYDPITPLISAWEVSSRFPGSRVVVHEGVGHSFVSHPSNCTDDIVARYFNSGSMPEVDTTCKPNLPAFEYIKLLRGYRRDDDLD\*

>PSC27- FG2G08910

ATGGCTAAAAATAAACGCCATCCCGCCCCTGGGGGTGTCCTACCAACCGTGGGGCCAGCGAGCTTGCCAACGAAGGCCTTGGACCCAAGCCGGGTTTATGGTAGCGAGAAGCCGCCCAACCTGCGCGAAGCCTTCAATGACTTCTATCCTAACGGTCTACCCAATGTCTACAGGATGCTTGAGACTCCCGGTGTCAACGGTATCCAGCAGACGTATATTGAAGACTATCTTCCTGTGGGATTCTACACTAACCCTCGCATTGACGCTGAAGCCACCTTCTCTACACAATGTGGAAAACAGCCTTTCCGTCGTATAGACCAGCTAATGCCTCAACGTCGCATCCACCTCTGGAACAAAGATGAAATCCAGTCCGTTTGCAACTCGCTGCGCAGACTCTACTGGGATTACATGAAGCCCATGCAGAAACCATCTTGCTGGGATGACTTGTGGATCTATTTCGATGCCAGCGATATCTACAACTACGGAGCCCTGAATCTCTGGAATGTGGTCAACCATCTCTATGATGAGAACCAGATCATCGCTGCCGATGTGACAAAAGCGAATGCAGTTGAAGTCGGCCTCTGGGTTGATTCATGGATGTTTGACGATTCTAACTGCAAGAAGCTCGAAGACTGGGATGGAACGAAGTCTGTCATCTCACTTCTCACTGATGACGATTGGAAGTCGGCCGGTCATATTCAAACTGACGTTGTGGCACTCGTTGAGAGCGCTCTTACACACCGTCACTCCCTGCGACTTGACCCAGGAAGGCTCAGGCTGGGTTCGGATGTGAAGCCAAATCATCTGATGAAATCTTGTGCCAACAATAACCTCGAAAACTGGCTCGGTATGTATAAAGTATCAACAACGCCGCATACAGCCTGAAGCTAACGAGAACACAGCTGGTCAGCGCATCTTTGAGCCCTCCGGCCTTCCGAAAGCTCCTACGGTCGCCCCTCACCAGACCTCACCAGCTTCCAAGGAGGCTCCGGCGCCCGTTTGTGTGATAGATGGAAGACACTACTACCAGCCACCATCTGAAAAGCGCGTACCCAGTGCAGTGGAAGCACTGCACCAGTCCGCTGCCGCTGCTGGGCCTGTCGCTCACAGTAACAGCGACGCAGTGTTGACGGAACAGACCGAGGTGACTAATTCCGAGACTCTGGAAACTCTTCGGGTACCACCTCAAATCCGGTCCAAATCTACTGAGCCCACTAATACTGTGTCATCCTCACCACCCGGCGATGAAAAGAACGGCCAGGCCGCTTCTAGCTCATCAACAAAGCGGAAGAAGAAATTGTCTAAGAAACAACGTGATTCAGGAGAGCCTAATGTACAAACCCCGACAAAAGCCGGGCGACAAGGTCGTGGCAACCATCGGGCAACTCCAGGAGCTTGCAAGCCCACAGTGACAGCATCACTGCCAACATCAACCGTAATGGAATTTTCAACCCTGACGACTCCCGAAAAGCAGACCAGCAGCGGTACACAACAAACTGGACCCGGCCCTTCTCTCGATGATCCGAAGGCTGTT**TAG**CAAACAGTCCAGGCTACGTCGAGCCCTTCGAAGGAGCATGATGTCAGTCGTAACGGCAAGCCAAAAGACACCGAGTCGCAGGCTGACACCTTCAAGGAGCTCAAGAGGAACCAGCGACCAAACCAATCTTTTGCTCGCTCAAGTCATCATGAACATAAGGGCGTACAATCTCTTGGTAACACGAACACTCTCAACCACTCGCAAAGGTTGGACTTGAATCTCCACATCAACCACGCGCCTGGTGTTTACTCAGAGGGGGCAATGCAACCAAATTACATGAACAATCCTCTGGGAATCACCTTCCACCCTTCTGGAACCTTCAATCATATCGCCCAAGGAGGATACCCTACCCTTCAGGACAATGCCTCAAACGGCCCGAACTACCGCCATGTAAGCATGCAAGCAAGCACACAGCCACCATACCATCATCCAAAGGGTTTTCTTCCCAACCGGGGTCGGAATCCCAGCAACTCTTCCCGCCTGGATCGCTCCGATTCGAACGACAACCGATGGTATCAGAACAACGAGAACTTGAACAATACGAACTCGGGTTTCAATCGTGGAGGTTATCAGCGCGGTGGACGTAAAGGGACAGGACGTCGGGGAGGCCATAACCAGCGAAACGCAACAGCGCCCATTACTCAACCATATACTGGTTCCGACTCCGTCCAGAAGACGCGCGACAGGGGATCATGGAAAAATAAGTGGTGCCGAGAAGGCTCGGACCCAATACAAGTGACATGTCAGAACGTTCAGGATGGGCATGAAATCAGAGAGTACGTTCCTTGCTCTTGTCAGATGTGCGAGGCTCGCAACCGCTCTGTGCACGTCGCCGCGAAATCCCACCATGAAATACCATCGCTAGACATGCAGTCACGGATCAAATCTGGTTTGTCTGAACGATTCGGACTTGTGGACGAAGTGTATCCATTGCCCTCCAAGGAGCCAGGGCGCTTCATAGTCAGGTCGGTTGAACTTTCCACTCATCGGGCCAACTGTCTTTACTAACTGACTGCTATTAGGTTTGCCAACCCATCGTCTGTTGGTGAAGCGTTGACAATGGGTGGCGGAAAAATGCCCGAGCACGCTCTGTCGATTACTTTCAGCCCAGCCATGCGCTCCAAGTGGACGCTCTCTGAGCAAGCACCGACTCGGGTGACTCCTAGCCAGGTCATTGACCAAAACCCCCCATCTATGCCATTCCAACAGTATTCTTTCGGCCTTGCGGTGCCTGGAAATGCTCCAGGCGTTGCAGTAGCGCACCAAATTCCGCCTGGGATGCTTCATCCATCTGTGGCAAACCCAGCTAATGCGCACTGGTCCAAGAGCGGTGGCCAACAAGCTTTCTCTGGATTTCCACAACCTCATGTATTGGATCGACCACCTGTTGCTCCTCAACCAATGACAAATCCACCTCACTTCCTTCCTGCTGTATCTGGCTATTCTCAAAACCAAGCTTTTGTTCCGGGCCTTGCGCATCTGGAGACTGTTGGCCAAACCCTCGACGAGCCATTGCAAACAAAGCCACCGGCCGAGGAAGCGTTGGAAGACATTCATTGTAACGATCGTTATGATTCATACAGTCCAAGAAGCGACGGTAACGGGACTGCCGGGACCAAAGCTCGTGTTTCGTTGCCCAACACCCCTTCCAAGGCTTCTGCTAGCACGAAGGAAACACACGCAATGCAACTCATGGCCAAAGAGAAGAATGACCAGGCCAGTGGTGAGGATGCGTCTCACCTTTCACACATCGCAACATCCGAGTCAGCCACAAGTGCCACGATCCATATCCGCGTACCCAGTGCCTTCACCGCGAACGAAATCAAAGAAAGGCGTCAAGCGTGGGCAAAAATCTCCATGCCACTTAATCTTCACCGTCCCAGAAACTTTACGCCAACTAAACCCAATAGCGGCTCTATCAAGGATGGTGACAAGCGTGAAGCATACGCTGCTGAATCAGAATTATCAACCCCGACACAGAATGTGACATTCACGCCTGATACTGGCAGTGTCTATGGACAATCTCCTGGAAAGCCAGCATCTCCAACACGTGTCCAGAAGGATTCCTCTATTCCCAGCTCAACTGGACCGACAGGACAAGAAACAAGGACCGAGGAGAACGTCGACCAGAACCAGGAACCGGCTACTGCCTCTTCTCAAACCGGCAAGACTGGAGTCCAGAGTGAGCCAGATCAAATCCAAGCGCCTAACTCCATCGAACCAGACACTCTACTCCAAGTCTCAGACACAAACCGGCGTCCAGACAACGCACAAGCCTCTCAGTCAAAAGGGAAGGGAAAGGGTTCGAAACCGAAGTCGAAGAAGAAAAAGCCAAAACATAAGATGATGTCTCAAGGCAACGAATCCACCTCCCACACACGACAAATCCGGACCTCGCCCCCACCCGTTGCCCCTGAGGCTACCCAAGCTCTCCGAGACGATTCTGAGAGCGCGCCTCGCGACCCTTCATCCACAATCGTCGCCGACAACCAACTATTTGAAGCATTCTCCCCTACAAAGCGACATCATGACGACCCTGAAGAACGTTCTGAATCGGGATTTTCTAAGCGAAGCAAGAAGCAGGGGAACACCCAGGAAACGACTCTTGATGAATCCGACTCACCTGATGAGGATGCCCGCGGCCGTAAGGGATACAGAGTCGGCAGGGGAGGTTCACTTCGTATGGGCAAGACACGTCGACCCCGTGCCATCATGACTGTATCAGTACTTGCAGAGCAGCCCATGGACGCCCAAATGTCACCTCCTTCGTCAGATTTTGCCTTTCAATGCCACAGCGCTTCTGCATCTACTGGCTCACCAAGCCTGCGCGGGCCTGACAACAGTGCAATCAGTCGATTGAACCCCAAGGCACAGGAGTTTGTCTCACCATCTAGAGTGACACCCATTGACAAGCAAATTGCTTCTGGTTCTAGCAAAGATGAAGCCCTCGATAAGCTTGTATCCAATGATGCAACTGATCGCAAACGAAACGCCATCCAGGAACCACTGAAGTCCGGCCTAGGTGTACCTCCTATCGATGACTTCATGCTTCCTGCAACCGATATTTCAACTCCAAAACATCGACGGGCTCTCTCGGAAGCGGTTCAGAAAGAGAAGTTGGCAAACAACAAAGAGGGCGCATGCCAGGGCCAGGTGAAGACACCAGGGAAAGGTCCTAAGCGAGCAAAGGGCAAAGAAAGAGCCGTTACACTCGGGGCGAAAAAAGAAAAGGTCGAGGGCACAGAGAACGGGACCCAGGATACTCCTCGAACTCCCAAACAACCAGGCACCAAAACCAGGAAGCCTGGTCAGATCAATGATGATTGGCCTTCTCTTCCAGCATCTCGGGATCGCGCCCCTTCAAAGCCACAAACACCCCCGATCTGGGGCGCAAAGGCAAAGACTGTCGTAGAAAATGGCGACTCAACACAGGACTCTCCCGTAACCAAAGGATGA

>PSC27- FG2G08910

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>PSC28- FG2G07600

ATGTCGGACGGAGACTCTGAAGTAGACTTCTTTGACCTTACCGACGACGACAATCGTCTAGAGTCGGACGACGAGACACTTCCCCCGCTGGAACTCACTCTCATGCTTGATGAGGACGGCCAGGGAGTCTACCATACCATCGAGCCTCCTCAAGCCATTGATCCCACGGACATGGACACGGACGATACGCTCCATGACAATGGCAACGACGATGAAGTTGACCAGCCCGTGGAAGGCTCACCCGAGGATCCTGACGAATATGATCCTGACGATGATGGCTTCAATGATGATGATGAAAGCGAAGAAGAAAAAGCGCGATTCGAACCTATGAATCCCGATGCCGCCCTTGTGGAAGCTCTGGGAGCAGACTCTATTCCCATCCCAAACTGGGATGGCAGTTGCTTTCAAACATGCCAACCTCCCTGGAATATGTTAGCTGACAAGTACACGGGGTGGCGACAACTTTTCCTTACAAAGAGAGCAGAGCTGCAAAACTGCAAGCGTGTAAACAAAAAAAAGGTTACCCGCCTCAACAGAGAAATCCGGGCTATGAAGGAAGCGATCCACGAGTTTTATGCAGTACATACCGAGAATAATGCGAAGAACGCAAGACTCGCTGAGGAAAACCGCGCCCTTCGAGCACTCTTGTCGGATGAAGACCTGGCCAACTTCCCAGAACCTAAACCGCAAGATCTCGAAGACATAGTGGCATGCTTGCCTGAACGCGTCTTGACAAAGCTGCCCGATGACATCCAGGAGTACCTAACCAAGGGGCCACGACATGTGCTGCCAGCTCCAAAACTCCGAAAGACTGAGAGGGTATATGCTCACCTCCACTTCAGCATCTCATCGTCTTAGATTACTGACAGATCATAGGAATGGCCAGCCGTGGCCGAGGAATTTCTCGAAACTGGCCCCAATGCCGTTTACCAAGATTGGGGGGATGTCTACAAACTCTCATGTCGGGAAGAGAACATGTCGTGGGCTTTCGGAGAATCCAGGGCTCCAAAGACGCATCCTTACCTCAAACTTGTCCCTCCTACGTCTAGTCAGGAACAGAGTGCAATTGCTGGTGTTTCCGACTGCTGTACTCCACCACCTATCCCTCGTGATTGCGATTCCTCGAGTTCTGATGAAGAGCAAGGCTTTCAGCCATTCCGATTTCAAGATCTTCCCCGAAAGATCCAACTCAAGATCTTCCGCTGGGTCCTCGTCTTCGAAGGCGAAGCCATCCATGCTATCTCTCGACTAGACCCCTATTACGAGCCAGGCTCGATGCATCTGAACTGTAATCGACAGGTTTCACTTCTCCATCGATTTCATGTTGGAAGGGAGCCTGTTTCGCTAACTTTCGGGGGTATCCATCCACAGAGACTTCTCGCTCCTCTCCTAGTTTGCAAAAAATGGAACACTATGGGTTCCCATGTATTCTACGGAATAAACACCTTTGTTTTCTCTTCCATTGGCGAA**TAG**GGTCGCTTTGCGAGGAACATTGGGTGCAAACTTCAGATTGTGCAGCACATTGAGCTTCTCTGGATGGGTTCACAGAGACTCACGTATGAACTTGATGAGAAGGGCAAGTATACGTCTCGCCGGACTCACGACTTGGCCTATCTACCTGCGGCCAGCCGCCTCAAGACAATCGCGGTCCATATCCCCGAGTCTTCCAAGTCGTACATGCGACGCAAGCATGAACCCCCAAAGATCATCGAGTACTTGGAAGAGATCACGCGAGACCAGCCAAACTACCGACTCTTCCGCGAGCTACGTAGTCTTCAGGGGTTAGACTATGTGTGTTGTCTTCGTGGTCTGAGAGAAGTCACATTCTGGGATTATGACAGGTGGCTGAACGAGGAAGCAAAGATGCCAGTCCGCGACTGGACTTTCGTTCGGGACATCAACGATTGTGTGCGTCGAGAGAAATCGCACAACAATGAGCACTTCTCTCAGATTCGCTACTTGGCACCGGTAATGAAAGGGTGTCGTCCCAGTATCGCGCTCGCGGCGAGACTTGAAGCATTCGTCAATCCACCGCCTCGGCCTGCAGGACTCCTTACGCTTTCACCTGACGGTGAGCTTCTGTATCCACAACCTCAGGCTTCTGTGAACCATCTCATCGTTCTCTACGATTCTGATGATGAGGATCATCCTGATACTGATGACACTGGTGAAGCTGAAGCTTCCAGTAATGAAGGCTCAGGCGATGAGGGCTCGGGTGATGAAAGCGATGCTGACGACAGCCCGGATCACGATGATGGTGGTGATGCAGATGGTGTTGTTGCTAATGGCAATCTCGAGACTATTGATATCAGTGATGATGAGGCTGATGATGAGGATGATGATCATGGCGAAGCCGGAGATGTCGCACCAGAAACAACCAACACGACAGAAGCCGACAGGGTGGCTATGCCGCCTCCAACAGCCCCTGTTCGTGCGAATTCGCGTGGGCAGGAAACATCGCCGCCGTTATTCATGCAGAGTGCTACCCCAGAGTCTCCGCGTCCAATGTTTGTCCAGAAGCTGGAAACACCGTCGTCACCAGGTGCCTCATCTCACACCGAAGGCACTCCAGCAAGAGCAAAGCGTGAGGAGAGTTCCTTGTTTGTAGGCTCTCCTCTTCACGGGGGTCGAGATTCACCTATCGACATGACTCAGGATGCCGACATGCCATCTCCTGAAGGGCAAAACAAAAGATCTTTTGCCTCCTACAGCACGGTTGATGAAAACGACGAGTGTCTTTACATGGGTAGCTCGCCCAAGAGAGCAAAGACCGAAGAAGATGATGGTGTCGATGGCGGCAGTGGTAGTGGAAATGCTGCTAATGCGAGCTCTGGGCCGTTCATCATAAATGATGATGATTGA

>PSC28- FG2G07600

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>PSC29- FG1G02140

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>PSC29- FG1G02140

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>PSC30- FG4G27760

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>PSC30- FG4G27760

MNFNFTLPVRPRPHTLSTEAANCSYDNQTVSSPSKSDLKVKKRIPVLRQKPGASENTRPETS**W**RDVTSNIQLPPSGIDAEIVRLKSKTTSNQTFFQNGTLMPGLRHDQFHEKAQSDELSTEQFTKRALSPVVADGEVSLLQMVKQNIRHLRSQTPSPEPMCIPAPMHKSGQQGARSTSSSYPEDIVRSPCVPSPPDSHMALSNLGDLKRYSLTNDRLSGLRSSSSSSGYSRAVSQGSAYKTLTEAATAIGKLQRLPTPSYHRFEVSSSSEDLALKNLAPHNSEVSNESERGSIKSLETQPLKRVTAHTRFDYLADRFHSESPSPSVRLPQIIKSKKRKASAISLRSISAGVKRSRVEVKKLAHNICRNSCDKLRQARESIKRQQKEQKKQYSIWKELRRKLKPGDAIKGKHEKGFTTFSMEKSIRGAKSWWKAGVDKYQAPEWMHFGK\*

>PSC31- FG3G31830

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>PSC31- FG3G31830

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>PSC32- FG1G30510

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>PSC32- FG1G30510

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>PSC33- FG3G26160

ATGTTTCGGATGCCACCTCGTCGTCCCCGATCTACTCGACAGAGGTGCGACGGAGTTTTGCAGCCACCAAGTCCACCGGATTCTGGGTATGGCTCGGAGGAAGATGTTTTTGAATGCTCACATAATACTCGAAAAAGATACTTCCCTTCTTTTGATGGCTCTGGTCCAGATGGAACTCCTGTACTGAAGCTACATGTGAACGAAGAGCAAGTATGTCCTGCAGCCAAACAGGAGGAAGTCCAAGTCGAAATTCCTAAGACACCCGAGCGGCATCATCCCAGGCAGAAACCAAACGTGGTCTCACCCTTTATTTGTCCAAAGACTCCCAAGCGCTTGCCCCTGCAGGATAAGAGAATTGACCACAACAGAGGCCTGGATAGATACGTTCCAAGACGTGACTTCGTCTCTCCGTCGTCCGAGAGATATCGAACTACTAAACAAAGTCATGACCTGTCTAGAGAAGAGCGCTTGAAGCGCAACCAAAGTGCTTCGGCAGATCCTTTTGTTCTCAAACGTCATGTTCTGGACCCTGACCCACGTTTTCCTTTCAGAGTTGACAACACCAGTCAAGACAGAGGTTAGAAGGCCGATGCACCTATATTTCTGTGCTAACTCATGTCTTTCTCACAGGCGTTGCTCTGGGCCAGCTCCCACAGAACCGAGGAGGCGAGCGCCAGGTAAGTATGGGGGCCATGTGGTCAGTTGGGGGTGTTGCACCCAGCACAATTGCGGTCGATGATGGGCAAGGACATCTCGTCCGACGTGGAACGAATGCACGCTTATTTCCCACCCCTTTTCAAGAAAGCCTTATCAGCACGTCAGTCGAGAAAGAGAAGCACGAGGGCCGTATTGCTTCGGCTCTGAAGATCGATCAGGTTCGAAAAATCCTCGAGTTCGCAGAAAATCAACAGATACCTCGAGGCCCAAGATGTCACACTCGACAGACAGAGTTCACCCAAACAAGTTGGAATGGGTATCAGTGGGCTAACAAAGAAGAGTGGTCTGGTATGCTCGGTATGCTGACTTCACTTGATTCAAGGCTAACCCATGACAGCTCCCATTAAGCCAGCGAGGCAACGGCTTCTCCCAGCTGCTCCGTTCAGGTAGGTGTATCGGAACATTAGATGCACAGTGAACTGACGTGCTCCAGGGTGCTTGACGCGCCAAACCTCAAAGATGACTTTTACTGCTCACCATTAGCATATTCAGCCACCACGCACACTCTAGTTATTTGCCTGGGGAGTATGCTTTATGCTTGGTCCGAGTTCCGAGGTGTTCAGTTGCTCTACGGTACTCATCCCGACACT**TAG**TTGACGTCGGTCGCCTTCTCGTCAACGCAGGGGGGTAAAGCCGTGCTTGGGATCGGGCACTCAGACGGCCGGATCCTTTTCCAATCCATCTTCGACACACTGCCACGGTTCGAAGTTCGTCAGGCGTTCCCCATTTCTTGCGTCAGCTGGCGGCCTACCTGTACCCTGCGACCTTCCAAGAATCCTCTCATCCTAGGGGTTCAGGTTCAAACCGAGGACTTGGTGGTCGGTGACGAGATGGGTAATATATATTATTACGTGGTAGAGTGGCCAATAGGCTGGGAAATCACCCGGAACACATGGCCTGGTGCAGTATCGTTGATAGCCAGGATCAGCAATATTCACTGTCAGCAAGTATGCGGTCTTGCATGGTCATATGATGGTCGTCTATTCGCCTCGGGGGGTAACGACAATCTTTGCTGTCTTTTCGATGCTGAACAAGTTGTTGGACAACGACTTGAACCCACTATACCAGGGAATGGATATCGAGCGCGCATTGAAGCTAGCAGCGCCTATGGTGGTATTGAGACAAGAGTCACCCAGCTGATAAACATCCCGCAGAGTGAAGACGGCTTTGCGGCACAACTACGATTGGTGCCAAATGCTACTGATGCAGTCCGATGCCTTGGACCTAGCATCGCGAAGCATCACTGGAACCATGACGCTGCTGTCAAGGCTATAGCTTTCTGTCCATGGAGGCGTGGATTAGTCGCTACAGGAGGTGGCTCTAATGACAAGTGCATCCACTTCTTCCACACTCCCTCTGGGGCCGCTTTGGCAACGATATCAGTATCGGCCCAGGTCACCTCGCTCATCTGGAACACGACCCGCCGAGAAATTGCAGCCACATTCGGCTACCCTTCGCCAGAGCACCCATATCGGGTCAGTGTTTTCAGTTGGCCCGAATGTAGGCAAATTGCAGCAATACCTTGGGAGGATGACCTACGGGCTCTTTATGCCATTGCTTATCCTCGAGGGCCAACTTCTAACGACCCAACTATTACGGGAGGGGGGCAGGAAGGATGCATTGTTGTTGCGTCAAGCGATAGAAGCATCAAATTCCATGAAGTATGGTCGCGAGAAAAGGGCGTAACTGTAGGTGCCACCGGCATTTTGGCGGGAAGCGATATTCTCGAGGGACTTGAAGGTATTGACAAAGAAGGAGACGTTATCCGTTGA

>PSC33- FG3G26160

MFRMPPRRPRSTRQRCDGVLQPPSPPDSGYGSEEDVFECSHNTRKRYFPSFDGSGPDGTPVLKLHVNEEQVCPAAKQEEVQVEIPKTPERHHPRQKPNVVSPFICPKTPKRLPLQDKRIDHNRGLDRYVPRRDFVSPSSERYRTTKQSHDLSREERLKRNQSASADPFVLKRHVLDPDPRFPFRVDNTSQDRGVALGQLPQNRGGERQVSMGAMWSVGGVAPSTIAVDDGQGHLVRRGTNARLFPTPFQESLISTSVEKEKHEGRIASALKIDQVRKILEFAENQQIPRGPRCHTRQTEFTQTSWNGYQWANKEEWSAPIKPARQRLLPAAPFRVLDAPNLKDDFYCSPLAYSATTHTLVICLGSMLYAWSEFRGVQLLYGTHPDT**W**LTSVAFSSTQGGKAVLGIGHSDGRILFQSIFDTLPRFEVRQAFPISCVSWRPTCTLRPSKNPLILGVQVQTEDLVVGDEMGNIYYYVVEWPIGWEITRNTWPGAVSLIARISNIHCQQVCGLAWSYDGRLFASGGNDNLCCLFDAEQVVGQRLEPTIPGNGYRARIEASSAYGGIETRVTQLINIPQSEDGFAAQLRLVPNATDAVRCLGPSIAKHHWNHDAAVKAIAFCPWRRGLVATGGGSNDKCIHFFHTPSGAALATISVSAQVTSLIWNTTRREIAATFGYPSPEHPYRVSVFSWPECRQIAAIPWEDDLRALYAIAYPRGPTSNDPTITGGGQEGCIVVASSDRSIKFHEVWSREKGVTVGATGILAGSDILEGLEGIDKEGDVIR\*

>PSC34- FG1G07770

ATGAGTCTCATTCATCCCGCCCAGCAGCAATTCGACAATATGAACCCGAACCCCTCCGGTAGTCAAGATCTCGAGTGCAGCTTTATCTGGATTCTTGACCAGAAAAGAAAATTGAACAGGATCACACACTCCACTTCTGACGCACCAGCCCTGGGAAAGTACAAGGCTTTCCGTCATCGTGTCCTCTACTCCGAGGCTCTTTATGATAAACCAATGTGGTGGAGTTTTTCGTCTGAGGAGACGATGGGAAACGAGGCACAATGGCTTGAGGTGGGCTATGCCCTGGGTCAACTCGATACCGTTGTTGAAGCAGAGTCCGAGATCGTCGGAAGAGAGAATGTTATCCTCGTGGGAATTGAGGAAGGCTGTGCCGTCGGTCTAATGTATCTGATGGAGGCATGTGAACCTCTGGGTGCCTTTTGCGGATGCAGACTACGCATACCCTTACGGAGCGACATCTCGTTCATTGGAGAATTTGGTAGGTATCCACAAGATGCTATCCAATCCTGCCAGATG**TAG**GACTCGACCCAAGATTTGGAAGTTGAAGAATCAAATACATATACGACCACTGGAGAACCAGAAACACCTATGACCACCGCACATTCTCTGGAACCCGTATCTGCCAGTTCTCAGTCGGGCTCTGTGAACAACCTATTTGACAACGTTCCGGCCGAAGTACCTGATCAGTCACCAAAGGCCAAGCTTGCCCGGCTTGGATTATTCCTTCGCCGTTTGCGGCAGAAACCAGACTACTGCACTCTGAATTTTTGCGCTAAAACGGCCATCAACACACCGGTATTCCTGACGCGAACCCCA**TAG**TATACTAAGGAACAAGGCGTATACGAGTGTATCAAAGATCTGGGCTTCACGATCCATCTCAATGACATCTTGGGCGAGCAGAATGACTTCGCGACGTTGACAGATTCAGTCAAATTTCTTATGGATGGTATGGTTGCCAACAAACTTGGACCTTGGAGTGATACAGTTTCATAA

>PSC34- FG1G07770

MSLIHPAQQQFDNMNPNPSGSQDLECSFIWILDQKRKLNRITHSTSDAPALGKYKAFRHRVLYSEALYDKPMWWSFSSEETMGNEAQWLEVGYALGQLDTVVEAESEIVGRENVILVGIEEGCAVGLMYLMEACEPLGAFCGCRLRIPLRSDISFIGEFGRYPQDAIQSCQM**W**DSTQDLEVEESNTYTTTGEPETPMTTAHSLEPVSASSQSGSVNNLFDNVPAEVPDQSPKAKLARLGLFLRRLRQKPDYCTLNFCAKTAINTPVFLTRTP**W**YTKEQGVYECIKDLGFTIHLNDILGEQNDFATLTDSVKFLMDGMVANKLGPWSDTVS\*

>PSC35- FG1G15000

ATGGATGACTTCGAGGCAATTCTAAGTGATTTGGTACTTGAGAATGAACCTATTGAGAAGGAACTCTCTTCTTTGGGTCTGAAGTGGCACTCTTTCGACGACCTTTGCCAGGCGCTACGTTCCGAAACTGTCACCGACAACATCACAAATCGCGACTGCTATGACATGTGGCACGATATATTTCGAGGC**TAG**GGACCTCAAAGCACAGTGTCATTGATGAAGCCTAGCGCCCCAACGGCCCCAACAACCAAAGACACAAAAGGCAACCGGGAAAACGCCCCGGACAAGCGATAA

>PSC35- FG1G15000

MDDFEAILSDLVLENEPIEKELSSLGLKWHSFDDLCQALRSETVTDNITNRDCYDMWHDIFRG**W**GPQSTVSLMKPSAPTAPTTKDTKGNRENAPDKR\*

>PSC36- FG4G30630

ATGAAGACCTGGAACTCGTCTATGGACGAAATGCCTTTAGGAGGCTGTCAAAATCATATGCAGCCACCCGGTCATGACCACATTATCCCACAGAACATCCCCCCAATGCATCAATTCAAGACACCCGCCGCTGTGGGAACCGAAATCGCAGAACCTCTGTGTCGTCGAACTACTTTCTTCGTCAATGTCGACTGGCGAATGGGCGCAACTCTTGCTACCGCTACCAACATTGTCGGCCAGATGTACGTTGAGTGCATGGAGCCTGTTGAGGTACTTCACCCATACCCCGTCATTCTCATCCACGGAGACTTCCACACTGGTCAGGTAATCATGAACCCTTCTCCCTCGGAAATGAGCAGATACTAACTCTCCACAGGTT**TAG**ACAACCAAGCCAGATGGTCAGTCAGGGTGGGCTTCTTTCTTCCTCAAGAAAGGATTTCAGGTCATGATCGTCGACGTGCCGCCGTCCGGCCGTTCCAACTTCCTTACGACTTCCCACTACCTTCACAGAGAGGTGGGATTGAACTCGAGTTCGCTCAAAGCATCAGCAGTTGAAGCTGCGCTTACTGCACCTAGTAAACCCAGAGCTCCCGGTGTGCCTCTCCAGTATGAGAGAGCAGTGTTCCACAACAAGTGGCCAGGCGTAAGCGAATAGACCCAGCATTGTTCATGTGCACTTACTGATAATGCACAGACCGGGCAACGCGGAGATCCTATATTTGCCAGGTATTGTGCTTCCTTGACCACTCTTCACCTCAGTAAGGTTGAACGACAGTCACTCGCCCAAAACGCACTCCAGGCTCTTTTGCGCCAGGTTGGAAAGTCGATCCTCGTTGGCGAAGGCTCTGGCGGAAATGCGACTTGGCTCGCAGCTGATGTCGAGCCCGATCTTGTCGCTGCGGCTATTGCTATTGAGCCTGTGGGACCTCCTTTTGGAACAGCATGCCCTAAGGAAGGTAATCCCTATCGCAAATACAGCCCCTTCATTGAGAAAGAAGAGGGAACGCGAATCTACGGACTCGCCGATATCCCGATCACTTATGATCCTCCTGCTCACCCTCATGAAGGATACGACCCTCCTGCGAGAGAACCTCTAGACTTGGTTAAAGTCATAGCACCAGATGGGCGAAGTGAATGCTTCATGCAACGCCGTCTTGATTACATGGAAAAATCAAATGGCAAACCGAGCAATAGAGTCCGTCAACTCATCAACATCAAGAAGGTTCCTTGCATGGTTGTCACCGCGCACGCCAGCTCACACGCCATGTACGATTGGGCGGTGGTCGCATTCATGATGCAAGCTGGTGTCAAAGTCGACTGGTTCCGGCTCGAGGACGTGAAAATCGAAGGCAATGGACATCTGATGTTCCTCGAAACCAACAGCGATCAGATTGCTCAGGTAGTCCTGGATTGGATCATGAAGAAAGCGACTCCCGAGACCTTTTTGGATATGCCGAGCAGTGTCCCTATGCCAGAATCAACGGACCTTACTGAAATGATTGAACAATCACAGCTGCACAATATGCCTAGTGTCATCCCTAGCAGATTGCCTTCTCCCAGTCAAATGTTACAATTCGCGAGCACTCTGCCGACAGATCACGCCGCAATTGAAGCAACCCCTCTGAGAACACCCCAGGCTCCAAGCTTCGAAGTGGCACGAAGTCGTCCGATTGAGACGCCTCACTTCCCATCACTTGAAGATTCAAGCAAGCGACCAGCTATGTCTTCAGGGCAAACAACTGTGAGCATGAACGAACATCATGAGTCGCCTCATCCGCGTAAATCTTCCGGGCAGAGTCACAAGCGAGTAAAATTCGAACTTCCAGCTGAGACGTCTACTCCGTCGTCCATGTCTTCCTCATTGCCTCAATCGAACCAGATGTCTTCCGAGCAGCGGTCTCAACCGGCTTCTCAAGCTTCTCAGCAACAGGGCCAGGTATCGGTAATAGACTTCGGCATGCCTGACATTTCCATGATGAGACCTGCTCATCCAGGAGGCCCTGCCAGACTGAGACAGCAGGAGAACAGAAGTACTCGCTCCCCTCTGGCGGGTCCTGCATTCAGCCTCTCTTCTTACGAGCAAGCTTCCAACCCTTTCACCCACCGACCCTGTAGTTCATCTGATGAGTTATCTCTTGGACAGCAATACAGCCCAGCGTACAGAGAGAACCAGCGTAATTGCAATTTGAACAACGCTCACACAACAGCTCGATTCGAACGTAACCCCGGAACCGCCGAGGAGTCCATCGCTGCAATGGCCTTGAACAACCCAAGTCGCGCTTGTTCTGGTTTGTCCTACCCGTCTTTGATGACAAGCCAATCTTACCGATCGACCACGGTGCAACCGCAGCAACAGATCCCATATCTTGGACATTTGGATAATTCTCCCGCAGTGACTTCTGAAGTAGAGTTCCGACCACTCTCAACTCCCACCGCCGCTGGACAATCGATGAGCATGGCAGGTCCAGATCCACTGTTCACTCCACTGGCGCCATTTTCAGGACAGAGTGGCCAGGAGCAGAACCATTTTGGCGTCTATCCGCAGATGACGCCCCCGAGCCCATCTCCAATGCCTAGACAGTCGCTGTTGAACCCGCTATCGTACAATCTTGACACGGGGTCGCCTCATCTGGCGCAATCGCAGCACAAACCGACTTCCAGATAA

>PSC36- FG4G30630

MKTWNSSMDEMPLGGCQNHMQPPGHDHIIPQNIPPMHQFKTPAAVGTEIAEPLCRRTTFFVNVDWRMGATLATATNIVGQMYVECMEPVEVLHPYPVILIHGDFHTGQV**W**TTKPDGQSGWASFFLKKGFQVMIVDVPPSGRSNFLTTSHYLHREVGLNSSSLKASAVEAALTAPSKPRAPGVPLQYERAVFHNKWPGTGQRGDPIFARYCASLTTLHLSKVERQSLAQNALQALLRQVGKSILVGEGSGGNATWLAADVEPDLVAAAIAIEPVGPPFGTACPKEGNPYRKYSPFIEKEEGTRIYGLADIPITYDPPAHPHEGYDPPAREPLDLVKVIAPDGRSECFMQRRLDYMEKSNGKPSNRVRQLINIKKVPCMVVTAHASSHAMYDWAVVAFMMQAGVKVDWFRLEDVKIEGNGHLMFLETNSDQIAQVVLDWIMKKATPETFLDMPSSVPMPESTDLTEMIEQSQLHNMPSVIPSRLPSPSQMLQFASTLPTDHAAIEATPLRTPQAPSFEVARSRPIETPHFPSLEDSSKRPAMSSGQTTVSMNEHHESPHPRKSSGQSHKRVKFELPAETSTPSSMSSSLPQSNQMSSEQRSQPASQASQQQGQVSVIDFGMPDISMMRPAHPGGPARLRQQENRSTRSPLAGPAFSLSSYEQASNPFTHRPCSSSDELSLGQQYSPAYRENQRNCNLNNAHTTARFERNPGTAEESIAAMALNNPSRACSGLSYPSLMTSQSYRSTTVQPQQQIPYLGHLDNSPAVTSEVEFRPLSTPTAAGQSMSMAGPDPLFTPLAPFSGQSGQEQNHFGVYPQMTPPSPSPMPRQSLLNPLSYNLDTGSPHLAQSQHKPTSR\*

>PSC37- FG4G36310

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>PSC37- FG4G36310

MDNFYHPASLGHYSAPVNIPQHRLAPSRSNLSLQATIRHTADQGPVHTSKTWTNSSGDHNILNDTDELDDRANFVQEYNRLAKKNGVRILVIDDFDFRGKGFNSPRKQGWLYRILRSSSNQNGPDTLPPTQGPRHKRSVSDLAHNLVHRRETPKMIDLQSMIRISGKSMFYLPVEHAPSALILPTCLRATAHHIAQHVTTRGIFRIPGSIRVVNMLFDYYCSTEYGQVDVTSTTVRCANLPMHVQASVHDVASTFKRLLSVIPGGILGSLSLFDAFVAIHSQLQGDPEFPRTKHTKVRARLIALAIATVESQFRRELICAVFGLLSLIGRVAEITPREDEEGRPLPTGDLMGYNALGIVFGPLLLGDLLGLYSMKLATPKAGLLVLPLRSPRSRQDRRIRKTLDELQGPPTMDKILVANSITEMLIVNWRDVVRQMKSLGMNQHHEPRTVSPRGDTQENNFIIKKPQGWDREWRDQVGDEITRETSPEPPTPTLGISKHRSRNRGSSASRKLGIRPSVGCLSPTVEESILDEEGPQDAQNYKRHSVAFGSYSQQTTPRDELQDFQNEMRYSRDSHSPSVGPGKGSKSCIAPTPTSAMKSRRGIHCNSPRLSEEDVPPRTSSKQSTPLHRASANAQDVLGVTATGDPTSIERKGAIRKKHPEKGNRRHSIAVDWPESAVRSSDISTDKPEQAIQFEFLSEKEALEAAIKAHFDELRELDSSEQNRHASLDAGGNQNLPKSNLGLKTDIQQNPLDRPDGNNEYTISWGGQKTTHNNSSANSASTTPRQFYAPMQVPSTLARENLLIKSQSPDSHLAT**W**QVPSGASGESQRNSRVQQSMEPTEQSNTPHHQTPETSARRYSSRVASMPVGTPRTESLYDESTPWFSLPKRNQRLSKRPSISPTENQRGVRALAAKFEGGKPTERSPTPQNSANKTQALISQFSQEPSTRGVRSRSVSVSARRSIPHDPKNQNVSPSRNSSAAPNAIGDAISGQDLRVSIGEEAAIKAIELQQADKERKASTSFHGQPDALTLRQTIPRRKPVPAENGIEASLKNPGSLGTMMPYPEQPPIAQHLNFVRPSSIMDAQGPDALAVPYNTATPIQRPGSTTTLHTQIRNLQRRLDLKTEEAFQLRRQLEVQEDADISTLSQQLREAKREAQMWKERAESAERRIKVFERFIARLKGIQVAGETADGKVTAGKMIAGSECLQNAEQGNTAFLENANGYESDSSGAEDARVVSARMQSCLDGLTDAPGDFSQTHTRERDISPGDAEIWMAAQNLLDNEGQVQIDGGGSAK\*

>PSC38- FG4G27470

ATGTCAAAAGAACCGCATTGGTCATCTCTACGACGCAGAAGGGCCTCAACCGATCGGCCACCTCCATCCGCACGTCCACGGAACGTTTCTCATATCCGCCATGAGTTCAACCGCAGACTCACACTCGGGGATAGGGGCGAATGGCAGAGAGAAAGGCAGGAGCCTGCCAAGAGCTTCACATTAGGGGACTTAGGGGATTGGTTCAAGAGCAAACTCCCAAATCATCGTCCAGAAAGAGGAGGAACGTTGAGAGATACAGAAGACCAGGACATGAGGGAAACAAGTGGTATCAAATCGGCCTCTCCTGCGCATAAAGACGGTAGTGGTTCATCTGCAAATTGGCCCTTGTCAGAGCAAACCCCGGTTATCAATCGCCGAACTGGTCAACAGAGCGGAACAGGAGGTTCAGATCGCCTAGTGGATTGGAACACGCCGAAGAATCTAAGTGAGTTGTTGCCGGAGCGTAGTCTTTCATCAAAAGGGAAAGCAACTACAGGCCAGAGGCCACCCACCCACCAAAGATGGAACAACTTCAGCTCTCCGAGACTACGCAACAAGCTCAACCAGAAGGCCGCCAGCGATGGAGCAGTATCGATGAAAGACAAACGAGGGCAAGTGCAGAGTGACGTTTCTGGGGCACAGCCTTTCGTCCCGGCCATGCAAATGATGCCTGGCATACTCGAGGTTCTTGAGGCTAAGAAAAAAGCGAGAAAAAAGGCACGGAACGATCGAGAAAGCTTGATAGAAAGTGGAGATTACCTGGGAGTTCAAGGTATCAACCCACAGACTGGTGTTTTAGATCTTACATCGGACAGTGGTGACAGTGCTCTGAGCATCAGGACAGAACAAAGGCTATCAGAACTCGAGACTCAGGCCAAAAATGCGACCTCGGCTGTGAAAAGAAAAGAAGCCGAAGCTCAAATTGTCAAAATTCATTTTGACCACGACATTGCGAAGTTGCGGCGTCGGGAGGAAACAGAGAAACATCATGCTAAATGGCGAAGGGATACACATAAATGGTCATCAGTACAGGAGCCCGACCTGAGTCCTATTGCGCAGTCAAACAGAAGCGTCTCAGCGCTATCAAGTCAGTAAAATTGTCCTCTCATCTCCGGTTTTTTTAAATACTAATTTTCCCCTGTTACAGGGCGCAAGTCGTGCCGCGATTACAGCATGCCTAAACACGAAGGTCTTATAGATCCAAACCTTTCTGAGGACCAGCCAAGTCAAGAGCAGCGTCCTGACATAACAATCTCGAGTAATTTGAGATCCAGAAGAAGCCCCAACTCAACTGACACGGTAGTCAAGACACCTCATCGTGGCAGTCTTGCGGCTTTATCTCCTGTAGTTTTGGACCTCTTCGAAGACGCCACGAGTTTCCATAGCGCGGACGAGCTCGGGCTGGACAAAGACCTGTTAACAGAGCATGACGTTATGCTCACGACAATTAATGCGCAGGCAGCGGATCTGACATCGGAGATGACTGATGCGCAAGAAGTGAAAGAAAGTCATATCGGCAACAACAAAGCAACTCAGGAACCTTTTTTAGACAAATTCCCAAAGGAGCAAACAAAGCCAGGACGAGCAAAAACACTTGGGACAACGGCCTGCTCCCAAACATTACCAGATCTCTCGACGATAAATCTTTCAGCAGTCAGCCGCGGCACCAACTTGACATTGGTGAAGAACGCATACGAGACATCAAGCTCCCGGGAGAGCAATCCACAAAAAAGCTCCATGCAAGATTTGACGACAAGCCACAAGAGATTCACTATTCAGTCGACAGCATCGAAGCAAATCGTGCCAGAATTCCTCGAAAGCCACTACCGACAAGCAGCAGGCCCGGCAGACCTTCACCAAACCCCAACAGGACGCGCG**TAG**AGCTCGCCTCTGAGGGAAAGCCGAGAAGCGCAATTAAAATGGGAGCAACTGAAG**ATG**GCCAGTTTAGAGTCATCTCCAACAGTCCAGCTTCTCCAAAGACGTCAAGCGTCAAGAGTTGGGAGAAAGGCCGACCCACTACCCCAGAAAGAGGCAGAGCGGTCAGTGACTCGAGATCCTCTCACCGCTCTACCATCTCCAACGAGAGACGCGACAGCGTGGCCGGGGCTTCGAAATCTACCCAAGACAGCCAAAGAAATAGAAGCCAGCGAAGACATAGTCAGACAGAATCTCACTCAGCCCAATATGTTATACCAAACGATACTCGGGATCAGAGATCACGACAATCACGAGATCTGCGCACAGAACACGAATCAAGACACCACGAATATGTACGAGGTCAAGGAGACATGTGCATCCATAAACACCATCATCACTACTGGGTGCGTCCGGACACCATCGATATTTTCCCAGAAAAGGGGATGGCAAATCCAAGAGAGTCTGCACCACAAGCGCAGAGTCAATCGGGTAGTCCGCAACCTGCAACACTTCGGGACAACGCCAAGCAGTTCGGATATCTCCCAGACAAATCGTGGGCCGAGTACATTGCCGAAACCGGGGTCTCTGGACGAGATTCCAGTGGCCAATACTGTATTGGAGAACCCTCAGGTGCCTTCGAGGCAAGACCTGCAGACACAAATGTGCAACAATACAGAGTCGCAAGCAGGAATGTCGGTAACACAGCACCGATGCAGCAGTTTGTCAACATCCACCTACACAGAAGACGGCAAGGTTGTCGAAATGGAGGAGACGGAACAGGACATTCTTCTGGAAGGCAGTGCCCAACTGGGCAGCGGATGTCTTCTGTCGGGAATGGATCACACAGGACACAGCGAACAAGCGATGAAACTTGGTGCGCAGATATCAGACAGTCTTCAAAGGCACCAAGACGCCGAAGACGACACCGCAGATCTTTCCAGCAATAAACACTGTCAGGGTCAAGAGGGAGGGTTGTGGGATGCCATCAAAGAGTTTTTGTGTACGATCATCGAGTACAGCACGTGGCTTTTGGGGTTGTACTTCGATACTGTAAGGCCCGTGTTCGATACTAGATCCTCGTATTGGAGTTGCACCAACCGAGAGGACCGCGGCTGGATGAACTTGGTGAGCGTTTGTCTCGCATTACCACTGATATTCGGGTTATCAATGGTGTTGGTGTGGGGTATGGAGTTGACGGTCATCACATTGAAGTGCATGGATGAGGATCAGGATTGCATGGCTGATGAAGTCCTGGCTATGTTTCGGCGAAGTTTGACAGGAGTCTACCCCTACGAGTAA

>PSC38- FG4G27470

MSKEPHWSSLRRRRASTDRPPPSARPRNVSHIRHEFNRRLTLGDRGEWQRERQEPAKSFTLGDLGDWFKSKLPNHRPERGGTLRDTEDQDMRETSGIKSASPAHKDGSGSSANWPLSEQTPVINRRTGQQSGTGGSDRLVDWNTPKNLSELLPERSLSSKGKATTGQRPPTHQRWNNFSSPRLRNKLNQKAASDGAVSMKDKRGQVQSDVSGAQPFVPAMQMMPGILEVLEAKKKARKKARNDRESLIESGDYLGVQGINPQTGVLDLTSDSGDSALSIRTEQRLSELETQAKNATSAVKRKEAEAQIVKIHFDHDIAKLRRREETEKHHAKWRRDTHKWSSVQEPDLSPIAQSNRSVSALSRRKSCRDYSMPKHEGLIDPNLSEDQPSQEQRPDITISIKTPHRGSLAALSPVVLDLFEDATSFHSADELGLDKDLLTEHDVMLTTINAQAADLTSEMTDAQEVKESHIGNNKATQEPFLDKFPKEQTKPGRAKTLGTTACSQTLPDLSTINLSAVSRGTNLTLVKNAYETSSSRESNPQKSSMQDLTTSHKRFTIQSTASKQIVPEFLESHYRQAAGPADLHQTPTGRA**W**SSPLRESREAQLKWEQLKMASLESSPTVQLLQRRQASRVGRKADPLPQKEAERSVTRDPLTALPSPTRDATAWPGLRNLPKTAKEIEASEDIVRQNLTQPNMLYQTILGIRDHDNHEICAQNTNQDTTNMYEVKETCASINTIITTGCVRTPSIFSQKRGWQIQESLHHKRRVNRVVRNLQHFGTTPSSSDISQTNRGPSTLPKPGSLDEIPVANTVLENPQVPSRQDLQTQMCNNTESQAGMSVTQHRCSSLSTSTYTEDGKVVEMEETEQDILLEGSAQLGSGCLLSGMDHTGHSEQAMKLGAQISDSLQRHQDAEDDTADLSSNKHCQGQEGGLWDAIKEFLCTIIEYSTWLLGLYFDTVRPVFDTRSSYWSCTNREDRGWMNLVSVCLALPLIFGLSMVLVWGMELTVITLKCMDEDQDCMADEVLAMFRRSLTGVYPYE\*

>PSC39- FG1G48860

ATGGCGCCCCCTCCTGAGCTTCCCAAGAAGATCGAGACCATCACTCCTCCTTGGTGTGAGGGTGCCGAAGCGGCCAATGCCGAAGCCCTTGGGCCAGCCCCTACCCCTTTTGCCCTCACTGTCCCTCACTCTACCCGTCGTGCCACTCATCTTTACGAGGAACTTCGCCATGTCGATGAGCTCGACAACCGTCATCTCAAGACCCGCGTCGATGCTCTCAGCGAGGAGATCCTCCACTGGCAGGAGACTGACTCCGAGACCATCCACGGTCTTTCCAAGGTCATCGTGATCAAGTACGGCGAGACTGCTATCCGAGTCATCCGCCGCGTCTGGGACCTTCACCTGGTCTACAACCGGGCTCCCAAGATCCCCGGCGATGACGCCGGTCCTTTCGACCAGAGCAGCTGGCTTGCCACCATTCGCGACACCGTGCTTTACCGCATGCACGTCAAGGTCATCCGAAGCCAACTTGACAATGCCCTCGCTGCC**TAG**GACGCCGAGGATTACAAGGTTAGGTCCCACGGCCTGCAGAACAATGATAGTATCTACGTCACCGACGTCCTCGTCCAGGAGCACTGCGACCGCGTTGAGCGCGCTGCCAAGGAGAAGGAAGTCCTCACTGCCATGTTTGAGGAGCTCACCCAGGAGAACCTCATCGAACTCCCTGGATTCAAGGCTACCGCTCTTGGAGTAGCACCCCTTTTGGCCCTGCGCCAGTGCGGCGAGACCGTCGAGGAATTCTACAAGATCTCCGATGAGAAGGAAGACATTCTCGAGAACAACGACGAAAGCGACATGCGCTACTACCAGTCTTTCCAGCTTTGGCACATTGCCGCCCGGGCCGCCATGGGCTGGGAGCCTCGCCGCGTTGGAACTGTCCAGGACGTTCTCAACATGTACTGCTACGACATTCTCCGCCGTCGCCGATTCGAGAAGCGCAAGCGCAACTCCGAGCTTCGACACCAGCTCGAGGCCATCCTTGGTGACACTCGTGGCGACCAGGTCGGATTCGGCAGCGAGGATGACGCAGAGGAGGACAACCAGGAAGAGGAGAACATCGAGGAAGAGGACTCCGATGGCCCTGGCGAGCCTACTGACACTGAATCTGGCTCTTCCGATGAGGAAGAAGAGGACAGCTCGGATGACGACCGTCCCATCTTCGGTCACTATATCGACTAA

>PSC39- FG1G48860

MAPPPELPKKIETITPPWCEGAEAANAEALGPAPTPFALTVPHSTRRATHLYEELRHVDELDNRHLKTRVDALSEEILHWQETDSETIHGLSKVIVIKYGETAIRVIRRVWDLHLVYNRAPKIPGDDAGPFDQSSWLATIRDTVLYRMHVKVIRSQLDNALAA**W**DAEDYKVRSHGLQNNDSIYVTDVLVQEHCDRVERAAKEKEVLTAMFEELTQENLIELPGFKATALGVAPLLALRQCGETVEEFYKISDEKEDILENNDESDMRYYQSFQLWHIAARAAMGWEPRRVGTVQDVLNMYCYDILRRRRFEKRKRNSELRHQLEAILGDTRGDQVGFGSEDDAEEDNQEEENIEEEDSDGPGEPTDTESGSSDEEEEDSSDDDRPIFGHYID\*

>PSC40- FG2G13660

ATGATGCAGCGCAACATTCCCGCCTCCTGGCGGGTCGTAAACCTTGACTGGTAAGTACCGCATTTTATCTAACCACTGTTACTTTCTAGAAGGATCTAACGCCAACTCCAATAGCCTCGAGCATCTCAAGGTCATGGATCGTCCCAATGAAGCTCAGGTGACCGAGACCGCATCCAGCCTGACCAAGCTCCTCCGGAACCCAGTCTGGGTTCCATACCAGGCCAATCCCGCCAAGGTCGAGAGTGCCCGCAAGAAAGGGTAAGACTATCGCACTGTATTTGTCTAATAACCACTGACTTGTTTTAAAAGAGCTCACGGTGCTTTTGCCAAGTTGCCTCAGACTGTTCTTGACAGGATCGTTGGCAAGCTTGATCTTGAAAAGGACGGTGTCACTATTTTGTGCCTTGGTATGACCAACTCCTTTTTTTTCCGTCTCCTTGGATCCAAGATGCAAAAAGTGCTCCATCTCGATGCAGGACCATGGCGAGGTCAGCGTCTTGTGTTTGCTGGTTCTTGGGCCCCGGGCATTCCGGAAGGTGCTGGTACTCCAGAAGAGGAGCAAGACTGGTTTTCTCGTCGCATCCAGACTCTACATGAACTTCACACTTACCCTGTGACCCTTGGTCGGGCTATGCCCTTAACCCCCTACTATGCTCCCGAAGTATTCATGCACCCCGGGCCTCGTTCTGACCGCGTCATTGACCTCATGAACCGTGATCGCTCAAGCACCTCTGAGGACAAAGAGGCTTACTTTCGTATGATCGAAATCTTCATGACAGAACCACGTCATCTCACCGAGATACAAAGAGAGCAAGTTCTACGAAACCTTGACACCAAGGAGTACGTCCGCGCCGATGTCCTCATGGATCTCCAGGACTGGCCTGAGCGTTACATACCATGGTGCGATCAAGAGGCTTTCGATCATGGTATCTTCCTCGAGCGACCTTGGCAAGTTGGCCATGCTCTCATGGCCTTTATTACGTACGTCGGAGACTTTAGC**TAG**AAGCCTGAAGGCAAGACGTGGGCCACCAGTCGATATGACGTTTCCCCCGCCGTAACCATCGAAGGTGATGATGGCTGGGCGGATATCACAGGACAGGCAATTTTCAAGATACATGGGTACCCGATCTACCATCCTATGTGGAGAAACTCGCTCGAAATAGAGCGTCCTTTTATTACTAGGGTCCAGCCAATTCGTTTTTTCACGCGCATGGCCGCTATGGAGCGAGCCCGTGTCCTCCGCGAGGAAGCTGCTGCCCAATACGAAGCGGATAATGCTGCGGGCCCAGCTCCTACAACTACCTCCCCAACTATCCCACCTTCTGATGATATCGACCTTGACCTCGGTCATAATGCCGACACGTCCTCTGATGGTGACTCTCAGAAGCGCTGGGAGATTGACTCCGATCTCGACCTCGACCACAACTAA

>PSC40- FG2G13660

MMQRNIPASWRVVNLDLEHLKVMDRPNEAQVTETASSLTKLLRNPVWVPYQANPAKVESARKKAHGAFAKLPQTVLDRIVGKLDLEKDGVTILCLGMTNSFFFRLLGSKMQKVLHLDAGPWRGQRLVFAGSWAPGIPEGAGTPEEEQDWFSRRIQTLHELHTYPVTLGRAMPLTPYYAPEVFMHPGPRSDRVIDLMNRDRSSTSEDKEAYFRMIEIFMTEPRHLTEIQREQVLRNLDTKEYVRADVLMDLQDWPERYIPWCDQEAFDHGIFLERPWQVGHALMAFITYVGFS**W**KPEGKTWATSRYDVSPAVTIEGDDGWADITGQAIFKIHGYPIYHPMWRNSLEIERPFITRVQPIRFFTRMAAMERARVLREEAAAQYEADNAAGPAPTTTSPTIPPSDDIDLDLGHNADTSSDGDSQKRWEIDSDLDLDHN\*

>PSC41- FG1G05860

ATGGCCGAAGAAAGACCTCGCAGGCCCATGCTGCGCAATATACTCCATTCATACAATCCGCCCAGAGGTAACATATTCCCGCCCTCTATTTACAGAGCACTGACTCTTGTACTAGACTTTATCCCGCCGAGAATGTATTCGCAAGCTGGGCCATCATCAGAGGAAGGCTTGTTAGATGGAATTTCGGAAGCTACAACAATGGAAATGCCCTCAGTGACACAGGTAGCTCCAACTGCTCAGGAAAGCTCGCACCTCCAACCGCATCAACAAGCTCCTGCCTCACAGGTAGCCTCGACAACACATGGAGCCTCAGTAGAGCAGGAACTACAAGCAGTGCAGCAACCCCGAGACATCGTTGAAATTCGCGAAACGTCCACCAAACGCGGTCGCGGCTTGTTCGCAACTCAGGACATAGCATCCGGCACTAATGTCATTCGCGATGAATTACCAGTGCTCAATGGAAATTTCCTTTCGCTTATGTCAGAG**TAG**AACTCTTTGACTCCTCGCCGGCGCAATGAGCTGAAACAAATATTTACAAGTTTACAGAATATACCGACTGAGAAGGACTTGTCAGGCAGAAATGACCCTCATACTACAGCTATCGAGGATTTCAGACGGGAATACGCCTTCCAGGATACCGCAGGAAGAAGGTGTCTTATTTACAAATTGGCAAGTCATATCAACCATGCTTGCAGCAAATGCGCCCAAGCGCGATTTTCAGTTGATCCCGGCGAGCTACATTGTATCGATGTATTGCTGCTCAAATCTGTCGAGGCAGATGAAGAGATCTTCATCCACTACGGCAAGAAGAAACTGCCCTTTGGTTGTGCAATTTGTGACGAACAACGCAGACCCCGGAAAGGATGGAGGGACAAGCTGGGCAAATTTGACCCAAGAAGATTGCTACGCCGAAACCATCAAGAGTGA

>PSC41- FG1G05860

MAEERPRRPMLRNILHSYNPPRDFIPPRMYSQAGPSSEEGLLDGISEATTMEMPSVTQVAPTAQESSHLQPHQQAPASQVASTTHGASVEQELQAVQQPRDIVEIRETSTKRGRGLFATQDIASGTNVIRDELPVLNGNFLSLMSE**W**NSLTPRRRNELKQIFTSLQNIPTEKDLSGRNDPHTTAIEDFRREYAFQDTAGRRCLIYKLASHINHACSKCAQARFSVDPGELHCIDVLLLKSVEADEEIFIHYGKKKLPFGCAICDEQRRPRKGWRDKLGKFDPRRLLRRNHQE\*

>PSC42- FG3G16310

ATGCCGTTACCTTCGAAATCCAGTGGCAGGAGCGATGAACACGCCCATTCTTTGCCGTTGAGAACCAGAAGCCCGGAGGCGCAGAGTGATCTGGAATCGCAGCATCAGTCGTCGCCATCAGACAAGTCCACTACAACAGATGACACTGATGAGAACAACGAACATTCCAAAGTCACAGAAAATACTTTGAAGAGGCCTGAGAGTATCGAAAACATCCAATCAATAAAGAAAATCAACATGGAAACTGATACCAAACCTCCAGAAAATACCAAACCCTCAGACAATACCAAGACTTCAGAGAATGCCAAGGCATCTGAAGATACCAACATGTCTGAAAATACAGAACGTCCAAAGCACGAGAACCCGGGCTTCAATGACGACGAAATGGCTTTGTTGCTCTTGGAGAGTCACGTGGAAGCTTGTGAACGCGTACGAAATAGATTTGTCAAATACTACGGGAGGGATTCA**TAG**GATGATTTCACCATGTTCACTTCCAGCATGTACCAAGTCTTATGA

>PSC42- FG3G16310

MPLPSKSSGRSDEHAHSLPLRTRSPEAQSDLESQHQSSPSDKSTTTDDTDENNEHSKVTENTLKRPESIENIQSIKKINMETDTKPPENTKPSDNTKTSENAKASEDTNMSENTERPKHENPGFNDDEMALLLLESHVEACERVRNRFVKYYGRDS**W**DDFTMFTSSMYQVL\*

>PSC43- FG3G18310+FG3G18300

ATGCCCGACAACGAAACCCAAAGCAGGAATAAGGCTGATGATTCACTCCAAAATACTCGCACAGCGCTCTTCCCGCACATGTCCGACATGTATTTCCACGGGCTCATGAAACGTGGTCTTGGTCTCCCCGATCAATACCGTTGGCCCAGCGCCATACATTGGTTGTACAAGGCTCTCAAGGACCTCGACAATCTCAAAAAGACGTCCGAGGCGGATGTCCTTCGACTGGAATGCATTCGTTTTCGATGTGCCAAATGCCGCCTCCCCTGCGAAGATCTCAGAGAAGCGAACCACATTGCCGGTCACATTCCATATGTTTTCCCTTGTGGACATGTAATCGGGAGCGCATGTTACAACGACTTAATAAAGGAATACAAAGAAGAAGAAGGCTCACCGCTGTGCCCT**TAG**CAAGGAAGGCTTCCTGAGGATGTCAAAGAAGGCATCGCAGATGAACCATGCTCTCAGCGTATCATATATCAGTGCGGTCACAATTACATGCACTTCGAG**ATG**ACTGAGGCTTTTGGGAATTACCGGTCAAATGAGGGACATTTCGGTACCACCACCGTAAAATGTCGAAGATGTACGCTGCAAGACTACCTTGATATGTGGACAATGACGGCCCGCGCCAAAACCGGATGCCACAGGCTTTGGGCAATGAGCGGCACTTTGAGAGGTTGCTGCGACGAGTCTACAGATGATATTATTTTGGCCAAAACAAGAGAACCAGATCTTGAGCGGCGACAAAAGGAACATCGCGACTTTTTAGACGCGTTGTGGACCAAAAAACCGTTGGAATATGCCAATCCAGACTGGAAGGGAAGACTCTCTTCGACTGTGACTTATTATATCCAGGTACCTGTCACAAACTCAGAGACAGAGGTAGATACAGACTCGGACTCATATTCGTGGCTCAGCTCAGAGTAA

>PSC43- FG3G18310+FG3G18300

MPDNETQSRNKADDSLQNTRTALFPHMSDMYFHGLMKRGLGLPDQYRWPSAIHWLYKALKDLDNLKKTSEADVLRLECIRFRCAKCRLPCEDLREANHIAGHIPYVFPCGHVIGSACYNDLIKEYKEEEGSPLCP**W**QGRLPEDVKEGIADEPCSQRIIYQCGHNYMHFEMTEAFGNYRSNEGHFGTTTVKCRRCTLQDYLDMWTMTARAKTGCHRLWAMSGTLRGCCDESTDDIILAKTREPDLERRQKEHRDFLDALWTKKPLEYANPDWKGRLSSTVTYYIQVPVTNSETEVDTDSDSYSWLSSE\*

>PSC44- FG1G23730

ATGGCGAACTCACCAGCCTGGACAGACGAGGACAGGCGGCTTTCAGCGATCCGAGACCCTGAATTCCCTGATTGTCATTACACCCGCGGATGTTACCTGGGCCAAGGAGGCTACGCGCGTGTTTACAAAGTTCTTGATCGCCAAACTGGAAATGTCCATGCTGGTAAAACCTCTCCCGGTGCAGTTAAGCACTTGCGCAAGGAGGCCAGAATCCTGAGAAGCCTCAATCATGTGAGCTTTTTACTACTTTCTCACACTCTTCTGTACTGGCGACTGACTACGTAACAGCCCAACATTGTCAAGTATATCGAATACTTTGAAGAGGAAGATAATCCTCCTGCCAACATTCTTGTTATCGAGCTCTGCTCCGGTGGAAGCTTGCAGGACATAAATAACAACCATTCCGAAGGCTTAACAAGAAAGAATGCTCTGCAGGTCATGCTTCAAGTTTCGCAGGCCGTTGAATACCTCCACGGACTGAACCGCTTCCACGGAGACCTCAAACCGCGAAACATCCTCATCCGTACATGGGATCCTGTGCAAGTCGTTGTCGCCGATTGTGCAGAGATCATGTCGATCAACCACATGCACCACCATAAGAGACCTCACGGAACGCACTCGTACTGGTCACCCTACATC**TAG**AGGCATCATGGGCACGCCGGAAAGAGCGACGACATCTGGGCTCTTGGCATTTCGTTGCTGGGCATGATGGGCCAGTCTCCCCATTTCTACAAAAAGGAGGAGCGGATGTATCCACGGATATGCGCCACCCACGCTCGCAACTTGGACAGGTTGAATCCTGGCCATGAAATTGTCCGAATTCTGTTGCGCCTTCTTGAGTGGGATCACAAGAACAGAATCACTGCCCCGGAGCTTGTGAAGTTGACGGTTGAGATGATGGAAGCGCGAAGCACTCAGGACGCGCCCAAGGAACAGATGGACTTGGAGGTACCCGAGGGAACTCGTACTGTTGAGTTCTGGTAG

>PSC44- FG1G23730

MANSPAWTDEDRRLSAIRDPEFPDCHYTRGCYLGQGGYARVYKVLDRQTGNVHAGKTSPGAVKHLRKEARILRSLNHPNIVKYIEYFEEEDNPPANILVIELCSGGSLQDINNNHSEGLTRKNALQVMLQVSQAVEYLHGLNRFHGDLKPRNILIRTWDPVQVVVADCAEIMSINHMHHHKRPHGTHSYWSPYI**W**RHHGHAGKSDDIWALGISLLGMMGQSPHFYKKEERMYPRICATHARNLDRLNPGHEIVRILLRLLEWDHKNRITAPELVKLTVEMMEARSTQDAPKEQMDLEVPEGTRTVEFW\*

>PSC45- FG4G24430

ATGGCTTCGAATACTTCTTCGGCCTCATGTGCGCAACCTCCCCATTCTCTCCTTGTAGAGCAGTCCTGCCAACTGAAAAATCCTGTCAAAAAAGATGGAGAGAAACCACAGAATTCCGGATGCTCCTCTCCCGGTGGTGGTAGAAAGCTCTTCACGCCTAAGACTCAACAAAGGCTGAAGGACTATCTCTACAATTCCGACTCGGTCGCTGTATCTTCATGTGACGAACACACACCCCCTACTGATCCTCCTAAGCCCATTCTCAGACGGGATGTGAAGCCAGGGCCCAAAGGCCCGGTTAAGATCATCCAAAGACAATACAAGCAAGCCAAGTCTGCTAATCCTGCTGCCATCAGAGACAACGAGTTGGTGGAGTTATCGCACAACGATCTTTCTCGAGCTATGCGAACCACTTGGGCCCGTTACCCCCCGCATACAAATGAGGAGTTCCCTGTGGACAAAGAGTTTAATTTCACTCCGAAACTCGTTGCCAACGAAATTGATCCTGCAGGTCTCCTCGAACGAAGCAAGCAGCGCAGTGAGGCCAGTTTCATAGAGCCCCTTTGTCTCCAGGGTGCTATCCGCAGCGAGTATGCTGCTCATCTTACCTATGAAAAGCAAGACCACGACGACATTATGGAGAAGGTCTTTGAAGTTCTCCGTACGAAGGCTGAGTATGACGCTGCCAACTTCTACGACTCTATCGAAATCAACAAGCGCGGCAAAGTCTACGACTCCAATAAAGTCAACAAGCCTGTCAAGTTCCCTGTACTTAGCTCCGAAGTTCAGATGAAGATCTACGACGACAAATCCAGAATGTCTGCTTTGTCACGCAAGATTGCAATCTACGATGGCAGCATTGAGGGCATGATTGCTGGCGAGTTTACTTACAATAAGGACACCGCGCACCTCCCACCTACTGAAGAACAGATGGCCATCCTACGAGAAGCTGAGGGTCTCCGTGACTTCTTCCCAAAAGCCCCTCATAAGCTTTCGCTCTACGACCAGTGGCTGAAGGACCAGTCTGCCGACCCTTGCCCTGCCTCCAACTGGCTGAAGGATGAAGAGCGACTCGCCAAAAAGAAAGCCTTTGAGTCGGCTTATTCTAAGCAGCTCAAGTCCCGCTTCCCTCTAAAGCCCCTCAATAATCAGATGCCGATCAAGCTGGAAGTATCAGACCAAGCTATCGGTGACAATACCAAATTCTCATATATGCTACCCAAAACCTCCGTGGCTCGTGAGCGTCATAGCATGCGCGAAACTCCCGTTGCGGTCCAAGTCCCCAAATGGCTCCCTGCATTTGTAGACTACGAAATTGTTCCCATCGACAAGAGCGCCAGTGCTGGGGAGCAGTACAAGGACCTTCTCACTACCATCTGGAAGCTCGAGTCACAGATGCTCAAAGAGACCAAGCCAAGCAAGTGGGACAAGAATTGGCATGATTCAAACCCTCGCTGGAACAAACCTCACCATAAGAAAAGCGGTGGC**TAG**TGGAAATACCGCTTGGATACTGGAAAGCCCATCAAGCAAGAGTTCTGCGGTGCGTATCACCGAGGCAAAGGGGAGCCGTATGATACCTTCAACGAGACAAAGGCCAACAAGAACCTCTCGGAGACAGATGCTGTATCCGAAGAGTTTAGCTTCGACGATGTCTTTACCTTCGGTCAGGATTATGAAACCGAGATCTCCAGCAAGAAAAGTCCGGAGGTTCTCCTCAAGGAGATCGCCGCGGGAGTGAGAAAGGCAATCTCAAAGGTCGGCATGTAA

>PSC45- FG4G24430

MASNTSSASCAQPPHSLLVEQSCQLKNPVKKDGEKPQNSGCSSPGGGRKLFTPKTQQRLKDYLYNSDSVAVSSCDEHTPPTDPPKPILRRDVKPGPKGPVKIIQRQYKQAKSANPAAIRDNELVELSHNDLSRAMRTTWARYPPHTNEEFPVDKEFNFTPKLVANEIDPAGLLERSKQRSEASFIEPLCLQGAIRSEYAAHLTYEKQDHDDIMEKVFEVLRTKAEYDAANFYDSIEINKRGKVYDSNKVNKPVKFPVLSSEVQMKIYDDKSRMSALSRKIAIYDGSIEGMIAGEFTYNKDTAHLPPTEEQMAILREAEGLRDFFPKAPHKLSLYDQWLKDQSADPCPASNWLKDEERLAKKKAFESAYSKQLKSRFPLKPLNNQMPIKLEVSDQAIGDNTKFSYMLPKTSVARERHSMRETPVAVQVPKWLPAFVDYEIVPIDKSASAGEQYKDLLTTIWKLESQMLKETKPSKWDKNWHDSNPRWNKPHHKKSGG**W**WKYRLDTGKPIKQEFCGAYHRGKGEPYDTFNETKANKNLSETDAVSEEFSFDDVFTFGQDYETEISSKKSPEVLLKEIAAGVRKAISKVGM\*

>PSC46- FG1G13710

ATGACGGGTAAACCAGTTTACAAACCCGAAGAGATCCGCTTCGCATTGGACCTCATGGTTCAGGACCTATTCAACGAGGAAATCTCTCAAGCTTTTCGACAACGGTTCGACCGAGAGCTGACTGACAACCAAATTCGATATCTGAGGAACAAATACGGCAAGGACCCAGACTATGGGTATGTTGTATCATGCAGTATCTTGTTGCTTGATCGTAAGTTCGTTAACTGACATGGCACTTGTAGATCCCCTCTTATCAACCGCCCAGCGAACAAGAAGGTCAAGCGAAGACGGGCCGCCATTGCAGCGGCGTCTATAACCTCGCCTACTTCGGAGTAAGTCCTTCCAGGTTCCACATAGCTGTCCGCTAGTTCCTTGATATTGACTACGGTTCTAGAGACTCACCCGGTCCTTCGAAGCGAACATGTCGAGAGCCATCCTCTTCATCAGCTGGACTTTCCGTCTCTCCCCCAGACCAACCAACAGGACTCTCGCAGATCCCACCACTCAACCTGGAGGATGATCAGTCTACATACTTCTCTCCTGCTCCCCAATTTCGAGCACCGGCCCCTCAATCTCAGCTTTCCAATATTCGATCCCCACCCGGTGATTCTTACACCATGCCCTCGACTCAAGATGTATTCTCCCCTGGACCTTCACGCAGTGGCTGGCAAACACAGCCAAATACAAACTTCACTACTGGTTTCATCCCTATCAACACCCAGTTCGGCCATTACAATGCAAACACTATGGGCCCGGGAACTTCACAAACCACCAACACGGCATTCAGCCCGAGATCTCGACAAGTTCCCCAAGCCCAACCCCTCTACAATGTTAGCTCGACACAACAGCCAGCATTCGACTCCTTTCTGAACATGAGGTTTCCAGTCACCTCCCCCCAGCAGACCGTAGGCGCTCAGAGCGGGGCC**TAG**AATGCCCCTGCTACCCAACGCTCACCGTCCTTCACGCTGGAGATGCCTGCTCCTAGCTTCTCCCAACTCTCTGATCCTTTATATAACAATCAGCAGACACAGCCCCCTGCAGAGTTCTCTGTCGATGCGAAGCAAGAGGCTGTCAAAAAGGAGGAGGAAGATTCAGCTCAGTTAAGCTGGGATGAATACGTAAGAGCAGCTCGTCCAGCGACTGACCAAGCTCCCGCCAACCAGTTGCTAACCAGAGACGTTGAAGCTTCAGATGGTCAGCTTCAACTGAACCAGAACCGACCGTCCTCTTCCGATGCCGTCAAGAACGAACAAGAAGAGACTGGCCAGAGTTCGTCGCAAGAAGCCCCTGAGATCAATCAAGACAACGATTCGGGCCTAGATCTAGCCGCGATCGACCCACGACTCTTTGCTGCCAACTACGATCAACAACCGTCTGCGAAGAGGTGTTCTTTCTAA

>PSC46- FG1G13710

MTGKPVYKPEEIRFALDLMVQDLFNEEISQAFRQRFDRELTDNQIRYLRNKYGKDPDYGSPLINRPANKKVKRRRAAIAAASITSPTSEDSPGPSKRTCREPSSSSAGLSVSPPDQPTGLSQIPPLNLEDDQSTYFSPAPQFRAPAPQSQLSNIRSPPGDSYTMPSTQDVFSPGPSRSGWQTQPNTNFTTGFIPINTQFGHYNANTMGPGTSQTTNTAFSPRSRQVPQAQPLYNVSSTQQPAFDSFLNMRFPVTSPQQTVGAQSGA**W**NAPATQRSPSFTLEMPAPSFSQLSDPLYNNQQTQPPAEFSVDAKQEAVKKEEEDSAQLSWDEYVRAARPATDQAPANQLLTRDVEASDGQLQLNQNRPSSSDAVKNEQEETGQSSSQEAPEINQDNDSGLDLAAIDPRLFAANYDQQPSAKRCSF\*

>PSC47- FG1G38420

ATGGCCACATCTGTACCTCTTCTTCAGAAGCTTCCTAACGAACTATTTCATAGTATACTCGACAGGCTTCCGAATCGGGACTTAAAGAGCCTGCACCTAACATGTCGCTGTCTCGGCAGCCAAGTATTATTACGACTTAACCGCGTTTTCATCTCGGCAAATCCGCTCAATGTCAAAGTCTTTCTCGCTGTCGCTAGTCATGAGGTGTTCCGTCAGCAAGTCAAGGAAATCATCTGGGACGACGCCACCTTTCTCCCTGTTCCAACACAAGGTGACTATGATTATCATGACACCGAGTTTGGCTACACCTCTGATGAGGATGATATCAATAAAAATCGGATGACTTATCCGCCCAAAGGGAAGATCTCGGGCTGGTTGGTGCAACAGTGTAAAGGCGAAATCTTCAGCGCAAAGTCCCGGCTGAAAGAAAAGGGCCGAGATAACGAGCAGCAAAGGCGAGTCGACAATTTAATGCCTTCACGAGAAGCGCTTTCTTGTTACAACCGTCTTGTTCAGCAGCAAGACAATGTCATCGAGTCTGGCGCCGATGAGCAAGCTTTCAGATATGCTCTGCAGGAACCGCAATTTCCACATCTAGAGAAAGTCGCTGTCACTCCTGCAGCACACGGCTTTTTGTTCTTTCCGCTCTACGAGACTCCCATAATTCGGGCATTCCCCTACGGCTTTGTGTATCCCATCCAGCGAGGGTGGTCTTGTGCCGGCCATGTATATGATGATGCGCCACAGCCTGCGGAGCCATGGGAAGATGAGGAGGAAAAAAGAAAATTGCGAGGATTTTGCATTGTCTCGCGGCACCTTGCAGACCCAACGCTCCCTCATAATATCTCTCAGCTTTCCTTCGATAACAATAGGCTTACCACCGGGATCAACCATCATATCTTCGACCAGCCTAATGAGGAGTACGATAATCTCTGCCGGACGCTTGAGCGACCAGGGCTCAAAAGCTTTACATTATCTCTAGCCATGGGATACCTATCAGGTTGTGATGCTGAAGAG**TAG**AACTTCTTCAAAAATGGGAGACTGCGCAGTCTGATTGCCGGAGCACATGCCCTTGAGGAAATAACCTTACAAAGCGACTATCCGGTGGACATGACATGCTGGGAAGCTCCAGCATTGGATTCTATCTCCCTTTTCGACATATTCCCCGTTGACCAATGGTCGAATGGTAGTCTCAAGCACTTTGGTCTCTCTGGGATGCAGGTAATCCAGGATGATCTAATATCCCTCCTTGGGAAACTGCCGCCTACACTCGAATCTATTGAACTGAGTTTTCTCTCAATAATAGAGGGAACAGGTCATTACGCTGGGATCCTTGCTGGTATCCGAGATAAATTGGGCTGGAGACATCGCCCTATCGACAAACGAATCAGAGTATGCGTTCTTGTGAGGCTTGATCAGACGGACCCCGGAAATTACACATGTCTTGACAAGGAAGTCGACGGTTATCTCTACGGTAGTGGCCCCCCGCCGTTTGGTGTTAACGAACAGGGCGGTGGGTATGCTGAGGTTGACTTTGGGAATGGCATGCAGTATGATGAGTTCGATCCAGACTTTGCTCGACCTTACAGATGA

>PSC47- FG1G38420

MATSVPLLQKLPNELFHSILDRLPNRDLKSLHLTCRCLGSQVLLRLNRVFISANPLNVKVFLAVASHEVFRQQVKEIIWDDATFLPVPTQGDYDYHDTEFGYTSDEDDINKNRMTYPPKGKISGWLVQQCKGEIFSAKSRLKEKGRDNEQQRRVDNLMPSREALSCYNRLVQQQDNVIESGADEQAFRYALQEPQFPHLEKVAVTPAAHGFLFFPLYETPIIRAFPYGFVYPIQRGWSCAGHVYDDAPQPAEPWEDEEEKRKLRGFCIVSRHLADPTLPHNISQLSFDNNRLTTGINHHIFDQPNEEYDNLCRTLERPGLKSFTLSLAMGYLSGCDAEE**W**NFFKNGRLRSLIAGAHALEEITLQSDYPVDMTCWEAPALDSISLFDIFPVDQWSNGSLKHFGLSGMQVIQDDLISLLGKLPPTLESIELSFLSIIEGTGHYAGILAGIRDKLGWRHRPIDKRIRVCVLVRLDQTDPGNYTCLDKEVDGYLYGSGPPPFGVNEQGGGYAEVDFGNGMQYDEFDPDFARPYR\*

>PSC48- FG4G20000

ATGTTTCAGCTACGGAAGCGACTGCTATACAAGTCAGAGGGTCACAATCATAGCGACAACCAAGCCAGCAGCGATGATAAGACCAAGTCCGGCGACCATCGAGATAAGTCTACAGTCAAACCACTCACTGCGACTGTCGCCAACATTTCGTCACTACGAACTCTGAGGAGTGTGGCCATGACTTCCCAGAAAGCGTCTCCCGACCATGGCCATCTCAGCACTGTGTCTGCACCCACTCGCTCTTACAAAAGGCTTGGGACTTCATCGCCTCTTTTTTCTGTCAAGAGACGACGAACTAATCTGCCTTCACATGCGCCTAGTCCAATCATGGCCTCTGTAGCGGTAGCAAGCCGTTCATCACCGCTGCCTCTCTCTACTCGTCCTACTACTCCCGCTTCGCATTCTTCGCCCAAAGATACGAAAACCCCACCAAAGATCGGGTATGCTTTGCCGAAATCTGTATTTGAGGATCTTGACGACGACCAGGTTTGTCTCTAGCCATTTCATGTCACAAAGTCTAAAAAAACCCAGGTTGAATCCCAACATTCCTCAATTCGCATGACCGACTTTACAAAAGCACATGACGAACTTACCAAGAAGCAACATTCCATTTCTAAGTTGCTAGACAATCTAGCTACCAATCTATACGACAACCTACAAGCCAGCGAAACAAAGATAAACACGCTTAGGAACAAAGAACCTTCACTGGACAAACCCGCTAAGCACGTCGCACAACTTGAAGTTGCCCATGAGGAGTGCCAAGCGGCCGTAGACGTACACAACAACGAT**TAG**CAATCATTGGTGCAACGGAAGGGGTCTTCGCGCGATCTCAGCGCACAAGCGATGATGGCCAAGGGACACAAAGTACAACATAAGTTGCGAGCGGCTCAGAGCAATCTTGAGCGCAGTAGGATAAATCTTGAGATAGCACAGGACGAATTGACACAGGCCAAGACTGCATACCACAACTGGAGAGCAGACATTTTTGCCGAGACAGAAAAGGCTACAACGATCAGGGAAAGCCTGCAGTTGGTCAAGCGGCACAAGAAGCACTATGCGTTCTTGCAAACACTGGTGAAAGGTGGCCCTTTGATGACAGAGAGACTCATTGGCGCTGCAAAAGATGCTGGGCTGAAGTTTGAGACTGGGCTTGGTGAGAAGGAAATTTGA

>PSC48- FG4G20000

MFQLRKRLLYKSEGHNHSDNQASSDDKTKSGDHRDKSTVKPLTATVANISSLRTLRSVAMTSQKASPDHGHLSTVSAPTRSYKRLGTSSPLFSVKRRRTNLPSHAPSPIMASVAVASRSSPLPLSTRPTTPASHSSPKDTKTPPKIGYALPKSVFEDLDDDQVESQHSSIRMTDFTKAHDELTKKQHSISKLLDNLATNLYDNLQASETKINTLRNKEPSLDKPAKHVAQLEVAHEECQAAVDVHNND**W**QSLVQRKGSSRDLSAQAMMAKGHKVQHKLRAAQSNLERSRINLEIAQDELTQAKTAYHNWRADIFAETEKATTIRESLQLVKRHKKHYAFLQTLVKGGPLMTERLIGAAKDAGLKFETGLGEKEI\*

>PSC49- FG2G10290

ATGGTGGTTACACATATTGACATCGAGCAGCGAGAAGAAATGGAGGAGGTGATATTTTTGACTGAAAGACCCACGGGGTTTCCAGAACGCAGAAGGTGTTTGTCGTCGTGTACACTTGATGGTGTTGACACTGTCGAAGTTCTTGACGCTGTTCAAGTTGTCGATGCTGTCGAAGTCGTTGATTACGATGAGATCATTGATCTCACGGCGGATCTCACAGGTCTACCACTTTCTCGTCAAGGCGAGCTCCATTTGGAGAAGATACAAATATTAAATACCACAGTACAGAAGGATTCATTCATTCGAGTCCGGAAGTTTCTATTCGGCAAATATCATGTCAAGTTTGTCCTGGTCAAAACGGTGATCCGATGTCTATCCACAAACACCATCAAAATCCGCGGCATTCCCTTTATCAAGGCCAGCGAAGCATACTCGAAACCACACGGCATGATGCCGAATGAAGTCTGCATGATCATTTACCAAGACGAAGCAAAGCATCAAGAATTCGTGGACATTAACCTCTCCGATATTCTCCAATTGCATCATCTTGTTACCACAAACGCCGAATTTCCCAAATTCAACCCTCATTACCCAGAAGATAGAGGCCTTCCAAATAACCGGTACACACATCTGATCTGCCGC**TAG**AAGCTGGAGGTTTGCTTTGTCGGACAGGGGAGCCGCAAGAGGCAGGTCGAAGAGGCGTTCATCCGTATACACTCGAGTGAAGCAGACACACAGTCCAAGGTGTCTGACGAAGTTCTTCGGAAGCGATGGCGAGGCAAAACGAACAAAGGAGGTTCATGGATACCCTCGAACGTGAGCAATCCTATCGATCTCGAGTCCGACGCTGAAGACAACAAGAATCGACTTGACGGACAAAGATACACCATGTTCGACTCATGCTCCGGTGCCGGAGGAGTATCCCGAGGCGCTCTTATGGCTGGATTTAAGATCCAGTATGCTATTGATAAGGCACCAGAAGTTTGGGAGACCTATGAGACCAACTTCCCTGACACTGAGCTGTTCCGGATGCCTCTTGACGAATTCATTGCGGAACCTAATGTCGGCCACAAGAGAGTGGATATCCTGCATTTCTCTCCACCATGCCAATTCTTTTCTCCAGCGCACACTCATGCATCCGTACATGACGACGACAACATTGCCGCGCTCTTTGGATGTAATGAACTGCTACAGAAGCTGCGACCGCGCGTTGTTACTGTGGAGCAGACGTTTGGTCTCACTCACGACCGCCACGGAGATTATTTCAACGGTCTCCTTCATGACTTCACGCAGTGGAACTACTCATTCCGCTGGAAAGTGGTCAAGCTCTGTACTTGGGGCGCAGCGCAAGATCGGAAGAGACTGATCATAGTTGCTGCTGCCCCTGGGGAAAGACTGCCACCGTTCCCAAAGGCGACACATGGCGACGAACCTGGGTTGTTACCATACAATACTATTGGTAAGGCTCTTAGAGGCATTCAACTTGAAGACGATCTTCATGATCCTGATAAGGTTCACCACTTCAACCCCCCACGCGCCCCATACGACCCTGAACGCCTTGCTGGAACGATCACCACTAGAGGAGGTGACCTTTACTATCCCGATGGGTCGAGAAAGTTGACTCTGCGAGAGTTTGCAAGCCTTCAAGGGTTCCCAAGGTGGCATTTGTTCTTAGGGAATATCACATCCATCAAGCGGCAGATTGGAAACGCCTTTCCACCTGTCACTGTCCGTGTGTTATACAAGCACATAGAACAGTGGCTCCTGAAAGAAGACGGCATGACTCCCTGTGATGATCGAAACATCATTGCCATCGAAGAGGATTCTGAGGACGAGTCACCCCTTTCCCCAGACATGATGGAGGTAGACATCGATGAGAGAAGTAACCACGATGACTGCGTAGCGGAGGCAATGGTGATCGAATTGACCTAA

>PSC49- FG2G10290

MVVTHIDIEQREEMEEVIFLTERPTGFPERRRCLSSCTLDGVDTVEVLDAVQVVDAVEVVDYDEIIDLTADLTGLPLSRQGELHLEKIQILNTTVQKDSFIRVRKFLFGKYHVKFVLVKTVIRCLSTNTIKIRGIPFIKASEAYSKPHGMMPNEVCMIIYQDEAKHQEFVDINLSDILQLHHLVTTNAEFPKFNPHYPEDRGLPNNRYTHLICR**W**KLEVCFVGQGSRKRQVEEAFIRIHSSEADTQSKVSDEVLRKRWRGKTNKGGSWIPSNVSNPIDLESDAEDNKNRLDGQRYTMFDSCSGAGGVSRGALMAGFKIQYAIDKAPEVWETYETNFPDTELFRMPLDEFIAEPNVGHKRVDILHFSPPCQFFSPAHTHASVHDDDNIAALFGCNELLQKLRPRVVTVEQTFGLTHDRHGDYFNGLLHDFTQWNYSFRWKVVKLCTWGAAQDRKRLIIVAAAPGERLPPFPKATHGDEPGLLPYNTIGKALRGIQLEDDLHDPDKVHHFNPPRAPYDPERLAGTITTRGGDLYYPDGSRKLTLREFASLQGFPRWHLFLGNITSIKRQIGNAFPPVTVRVLYKHIEQWLLKEDGMTPCDDRNIIAIEEDSEDESPLSPDMMEVDIDERSNHDDCVAEAMVIELT\*

>PSC50- FG1G41110

ATGGCGGCCACCTCACCGACAGAAACCGCCTTGGTGATTCTGTACTACTTGTATCCAGCTCTGGTTTTCACTTACTTTTTTTCTGCCTCCCTTGTCTCGGCTTGTACAGCATCCTCCCAAAAGGATGAACACAAGAAAAAACGCCCAAACGGGACATTGATACTCATTCTCTACCTCTTGTGCATTCTGACATACGTCGCCCAGCTTTCGCTACTTGGTATACAGGCCGCCCTTACTCGAGAATGGCCAACTGAAGATCACATCATCATTGGGCATTTGGCGTGCATTCTGGCGTTTGGGATTCAGCTCACCCGTTGTCTTGACACTGAACATGGACCTTTTTATCCTTTCATCGGCTCATTGGCGCTCGGTTTGTCCTGTGATGTTGCCATCGCGTCGTTGTCTGCAACAATAGGGTTGCTTTCCCCTTTCAGCACCTTCGGCATTCTAAACATCGTTAGCATCATCCTTCGATATTTTTCTTTTGTGTCCCTTGCAGGCCTGTTCACGCTTGGTGCATCAGTTCAGGCTGAATCGGACGAAGAACGGGAACCACTGTTACCCAAGGCCACAACCACCTCACCCAGCACTCCAACTAGTCAGGAGTCTGGGTATGGTTCAACGCTTCAGGTCGAGGAAGAAGAAGACGAGACCCCAGAATATAGCTGGGAACGTCGCGAGCGAGAGGCCAAGGAGGCTATGAAAAAGAGACTTGAGGAAGGTGGTAACTGGTTTGAGTATGCGAAAGGTTTCAAGGTACGAAATTGACGTTTGCACAGACTCCCACACTAGTTCTCCCCAACACAAGAACGCACTGCTATAGGAACATCTTGCTGACCTTTGTAAAGATTCTCTTCCCCTATGTGTGGCCTGTTGGGAACGTCGGCCTGCAGCTTCGTGCAGCAGCTGTATGCCTTTGCTTATTCGCATCCAACGCTCTCCACCTTTTGATCCCCCGCCAAACTGGAATCATCATGGACAGTTTGAATGGTTCTAGTAACAGCAACCCTTGGATCGCAGTCATCATATTTGCCGCACTTCGTTTGGCTGCCTCTGAATCCGGCATTGAGCTTATTCGCCAATGGCTATGGGTCCCTGTTAAGTACTACTCCCATGATGCACTGACACGAGCGGCCTACTCCCATATGATGCACCTCTCAGCAGATTTCCACGATTCGAAGAGTTCATCAGATATGATGATGGCTATCTACGGAGGCAGCGCGGTATCCAACGTCGTTGAGAATGTTTTACTTTATGCTGTTCCTATGCTCATCGATATGGGCGTAGCCATTGTCTACCTCTCCATCACATTTGGCCCATACGAAGGTCTTATTACAGTGGCCACCGGTATCTTCTTTCTCCTTATCGCCAGTAGACTTGTGGCCAACTCCAAGGCAGCCAGCCGAAATCGGGTCAATGCACTATACGAGGAACATTATGTGCGTCAGTCCGGCTTTCTGGGGTGGCAGACTGTCAGTGCCTTCAACCAGATTGGTTATGAAGATAACCGGCACGCCAATGCAGTTACCAATCGTTGGCTTAGAGAGCAGCAATATGTGCTGGGATGGTATATCTCTATTGGATTTCAGACTCTGGTTCTCACATCTGGTCTTCTTGCCAGTGCGTTTCTAGCTGTTTACCGTATCAAAGCCGGCCATGCAACCCCTGGACAGTTTGCGATGCTCTTGATGTATTGGGCACAGTTGACATCGCCGCTTCAATTTTTCGCAAAGCTGGGGAAAAACGTCAGCGACGACTTCATCGATGCCGAACGCCTACTAGACATCATGAGAACCCAGCCTTCAGTTGAGAACCAGAAGGGAGCCAGGCCATTGAAATTTGTTGCTGGCGAGGTGGATTTCGAAAAAGTTTCTTTCAGTTATGATAAAAAGAAGGCCATTATTAAGGATGTCAGCTTTCACGTTCCTGCTGGGCAAACTGTTGCTTTCGTTGGGGCTACAGGAGCGGGAAAGTCAACTCTTATCAAACTGCTAGATCGATTCTACGACGTGGGCGAGGGCCGTATCTGTATCGATGGTCAGGACATCAGAGACGTTGACCTGTTCAGGTAAAGAATGCTTCTATCACACCGAATTACTTCTTCTTGTTGACACTTCTTAGTCTTCGCGATCGCATTGGGGTCGTCCCTCAAAGCCCAATCCTATTCGACGATACAATCATGAACAACGTTCGATATGGAAGAATCACAGCAACCGACGAGGAAGTATACGACGCATGCAAAGCTGCGTGTATTCATGATAAGATCAAAGGCTTTACCCATGGTAAGACCACACCTGAAAGCCATCCAGAATGATATCTAACTCTCGGCAGGGTACAAGACGCGTGTTGGAGAGCGTGGCGTGTGAGTCAAGACTGGCCTGAATAGAGAACAGTACACTGACTTGATAGGAAATTATCTGGCGGCGAACTTCAACGCATTGCTATAGCTAGGGCAATGCTCAAGAAGCCAGATATCGTTCTGCTCGACGAAGCTACCAGCGCGGTAGACACAGATACCGAGCAACAGATCCAGGTCTCTTTCAAAAGATTATGTGAGGGTCGGACTACTTTCATAGTTGCGTAAGCTGTTTCCTTCCACTTCTTCTGAATCCTATACTGACACAGGTAGTCACCGCCTTTCCACGATTATGAACGCAGACCGAATTATTGTGGTTGAGAATGGCGAAATCCTTGAACAGGGCAATCACGACGAACTTATCGTTGCCGGAGGAAGATATGCGGACCTTTGGTCCAAGCAAGTTTTTGTGCGACCCAAGGATGAAGACAAGGATACCTCATCCGGTCAGGCAGGATTCGTTAACGACTTATCCTCGGAGCAGACCAAGGCTGAGCTGTCGAAGGTCAAGAAGCCGGCAGCCGCAGCCAGTGAACAAGGGAAATCGTCCAAGGCACAGGACAGTGAAGGCCAAGTCACCGGTACCCCAACGCAAAAGCGAGAGGTAGTTTCAGCCGAAGAAGAATAGTCTTTGGTGATTCTAACCTCTTATTTGCAGGGAAACCGATTGAATCCTGTCGCCGCTACGTTTACCCCCAGAACGCTGGCCAAGGCTAGGCTATTAATGGCGACTGAAACATCCGAAGCATCGACCATATCGACTGCTGACAATGAGGCGATTAACGTAAGTTCGCAAACTAGCCGACAGTGGTCTGATGAGGTTACCGAGCAGGAGGAACAGGCCAAGAAGCAGTCAGCCATTGCTAGCCGACCC**TAG**GGGAGTCGGGTTGCTCAAGACAGCGATCACGTGGCACCACAGAGTACAGCATCCAACGAAAAGAAGAAGGCTTTTATTGCAGCGGTCGATCATGCTCTGAAGAATAAACGTGCAAGTCGTGTTGATACTGGTGAAAATATGGAGTGTGAGTTCACAAGTTCGATATCAGGAGCTTTGCTGATCTTTGAAGCCCCTGCCACGGTCGCAAATGAACCTAAACCCTCCGAAAAGAAGGAAGATGCTACAGAGGGCCAACGTGTCGAATACAAGCTTCCATACTATTCCCGACGTAACCAATCCAAGAGCGAGCCGTCGCAGGGGTCACACAGTTCGGATGAACCTGACACGGACAGTGCAGTCTTGACTTCTGCAATTGAGGGTCCAGCATCCCCAGTAAGCTCGCTACCCACGTATCGATCAATGCTGGCTCATTTACCTAATGCTAATAGATGCGTCGTCGTGTTACATTGCCTCCTATGAAGGTCACTATGGGATCTCAAATTCCACTGCCCACCGAGGTCAAGCAACAGAAGCTAATGACTGCATCGAAGCCGACTGGCCACTGCAATAACCGGCAACAAGAGTCGTCTGCAAAGAACTCGGATCGACTAACACAAAATGACTTGCGAACTATCGAATCATGCGCACCAGCACGACCTAAGGTTTCTCAAAAGAAAGATGAAGTACCCGCCCAAAGCGCTATCAATGACGGCGTCAAATCCAACCACGCCGAGTTGCCAGAACAGGACAAAGACAGAATCACCTCTGGACCACGCCGGGGTGGGCGCGGAGGCCGAAGAGGGCGTACCCCTTGGTCCCGTGGCCGACATGGCCGAGGCAACTATCGGGGAGGCTCGCCAAACAGACAGGCAGCCTGA

>PSC50- FG1G41110

MAATSPTETALVILYYLYPALVFTYFFSASLVSACTASSQKDEHKKKRPNGTLILILYLLCILTYVAQLSLLGIQAALTREWPTEDHIIIGHLACILAFGIQLTRCLDTEHGPFYPFIGSLALGLSCDVAIASLSATIGLLSPFSTFGILNIVSIILRYFSFVSLAGLFTLGASVQAESDEEREPLLPKATTTSPSTPTSQESGYGSTLQVEEEEDETPEYSWERREREAKEAMKKRLEEGGNWFEYAKGFKILFPYVWPVGNVGLQLRAAAVCLCLFASNALHLLIPRQTGIIMDSLNGSSNSNPWIAVIIFAALRLAASESGIELIRQWLWVPVKYYSHDALTRAAYSHMMHLSADFHDSKSSSDMMMAIYGGSAVSNVVENVLLYAVPMLIDMGVAIVYLSITFGPYEGLITVATGIFFLLIASRLVANSKAASRNRVNALYEEHYVRQSGFLGWQTVSAFNQIGYEDNRHANAVTNRWLREQQYVLGWYISIGFQTLVLTSGLLASAFLAVYRIKAGHATPGQFAMLLMYWAQLTSPLQFFAKLGKNVSDDFIDAERLLDIMRTQPSVENQKGARPLKFVAGEVDFEKVSFSYDKKKAIIKDVSFHVPAGQTVAFVGATGAGKSTLIKLLDRFYDVGEGRICIDGQDIRDVDLFLRDRIGVVPQSPILFDDTIMNNVRYGRITATDEEVYDACKAACIHDKIKGFTHYKTRVGERGKLSGGELQRIAIARAMLKKPDIVLLDEATSAVDTDTEQQIQVSFKRLCEGRTTFIVHRLSTIMNADRIIVVENGEILEQGNHDELIVAGGRYADLWSKQVFVRPKDEDKDTSSGQAGFVNDLSSEQTKAELSKVKKPAAAASEQGKSSKAQDSEGQVTGTPTQKREGNRLNPVAATFTPRTLAKARLLMATETSEASTISTADNEAINVSSQTSRQWSDEVTEQEEQAKKQSAIASRP**W**GSRVAQDSDHVAPQSTASNEKKKAFIAAVDHALKNKRASRVDTGENMEPATVANEPKPSEKKEDATEGQRVEYKLPYYSRRNQSKSEPSQGSHSSDEPDTDSAVLTSAIEGPASPMRRRVTLPPMKVTMGSQIPLPTEVKQQKLMTASKPTGHCNNRQQESSAKNSDRLTQNDLRTIESCAPARPKVSQKKDEVPAQSAINDGVKSNHAELPEQDKDRITSGPRRGGRGGRRGRTPWSRGRHGRGNYRGGSPNRQAA\*

>PSC51- FG2G00010

ATGGCTCCGAGACAAAGCTCTCGACAGAAAAGCAAGGCCAAGGCCAAGGCTAATATAACAACCGAACAGACCACAGACTCTCCTCCGTCAGGGTTACAAGGTTTATCCAAGGGCGTCAAATCGGTAAAGCTCACTAACAACAAATCTGATCTCGACTTTCAGAATGTTCGCAAGCATCCCGACTGCCCAGCTTGGCACACCTCTTGCGACTATACTGTACATGTTGCCGACGAACCACCCGAGATGAGCAAGGACAAGAAGAAGCGTGATCGAAAGTTAGAGTGGGAGAAGTCACGATATCCCCCTGGCATCTCGCTGCCTATTGCCCTGCCAGCTTCTCTTGGTGATGCCACACTTATTGCCAAGTACAATGGATTCAAGTCTGAAGCCGACTACATTTCCTACTGCGATGGACCATGTAAGTTAGCAGAATCTGAATCCGGCCTGATTTTCTTCTTCTGAATCTCGCCGGATTCAGATTCTACTATTTCTTCCCCCTTCTCTTTTCCTTTAGACTAACAATTGCAGTAATGGAGATCATCTATGCCTTTGGCAAGGTCATGCAGTTAAAATTTACACCATCAGCTATCAACAGCGCTCGTGAGGATGAAGTTCAGGGT**TAG**TGTCCCGATGTTGAAGAACTTACGGGCCTGGAGCAGAGCCCTGAGTTCTACAATTTTATGAATGAAAGCTTTCGCGCCACTGAAGCATTCTGCTCCTCTGTTCCTCCAGGGGAAGATGAGCCAGAAAGACCTATCCCTCGGCCTATCGACTGCATTACCCTCTATGCCAACAGCAAGGAGTGCCGAGACATGGTGGAGACGATTTGTCTCTATTGTCCTCAACCTACCTTTATTCCCATCTTCAACAACACCATCAGCATCGATGAGAAGAACCACAGGGATGAGCCATGCCCTCCTGCCATGTTTTTGGCCGCAGCTGCCCAGGTCTTGATTTTTGCACCGTCGCATTGGGACCCCGAATTGAAGCTGGTGCAGACGAGCGACTACCCGCGACGTTACCCCATCAATCAAGGTTTCAGTCCAACGAAGACGATTGCTGGCAGGTTCTCGATGGAGGATTTGAACAGGGCCCTTTACCTCATCTTCACGGTGAATAACCGTCGAGGTAAGGCTAACCTTCTTAGCGGCATCCCGACCAAGCGTACTGGCAACACACGATGGATGGGGTATCACGACCCCAGCTGGAACAGTACAGAAATGGAGCTGGAAGGTACTGAGATCATCGTCGACGGGCATACAGAGGCCCAGCTCGACGCGGAAGAGATGCTCATGGACCAACAAGACGCCGAGAATAACAAGGACCAGGACGAGGACCAGGTGAACTCATCGGATCTACCAGCCGTAACCGGACTCAATTTTATCGACCTCGCCGACCGGATCACTGTTGCACTCTCATCCGCACCCAAGCCCAAGACCGGACTCGGCGAGAAGCGCCTCACCGTCAAGGCAGACGCTATGCCTATCATGTCCAACCAGAGAGCAGCACAGGTCGTCAAAGTCCTGCGACGCTCGCACGCTATGGTCGACCCCCCCATGGACGATATTCAGAAGACGCTCACCTATGTCGACAGTCTTATCGACGCAGACAAGATGGCTGAGTATGTCACAACACAAGCTGGCAACGAGAACCTTGTCGCATTCGCACGAGAGCACCCCGACAAGCTCGACGAACTCACTAAGCAGAACAACCAGAGCTTTGCTATGGAAATGTTTATGTCGTCTCTCCAACCCAACCACCACTTCGATCTCGATCAATTATGTGACGAGTTGGGCCTAAGCCGATATCCTGCTATTCGCCTTCGTCCCGCTAATGATGCTATTGAGCCCTTTAAACCCCACCAGGTCTACGGTATGTTATTGCACAATCTGAATCTGGCCTGATTCTCTTTCTTCTGAATCTCGCCTGATTCACATTATCCTATTTTCTCTTCGCCTAGAATACCGCCCGATTCACATTTTACTAACTCGATCTTAGATGCCTACAGTATTCTGCAACGAGCAGAAAGCCCAAAACGCCACACCTTCTTATCGAATGATATGGGAACAGGAAAGACACGAATCTACCTGCTTGCTATCAACCTCCACGCCCGACGTCTTGCGAAGCAGCAACAACAGGGCAACAGTGTGACATTCTCGCCCTCCCTTGTTATAACTCCGGTGAACTCGCTGCCGCAGACGTACCTCGAAGCAAAGAGTATCTTCCCTGACTTTACTCTGATTGTATTTTATGGCCAACGATCTACCTTTATTGATAAAGGTGCGAAAGTCATGGGGACTGATGATCTTATCAACTATCTCAGCAAGCTAGATCCTACGAACCCTAAGACCGGCAAGACCCTAGTTATCACTTCATATACCACTCTCTCCGCTCGGTTTATTTCTCGCAACGACCGCCTTTTTGTTTTCAACGAGGGT**TAG**GCACCTCCATCTATCAAGAAGCGACGCGACCGTGCAGAGAAGAAGGCGGCCAAGAACCAAGAGCTTGGCGATGTAGAGTCTGATGACTCTAGCGACGAAGCAGCCGAAGGTAGGCGACGGAAGAAGGTCCCTATCTACTCACTTGCGCAGGTCAACCGCAAGAACATCACCTACGTCGACGATCCAGCCAAGGCTGACGGAAACCTCGTGTGGTATACCCGCAACAAGCCGGGCATCAAGAACCTCAAGTTTACCTTTGTGGTCTGCGATGAGGCTCAGATTGCTAAGAAGCACGACGGAAGCTACAACAATCTTTTACGCAAGTTCAAGTGGGACATCATCCTCTGGACCTCTGGCACACCTCTTTCGAACTCGCTGAGAGATCTGATCTCTCCCTTGCTTTTGATGTGGCGGGCCCTCGACGTGGACTGGAAGCCCAAGATCGGCCCCATCGGGTACCTCCCAGGATTATACAACGCCCAGTACGATCCGGAAAAGGAGAACAACGAGTTCAATGGCATGATCACCAAGGGTATCTTTCACCCTTCATTCACGGCACTCGACCCAGCCGTCGGCAAACTGATGGAAGCCTGGAAGGAAGATGGCTCTCGACTTTGGTACCTGCACCCAGACCTCTACCGTGCAGCCGGCTCATCGCATTATTGGGGCTCGAACCTCTCTTCCTGGGTGGTCCGACCTATTTTCCAGGAGATGCATATTCGAAGGACCATGAGGACACCGCTGACCTTGCCTAACGGCGAGATCACCTACCCCGGCATTGACCTTTTGCCTCCCGTCATTTCCATCCAGGAATACCGATTCGGACCTAGGCTTGCCATGGTAGTCCGAGAAGAGGGCTTCTTCCTGGCCTCACGCTTATTTCAGCAACCCAATGATGATGGGACGATTCCCGACAGTGTACAAGCAGCCTCGAGCCAGTCTATCGAAGGTGCTTCCGCCGAGGCGACCTTGAACTTCGGAGTACACCGAACCGGCATTCTCCAGACATTCGACTGGCGCAACTCGGTTCTGCTCAGTCCCGAGAACGACATGATCAGGGGAAGCAAGAAGGCCATTGAGCTTAGAGTCCAGGCTATGGTTGACCCCAACCAGCCCCAGACGAAGGCTGAGCTCGAGAGGATGAAGAAGAAGGAGGCCGAGGAATCCCCGGTTGTCGTCGGCGTCGACCACGTCCAGCACCTTGTCGCAAACGACCCCAACGGTGGGTTGACGTGGCTCTACAACATGACACGAAAGGACGAAAACACCCTCGCCCCCTCCGATCGAGCTAGCATGTTGCGCTGGGTATGCGCCGAATCGCCCCTCATGATTCGTATGGTCGAACTCCTGTTTCTTCATGTCAACCAGGAGAAGAAACGTGTCCTCATTTATGTAGACACTCCATGGATCCAAACGTAAGTTGGCATAATCTGAATCGGTCCCTATTCTCAATTGAGGATCCGGCCTGATTCACATTATACTATTCTCTCTTCTTCCCCCCTACATCTCGCCCGATTTACATTCTACTATTTGATATACTAACTTTCTAACAGTGTTGTTGTCAATGTCATTACTGTCGCCGGGTTCAATGTCCTTACCACTCGACCCTCGACTAAGCAGTCCGATAAGGACCAGGCTCTCCAGGATTGGAATGATGCTTACTCTGGAGCACAGGTTTTTGTCGCAAATATCAATACGATGTCAGTCGGAGTCAATATGCATCATTGCTGCCACACTGGAATTTTTATCTCATGGCACATCAACATGAAGATCAATCTTCAGTGTTGTGGTCGGCTTATTCGTATTGGGCAGAAGCACCAGGTGACTTGGACCTTTCTGAAAATTGCCGATAGTTATCACGACAATATTGAACGACTTGCTGTCAGCAAATGGGCCCCGCAGCTCTCCGCCGAGATCGACTTGCCGGACTGGATCAGTGACGAACTTCGAGAGATTCTCATCTACGAAGTGATCAAGACCTACCTCGCTCAGCCTTTTAACCGCTATTCCTGGGTTGTCCTTCGCGACATTTTTGGCCACGAGTTCAGCCACCACGACAAGAGGGCAACCAATCTGGGACACATCTTTTCCATCATCGCCAAGATCGTTCTGCGCAACCTCGAACTCGACCAAGACTTTTGGTGTAACAACATGGCCTTCCTCACTCTCGGTTGTTGGCACATTGTCGAAGAGTCCGATATTGACTTTTCTGTTAAACTCCTCCAGCATCCGGACGACCTTGACGCAGAGTTTACACCCCTCTTCATCGAAGCTTTTAAGCATGTCGAGGGTGCAATTGACTCTGATCCCGAAACCCAGAAGAAGCACAAAAAGCTTCGACGAATGATGCAGGACAGGGCAAAGGAGAAATCCTCTGCGCTTGTGAGCGACAATGGGATTCATGACGATGGAGCCCAAGAGGATGCGAGCGATGACGATGAGTCTGGCGGCCCTGCGCGACCCAAGTCGAGGAAGAAGCGGTCAGGCGTAACCACTTCTAACAACGATGATGCGACATCTACGAACTTGGATATTGACTCTGACGAGGAGG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>PSC51- FG2G00010

MAPRQSSRQKSKAKAKANITTEQTTDSPPSGLQGLSKGVKSVKLTNNKSDLDFQNVRKHPDCPAWHTSCDYTVHVADEPPEMSKDKKKRDRKLEWEKSRYPPGISLPIALPASLGDATLIAKYNGFKSEADYISYCDGPLMEIIYAFGKVMQLKFTPSAINSAREDEVQG**W**CPDVEELTGLEQSPEFYNFMNESFRATEAFCSSVPPGEDEPERPIPRPIDCITLYANSKECRDMVETICLYCPQPTFIPIFNNTISIDEKNHRDEPCPPAMFLAAAAQVLIFAPSHWDPELKLVQTSDYPRRYPINQGFSPTKTIAGRFSMEDLNRALYLIFTVNNRRGKANLLSGIPTKRTGNTRWMGYHDPSWNSTEMELEGTEIIVDGHTEAQLDAEEMLMDQQDAENNKDQDEDQVNSSDLPAVTGLNFIDLADRITVALSSAPKPKTGLGEKRLTVKADAMPIMSNQRAAQVVKVLRRSHAMVDPPMDDIQKTLTYVDSLIDADKMAEYVTTQAGNENLVAFAREHPDKLDELTKQNNQSFAMEMFMSSLQPNHHFDLDQLCDELGLSRYPAIRLRPANDAIEPFKPHQVYDAYSILQRAESPKRHTFLSNDMGTGKTRIYLLAINLHARRLAKQQQQGNSVTFSPSLVITPVNSLPQTYLEAKSIFPDFTLIVFYGQRSTFIDKGAKVMGTDDLINYLSKLDPTNPKTGKTLVITSYTTLSARFISRNDRLFVFNEG**W**APPSIKKRRDRAEKKAAKNQELGDVESDDSSDEAAEGRRRKKVPIYSLAQVNRKNITYVDDPAKADGNLVWYTRNKPGIKNLKFTFVVCDEAQIAKKHDGSYNNLLRKFKWDIILWTSGTPLSNSLRDLISPLLLMWRALDVDWKPKIGPIGYLPGLYNAQYDPEKENNEFNGMITKGIFHPSFTALDPAVGKLMEAWKEDGSRLWYLHPDLYRAAGSSHYWGSNLSSWVVRPIFQEMHIRRTMRTPLTLPNGEITYPGIDLLPPVISIQEYRFGPRLAMVVREEGFFLASRLFQQPNDDGTIPDSVQAASSQSIEGASAEATLNFGVHRTGILQTFDWRNSVLLSPENDMIRGSKKAIELRVQAMVDPNQPQTKAELERMKKKEAEESPVVVGVDHVQHLVANDPNGGLTWLYNMTRKDENTLAPSDRASMLRWVCAESPLMIRMVELLFLHVNQEKKRVLIYVDTPWIQTVVVNVITVAGFNVLTTRPSTKQSDKDQALQDWNDAYSGAQVFVANINTMSVGVNMHHCCHTGIFISWHINMKINLQCCGRLIRIGQKHQVTWTFLKIADSYHDNIERLAVSKWAPQLSAEIDLPDWISDELREILIYEVIKTYLAQPFNRYSWVVLRDIFGHEFSHHDKRATNLGHIFSIIAKIVLRNLELDQDFWCNNMAFLTLGCWHIVEESDIDFSVKLLQHPDDLDAEFTPLFIEAFKHVEGAIDSDPETQKKHKKLRRMMQDRAKEKSSALVSDNGIHDDGAQEDASDDDESGGPARPKSRKKRSGVTTSNNDDATSTNLDIDSDEEVIEEVVEEEPQLPKVGDKRPADDDANSLTPKRNKV\*

>PSC52- FG3G04700

ATGGTGCAAACGCGAAGGGGCGGGATGCCTGATAAGCGTGCAAGACGTCAGTCGCAGACGCATCAGATTGGGCAACTCGATACTACCCCGACAAGTCGACACTTACAGTCTCCCCAAGTGGACAATAACCACGAACCGCCTCCCAGCGCTCAGCCGCAAGAGTCAGCCAATGAATATGACGACGACGTTGATGATGAAGATTTAATCAGACGTAACAAGCAAGTCTTTGAATCTGAGGGTGCCTCGACCCGCCGAAGCACCCCTATTGATTCGCATTTCGACGACTCTTCCAGCCAGAAATCGGGTTCGGGGAAGCTTCCTAGTACCCAGCCGTTACCATCTCAGCTAATTTCAGGAAATTTAACCAACAAAGTACAGCCTTTAGTTGACTTTTCAGAAACAGCAACTACCGCCCGGCGAAGTTCGCCTTATCCACTACAGACCACACTATCCCAAGCGGCTGATGATATGCCCAAGTACAACACTGTCTTTGACCTACCAAGCACCATCCCCGAATCATTAGATGTTCCCGGGGACCACTTACCGGAAGACGAGCTATATGATACCACTCCAGTACCAGAGGACCGAGAGGAACAAGCTGCCGCAGAGAAACAGACTGCAAAGCCCAAGTCAGCACGGAAATCTACCAAAAAGGGCAAGGCTACGGATTCTTCAGAAAAGGCCAAAGCCTCTATCAGAGTTCTAGAAGAAGAAGTTGGATCTGTCGAGGAAGAGCCATCCTCGTTTCCGCCCAGACCTGTTGTAGGGCGCCAAAAACCAGCGAAAAATGCCAAACAAGTGCAAGAATCTCCCAAGCCAGCCCCTGCGTCAGTCGAGGCAACGACAAGTGGAACACGGCGGAAGCAAAAACCTAAACCTCCCTTGAGATTCAATTCACAGACAAATCAAATGATAGATCCTTCGTCGCCCCAGTTCCAGCCTGCGCGCCCGTCCTTGGTAGAAGGCATGATACAAGCTTATGCTGCCTCTCTCTCGCCTGATACCAACGCAACGAAGCCTACACCCAAGCCTGCGAAGAAGGTTTCGCCCAAAACTGTTGCAAAGAGGACATCAAAGAATTCTCCGAAGACTACTTCAAAGACCTCCCCAAAGGCTATTTCGAAAACTACTCCAAAAGCCGGACAAAAAGCCCCAGCAATTTCTCAAAGAATTACACGCCAGTCAGCTTTGAGAGGTCGACTTAATCAGCAAAGCCCGGATAAAGTCGACGAAGCGAACAGCAACGGCTCTCCAGCTGCTGCTCCAGTAGAGCCGAAAGAGAAGATCTCGCCTGCAGTGAGCCAGAGAACGACAAGAACAAAGGTAAAGGAGGAGACGGCACCTGTGTTGCCACCCTCGAAAGAAAAAGAGATAGTCAACCATGGTAATACTCAAGGGTCAACCGATGACCCGATTGTACTTTCGAGTGGTCGTAACAGTTCATCACCATACGATGACGATGAGTTTGTTCCAGCTACTGACCCAACTGAAGTTTCTCCTGAAGAGGCCCGTCCAGATACCGTTGCACAAGCCAAAAGACAATCGCTTGTTGACCCTGTGGAGCCATTGAGTGTTACTCGAAACGAGAAAGAACGAATCGTTGCTGCACGACAAGAGATTCCCAAGCCTATGCAACCTTTCAGTCAGACTGGGAGACAATTCACGGCACAGAACAAGAAAATATTTGTCAGGGCTGACCCTCAGAATCAGGTCGAAGCTGATTTTGAGAGAACCAACCGAGAGAGGCCGATTAGGATTGGCCCAGGAGAGATTTTGTTAGCCCGTGATGCACATGCCCTTGCCCAACGTCATGCCTCCAAATTGAATGTTCTGAAGAGGCCACCATCTACGAGGGATCCGGTGGTTGATACCTCCAAACCGCTCCGCAAGGTTATGAAGCGATCACGAAGTTTCAGCGTCAGCCAGGCCAGGAGCCCTTTGCCGCTTGAAATAGAAGCTCAGTCGCTCGGAACAAGTTCCAGGAATAAAGACGATGCTCAACACCCAGCAGTGTCACACAGCAACAAGCAGGCGTCAGGATATAGGAGATCTCAACGCTTACGGGGCCGTGCGGAC**TAG**GTGTCCCCATATCCTCAACACAAAGTACTGCAGCAAGATTATCTGTCAGGTCTAGAAGCTGCAGAATCAATGCCTGTCAAAGCCCAAGTTGCTGAAGAGAAATTGCAGCAACAGGAAAGATCTAGTGACAAACGGTGGCGACGTGAAGCCAGTGGACACAATCAAGATCTGCACGCTCAGATCATGGCCTCTCTCCAAGGGCGAGATGAATCATCCCCTGAAGTTCATGATGAGAAACCTGACATGACCCCCGAAGAAGAGCTCGCTGAATCAACACGCCCGAAGGGTCCGAGCGATGAGGTGGAAGAGAAACTGCATGGACTTGTCAAGGTGCGATTCATGATTATTTTCATGAACGCGATACTGACATACTGCCCAGACTCTACTTGGTCATCTCCAAACCAGGGAAGCGACCATCTACGAAGGGGCAGATGCCTATCGAAAGAACGGTATCGACTCCGTGGAAAAGATTAAGCGGCGTTACTTGCATGAAAAGAAGCAACTTGGAGAAACATGGAAGAAAGATGCTGAAAGATTTGTCCGCGGCTCGCGGTCAATCAAAGCTGCCCTCGACAAGCGTGGTAAAGCGCAAGAGGAGGCTAGGCACAAATTGGAGGAGACGCTGGCAAGACGCCGTCATCTGTTTCAAAAGGCGACAACAAGTTTACGTGCTCTTCATGGACGATTGACGGAACATCGAGATGAAGTGAATGATGAATGA

>PSC52- FG3G04700

MVQTRRGGMPDKRARRQSQTHQIGQLDTTPTSRHLQSPQVDNNHEPPPSAQPQESANEYDDDVDDEDLIRRNKQVFESEGASTRRSTPIDSHFDDSSSQKSGSGKLPSTQPLPSQLISGNLTNKVQPLVDFSETATTARRSSPYPLQTTLSQAADDMPKYNTVFDLPSTIPESLDVPGDHLPEDELYDTTPVPEDREEQAAAEKQTAKPKSARKSTKKGKATDSSEKAKASIRVLEEEVGSVEEEPSSFPPRPVVGRQKPAKNAKQVQESPKPAPASVEATTSGTRRKQKPKPPLRFNSQTNQMIDPSSPQFQPARPSLVEGMIQAYAASLSPDTNATKPTPKPAKKVSPKTVAKRTSKNSPKTTSKTSPKAISKTTPKAGQKAPAISQRITRQSALRGRLNQQSPDKVDEANSNGSPAAAPVEPKEKISPAVSQRTTRTKVKEETAPVLPPSKEKEIVNHGNTQGSTDDPIVLSSGRNSSSPYDDDEFVPATDPTEVSPEEARPDTVAQAKRQSLVDPVEPLSVTRNEKERIVAARQEIPKPMQPFSQTGRQFTAQNKKIFVRADPQNQVEADFERTNRERPIRIGPGEILLARDAHALAQRHASKLNVLKRPPSTRDPVVDTSKPLRKVMKRSRSFSVSQARSPLPLEIEAQSLGTSSRNKDDAQHPAVSHSNKQASGYRRSQRLRGRAD**W**VSPYPQHKVLQQDYLSGLEAAESMPVKAQVAEEKLQQQERSSDKRWRREASGHNQDLHAQIMASLQGRDESSPEVHDEKPDMTPEEELAESTRPKGPSDEVEEKLHGLVKTLLGHLQTREATIYEGADAYRKNGIDSVEKIKRRYLHEKKQLGETWKKDAERFVRGSRSIKAALDKRGKAQEEARHKLEETLARRRHLFQKATTSLRALHGRLTEHRDEVNDE\*

>PSC53- FG4G33560

ATGGAGGCCTCCGAGGATCCTTCGACACGGGAAGCTGCTGCGTCCCAGCTGAGTTACCTGGATCAATGGGAGGCAGCTTATACCGGGGAGAACGTGGAATTACCATTACCGCAGCAAATCGTCGAGTTACGCATAATTCGACCTTATCTCGAATCTGTAGCCTCGGGGTCCGAGCTATGGGATGCAGATAGAGTTGGTCGTCTGATCAACGAATCTCTTCTAGCGGCCATGCAACCACCCTTCGTTGCTGAGGCCACGGGTAGGCTATCCAATAAACGCAAGACTATCTCGCTGACAAATTATAGAACATGCCGACGAATGTGACGCAGCAGACCAATCCGAGATCTCC**TAG**GAGGAAGAGTCTTGGGATACCACTGCTGCTACTGCCGCCAGCCCTACGTGCAGTCCCTCTGCAGAATCCGCCGCCAAAGTTGGTGGTACTTCTAACGAATCTGTGGTCAAAGGTAAAGAACTAATATCCATGCAGTTATATTAAACTAATATTTTATAGTAGAGCGTCAACTGGGCTTTGGAGATCGCATTGCAAAGATTTCACAATCCAAGTTGGCCAAGTACACCAACAACGCTTGGGAATTTCTTCAAAATGGTTCACGTGCCAAGATGACCCAGCCTGACAAGTCAGAGAACAAACTCTGTTGTCATTCTGATCACAGCGAGGAAGATCTGATCTCGTTCGAGAATGATCCTGTGGTTGGACCTGCCGATATCAAGCCCATCAACATCACTATCCCACATGACACATTCACAGATGACAAAGTTGATGTTAAGGATGAGCCTGTTGATGCCTGCCTCATCGTCGATCAATGCACTTCGCTCAAAATCGAAGATGACCATGCCGGCGTTGCATCGACCCACCTACTCGAAGAAGCTGTCAAGTGCTTCACTTGTGGGACTACTCCTTCCGCCGAGGCACTGGTCATGTGCCCTTGCCAGCATCAGTACTGCCACGGATGTCTTTGCCATATGGTAAAGTCTTCTATACGCGGTGAGATTCCATTCCCACCCATGTGTTGCGAATCTCCCGTCCCCATTGATGTGAACACATCAGTGTTTGACCAAAACACCCTGTGCGACTTCTTTTCCAGGAAGTTTGGCATCTCCTACATGAACCCGGATGCTTCTCCTAGAAAGCGAAAGGCTATCGGGGCCCCGTATCAGGACAAGGCGCCATCTCAAGTTCACGGTGTGACCGTAAGAATGTCAAGAAACGGAGTCCAAGGGTCTTGCTATCTCTGCAAGCGCGTCAATGAAAAGGATTCTTGTAAGTTGAGATACCACTACTACATCATCATTACCTAACTAAAGTCGCCCTAGTTTGCCCTGACTGCTGCTACCGTTGCAACCGAAGCCACGCATCATGCAAATGTGCCTGGTGGGAAGAGCGACAGAGAAGGATGGAAGCACAAAAGGCGATTAATGATAACACCTTCAATCCCAACGCCCCGGCGTTGTGTCCGACCGATGGCAGTGACAAATGCAGAAAGATGCCATTAAATGGCATTTTTCGTGGTCGTCGAGACTCTGCTCTTTTTGTTGGTGAACCTCCTAGTTATATGTGTGAATACTTGCTAATGGAAAACAGGAACCGACTGGGGTGGTGATTTAA

>PSC53- FG4G33560

MEASEDPSTREAAASQLSYLDQWEAAYTGENVELPLPQQIVELRIIRPYLESVASGSELWDADRVGRLINESLLAAMQPPFVAEATEHADECDAADQSEIS**W**EEESWDTTAATAASPTCSPSAESAAKVGGTSNESVVKVERQLGFGDRIAKISQSKLAKYTNNAWEFLQNGSRAKMTQPDKSENKLCCHSDHSEEDLISFENDPVVGPADIKPINITIPHDTFTDDKVDVKDEPVDACLIVDQCTSLKIEDDHAGVASTHLLEEAVKCFTCGTTPSAEALVMCPCQHQYCHGCLCHMVKSSIRGEIPFPPMCCESPVPIDVNTSVFDQNTLCDFFSRKFGISYMNPDASPRKRKAIGAPYQDKAPSQVHGVTVRMSRNGVQGSCYLCKRVNEKDSFCPDCCYRCNRSHASCKCAWWEERQRRMEAQKAINDNTFNPNAPALCPTDGSDKCRKMPLNGIFRGRRDSALFEPTGVVI\*

>PSC54- FG3G12820

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>PSC54- FG3G12820

MAENESPAREPSTRGRGRGGRGRGGRGRGGGRGGSTAAVSKAATAKVGRGGSRRGRAKNFADSRVQAAYERQRHLKANYQAVAHALKPALQELAERTIDEAFQNPDKHKHAQEFIPLMQELQDNLDAKIAEYTRRYNRDKELAEHLLKADHYVAQQEYLVVDDQYEYKVISDEHFDEEFGLYVCRLDGNLVPYPSRVPGTAMWQKGRDNEVAATAAVSAPTTSAPASQVKSTRGRGRGANKRRAQDQPEGQPTPKKNTRSNPDDAAASHSLSAPAPAKGLLASAAEVEATPEGTPAESDSTPASPEPPAFVNGIAHAAVARAQNHRLQTREKSPPLPKNMGEADEYGFRMFNQKPSMREKGISSRLFVPRPFEFEKWEIGFRDSSNDSSKGHSRAKRGKYLDTPDSNGLYIDAWCNGFDFSNTKPSDFDKETVKRFGVHPKFGIILRDAPVPEAEKTPHVMPGKPVVYIANPSGRISHASRSFLKTINHRRVEDNPYRAKVGASMRRFCKLGDIDLDELDISEYVRSEDELRSNSLGTALKELEARPVVSREPSESEEPETEEQVIKVEDVITAQPEVGFTGISVLALASAFLEAEGHKKAPEPAPAPKPARYDAIRDVFTDSKPAPAPKPDTNPSVGLDILAALSDVAGTPNEPAPVEEPLPVYEAAEIEYAMGYEPAPMSETSHMIESIGVQEQPVYRDAMTNGMGPACISSHGIQEHDPRGSISRNNELPPVTPSQAPIDPRFNSNLVEVPQGYMHQPHAQLPMQSSGSVHGHPGEALPYPPIHDPNVPQHPSVRHSEYPPPPPSQGPPVQDQGTYLSHNSYPNPDHRDAHMASGRPIDPGYPPRRLSYAPEAPSYSRQYWSQPPPPPGPTIAASAPPGPASGSVPSHYSSPAPPSARIPFSHNGSAEPLPPLRPSRGRNQSLQDEALLEPSLRSPGSYYPPGPPRSYHRGGYHGPEPHGQPQLQPITTDRILPNPQTAGQSYMTSPHQGYAHQVLSPTYANPPPMPPHMAQSPQDNHQGLPSSVHRHRSTPSGSSDAGNKYRKLQPAPVPAHRSWPNKPELKTIPYDHKETGSVAALPSSGPTQIRGWSVNQPRKRGSKEKGEPGQDREDSR**W**NGDNSSSQADGQTKPNKPFKSVRFAEPLFGDPAIVQKSNKRKRADLQTNKDHVESESPEETQAKKDEDVVIINTPVDLNKRQLRPRKPKTPQGNMTASAAEPPKKKPRVTAARKSAAVEPAKTAPKKTVIKIVRSNSSKKTIAKATGTTTKPNTASDKSSKDQESLVKEESSDDVQIIKSQRSVIVIDSTDESSK\*

>PSC55- FG3G13040

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>PSC55- FG3G13040

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>PSC56- FG1G23800

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>PSC56- FG1G23800

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>PSC57- FG1G02520

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AGCGACACGCAGGCATCAAGAGCCTCGAAAAGTCGGCAGAGTCTCTCCTGAAGCTCATGGGTGAAGAGAACCAGCCAGCCAAGAAGCTGATCAATGCGATCGCAACATCGCAATCTGCTGCCACTGGTGGTTTCAATTCTATCACCCAGTTGATGGAAGCTCTGAAGCTTTCGCATTCTGCGCCTGGTGACCAGTTGCTTCTCGGTGCACGTCTGGTAATCTTGGAGGCTCAGCAGATACAGCTGATGGACGCGTTTATGGTTTCTAAGTCAAAGGGGAAGAAACTACACGAGAACGCTCTTGATCTGCCTTGCATGGATGAATGGTTCAAGACTTGCTTGGCGATTATGAAAGATGCGATGGACGTGAAACTCAATCGGATCGTCATTGCAACCATACTCGGGCTTGCAAAGATCGCAAGAGGTGATGCGTGGACTGCAAAGCCCGAAGCAAGATCGAAATCGGCAAGAAAGGAGTCTGTGCACATTAAGGTAGCTCGTGACCTTCTTCCAATCGCTGTGGACCGTTGTTCCAAGCTAGGCGACAACGATGTTCTCAAGAAGAGAGTTGGAGACATGGTTGAGCTCTATAAGCCCCGACACGAAGAGGTCACGCCTGAAGAACTGGCATCTATCCGGTCAGCCATGGTCACCGGACCTCATGGCATGGCGACACACTCTGGTCACTGGTACAACTGCGTCAACGGTCATCCTGTAAGTTTAGTACTTGCCTGGTATATTTTTGTCTAACATTATTTTAGTTTGCGATCGGAGAATGCGGTATGCCGATGGAGACGGCAAGATGTCCCGAGTGCGGCGCAGCAATTGGTGGTTCTTCCCATCGTGCTGTTGAGGGAGTGTATCGAGCTGAGGAGATGGAGACTCCTGCTGCTGAAGTACGACGTGATGGGGGAACTGCTGGTAGACGTGTGCAGGAACAGGATGGAGGACCTGCTGGTGGTCAGGGGGGAGAAGGCTGTGTCGTTAGCTGA

>PSC57- FG1G02520

MASQGRGGGPSNSRTKPCQHFKKGNCYYGENCTFLHEKSSDIDSYVAIQTPVAKTDPRKRYMAWKGMVRKPPPSFQTTSGVKEHHKFWKRALELLDEDNPAQHQDIARDLANDDYHGLQFIVDAAENGSSDAKENLPTSYVFIQVISHANLMSSLSTEACVGTIFTVFAGMNGERGIGLFSSMCEQALESTELFSELLGTTTQAALRVIITALSQLLNKVPRTQFCDELPDLIEQMDKVISMIAEDAPPKELEEVSAHFKLLKRLVTAANDRLAASEDTSDKPKNLKAIASTFPRDLEIPGGRHDNDFADISKIAILPTYEEVTSEQVEYLPSTNFTEPHVLADPLQRYIDSMFRLVRHDILGPVKDILRDLLQSDDLLNGRLSNPDPQAQVYLESSIEAFVSSKKHGTEAVLSFEPPAQILGKTAEQQKAWWKTSSRLGQGTLVCFVSPTPGRTSLLFFQVTCKSTSSSDLKETDERTSSIAPLQGLPSITVKLANHNREDLLLLAKLYTTKAVGVLVDFNGVILDTFVPILRNLQTIKCENQIAFQQWILPSTDEERSVTTPAYARRLDFTFSLRSITKDKGTDLVLDPEFPENLDIQELERATGLDQGQCRGLVDALTREYALIQGPPGTGKSYLGVQLLRVLLAAKQKAHLGPIVIICYTNHALDQFLKHLLDVGISRIIRIGGRSVTPELAGLNLRVVSQETPKTFTERMTLATSFRQIDLSSLTASGALESLRSARNRCVWNFLKGFLQEEAPNIYEQFEKGDEDFTVVGGDPMETWLGSQTRANSEETPDTDLEVLQMMADKDIHSLAS**W**ERRALVNNWSRRHQEEQTDVLFEAMDEYEEQQKNIKRTHDATNVRTMNQADVIGLTTTALAGRIDMLRSLKPKIVICEEAGEVKESDIISALMPGLQQVIQIGDHKQLRPNINNYDLSLESMSGQKWQLDRSQFERRGEGEPGLDPSPLTQLNVQRRMRPEVSQLIRGVYPNLIDHESVLEAPDVVGMLDNVFWLDHSHPQDVGGDGTRVKSHSNRWETSMATALIRHLVRQGKYKAEDIALLTPYMGQLQQLRTALSRDFEICLGDLDREQLAHEEFEDESSSKKPVEKKKLLQTIRLATVDNFQGEEAKIIVVSLVRSNPQRQVGFLRTENRINVLLSRAKHGMYLIGNAATYSNVPMWADVYDILYKSNSVGTALRLCCPRHPETPIACSEPEDFSIKSPEGGCTLSCSRRLEPCGHKCQATCHSEAMHNAFTCTRSCPRIRTTCTHQCPKLCGESCGPCLTKVYCIDLPCGHTSMSMTCYQTQNLEAFKCTTPVERTLPHCGHSVTLECHQVGNTVLPQCKQTCTHILPCGHGCSGTCSGCQGGIHPGCVKLCGRPYSTCNHRCNQECHNGEACGSCKQPCEVQCPHSTCNSVCNKPCAPCIEPCTWSCPHQGACTLPCSAPCDRLPCNERCDKKLSCGHQCPSFCGEVCPIGYCQVCNRSKKTARVDLLEFRKYSEIDLDEAPIVVLGCGHFFTGETLDGLVGLGEVYHTDMSGNFTGMKNMSGTLAQKTPCCPDCKRSIRQFATRRYNRVINRAVMDEICKRFLIKGQAALDKLNKKLAKLETALATSRRSSSLGPHHTATTFFRERHAGIKSLEKSAESLLKLMGEENQPAKKLINAIATSQSAATGGFNSITQLMEALKLSHSAPGDQLLLGARLVILEAQQIQLMDAFMVSKSKGKKLHENALDLPCMDEWFKTCLAIMKDAMDVKLNRIVIATILGLAKIARGDAWTAKPEARSKSARKESVHIKVARDLLPIAVDRCSKLGDNDVLKKRVGDMVELYKPRHEEVTPEELASIRSAMVTGPHGMATHSGHWYNCVNGHPFAIGECGMPMETARCPECGAAIGGSSHRAVEGVYRAEEMETPAAEVRRDGGTAGRRVQEQDGGPAGGQGGEGCVVS\*

>PSC58- FG3G12540

ATGCCCAAGGCCAAGGGTCAGCGCTCTATGAGCGCCCGAAACAACCCTATCGGGAGTCGTTCTTCTCGACGTATCAGCAACTCTGTAGCTGCTGCCAAGGCTGCTGCCACCAAAAAGACCAACACACAGAACCCGGTCAAGGAAGAGCGAGTACAGGAGCCTGAAAGCGATGACCAGGAGACCCCTCAGGATCCTGAAGATCACCCTTCAGCTGCCGAAAATGCCTCCTCGAACGAATCCGTTGATAGCTCTGCTGATGAAGAGACCAACGAGGACGAAGAAGAGGAGAATGACAACGATAGTGAGAATGACCAAGACGAGGACGACGATGAGAATGAAGGTAATGTCGCGAATGAAGACAACACTGCTCTTCAAGGCCCAGCACCACCTGGTTATACCTGGCAACTTGTGCCCACCACTTACCATGGCGAAACCGCTGGAAACGTCGCCTCTCGAATGTTCGGCAAAAAACTGAACGCCAAAAGCTCACTTGCAAAGAGATTGTTTGACGAGCTGGCAGTACGTCCAGCAAGCCAGAGAAACCGCAATACAAAACTCAATGTGTCGCGGCGTAGCAATGCCGAAGCTCTTCTGTGCCACCTTACCGGTGTTCGGGTTCAGACCGCTTGCAAGAACTGCTCGAGAAGCCACGGTCCCTGGCACGAATGTGTTATCTATGACGGTCAAATGTGCGGCAGTTGCACTAACTGCTGGTACAACGCGAGCGGATCCCGTTGTACTTTTCATGGTAAGTTTATTTAGACAGTCAAGTGCCGGCAATAAAAACAACGCTAATCAACATGATAGACGACAATCAGGCTTGCCTATTTCTCCCTGCGCCGTTCCCTGCCCTGCAGATGCAGATGCAGTCCATGCGTATTCCTACTATGCGTATGCCTGCCATACTCCCTGGAACAAACAATGTTCCCGGCCAACAGTATTTGGAATACGCCAACGGCCAGACAGCTACCCAGAAGGAGACTCCCCTCGAGCGCCTGCAAAGAATCGGTGTCAACGCTGGTAAC**TAG**AACCTGCCCAGCTCAACCGCTGACCTGATCAACGAGGCCATCCAGACTGGCATTTCTGGAACCCCTCTGGATAGACTCATTTCGCGAGTGGAGAGTGCTGCTATTGAGCTTGGCAGTCGCGTGGGTGAATTTCAGGAGTTCATCCAAACCCCCGCGGGTTACCTCATGATGGCCCAACGCGCGGCTCAGGATGCTACCCCTTCTTCCTCAACTGTCGAAGAGCTCGGTTCTGATGAAGAGCTCGGTTCCGATGAAGAGAACGGTTCTGATGAAGAGAACGGTTCCGATGAAGAGAACTAA

>PSC58- FG3G12540

MPKAKGQRSMSARNNPIGSRSSRRISNSVAAAKAAATKKTNTQNPVKEERVQEPESDDQETPQDPEDHPSAAENASSNESVDSSADEETNEDEEEENDNDSENDQDEDDDENEGNVANEDNTALQGPAPPGYTWQLVPTTYHGETAGNVASRMFGKKLNAKSSLAKRLFDELAVRPASQRNRNTKLNVSRRSNAEALLCHLTGVRVQTACKNCSRSHGPWHECVIYDGQMCGSCTNCWYNASGSRCTFHDDNQACLFLPAPFPALQMQMQSMRIPTMRMPAILPGTNNVPGQQYLEYANGQTATQKETPLERLQRIGVNAGN**W**NLPSSTADLINEAIQTGISGTPLDRLISRVESAAIELGSRVGEFQEFIQTPAGYLMMAQRAAQDATPSSSTVEELGSDEELGSDEENGSDEENGSDEEN\*

>PSC59- FG2G37210

ATGACACAGTCACAGAAGAAGACACACACAAGGATAGCCCCATTCACTCAACAGAGTTGGCTAGTTACGCATAACGCTAAAAAGATGGGAGGGAGCTTCTCTTCCCCTAAGAGCCATGATGATGGTGCTCCTCCGCCACAGAAGCGTCCGCGCTTGGAAACTTCTTCCAAACCGCTTGATGACGCTTCACCCTCAGAGTCAGAAAATCGCTCGCACCTCCGTGTTGAGATTCACAAGATTTTTCATAAAGACTCAAAGAAAGCTCGACCTCTTCAGGAAACTCCTCCAACTGACGCCATCATCAAAACAAAGGGCAAATGTCAGATCACCGTTTCCGATGTGAGTGGCGGCTTTACCAATATTCTCTATCGCTTCAGCCAGAGCTGCGACGTACTCTCCTACGAAAACCCCACCGGTCCTCACCGGATTATTTTCATCAAGCCGCCAAAGCCGTTTCTTGTTCCCGAAGAAACCATTTTAGTAAATAGGCAAGATGAGGCATCTCACGATTACTCGCCCTCTTACAAACTCGATGTTGAGCTGAGTTCACTCAATGGTGGCAGTTGGCCGCCACTGAACGGTCAGGAACTTGGACTTTCCGCAACTCAGCCCTCACCACTGACTGATGCTGGGAAGCAAACATGGGTGCTGCACAGCGAATTTGATCAGGTCTTCGCTAGACGCAAGAATCCCGTTAGGCTCACAACCGGGTTTCACCCACAACGACCAGAGTGCCCTACCGATTATGTCATGGACGTAGATCTGCGCTGGACCACTGGTTTTCGGCCCATCGACAAAACCGCCAAAAATTGCATCACTGCCCTAGATCCGGACGTGGAGGATATTTACACCAATGGACACCTGGAGCCCATTCTCGATGAACAACTAAACGGCATCAGCCCTGTTGATACCGAGGACGATGCCAACGTTCTCAGTGATACGAGTGCGGTGAACGGAACCAACGGAATTAACGGTATCAAAGACGTGGACAATGCTCATGATCATGATATGAATGGTGTGGACGGCATCAAAGATGCTGTGCCCGAGCCTGAGGGTCTAAATGGCACTCATGACACGAACGGCGTGAACGGCGTGAACGGGGATGAGCATATTAGTGAGGAAGACATGTCGCATGATCTTTCACATGACATGGACGAGGAATTGGAAGGCGATCAGACACCGAACCGCCCACTTCGGAAAAGGGCCAACAATAAGCAGTACAATCTCAAGGTGTTGACTGACCAGGCGCATGGCAAAGAATCCAAACCTCGGTCGAAACCTGGTCAGATTACGCAAGTTGAGGGTCGCGTTACGTATTTGCCACCTGTCAACCCACCAGTACATTTGGACTCATGGCGATGTCTAAACTGTGGTTGTTCGAACGAGTGTTTGGATGTGCTGCGCGCTCACCTGAAGGATTACCACCCCAACTACGACTACGCGCTAGAAGACGCAAGTGAAGGGCCACTATTCCGCGTTACTCGTATTTCTGGTCCTGTTGATTCACCCGCCAAGACGTTGCAGCTTGGCAGACCGACAAAGTCATTCAACCTAGAAGACTACAATCGGGGTGACGAGTCGTGGATAACTTCGCGCTTTGGTCCGGATCACAGCGAGCCAGATGTGTTATCACCATCAAAGCTGCCAACTACAAAACAAGCGCTTGGCAAATCTGCTATCAAGCCTTTGCAGTCTTCATCAACGGCACGACCAGCGGCCCCGCGGCCAAAGAAGAAGAAAATTCTCATCCCAGACTCATGTCAGCCTCTGTTCGACCCTATCAGCAAAGCCCGCCTCAAACCTGGGGAGGAACTGCCGAAACCTGCTGTAGATAGTTCCTGGTTAATTCAGAAGCATCGCGAAGATATAGGGGAATTCTCGGATGTCTCAGCAGAGGAGAAGGAGTATATTTGCAGGTGGGATGCTTTTATCCTAGAGCAAAACGTCACTTCTGGAGCATACTTTAGACGGGCTTGGCTCCAGTTCGTCAAAGATAACGCAGTATGGCTAGCTAGTTCGGACCATCGGATGAGGGAGTTTGGCAAGCATATGTGTGTTTTAATGGCTCGTGATGTTCTAAACGACCAGGGCATTGACAATGCCGAGACACTGATCGAGGAGGCAAGAGCTCAGTTGAAGTCCGGTGGTCTCGATGAGCAGACGAACGATACCAAGACGGCCGACAACGCATTGAAGCAATCACCTCGCGCTTCACAAATCACGAAAGGCGCGAATGGGTGTACGATATGTAAACTCCCCGTTCTTGGCCCCTCTCTCCTGATATGTTCAAACAAGGTAACACGTACGCTATCATAAGGCGAAGGCTTTGCTAACTTGTTTCTTAGAAATGTCTAAACCGACTTTACCATGCTATGTGCATAGAGAAGTCAGCTACAACTCCAGTGACTCGTCCCAAGTGGCTTTGCAACGAATGCAGCAGGTCTGAAGGATCCTCT**TAG**AGCGGGGTGTCCTTACCCTTGCCGGGTCGGAGTTCTCGAGCAGTTGCTCCTAAACCCTCAAATATGCGTCCCATACGAAGCAATACTGGCTTGCAAAGTGCAGAATCCTCCGATCTAATGACTACGCAACGGAGGTTGAGGAGGAAAACTGCAAAAACAAGCAGTACGGAATCTCTTAG

>PSC59- FG2G37210

MTQSQKKTHTRIAPFTQQSWLVTHNAKKMGGSFSSPKSHDDGAPPPQKRPRLETSSKPLDDASPSESENRSHLRVEIHKIFHKDSKKARPLQETPPTDAIIKTKGKCQITVSDVSGGFTNILYRFSQSCDVLSYENPTGPHRIIFIKPPKPFLVPEETILVNRQDEASHDYSPSYKLDVELSSLNGGSWPPLNGQELGLSATQPSPLTDAGKQTWVLHSEFDQVFARRKNPVRLTTGFHPQRPECPTDYVMDVDLRWTTGFRPIDKTAKNCITALDPDVEDIYTNGHLEPILDEQLNGISPVDTEDDANVLSDTSAVNGTNGINGIKDVDNAHDHDMNGVDGIKDAVPEPEGLNGTHDTNGVNGVNGDEHISEEDMSHDLSHDMDEELEGDQTPNRPLRKRANNKQYNLKVLTDQAHGKESKPRSKPGQITQVEGRVTYLPPVNPPVHLDSWRCLNCGCSNECLDVLRAHLKDYHPNYDYALEDASEGPLFRVTRISGPVDSPAKTLQLGRPTKSFNLEDYNRGDESWITSRFGPDHSEPDVLSPSKLPTTKQALGKSAIKPLQSSSTARPAAPRPKKKKILIPDSCQPLFDPISKARLKPGEELPKPAVDSSWLIQKHREDIGEFSDVSAEEKEYICRWDAFILEQNVTSGAYFRRAWLQFVKDNAVWLASSDHRMREFGKHMCVLMARDVLNDQGIDNAETLIEEARAQLKSGGLDEQTNDTKTADNALKQSPRASQITKGANGCTICKLPVLGPSLLICSNKKCLNRLYHAMCIEKSATTPVTRPKWLCNECSRSEGSS**W**SGVSLPLPGRSSRAVAPKPSNMRPIRSNTGLQSAESSDLMTTQRRLRRKTAKTSSTESLRKRDASESLVKSRGVKLDRRRL\*

>PSC60- FG1G50060

ATGGAGTCGTTTTCTCAACACAATGGATATCTGTCAATGAACAAGGAATCGATCCAAGGATTAGTCGCATTAGCCGGGGGTGAGAAGCCAGACATAGTCACTATCAGAATTGCTGTCGTCCGCGTAGACGAAGACAGATTCAACAACAAAGCCCTCCTTTTCCAAGAGCGGAGCGATTACCCCCACGTCCGCGAAATACTACAATGCGATCTCGACGACTCGAACACGCTCGTACGCGATGTCATCAGACGAAAAATCACCAACGATTTGGGCCTTGACGCTTGGAAGGTCGTGGGCACCACAGAACCTGAGTTC**TAG**GCACACTGCGAGGGTGGGCGAATCTTGGAAAATCATGCGGTGCTGGGCTATGTGATCCAGGTTTGGCCCAGTGACAAAGGATACACGCACAAACCCCCGTATAGAGGCATTGCCTGGATCAACGAGGTTCGAGAGCCGCGCGAAGCGTTCAGACAAGAAATGATCGAGTTGTTCAGACACGACATGCGCGGGTTTGTGTCAAAGGTCTATGCACTTTCATGGTGGCAGGGACAGAAAATGAACCAGATTCTACTATGA

>PSC60- FG1G50060

MESFSQHNGYLSMNKESIQGLVALAGGEKPDIVTIRIAVVRVDEDRFNNKALLFQERSDYPHVREILQCDLDDSNTLVRDVIRRKITNDLGLDAWKVVGTTEPEF**W**AHCEGGRILENHAVLGYVIQVWPSDKGYTHKPPYRGIAWINEVREPREAFRQEMIELFRHDMRGFVSKVYALSWWQGQKMNQILL\*

>PSC61- FG3G22830

ATGGCACTCCCCGCCGCACCGCCTCCCAAGAGCCCTCTGGGTCGATATCGCTTGCTGTCACCTACCGCTTCCATTTGGGTCTCTCCTATTTGTCTTGGTACCATGAACTTTGGAAATGCTTGGTAAGTAGGAGTCTATAGACTATCCCTACTCTCACTCATCAAGATATAGGAAAGAATTGATGAGCGAATGCAACCAGTCTACAGCCGAGTCAATCATGGATTTTTACTACGAACAAGTATGAATCACACATTACCCAATATGCACAGATGATCTCACTAAATTTGAACAAGGGCGGTAACTTTATTGACTCTGCCAACAACTACCAATTCCAAGAGACCGAGAAATGGGTAGGGGAGTGGATGTCGAAGCGCGGAAACCGGGATGAGATCGGTTTGTTTCTTTATCTGCCACTTCATTGATACGACACTAACTCTTCTCCCCAGTGCTTGCTACCAAATATACGACAAACTTTCGGGCTGGCCCTGGTAGCCCTAACATCATGGTGAACTTCTGTGGCAATGGCGCCAAAAGTCTCAGAACTTCGGTCGAGTCCAGTCTTAAGAACCTACAGACTGACTACATTGATCTGGCATGCTTATTAATCTCATAAATGACCACTTGCTAACCTTGTAATAGCTGTATGTTCACTGGTACGATGGGAACACTACCATTCCGGAGTTGATGCAGTCTCTTAATCAGCTCGTCCTGTCTGGTAAAGTTCTTCACTTAGGCATCAGTGATACCCCTGCTTGGATTGTGAGGTAAGATAGCATATCGGACCAAGACTGAACAAGTGACTAAAAGTCCTGTAGTAAAGCAAACGAGTACGCTCGTTGCAACGGACTTCGCCAGTTCTCCGTCTACCAAGGCCGCTGGTCTGCAGCCTCACGCGATTTTGAGCGAGAAATCATTCCTATGTGCCGAGCTGAAGGTATGGGAATTGCCCCTTGGGGCTCCCTAGGAGGCGGAAAGTTCAAGAGCGAAGAACAGCGAAATGCTCAGGACGGACGAAAGGTGGTGGCCAGTGAACAAGAGATCAGAACCAGCCGTGTGCTGGAGTCTATCTCTAACCGTAAGACCACACTCATCACCAGTGTCGCACTAGCATATGTCATGCACAAGACATCATATGTCTTTCCGATTATCGGTGGTCGGAAGATCGAGCATCTCAAAGCCAATATTCAGGCACTCACCCTTAAGCTCACTCAAGAGGACATCCAAGAGATCGACAGTGCTGTGAAGTTTGATCCGGGATTTCCCCACGACTTCCTTTACCGTAAAGGCCAGACGATTGGGGGTCCAGACGTTTGGCTGCTGCAGATGGGCGGCACAGTCGATCATATCCAGCCGTCCAAGGTAAGCTATTTCATAACAAGGTCCGTATCTGTTTGCTAATCGTTCCAAGCCTATTTCTCCTGTGAAGCGGGGTGAA**TAG**GGAGCCCGTCTCAATGCGAATTTTTGGCGATGGCTACCAGGTCGGCCCAGACCGCAAATCCATGCTGAGTGGCAGGAGTTGGATTGGAAGGAAAGAATTGGGGCTATGGTGAGGCCTTCATATCATTTTTAA

>PSC61- FG3G22830

MALPAAPPPKSPLGRYRLLSPTASIWVSPICLGTMNFGNAWKELMSECNQSTAESIMDFYYEQGGNFIDSANNYQFQETEKWVGEWMSKRGNRDEIVLATKYTTNFRAGPGSPNIMVNFCGNGAKSLRTSVESSLKNLQTDYIDLMYVHWYDGNTTIPELMQSLNQLVLSGKVLHLGISDTPAWIVSKANEYARCNGLRQFSVYQGRWSAASRDFEREIIPMCRAEGMGIAPWGSLGGGKFKSEEQRNAQDGRKVVASEQEIRTSRVLESISNRKTTLITSVALAYVMHKTSYVFPIIGGRKIEHLKANIQALTLKLTQEDIQEIDSAVKFDPGFPHDFLYRKGQTIGGPDVWLLQMGGTVDHIQPSKPISPVKRGE**W**GARLNANFWRWLPGRPRPQIHAEWQELDWKERIGAMVRPSYHF\*

>PSC62- FG1G51430

ATGTCCAACATGTCCAACGACGAACCGCAAGACCACGACATGCTCGACAACGACGTCGAAAGCCCCATAGTGGACTCTGATCATGTCATTGAACTACTCAACCATGTCGACCCAAACGCCGAGGTTATGATGGAAGATGCCGAAATGGGCGCAATACCACAGGTACAGACTTTTGAAGGCATCACCATAGAC**TAG**GGTGCATGGAACAATCATTTCGCGCCGAACATGACTGCATGGCAGGCCACAGTAGACGATGCCGATGATGAGGGTTCAGAAACCTCGCGACCAGTGAGTACCAGCCTTTGTGCAACAGAAACAAAGTGCTAATATGGTCAGCCGTCACCCACAGAGAGAGAGGGCGATATTCCCACATTGAAAGAGCTGGCGCGGTCCCATGAAGAGGAC**TAG**TTGCCTCAACAAGGGGAGGAAAGCAGGGTAAACATTGTTGAGAACTTGAGGGCTGTGACGGAAAAGAAAAGAGATATTGGGATCGTGTGGTATGTCTTTACATCATCTGTGTTGCACCAGTTACTGATGACCATTCCTGCAGGGACTACGAAGTCGAGTACAGCTTTTTCTAA

>PSC62- FG1G51430

MSNMSNDEPQDHDMLDNDVESPIVDSDHVIELLNHVDPNAEVMMEDAEMGAIPQVQTFEGITID**W**GAWNNHFAPNMTAWQATVDDADDEGSETSRPPSPTEREGDIPTLKELARSHEED**W**LPQQGEESRVNIVENLRAVTEKKRDIGIVDYEVEYSFF\*

>PSC63- FG4G35950

ATGGTTATCCACGATTGCTTTAACTTAGACATCGTGGAGAATGATACCTCTCGAGACGGTAAGTTATGGTTCGGGCCAGAAGAACGCCCGCCTACTGGAGATTTAACATTTTCAGACGATGTCGACATGGATCGCGATCTCGAACAGGAACTCCCCAATAATGACGATGACATGGAAGCCGAGTCCGAAGCCGAGCGCAAACGTGCCATCAGAGAAGGAAAGAAATCAGTCCGCCCGAACCAGGCATTTGGGTTGTTTCCTGTTTACAACCCTGATGAACTACGAATAATACAACAAGGGTTCAGTGAGTCCCCGGAGGGCCTGATGACAACCGATGAACTAGAGGAATACTTCATCCCGGGGCGAAACCGCACGATCGCTAGGCCCCCTCCTCGTCCTGAGTCACTCCTGGACAGCATCACAGTAAAACCCAACCCTCCTCCTGGCAAGAAACGTGTAGGACGACCACGCAACGATGATAGGACTGCTAAGAAACCCAAGAACCGACGTGGTGGCAGTCGCCCACCGCCAGTCAATAGCAACGCTCACCAAACGTATAATACGTATTTGCATCCCGGCCCCCGGGCCTGTCAGCGGTTCGGGCAACAACATTACGAAAGGCAGGAGGATGCCCCTACTGAAGTCCGAGCTAACGGTACACCACATTACCTTTCAATCATGGCAAATCGTGTGACTCTGGACCACGGTCGCAAGGACATTTTTGACGGTATCGATCCAATTGTGGCTCGCCAAACCCGTGAATTCTTTGCGCGTACAAGTATCGAACCACCTAAGAACAACAAGGCCCTGTATATTCTGCATCATTTTATGATGAAGCGCGAAGAGGAAAATAACCCATTCTTCAAGGAGTTAAAAACCAAGAAACGCATAAAGATACTGAAGAAGGATCCTCTCACTGATGAAGAAAAGGCTCAACTCAAAAAGCTGTTGTTTCGACCGGACGTCGAATGGGAA**TAG**GATTTCATCGACAATACAGACACAGAAACAGGCAGAAAAAGCCTGACACGGGAAGAATGGGGAGTGGACAACCATGTAGAGGCGTGGGACGACCTCTCATGGGGTGTCAAATGGGTCATTCTATGGATCCTCAACAGAACTAATCGTTTCGCAAAGATTGTTTCTTTGATCTTGCACCTGCGACATCGTCAGGCTCGAGAGTTCACAGAACAATACACTCGGCAGTATTTCATGTGGGAGATTTGGAAAGAGAATGTCGAACGCATTCCACATGCTGCCCTTCTGGAGCATGCGCTAGAGAAGAGACAGACTGTTGCCGAGCTTCTGCAACAGTATCGCCCTCCTCTCTACACTGAACAGATAAGTCGACAGGATGAAGAAAAGGGGATGTTTTTCTTAATTAACCTGAACAACACTGCTGTGACTGAAGAATTTAAAGCATTTATGCATGAAAAACAGCCAGGCTTCTTGCGCTTGGACATTGAGTGGGATTTCATCCAAGAGACTATTGACAACCAACAGATCCTGGCTTCGGTTGGAATAGGTTGGCTGAACCCTAGTGAAGTTGCCAAAGTCATGATGAGATCTCTGCCAAAAAAGGTTTCAGAACAAAACGCGGGGATGAGAGACCCTCTTTCAACCATAACCCTTTCTGGGGCTACATTCGAAGATGAAGGACACGATTCGGATATGTCCCAGAACGAGGTCGAACCGACCGATGATAGCCAAGCATTGGAAATGGGCAAAAGACTTGTCGAACTGGAAGCACACGATGAAGAGGTGGGCTTGGAAGATCTTCCCCTTCCAGAAGCTCCTTTATTGCCCCTTATACCAGGACCGCATGGCCCGCAGGCAACGCCGGATCAACAACAAATGCTGAGATTTGCCTTGCAAAGAACAGCACCCGAGAGCTACAGTATTGTGCATGGCTTTTATGCATCCAGGCTTGTATCAACCCTTGAAGAAGAAGAAAGAGCGCCTTTCCCAGCACAGTCTGCATTTCGTCCCAGGGGCTTTCCCTTTTATGCTAGACATATTGCAGGGATTGTAGGCCACAGCGACGAAGACCCCGTTGGCGAGGTTTTGGGGGGTAGCGAGAGTCAATGTATGGGCTCGACTGATCAACAATTGGCAAGGCATGGTACTCTGAGCGCGAGAGTAAGAAGCTCTCCTCAGATCGCTAAGAGAGGGTCTTTCAACCTTGGTCAACAAACAGGCAGTAGCTCAGCTATGCAGAACAGTCGAAACGAGTCTGGATATTACAGCAAGTGGCAAGTGAATAACTTGGTCAACCCCCCTAATGTCGAGCATAACACTTTCGGCCCTTCGACTAGATCAATTCCACACCAATTACAGGAGCCAGAAGCAGCAACAACACCTTCAAAGCAACTCAGACAGATGCTTGAGAAGTATCAAGGCTTTCTTACGAAGAGCAACAAGGAAGAAAAAGGGGCCTCCACCGATGATGATAGTGATGACGGAACTGTGATGGAGCTTGGTGACGTTGCCCCCCCAGAACCCGAAAATGATGAAGATTACTGTCCGAAAAAGAAATCAGCGAGAAAGCCGCCGAAGAAGAAGACTACTGCCGTCAGGAAGTCTGGCCGACCAGTTGGCCGACCCAGGAAGGCGACTCTCAAGAAGAATAACACTGCGACCCCGAAGAACGTTGGAGATACTGAAGCTGGAGAGAGCAGCACCCTGGACTCTTTCGACGTCCAGAAAACACCAACAAAGAAACAAACGGGGGATATTCCACTCGATAGCGGACCTCCCTCGTCTGGCCGCATCAAACTCATCGTCAGGCCATCTCAGACGTCTACCTCGAACGAGCCCAACAATCCAAAACCTGAGGTTACCATGCCCAGGATAGATACCCCTACCCCTTCGCGCGCTCGTGTCTCGAAAGCAAAATATGCGATTTCTGCCCAATATGCAACGTACGCTTCGATGTCGACAAGTGCGCGCTTCGCCCAAACAGCTGTTGACAGCGCTAAAGGGATTGCTGATACCGCAACACTTGATGCCCCCAGCAATATCATCGATCCAAACAAGCTTATTTTGGGATTTTCGAACATAAAGAAAGATGGCAAACAGCATGTTGATAGAGCTGAGTTTGCTTGGAGGGCGGAGAGAGCAGAGTTCGCAGGGACGGCATTTGAGGCGGATGATGCGTTGCAAATACTGGCGAGAGGAGAACACGGTGACGCAAAGGGTACTGATTGA

>PSC63- FG4G35950

MVIHDCFNLDIVENDTSRDDDVDMDRDLEQELPNNDDDMEAESEAERKRAIREGKKSVRPNQAFGLFPVYNPDELRIIQQGFSESPEGLMTTDELEEYFIPGRNRTIARPPPRPESLLDSITVKPNPPPGKKRVGRPRNDDRTAKKPKNRRGGSRPPPVNSNAHQTYNTYLHPGPRACQRFGQQHYERQEDAPTEVRANGTPHYLSIMANRVTLDHGRKDIFDGIDPIVARQTREFFARTSIEPPKNNKALYILHHFMMKREEENNPFFKELKTKKRIKILKKDPLTDEEKAQLKKLLFRPDVEWE**W**DFIDNTDTETGRKSLTREEWGVDNHVEAWDDLSWGVKWVILWILNRTNRFAKIVSLILHLRHRQAREFTEQYTRQYFMWEIWKENVERIPHAALLEHALEKRQTVAELLQQYRPPLYTEQISRQDEEKGMFFLINLNNTAVTEEFKAFMHEKQPGFLRLDIEWDFIQETIDNQQILASVGIGWLNPSEVAKVMMRSLPKKVSEQNAGMRDPLSTITLSGATFEDEGHDSDMSQNEVEPTDDSQALEMGKRLVELEAHDEEVGLEDLPLPEAPLLPLIPGPHGPQATPDQQQMLRFALQRTAPESYSIVHGFYASRLVSTLEEEERAPFPAQSAFRPRGFPFYARHIAGIVGHSDEDPVGEVLGGSESQCMGSTDQQLARHGTLSARVRSSPQIAKRGSFNLGQQTGSSSAMQNSRNESGYYSKWQVNNLVNPPNVEHNTFGPSTRSIPHQLQEPEAATTPSKQLRQMLEKYQGFLTKSNKEEKGASTDDDSDDGTVMELGDVAPPEPENDEDYCPKKKSARKPPKKKTTAVRKSGRPVGRPRKATLKKNNTATPKNVGDTEAGESSTLDSFDVQKTPTKKQTGDIPLDSGPPSSGRIKLIVRPSQTSTSNEPNNPKPEVTMPRIDTPTPSRARVSKAKYAISAQYATYASMSTSARFAQTAVDSAKGIADTATLDAPSNIIDPNKLILGFSNIKKDGKQHVDRAEFAWRAERAEFAGTAFEADDALQILARGEHGDAKGTD\*

>PSC64- FG3G27620

ATGCCGCCCTACGCCGCCGACCTCGAAACCTGGTGGCTAGGGAGTGGTTACCATCTCATCAAAGAGTTGATGAACACCGCGACAAGCGGCCTCGACCCTTGGCAGTGTGGGTTTGCGCCACAGATGAAAAGTCGATTGGTAGCATTCGACCAAGATACAGCTACCATAGCTCAAATTAAGAAGGATTGGCCAGCGATCCGTGCAGCCAGATGTATCGACTACGATGCGAACAGTCGCAAATATGCCAAATACGTTGCTTCCACCATCTTTCGGAAGCCTGAGAACGGAGGCATCAATTTTGACCTCGCAATGAATGGCCTAGGCTACCTCGATGCAATAGAAATCCGCCGCCTTCGTCTCATCGAAGCTGCGGATGTTGCAATTCAGGATGCTTCGGAAACATGGCCCCCAATGCTTCACGAGCTTGAACGGACGTCCTCTGCCAACTTCAAAAAATTGCACGGAGGGCTTAGGGTATGCGTAAGATATGCTTTAACCCGCGAATACAACACAGTAGCTGACAATTTCAGATTCTGACCGAGGAGCTGGCCAAAGATGCCAGCCACAGAAAGGAGGCCGCTCAGATCATGGCACTACTCAACGCACTCATGCCCTCATCTGTGTTTATGGGGCCTGAAGATGATGTAGACCCGGCTCCGCATTCATCAGGCGTCCGCGATAGTGTTCGATTCGCAGTTTTTGAATACCTCATTTCCGAGGATTGCTTCACACAGGAGCGTCAGGAGGTCATCAAAATGAAACTGCGTTGCTGGTCTGATATCTCTGATTACACAGGGGTCAGAGACGCCATGGCGCGCTACTGTGAAGAGTTTAAGAAGGTAGAGGAACTCTCACTAAGGCTTATGAACAAGCTGGAGAAAAGGGCAGGTACAGTATCTTATCATGCGGTGTCTGCCAACTCTCCTATGGTGCCCACTACAGACACATCATGCAACTCTGGTCCACAGGACAATTTTACTCAGGTCGAAAGCACTGTTCTTATGCCGAACGCATCACTTGACAACAAAGGGTCTTCAAAAAAACCGCCCACGATCCCTCAACCTCCTTTGTCTTTTCATCCCCTACTAAGAGGTATGCCCGGACGAGAACTGAGCGCTGCAAAGACAGACATCGCTCTCCTTGCTAGAGATACCAGCCAACCACCTGTTGCTTGTTATCCTAACGATCTCTCCAAAACCTTGTTTTACCAGCACCCCTTAGCCCGGGAGCTCGAGATGACTACACTAGAACAAGTGAAACTTGGTCTTCTCTTACCCGCAGAACTCGTTGATCATCGAGACTAC**TAG**TATGATCTCGACAGCGAAGATGAGGCAGATGAAGATGTGTCACTGGCTTCCCCCCATGCACCAAATCCTGACAAGCTCAAAGTGCATCCTGCACCAGGCGTTTTGGACAAGATCAAAAAGGAAGGGCACTATCAGCCTGCCCCGGCAGAAAGCACAAGATTGGAAGACACGCATTTACAACCACTAGACGAGTGCATTTCCAATTCCAACAAAAACCAGCCAAGCCATGTAATGCATCCACCGATGTTCACAGGCAACGTCCCGCAATTTGAGCCATTTGCAGGCACAGATCATCAGAAATTGAGCTTTGATGACACCAGTCATGAAGCCTCTTCTGTATCACAGGTTGTTGAACAGAGTCCCGGACAGTCTACAGCGCAAGACACCGAAGAGTCGCACAGTCAGCAAGAAGAACCCGAGAGAGAGAACCCCCCTCCACTGGTGTGTAAGCTTGCGAAACCTCGGATCTCGCCTATGGAATACGCTCGCATGTACCTGTTGGAGAAATCTGCAGCCTCTCGCGAGAACCGAGAATGTGAACTTCCGAGACCTGACATGCAGTGGCATTGGACCCCTGGATACAAGAAGTTTTTCATTATTCCTCGAATACCCGAGACGATTCAGCGTGATCTAGTTCCCGCTGATGCCAACTCTGTTCCTAATACAGATGTTGACGAGTCCAACAGAGGGCACAAAGCACCAGAGCCCACTGAGGAGAAAGACCCCTTCGGGCACATGCGTCTATCGCTGCACCTCGGAGAGGCCGCTCTATTTCCTGTTTTCCCGGGAAGTACAGATTTTAAGGGGAGCGATGAAGGAACCCCATATCAAGGATCTAGCAAAGCGACTGAAGCCTCCAATTCTATTGATGCGCGTGAAGGAAAATATCCAATAATGCAACATCGAGGTAATATCCACTACTACCATGCGGCCTCAATTTCTACCGTTCGGCACTGACAGAGACAGGACCAGCTGGCGGCAGAGTTGAAGATTGGCGGCCAATGAGCGAATATGAAACGGACGTAGATGACGAAGAATCGGACACCACCACGCCAATTGGTGTTGGTGACGACAAGAGTACAAATCTAAAGCCAAAAAAGGCCACCCAAGGAGATACGCATTCACCTACAGCCCAAACACTCGAGGTTCAAGACAGGCCTCGTGTTCATATAGCTACAGAAGAACTTGGAGAATGTTCTTCAGGTTCACATAAAAGCTTTGAAACAGCAGCTCGAAACGAATTTCCGGACCAAGCCGACGTGAAGGCTGAGGATGATGCTGGAAACCTCACCCTCTCGGGACAACTTTCACGTGTCTGTACAAAAGACATGTCAGTTTTGGACTTTGCCACACCGAGAACCAAGGGTAAGACGATGGATGACACTTCAAACCATTTGAATACTATTTGTGGGCGTAGTCCGCTTGCTCGCTTTCCTATAGTAGTCCAGCCAACTAACCGATTGACGCCAGGGACTCTTACAAAGCGTGTCGTTGACAGTTCTGGCGGCCAGCTCCTCTCTGAGAACATTCGGCAAGCTCAACTTATTTCCAGTCCCAGGGAAAAGCCCCCCCAGGGACTGAATGCAGACTTGTGGGATATCGATGCAGAATCAATGTTGTCTGAACTCAAACCAGAGCCGCTACAGATTAACCGACAGAGACCACGCGCGAACACGGGTGATGATCGAAGATGGTCGAGAATGTTTAATGGACTGAATGCCGATGTGCCGTCCTCACTTGGGATGATTAGGCTCAACACCTCACCCGCCGTGGACCATGAATTCGCTGTTGCCAATGTCGACGACGATGACGGTTATACGGCAACGGAAAGCGATCTCACTCCACGTGCTTCGGGGACCGATATCAGGAATGCTGCAAACGTAACTCCAACACCCAGAGGTCTTCAGCGGTCCACTTCGACAATCATCACTCCTACGCAACCCAACAGAAGACTCCATCATCAAGCTTCATACAATTTGGACAATGTAGAGCACTCTGGATTCACGCCTGAGCATCGCCGGGAAAGTATCACTTATGGAACATTTCCTAGGTCAGGCGTAATGCTTAATCTCCGGGATACTCAAGCACGCCTTAGATATCCCCTTCACAGCCCCGAGGAAAGCCAGCTCAGTAGGAGCTTGGACGACACGACTCCGAAAGCTAAACACTTCAACGGTGCATCTGAAACAGATCGGAACAAGCAGAGTTCGATCAAGGAGTGGGTGAAATCCATTGCAATAACACCACGAAAACCTAAGATTGCGTCACATGCTAGAATCGGAGACCACAGAGACTCTTCTGCATCAGGGGATCAGGTAGCCTCATATGGTACTTTGGATCAGCAGAATGTCCAGCCTTTTCTGACAACCTCTACACGGGATTTCTCTCAATCTCAAAAGCTCCAAAAGCAGCGATCGAAACCGAAACATACTCCTAGCAGTACACATCCTTTTCCGAAACAAGATGTTGACACACAAGGCCGAGCTCAATCCCCCGTATCTCCTACGAGAGAACAAGCCTTGGCTCATCGCAGAACGCCGTCCCCATCAGAACAGGGCAGCATTGCCGTTCCGTTGACCCCTTCGGGAATCGGTAGCGTCCTTCGCAGGCGTGTGCGTTCTGGTTACAGCACACCAGGAACTCCACGAACTCCACGAACTCCGGCTTCACCTCAGTTGGCCTGGCGGCCGTTTGATGATGACCAGCCCGAACCACCTTGCGTTTTACCTTGGTTATCGAACAATCGTGAAGTGAAGCGGGAGAAGGAGAAGCGAGTAGCGTTTTTCCGTGAAAAGGCAGAACTCGAGCTTGAGGACAAGCAATCTCCCAAGAGACCAAGCCGCAGGAGCTCTTTTGGGAGCACCATTCTTGGAGACCACACGAATCGGGACAATCCAGCAGTGGTCAATCTCATGAGCAATGAAAGTCTTGTTACCTGGACGAACTTCATCCAGGACGCCCCTGAGCCGCTCTTTTCGTCTCCCCCGCCACCTGTGCCGCCGCTTCCCACCGAATCTCAGCTGAACATTGCTCTCGGCCGACTTCGGCAAGCGCAGACACCATCTCGTGCTGCTGTAGGTGTTGAGACCCTTCTTGTTACTTCTTACCGGGCCAGGAAGCCTCAAGGACTCAAGGTTGATACGGACTGGGCGCGTCAAGCAGGTCAAGATGGATCACGAACACCGAGTCGACACAGAGGAACGAAACCTGCTAGTGGAAGCAGCAACAGAACTACACTACGTTTTGATGGTAGACAGATGGGCCTCGGACAAGCAGAGGCGGAAGAAGAGCGTCAAGGCAGTGGACAGGATGGCGAGATCATATCACGACGCAAGTAA

>PSC64- FG3G27620

MPPYAADLETWWLGSGYHLIKELMNTATSGLDPWQCGFAPQMKSRLVAFDQDTATIAQIKKDWPAIRAARCIDYDANSRKYAKYVASTIFRKPENGGINFDLAMNGLGYLDAIEIRRLRLIEAADVAIQDASETWPPMLHELERTSSANFKKLHGGLRVCILTEELAKDASHRKEAAQIMALLNALMPSSVFMGPEDDVDPAPHSSGVRDSVRFAVFEYLISEDCFTQERQEVIKMKLRCWSDISDYTGVRDAMARYCEEFKKVEELSLRLMNKLEKRAGTVSYHAVSANSPMVPTTDTSCNSGPQDNFTQVESTVLMPNASLDNKGSSKKPPTIPQPPLSFHPLLRGMPGRELSAAKTDIALLARDTSQPPVACYPNDLSKTLFYQHPLARELEMTTLEQVKLGLLLPAELVDHRDY**W**YDLDSEDEADEDVSLASPHAPNPDKLKVHPAPGVLDKIKKEGHYQPAPAESTRLEDTHLQPLDECISNSNKNQPSHVMHPPMFTGNVPQFEPFAGTDHQKLSFDDTSHEASSVSQVVEQSPGQSTAQDTEESHSQQEEPERENPPPLVCKLAKPRISPMEYARMYLLEKSAASRENRECELPRPDMQWHWTPGYKKFFIIPRIPETIQRDLVPADANSVPNTDVDESNRGHKAPEPTEEKDPFGHMRLSLHLGEAALFPVFPGSTDFKGSDEGTPYQGSSKATEASNSIDAREGKYPIMQHRGPAGGRVEDWRPMSEYETDVDDEESDTTTPIGVGDDKSTNLKPKKATQGDTHSPTAQTLEVQDRPRVHIATEELGECSSGSHKSFETAARNEFPDQADVKAEDDAGNLTLSGQLSRVCTKDMSVLDFATPRTKGTLTKRVVDSSGGQLLSENIRQAQLISSPREKPPQGLNADLWDIDAESMLSELKPEPLQINRQRPRANTGDDRRWSRMFNGLNADVPSSLGMIRLNTSPAVDHEFAVANVDDDDGYTATESDLTPRASGTDIRNAANVTPTPRGLQRSTSTIITPTQPNRRLHHQASYNLDNVEHSGFTPEHRRESITYGTFPRSGVMLNLRDTQARLRYPLHSPEESQLSRSLDDTTPKAKHFNGASETDRNKQSSIKEWVKSIAITPRKPKIASHARIGDHRDSSASGDQVASYGTLDQQNVQPFLTTSTRDFSQSQKLQKQRSKPKHTPSSTHPFPKQDVDTQGRAQSPVSPTREQALAHRRTPSPSEQGSIAVPLTPSGIGSVLRRRVRSGYSTPGTPRTPRTPASPQLAWRPFDDDQPEPPCVLPWLSNNREVKREKEKRVAFFREKAELELEDKQSPKRPSRRSSFGSTILGDHTNRDNPAVVNLMSNESLVTWTNFIQDAPEPLFSSPPPPVPPLPTESQLNIALGRLRQAQTPSRAAVGVETLLVTSYRARKPQGLKVDTDWARQAGQDGSRTPSRHRGTKPASGSSNRTTLRFDGRQMGLGQAEAEEERQGSGQDGEIISRRK\*

>PSC65- FG3G16240

ATGAGATCTCCCAGGTCACCGTCCAAAGAAAAGGCGACCGAGGAATCTCCCAAATTCAGCTATCGTGCATTCAGTGACTTTGGAACTTCACCTACTCCGATATCTCGTCAGACCAGGGAGGATAGCGACTTTTGGATGGGTCGTTACCTGGCTCCTGGCACCCCTTCCCCCATAAGAGCTGACCAAACCTCTCTTTTTTCTCCAGAACGGCGAATGGGTTTCCCGATACGCGAACCGAGTCTTACTATCAGAGAAAAAGGGACTGGGTTTCATGATGACAAGTTGGCCAAATCTCAAGGCAACTATCACCAACCATCTCTGCGACGCGGATCGGGTATCGCATATCAGATACCAGAAGTTTTTGGTAGAGTCACGGGAAACCAGAATGCA**TAG**GATGCACGGTCTAGCACGACGACTTCGATGAATGGAGGGTCATTTCAGTGGCAGCCTCCCAGCAGCCAGCAATCTGTAAGCGATAGCATCTGTCAGGTAAGTCAATGCTGCATCTAAGCTGTTGCACTTTGGTTGTCGAGGTCATGAAACGTTTCAGTCATCCACTAACTTTTCAAGTTTGATCTCAATCGACGAAGGCCGCAGCGAGGCGATATCCAGCCTGTCGAGCATCGACCTCTTGCTGTGATTACCAAATATCCTAGGCAACCGCAACCTGAGCCTGAGCCTGAGCCTGAGCCTGAGCCTCCTAACGTTCATTCCCGACTCCCAACAGCGGATTTTGAGAGTGAAATTTGGCCCGCGGTGCAAGACAAAGTCCAGTCCCTTATCGAAGAGAAAGTGTTGGGACAGATAGAAACAATGCTGCAGGAACGGGAGGCCGAGTTGGAGTCTTTGACTCGTCTCCCACTGCTAAAAGCGGACAGCTCTCCAGAGGTGTACTTGGCTTACGTCCAATTCCTTCAGAAGAGATTGAAAGCAATGTCAAAGAACTCCCCAATGAAACGAAAGACTGAAGCTGCCATGTCGTTGGCGCTGGACTTGGAGCCAGGACTAGAGACGTGCCTTCGCGAGCATTTGGCTCACATCGCCGCTGGAGAGAACCGTGAAGAAAAAAGCAAAGACTTGCAAATGAACGACAGAGAGGGCCAAGAGGAAGAAGAACCGGGGATAGACGATGAAGATGTGGTTATGATTCCTGACGAAGACGATTCGGATGATGTCGATGAGGAAGATAAGATCTTGCCTTCTATCGAACGTTGCACTCCATTTACCACGCGGGCAATAATGGTCCAGCTTCACAGATATGAAGGAAAATATTTGGCGTCTGTACGGTCTGCAAAACTGGAGAAAGAAAAGCACAGTCGCGTGCTCAGTCCTTTGGACAGACACCCGAACATGCCAAATGGTAGCTCTGATGACCCTCAACAAGCTACTGGTCATCTTGAGACCTCACGCAAGGTTATAGAACTCGAAGAGACCCCGAAAGGAAAATCGGGGGATATGTCTAACGACAAGAAGAGGCATTTGGAACCTCCCAGCACCCCGACTAGAGCAAGTAGCAAGAGACGTTGCATGATCAAACCCGCACCTGGACTCACACACAGTCCAGCTTCGTCAACTTCTTCATACTTCCCCTCATTGGATGAGTTGTTCAGCTCAAGCTTGGCAAAGCAATCATCTCCAGCAACACAACCGAGTACCATCAATAGCCAGCGCTCACAGGCTACCAGCCTGACTTATAGTCCAGCAGTGAGCAAACAAGAGGGAACAAGAGATGTCTCTGGTGCTGCTCCTAGGCCTCCAGTACCGCTATTTGGCGAGTCGCCCGGTCTGTTCATGACTCCCGATCCAGCTCCCGCCAACAATTCGTTTGCCATTAAGCGAAGCGCGTCTCGTAGCGCACGAAATTTCGATCAGATACAGCGCGAGGGCAGATCACCGTCTCGCTTCCGAGAGAACACGGCCGATTTTGAGGCCCTGGATACGCCCCAGAAGCTGTTGTTGCTGTTCAAAAGGACTAGAGGAAAGAAGTCATAG

>PSC65- FG3G16240

MRSPRSPSKEKATEESPKFSYRAFSDFGTSPTPISRQTREDSDFWMGRYLAPGTPSPIRADQTSLFSPERRMGFPIREPSLTIREKGTGFHDDKLAKSQGNYHQPSLRRGSGIAYQIPEVFGRVTGNQNA**W**DARSSTTTSMNGGSFQWQPPSSQQSVSDSICQFDLNRRRPQRGDIQPVEHRPLAVITKYPRQPQPEPEPEPEPEPPNVHSRLPTADFESEIWPAVQDKVQSLIEEKVLGQIETMLQEREAELESLTRLPLLKADSSPEVYLAYVQFLQKRLKAMSKNSPMKRKTEAAMSLALDLEPGLETCLREHLAHIAAGENREEKSKDLQMNDREGQEEEEPGIDDEDVVMIPDEDDSDDVDEEDKILPSIERCTPFTTRAIMVQLHRYEGKYLASVRSAKLEKEKHSRVLSPLDRHPNMPNGSSDDPQQATGHLETSRKVIELEETPKGKSGDMSNDKKRHLEPPSTPTRASSKRRCMIKPAPGLTHSPASSTSSYFPSLDELFSSSLAKQSSPATQPSTINSQRSQATSLTYSPAVSKQEGTRDVSGAAPRPPVPLFGESPGLFMTPDPAPANNSFAIKRSASRSARNFDQIQREGRSPSRFRENTADFEALDTPQKLLLLFKRTRGKKS\*

>PSC66- FG1G05280

ATGGTTCTTGCGAGCCTCATAGAGTACTCAACGTGGATCGCCAAACGTCCTTTGATCCACGGAAGCGATCAATACAAGGACACGAACAACGATCGAAATGGATCAAGTGAGGTTTCGTCACCATTAGATCAGACCCTGAAATACACATTGCCTACTTGGTACCGACATTCTCATGTGGTTCATACTGTTGACTTCAGAGTCAGCCAAATTTACGAAAGAGATAAAGGAGACATGCAAAGTGGGATATTCATACAAACGCACATCACTAAAATGCATGGCCGCCTTTTAATGCCCGTCCAGAGCCCAGAGTCAGGTCAATATACGCTTGAAAGCCAGGAG**TAG**GATAACCTGGCCCATCACCCGCATCTTGACTCTGAGTGTGCGATCGGTTGCATGTACAAGAAGGACTAA

>PSC66- FG1G05280

MVLASLIEYSTWIAKRPLIHGSDQYKDTNNDRNGSSEVSSPLDQTLKYTLPTWYRHSHVVHTVDFRVSQIYERDKGDMQSGIFIQTHITKMHGRLLMPVQSPESGQYTLESQE**W**DNLAHHPHLDSECAIGCMYKKD\*

>PSC67- FG2G32320

ATGGAGTCCTCACGCAAAGCATCGCATTACCTGTTCGAGGTTTACCTGAGACTACGACCGCCGCCCTTGCGAAACGGTGATGGAGAGCGCATCCTCGAAGTTGAATCTCCCGAAGACGAATCGAAATCGACACATGTTGTGCTAAACCCCCCTACCGATCGTCGACGAGCCATCGAGAAGTTCGCGTTCACTCAGGTATTCGAGGAAGAAGCCAGCCAACTCGATGTGTTCCACGGTACAGAGATCGTTCCCTTTGTCGAGGGCGTTCTCGCTCCTGAAGGTGGCGAGGGAACCGACGCGGTTGTTGCTACCTTGGGAGTCACTGGCTCAGGCAAGGTAAGCTTCACGTCTACGCCAGAAAGACGTTGCTAATAACTGTAGACACACACGATCCTCGGCAGCAAATCCCAACGCGGCATGACCCAGCTTGCAATGGACGTGCTCTTTCGATCCATCGGCGAAAACATGATCGACGGAAACGATATTTTTACAGCGCAGGATTCTCTTCAGGAGTGTGATGGGGCTGAATCATCTCTGACCATCGCGTCGCACTTCTTGAGTCCATCCTTTCGTGACTCGGTGGCGTCCAGAGCGCCATCACGAGCCGCCACGCCAGGCCTTGTACGACCCCCGACATCAGCCCTTTCCTACACCAACTCTCCCATAACCCAACACGTCTCGAAGCTCGCCAGCGCGTTGTCTGGAGACTACACACCAAGTCAGAATAGTGTACGGCTTGTCACCGAAGGGGGTGGAACAACGCGTCCCAGTGAACGA**TAG**AATTGTTCCCCTGGCCGCGACAGACAACCCCTTGGGTCAATCACAGCGTCTGCCAGCACAATGAATTGTTCCCCTACCTCAGCCATGCCCAAGCGGGTTACACGACACTTTATGTCGCTCCGATCTGCCACACATGTAAGGAATATTGCTAAACAAGATTTAAAGGGCGAACGTAATATCATGTCTCCTCCTCCCCCCCGACGAGCGACGGCGCGCCCTTCGACCTTTCCCGACCAACCCGACGTCAGCAATACCGACGTTCCCTGCGACCCTTCAGCAGAGTATGCTATTGTCATCTCTATGTATGAAGTACACAACGACCGTATATATGATCTCCTGACACCAGCTGTCAAATCTGCTGCGTCCAAGGAGCCGCGACGCCGTGCCTTGCTATTCAAATCAACCGAATTATCACCCGATCGAAAGGTTGTTGCGGGCCTGCGAAAGGTTATCTGCTCGAACTATACAGAGGCATTGACAGTTGTCGAGACTGGTCTACAGGAGCGCCGAGTTACTGGTACCGGTAGTAACAGTGTTTCGAGTCGAAGCCACGGCTTTTTTGTATTTGAGGTCAAGAAGCGAACTCGGGGTAGAAAACCTGGACCTTGGGGGGGAAGCAAGTTTACCATTGTCGATCTGGCAGGTAGCGAGAGAGCACGCGAGGCGAAGACGGCTGGTGCCACGCTTGCGGAGGCTGGCAAGATCAACGAGAGTCTGATGTACTTGGGCCAATGCCTCCAAACGCAAAGTGAAGCTGCAAGCTCTAGCAAGGTTAGTAACGGCGGGAGTAGTCTTCAACATCAGCTAACATGCAACAGCCCAACATCGTTCCTTTCAGGCAATGCAAGCTCACTGAACTCCTCTTCTCCAACTCATTTCCTTCATCCTCTTCTTCACAGCCTCTTGCTCCTCGTCGTAACCCTCAAAGAGGTGTGATGATCGTCACCGCCGACCCGAGGGGGGACTTTAACGCTACATCGCAAATCCTTCGATACAGTGCTCTTGCCCGTGAAGTAGCAGTGCCTCGCGTCCCTTCCATTACCAGCACCATCCTCTCGCCGACCCAAAATCGTTCGATTAGTCCAACCCTCAACCATAACCATTTGCGTCCAGTAGTGCCGTCGCACCATGTATCTTATAGAAATTACACCCCTCAGATGAACATCGATGACCGTGCGACTATGGAAGTTGCCGCACTTGAGATTGCCCGACTTAGCGAGGAGGCTGATCAATTGCGCGAAGAAGTCGACCGACAAGCTGAAGCACGATTCACCGCTGAAGCTCATCTCTTGACCATGGAAGACCGCATGTTGGACCTCGAAGCAGCTATTCGCGAAGAATGCGCTAACGAGTTTGAGCAACGCCTGGCTCTCGAAATGGCTCGCTGGAAGAACTCAATGTCCATTGAGCAGGAGCGTACCGAAGAGCACTGGGACCGCAAGATTGAAGTGCTTGAGCGTGGGCTGGCTGCGGACGAGGATGGTGACAAAGAGAACGTTCTAATCGAAGATCTTGAAGAAGAGGTTGACAGACTTCGTCGCGAAAACGGTATCCTCAAGCGCGAATTGGCCTCCCGCAGTCCTACAAAGCGCAGGCCCCTCGAAGAGCGAGAAGACTTTGCTCCCCCGACCACAAAGCAACCAAGAGGCGACACCAGAGGCGATAGCGTTACGAACCTGGGACGCAAACTGGAGCGCATGCGTGTTGGTGGTGAAAAGGCAAAGTCCGTACCTGTAGTAGGTAGCGGCAGTCCCAAGAAGATGCGCAAGTTGGGAACGAGGAAGTGGGAGCACGAAGAAGACTTGGAATAG

>PSC67- FG2G32320

MESSRKASHYLFEVYLRLRPPPLRNGDGERILEVESPEDESKSTHVVLNPPTDRRRAIEKFAFTQVFEEEASQLDVFHGTEIVPFVEGVLAPEGGEGTDAVVATLGVTGSGKTHTILGSKSQRGMTQLAMDVLFRSIGENMIDGNDIFTAQDSLQECDGAESSLTIASHFLSPSFRDSVASRAPSRAATPGLVRPPTSALSYTNSPITQHVSKLASALSGDYTPSQNSVRLVTEGGGTTRPSER**W**NCSPGRDRQPLGSITASASTMNCSPTSAMPKRVTRHFMSLRSATHVRNIAKQDLKGERNIMSPPPPRRATARPSTFPDQPDVSNTDVPCDPSAEYAIVISMYEVHNDRIYDLLTPAVKSAASKEPRRRALLFKSTELSPDRKVVAGLRKVICSNYTEALTVVETGLQERRVTGTGSNSVSSRSHGFFVFEVKKRTRGRKPGPWGGSKFTIVDLAGSERAREAKTAGATLAEAGKINESLMYLGQCLQTQSEAASSSKVSNGGSSLQHQLTCNSPTSFLSGNASSLNSSSPTHFLHPLLHSLLLLVVTLKEVSSPPTRGGTLTLHRKSFDTVLLPVKQCLASLPLPAPSSRRPKIVRLVQPSTITICVQCRRTMYLIEITPLRTSMTVRLWKLPHLRLPDLARRLINCAKKSTDKLKHDSPLKLISPWKTACWTSKQLFAKNALTSLSNAWLSKWLAGRTQCPLSRSVPKSTGTARLKCLSVGWLRTRMVTKRTFSKILKKRLTDFVAKTVSSSANWPPAVLQSAGPSKSEKTLLPRPQSNQEATPEAIALRTWDANWSACVLVVKRQSPYLVAAVPRRCASWERGSGSTKKTWN\*

>PSC68- FG1G38270

ATGGCTACTGTTTCTAGAATGCCTGTTCCAGTCAGGCGCACCGACTCCGACGTTTCTCCCAAAACCATTATACCACCACAAGACTCGACTCCGCGTGACGCAAAGGTCGACTATTTCCCAGACTCCAACACAGTCGATGGATCCAATACTAGTGTCAGGGCCAGCGACGACGATTCCTCTGCGCACAAGTCGAGTATCTCATTTGCACCCGATCCACGACCCGATCGCAGCTCAAGCCGTGAGAGCAACCAAAACCAAACACAAAACCAAGACCTGATGGTCCAGAGGAAGTCATCCACCGGCTCAGTTTCCTTCCGCCGAATGACCAATCCCAAATTGCCACAGGGAATGCCTCAGCAAATGAGCAACAGTCGCATACGCGCAAGTTCTCCTGATCATAAAAGGTACGTTGGATCTTTCTGTTTTGTCTTCCCCCACTGTGAAGGCACATGTTGTTGCAATGTCAACCTCTCAATTTGATTCCCAATCTCGCTTGCAACAATACGTTACCCGAACCAAACCCAATACGCTTGCATCCGGTGGCTTGAGCATTGAACTTCGCAAGACCGTTATGAGCATAAATCGAGACCTGCTCGATCTGGGATCGATTAGCATCTTGTACCAAAGTTGGTCAGATTGAGTCCAAAATGGTCTTATTGGAGATGGATGTGACGCCATGCCAAGAACGTGTCGCGTGCGGCTAGGGGAGACCTTCGACCATCGATAATGCGTCCCCACAGTGAGCAGCTGTTTCCAGCGAGTGCGGCAGGCAAAAGGGCTCGGCCATCGCGACCTGGTTGACCGTCACCGTCAGGTCAGGACTTGCGAGTTGAGTTGATTCACATTCACGATGCGGTAACTATTGCAAAGATGGATTCGTGCCCTGGTCCCCGACTGGGTGGAACTGTTTTACTTGGCTGGGCCATTCCTTACAACAACCTTTTCGACTCCACCACTGAGCTCCCGCTATTGATTATGGTTACCCCGCCGTCTGCGACAAACCTTACCGTAGACGTGGGGATGGATGGTCTTCGCCGACTCTCCTCGTCACTTATTTGGTCTGGATCGTCAGGCCATCTTTCACCACAGCCACCCTTAGCAGATCGTCAGCCCCCAAATTCCCGCAGAGCTTTCGAATATTTCCGTCGCAATCGTCATTGACAACCTTCTTCTCTCATACCACTTCCCTGCCCATCATCACTTTCCCAACTCGTTATTGTTTCTCTTTGCCTCTATTTTGTGGCCTTTTCGCACTTATGGCGACGCTAACCGAGACCCCGCCCGATAGGTTCCAGAAACATGTTGCATTTGACAATGTTCCAACTGGTGAACCGACAAAGAATAATGCCATTTCGTTCACACTCAATGTTCGACACAAGGGATATCAAGCTAGGCGCAGATCCCGGTGCTTCATGGTTGGAGTGGACGAGCATGCCTACTCTGATTATGCCCTACAGTGGCTGCTGGAAGAGCTTGTTGATGACGGCGACGAAGTTGTATGCGTGCGCGTAGTTGAGAAGGAATTGCGTTTCTCGAATAGGGAATACCGAGAAGACGCTGAAAAGGTCATGAGGGGCATTCTCGACCGTAATGGCAATAACAGGGCCATCAACATCGTTCTTGAATACGCCGTTGGCAAATTACATACGACCTTCCAGGTTCTGGTACGTTGATGAAGTGACTTCTTTTGTGGAATCCCCAGGCTGACAACTTCTTAAGATCCAGATGTATCAGCCTGCAATGCTTATTGTGGGAACAAGGGGACGCACACTTGGTGGTCTACAAGGGCTCGTTAACACGCGCAATTCGTTTTCCAAGTACTGCCTCCAATACTCGCCCGTACCTGTAGTCGTGGTTCGACCTACAGAAAAGCGCGTTAAGAAGAAATCTAAGCGGGCCAACGACTCTGCACGACAGACTTACGTGAGCATGTTGGCTGCGAATTCTGGAAAGCACGAAGCCGATAGTGAGGCGAGCAGCACTTATGAACTTGAGGTTCAAAACTCTCCCGACGAAGAAGCTCATCAAGTCGCACGGGCCTTGGGGCTGCCTGCATCGTTCGATCCCACGATCAAGCCATTTAACCACAGTCAAGCGCTCAACGTCAGACCGCATGGACCTGCTACTGTTAGCGCGTCTAATGAAGCGCCAGAGGACCGGCGATTGGTTAAGGATGATGCCAGTGCTGCTGGTGAAAGCGACGATGAAGATGATGGCGAAAGCGATGACGACTCTGGAGAATTCGAGGTTGTTAGTGGGCAACAAGCTCTGGATCAGGAGAAACTGAAGCAGCTCCACAAGATGGAGGTTGGTGAAGCAGCGGCGTTGAAGATGAAAGTGGACGAAGATATAGATGAGGAAGATGACACCCCGTCAGCCCAAAAAGGTACATCA**TAG**AAGATGAAGGGCAGAAAGAATTTAGGGACAGACAGTAAGCAAGGGAATGGTGGGAATGAAGTTGTCGAATACATCGACGAAGTCTCACACCAGAAAGTCAAGCGATCAACTACACAGCACCCTCTAGCGAGGATCTCCAGAATACCCATCTTGTGCGAAACTGCCTACTTAACGCCAAACAAATTCAAAGGTGCAGGAAAGGCCGTGTCTGTTGACTCAAAAAGCAATGCCAATGATATTACAAGATCATCTACAACGCTTGGGGAACCGCTTTTGGGGCCAGATTCCAAC**TAG**CAAGACGGACAGAGCCAGTTGTCGAGAACAGATAACGATGGAATCGAGCAGATAGACGGCTGCCAAGACTACCCGATTATACCTGCTGACAGTCACCGGTTGCAAGATATCGATTCTCATGAGCACAATCCTGAAGCGGGCAGAGATTCCATGGAATTGGAGACGATGAGCCGCGTGACGAAGGACGACAACGACGTTGAAGATGAGGCCAGGGAGGAATCTTTCGCCAGGGTTACGGACACAACGAACGGCTCACGGGAAAACCCACAGAATCAGCGTCCAAATCCCGAATTACCGGCAGAGGACCAAAGATCCAGCGTCGATTTGGGGGCGCAAGATCAACTTGGCCGTGGACCTGGAGATGGGCGTGGAGGTGGCCGAGATAATGGCAACTACGCCAATGGCAATGCTGACGGTGGTCTTAATGGTGGTGATAACGCTACAAGTCGGCGTGGCGGTAGGCTAAGGGACTTGGTAGGAGGATTCATATACTTGTGGTGCCTTGACTTGCGGCGAGGAACATTAGAACTAGGAAGATGA

>PSC68- FG1G38270

MATVSRMPVPVRRTDSDVSPKTIIPPQDSTPRDAKVDYFPDSNTVDGSNTSVRASDDDSSAHKSSISFAPDPRPDRSSSRESNQNQTQNQDLMVQRKSSTGSVSFRRMTNPKLPQGMPQQMSNSRIRASSPDHKRFQKHVAFDNVPTGEPTKNNAISFTLNVRHKGYQARRRSRCFMVGVDEHAYSDYALQWLLEELVDDGDEVVCVRVVEKELRFSNREYREDAEKVMRGILDRNGNNRAINIVLEYAVGKLHTTFQVLIQMYQPAMLIVGTRGRTLGGLQGLVNTRNSFSKYCLQYSPVPVVVVRPTEKRVKKKSKRANDSARQTYVSMLAANSGKHEADSEASSTYELEVQNSPDEEAHQVARALGLPASFDPTIKPFNHSQALNVRPHGPATVSASNEAPEDRRLVKDDASAAGESDDEDDGESDDDSGEFEVVSGQQALDQEKLKQLHKMEVGEAAALKMKVDEDIDEEDDTPSAQKGTS**W**KMKGRKNLGTDSKQGNGGNEVVEYIDEVSHQKVKRSTTQHPLARISRIPILCETAYLTPNKFKGAGKAVSVDSKSNANDITRSSTTLGEPLLGPDSN**W**QDGQSQLSRTDNDGIEQIDGCQDYPIIPADSHRLQDIDSHEHNPEAGRDSMELETMSRVTKDDNDVEDEAREESFARVTDTTNGSRENPQNQRPNPELPAEDQRSSVDLGAQDQLGRGPGDGRGGGRDNGNYANGNADGGLNGGDNATSRRGGRLRDLVGGFIYLWCLDLRRGTLELGR\*

>PSC69- FG1G14180

ATGCATACTCGATCTCACGCACTCACTCCAGTGAACGCTTCAATGATGAAACCCCTATCCGAAAATGTAAGTTGCACACACATTGTGTCTCCTCTCCCTGTCACAAGATCCCCCCAACATACTGACCTCAATCAATAGTCTCTGCCATACACTGAGAGTGACAATTCGGCCCGAGATGCGCGTCATGGGCGTAACACCACCGCCTCTACTGTTTCCTGTCACTCAAATCATTACGACAAGTCTGTAATTGAAGATGGTGTTCAAATGCACGACTTCTCTTCCCCCACCCCGAGCAAGTCTCGTGGTAAAAGCCCCGATCCAAACAGATTCGTCGCAGAACGTCCTCCTCGTATCAACCCACGTGTTGGGACGGGACTCACAGTTTCCAAGACCGACAACTCGTCTTTCGAAGATCAAGCCGCTTCAGAGTGGGAAACTGTCGCTGGAGACGATGCATCCGAAAGCTACCCAGAAGCTTCAATCAAGCCGCTGAGACGCCAGGGAAACTTTTTAGGTTACAGCCCACAGAATGGAATCCCCCAGAACAACCACAACGTTTGGGCACCACAAACGGAGAGCTTTGAGCTTGTCTCACACTCTGGTCCGTCCGTGCGAGTGCAGCCGAGATCTTCTCCTCGTTTGCATTCGTTTAACTCTTCGTCCAGTTTCTACAGTGATTTGAGCAAGCAGAGTGGCAACGACGCAAACATCTACGGGAAATCTCCCATCCCTTGCGATCCCGAAGATTTCCCAACGGACAATCGCGCTCAGCAACAAATTAAGACGTACTCCCATGCCTCGTCCGACAGTCATGACGACCCCTTCAAGTATGACAATGAGACGTACTCAGGATTTCTTCGTCCATCGGCCGAGAGAGAAGTAAGTGATGCGCTGCACAAAGCCGGAGTAGCCGTGTCTTCAAAAGAGACCATCCCGCGATCCCCAGAGGGAAACATTCCCAATGCTTCGCAGCGAGGTGCCCCTGTTGCCTCCTTCTACCATGCTGGCGCTATTCGTTCGGCC**TAG**AATGTCGATGAAGAGGTCAAAGTTCCGGTTCATCGGGAAGGAGACAAAGACACACGCCGTGCTCCAATCCCCGATAGACGACTGACTGGTGAAATTGCTGCTCTTGACAAGAACAGGCCTCTTACTGGTACCGAGGGCGACTGGCAGACTGTCACTAGCGAACAAGCTCTCAACTCCATGCAGCAGGAATACCTCGACAGCATCGCAAAAGGAACTGGGAGCAGCCTTGCTGATGTGTCTGATGTGACCGAGCGCGGCCATCAACTTCGCACATATAGCTCTACAGACAGAATCATTCGTCACCCTTATGGCGACAACCCTTATGATTCGTACCACATTCGTCGCGACAGAGGAACTAACCTCGCAGTTTCTGTTCCGCGGTATGGCGGCGGCCCGGGGACATTTGCCAGCAACACTGCTCGAAAGTTTGTCCAGCCCATGTCCAGATTGCCCGAATCAGCTGCTCGATTCTCCAACATTTTTCGCAGAGACCAAAATGAACAGACGCCTGACGGTATACTCCTCTCCGATCTGGACCCCAACAGAGCAAGCTACCAGAGCCTTGACTCGGACGCAATTCCAAACAGCAATACCGCAGACTCAAACTTGCCCAATGGTCAAAAGTTTTTCAGCTGGAATCGAATTCGCGAAACTCTTGGGCGAGAGCCACCCAAGACCCCTCTGACCATCCTCGATCAGCCACTGTATAGACATGGTATACAAGACTCTGATAATTCCAACAAATCGAAGCACATCCCTCATGACAATTTTCTCAAAGAGCTTCCATCGCTGCCTTTTCCTCTCGTCAGTCTTCCCGAGGCTCAAATGCTGCAGCAGTTCAAACGACAGAGAGGTGAAGAAGATCATACTGAGAGTGCAGGCAACTTCGCCGCCCGTGGAAGGTCAAACACTATCAGCACTGCTGCATCGCCAGGTCTCCCTGTAACCCCTTCTCCTCCCAAGAGAAGCTTCTGGGCCATATCTCCCGAGAGTGGCATTACACGACCTGCGCCGACTCACCAGCCCAAGAGCCTGCGCCAGAGGTTCCGTCGTCGTGATTGTAAGTGTAGAGTGTTTGTGATGGACCAAATGCTAACATGAATGCAGCAAGCGAGAGAATTTCTGAGATGCTCGTTTCTTCTTCAGCCATTCTCGATACTCCGCCTTCCGCGAAGCCCCAGTCCAGCACTCACCGAACGTGGTATCGAGGACAGCAGCCGAGCTTCTCAACTCCTCGCGCCAGACAGAGCCAACCTCGTGGGTTCTCCTCAAGCATACGGTCTCGTAGATTCCGGCCCGATTCTGAACCTCTCGATGGAAGCCCCTTCACACTGGCCGAGACTCGCCTTATTGAAGAGGCTCGTGAGAACATGTTCTACCACCGTCAGCGAACCGACATGGTCGCCCAACGAGGAAAGCGGCTTTTCATCTGGATCATGATCCTGACCCTTTTCTTCCCGTTCATAGGCCCAGTCGTACTCTACGGCAAACTCAACTCGGCCATCTCGTGGTATACCCATGGGGAAATCCAGTGTCTCACCCAGGATCAGCGCGGAATCCTCAAGCAGCAACTCGTAGTCGAGGCTGTCTTGTACACTGCTCTCATCATTGCGCTTTCTGTCCACTACTCAATCTACAACTAG

>PSC69- FG1G14180

MHTRSHALTPVNASMMKPLSENSLPYTESDNSARDARHGRNTTASTVSCHSNHYDKSVIEDGVQMHDFSSPTPSKSRGKSPDPNRFVAERPPRINPRVGTGLTVSKTDNSSFEDQAASEWETVAGDDASESYPEASIKPLRRQGNFLGYSPQNGIPQNNHNVWAPQTESFELVSHSGPSVRVQPRSSPRLHSFNSSSSFYSDLSKQSGNDANIYGKSPIPCDPEDFPTDNRAQQQIKTYSHASSDSHDDPFKYDNETYSGFLRPSAEREVSDALHKAGVAVSSKETIPRSPEGNIPNASQRGAPVASFYHAGAIRSA**W**NVDEEVKVPVHREGDKDTRRAPIPDRRLTGEIAALDKNRPLTGTEGDWQTVTSEQALNSMQQEYLDSIAKGTGSSLADVSDVTERGHQLRTYSSTDRIIRHPYGDNPYDSYHIRRDRGTNLAVSVPRYGGGPGTFASNTARKFVQPMSRLPESAARFSNIFRRDQNEQTPDGILLSDLDPNRASYQSLDSDAIPNSNTADSNLPNGQKFFSWNRIRETLGREPPKTPLTILDQPLYRHGIQDSDNSNKSKHIPHDNFLKELPSLPFPLVSLPEAQMLQQFKRQRGEEDHTESAGNFAARGRSNTISTAASPGLPVTPSPPKRSFWAISPESGITRPAPTHQPKSLRQRFRRRDSSERISEMLVSSSAILDTPPSAKPQSSTHRTWYRGQQPSFSTPRARQSQPRGFSSSIRSRRFRPDSEPLDGSPFTLAETRLIEEARENMFYHRQRTDMVAQRGKRLFIWIMILTLFFPFIGPVVLYGKLNSAISWYTHGEIQCLTQDQRGILKQQLVVEAVLYTALIIALSVHYSIYN\*

>PSC70- FG3G13030

ATGTGTCTCCCATGCTTCCCTTGGACGTGGACCAAGGTTGAAGATCCGTACGACGAGATGCACAAGGCCCCTGATCAGTCCGTCTGGGTCCATGATGGACAGGGGTGGGAGTTGCAGAAACTGGTAAGATATAGTATTTCTTTTTCTCAATTTTCTTTCATTTCAGTTACTTGTTCCTTGGGGCACCCTTTTATTCACAGCGAATCCTGTCACCTTGCATATGGGCAACCGTCTCTGCTAGTGACAGCCACGTGGAGAGCGAAAATTGAGTCGCATCAAACAAAGGCTTTCAATTGGAGTGTTTGATGAAATGTAAACATTGAAAACACGCTTTGTCTGTATCGTTACTTGACGCAGCGTTTGCAAGGTCTTGTGCAGAGTGGAGGTGATATCTTGACGAGCTGCCCTCTTGTTTTGAGTCTCCTCTTCTTTTCCTTTCTTCATCAGAGAAAAAGAGGCATCTCTAGCCTTGAGGTTCTTGAATCGCAGGCCTCTCGAGAAAGAGTTTTCCGCCTCTAATTGTCAGAGTTGAACTCTTTCTTCTTGAAAGAAAGAACCAATCATGGCTTCGGCAGGCGCGAACCCGCTCAAGTCTCCAAAGACGCCTCGACGACCCAAGACTCCCGAGTCTCGTCAAGTGCACTTTGAACCCGAGACTAAGCCAGCGACAACTTCTGCTTTCGCCAGGGACTTCAATTCTGGTCGTATCACGGGATACACCAGTGCCAATTCTCCCAGCGGCGGCTTCAGTGCTGGCGTCAACGGTGTCAGTGCCCCAAAGACACCTCCTGGAATCAAGGCTGCTGCTTCCACTGCTACTGCTACTGCTACTGCTGCTGTCACTTCTGCCCCGGAGCAAAAGATCGAGACTCAGCCTACAAACTTCCCCGCTCTCGGTTTAGGCGCCAACCAGCTGCAGTGGCATATCAGTGCCAATCCGACTCAGAGCCTCAGTTACCAGCTGCCTGGGTCCGTCAATTTCATCTCGCCCCCTCCTCAGGCCCATCAGCAGCATTTTTTCTCTCCCCCTCAATTTCATCCTGCTTCCTACATCAGCGTAGGACCAAACGACATCGTCAATTCTCCGACCCCGACCCCAAGCCCTATCACGTATATCGGTATCGGCCCTCAGTCTCCCGCTCTCACCCTCAACCAAGCCAGCAACATGGGTGACTATCAGAACGCTGCCCCTCCTGTGAACGGGCTGCACTTCCAGCCTCCTGTTCCCGACACCACCTTTGGTCCTATGCAGCACGTTTACGTGCCTCGTCATGACGGTGGCCTTGCCGGTCTTCAAGTCGGTGCCCCTGCTTCTTTTAACTATGTTTCTGCTGCCCCTTTTGCTATTGCCCCCTCTTCCTCCTACACCACCGTCGTGGTGCCAAAGACATACTATCTCAACGGCTACACTTACTATGCAAGTTCACTTAGCTGGCTTACCGTTTTGCTCTGTCTTTTGCACGAGTTCGTTTGATACAAGTGCTTTAGTGTTTCTCTCCTGCATCGTCAAGCGACGTGCTAGGATTTTCTATCTCTCCCTCATCTCATCTTCCAAACGTTCATCGCTTTCACCAACATGTACTGACCATTTCTACAGCAGCCAGCTATCGGTTCCATGGCTCCCCAGCCTAGTGCCTATGGAGGCTACGTTGTCCAACAGCAGCAGCAACCCTACTACGTCCAGCAGCCGACCATGGGCCAGCAGCCAGTTCTCATCGCCGGCCAGCTGCAGCAGCCACAGCAGCAGTTTGTGCCTCAGATGCAGAACGTTCCTGGCGTCCCCACGGTCGGCCTGGCGGGTGGAACTGCTGTGCCCGGCACGGTCCCCGTTTTTGCAGGTAATGTCCCTGGTGGTGGTGGCGGTGGCGGTCACATCCCCGAAGTCATGGGTGTTGGTCGTACTGCGGGTGAAGAGCAGCTCCGTCAGATCAAGTTTGCGCATGCGAACAAGCTGTACGAGCCTCAGGAATTCAAGCCCGCCGATGATGACCCTTCCCGTTTCTACTATGTCCGTGAAGTTGACGGGAACTGGACCCAGCGCAACCGATTTACCATTGATCACATGGGTGATTCCAAGTGGTACGTGACCGACGAGGGATGGTTTTATGCCGTCCGACTTCCCAAC**TAG**GCGAGGTGTCACGTAAGTATCTCTACACTGAAATTCCTCACCGTGGGCTGATGGGATTCTACAGGCGAACCACAGTGCACAAAAAGCACAAGAGCAGCAGAAGAAGACAAGACTGCATCGCCAACCAGCACACATCCTCGATTTGTAAGTGGCCGCGAATTTGACACGCACAAAACCAATTCTAACATATTATAGTTGGTCCAAGATCGTTTTAATCAAACAATCTGCTCATCAGAGCGATGCCAATTGA

>PSC70- FG3G13030

MCLPCFPWTWTKVEDPYDEMHKAPDQSVWVHDGQGWELQKLKEPIMASAGANPLKSPKTPRRPKTPESRQVHFEPETKPATTSAFARDFNSGRITGYTSANSPSGGFSAGVNGVSAPKTPPGIKAAASTATATATAAVTSAPEQKIETQPTNFPALGLGANQLQWHISANPTQSLSYQLPGSVNFISPPPQAHQQHFFSPPQFHPASYISVGPNDIVNSPTPTPSPITYIGIGPQSPALTLNQASNMGDYQNAAPPVNGLHFQPPVPDTTFGPMQHVYVPRHDGGLAGLQVGAPASFNYVSAAPFAIAPSSSYTTVVVPKTYYLNGYTYYASSLSWLTVLLCLLHEFQPAIGSMAPQPSAYGGYVVQQQQQPYYVQQPTMGQQPVLIAGQLQQPQQQFVPQMQNVPGVPTVGLAGGTAVPGTVPVFAGNVPGGGGGGGHIPEVMGVGRTAGEEQLRQIKFAHANKLYEPQEFKPADDDPSRFYYVREVDGNWTQRNRFTIDHMGDSKWYVTDEGWFYAVRLPN**W**ARCHANHSAQKAQEQQKKTRLHRQPAHILDFWSKIVLIKQSAHQSDAN\*

>PSC71 FG4G02750

ATGAAGATTGCTGCGATCCTTTGTGCCTGTGGCCTTTTGCCTACAGCTGTGGTGGCTGAGTTCAATGGAAATCTGAACTATGCCAGTCCGTCTCGTCGTCATGATCGACTCGGTTTGAACGTTCCTCTAATCAAGCGCCGTTCCTTGAAACGGGGCAACACACCCTACGCTGCATCCCAACTCAACTTCACCCATGGCGTCGCCTCTGGAGATCCTTGGCCCGAAAGCGTTATCCTATGGACTCGCATTGCCCCTTCCCTTGATTCAAGTCTAAGTAACAACGCCGTAAACGGTACTGCTGGACTCTACAGCCACGAGACTGAGAAGTACATCAAGGCCGATCCTCACCCTATCTGCGTGGAATGGGTCGTCTCTGACTCCAACCTTTCTGTGGATCAAGGAAAGTCGGTGGCTAGCGGTCGGGCTTACACTACATCTGATATCGATTATACTATCAAGGTGAGAGCCAAAGGATTGCTCCATTGAACAAGGCTAACTCTTCCAGGTTGAAGCCGATAGCTTACAGCCTCTCACCACTTATTATTATCAATTTTCCGTCTGCGACTCGGACAACAAAAGCCCTGTCGGCCGTACAAAGACTGCTCCTACAGCGGACGACGACGTTTCCGATCTAAGCTTTGCAGTTTTCTCTTGCAGTAACTATCGTGAGTATTGCCCACCGCCTCCATCAGGCTCGTTCAAGTTTGAAATTCGCTGACCAGCCCAGCCAATGGTTACTTCAATGCTTATGGGAATGCGGCTAGAAAGGACGAGCATGACTATGTTATTCATTTGGGAGACTATATCTACGAGTATGGCAAACTTGGCGAAAGAGCCAGCAATCCCAAGTGGGAAATCCGTACGCTTCACGATTACCGAACTCGTCATGGACAGGTACGATCTCCGGACGACCGCTGTGTAAGCCGGACTCTCACATGTTACAGTACCGAACCGACCCAGATCTACAGCTTCTATCCAAAGATTTTGCTTGGATTCCAACTTGGGATGACCACGGTATGTTTACACTCTGTCAGGGGCGCCTATCTAACAACTATGCAGAGTTTGCAAACAATGGTTACAGAGATGGGTTTTCTGGCCTGAATAATACTGAGGACTCTTTTCTTAAATCCGGAAAGAAAGTCAGCGTCGATACTCGAAAAGTGAACGCTGTACGAGCTTACTTTGAGTGGATGCCTATCCGGTATGTTGTGAACTGGTGTCTTTGTGCTCGGCTTTTACTGATACTGTTTATAGCCAAACCGACTTGGACGATGGTCTCCGTGTATGGAGATCTTTCAAAATGGGCAAGCTCCTCGACCTCATCATTCTCGACACGCGAAACTATGACCGCAGTATCACTTCACTGGAATGGAACGATGAATATATCACAATGATCAGTGACGATCCCAGCCGAACACTCATGGGAAGTCGTCAAGAGAACTGGTTTTACAGATCTCTGAGCGAGTCCAAGGAGCGAGGTGCTACTTGGCGAATCGTTGGCAACCAAATCATCTTTTCACGTATCACTGAGAATTATGGTTCCGGTGAGATTATTTCTGGTGATAATTGGAACGTAAGTTTCAAACTACAATACCTGTCTTTCTCGTTATCTGACTTTTGCAGGGCTACGTCGCGAACCGAAACCGAACTCTTGAGCATCTGTACAACAACGACATTAACAACAATGTGTTCCTCGCTGGTGACAGCCACCAGAACTGGGTATGTCTGACTCTACGCTGTTGGATATCAACTAACATACTTTAGGTCTCGGACCTCGTCTGGCTGGGAACCAAGGAATACGACAACAAGACTGGCGCCGGAAGCATCGGAGTTGAGTTTGCTGGAACCGCTGTCAGTTCTAGTGGTATCGACGGTCCAATCGAGCCCACGGCCGGTAAATCCTCTCGATCTAGAGTTGAAAAGAACCCCGAGCTGCAATGGCAGGAAGGCTACTACCGTGGATACTTCATCCTCGACGTCAATTCCAAGAATGTCACATCTCGATTCTACGGTGAGTTCCCAACTTGGATGTCAAGGCAGTTTCACTAATATTTTCAGGTTCCCCCTCTGTCGCTACCCGTAACTCGTGGGACATTCCTTTGGCCAACTTCACTGTCGTTTCTGGTGAGAACCATCTCAAGCGACCTGTTGCCGGCGGTCGTGCAGAGTCTGGTGCTCTTCGTTATGGGGAAATCACTCACACCAACGTTAGTCTCAACACCGAGACTGGAGAGTGGAACAACACTGGCTTTGCGAAGATGTATGTAGACATTCCTAAGGAA**TAG**AGTAGTCTTTATGGAAGTAAAAGTCTGAAGGAAACCGCTTTTGGGAAGAATCTTTAG

>PSC71 FG4G02750

MKIAAILCACGLLPTAVVAEFNGNLNYASPSRRHDRLGLNVPLIKRRSLKRGNTPYAASQLNFTHGVASGDPWPESVILWTRIAPSLDSSLSNNAVNGTAGLYSHETEKYIKADPHPICVEWVVSDSNLSVDQGKSVASGRAYTTSDIDYTIKVEADSLQPLTTYYYQFSVCDSDNKSPVGRTKTAPTADDDVSDLSFAVFSCSNYNGYFNAYGNAARKDEHDYVIHLGDYIYEYGKLGERASNPKWEIRTLHDYRTRHGQYRTDPDLQLLSKDFAWIPTWDDHFANNGYRDGFSGLNNTEDSFLKSGKKVSVDTRKVNAVRAYFEWMPIQTDLDDGLRVWRSFKMGKLLDLIILDTRNYDRSITSLEWNDEYITMISDDPSRTLMGSRQENWFYRSLSESKERGATWRIVGNQIIFSRITENYGSGEIISGDNWNGYVANRNRTLEHLYNNDINNNVFLAGDSHQNWVSDLVWLGTKEYDNKTGAGSIGVEFAGTAVSSSGIDGPIEPTAGKSSRSRVEKNPELQWQEGYYRGYFILDVNSKNVTSRFYSPSVATRNSWDIPLANFTVVSGENHLKRPVAGGRAESGALRYGEITHTNVSLNTETGEWNNTGFAKMYVDIPKE**W**SSLYGSKSLKETAFGKNL\*