Gene/protein ID and description	Sequence	Pfam domains
MFS40622_RS06240_fs_MFS40622_RS06245 – fs-chID gene with validated frameshifting signal from <i>Methanocaldococcus sp. FS406-22</i> (2039 bp)	ATGCAGTATATTTATCCATTCACTGCAATCGTTGGACAGGAAAAGATGAAGAAGACTTTAATTCTAAATGCTATAAATCCAAAGATTGGTGGAGTTTTAATTAGGGGAGAAAGGACACC AAAATCCACTGCAGTTAGAGCTTTAGCTGATTTATTGCCAGAGATTGAAGTTGTTGAAGGATCCCCATTCAACTCCGACCCAATTGGAGCTTGTTGATATCTGCAAAGAAAAGAAAG	
MFS40622_RS06240 – the short product from the fs-chID gene (362 aa)	MQYIYPFTAIVGQEKMKKALILNAINPKIGGVLIRGEKGTAKSTAVRALADLLPEIEVVEGCPFNCDPNGELCDICKEKKERGELKVTKKKMKVVNLPIGATEDRVIGTLDIEKAIKEGIKA LEPGILAEANRNILYIDEVNLLDDHIIDVLLDVAAMGWNIIEREGVKIKHPSRFILVGTMNPEEGELRPQILDRFGLMVDVEGLNDVKDRVEVIKRVEEFNNNPEEFYKKFEEEQKKLREKI IKAREILNKVEISDELLEFISKVCIELGIQTNRADITVVRTAKALAAYNGRTYVTIDDVKEAMELALPHRMRRKPFEPPQLNKEKLEQMINEFKQQKNNNEEEKEEQKNDDV KK NMMK	
MFS40622_RS06240_fs_MFS40622_RS06245 – the long product from the fs-chID gene (679 aa)	MQYIYPFTAIVGQEKMKKALILNAINPKIGGVLIRGEKGTAKSTAVRALADLLPEIEVVEGCPFNCDPNGELCDICKEKKERGELKVTKKKMKVVNLPIGATEDRVIGTLDIEKAIKEGIKA LEPGILAEANRNILYIDEVNLLDDHIIDVLLDVAAMGWNIIEREGVKIKHPSRFILVGTMNPEEGELRPQILDRFGLMVDVEGLNDVKDRVEVIKRVEEFNNNPEEFYKKFEEEQKKLREKI IKAREILNKVEISDELLEFISKVCIEIGIQTNRADITVVRTAKALAAYNGRTYVTIDDVKEAMELALPHRMRRKPFEPPQLNKEKLEQMINEFKQQKNNNEEEKEEQKNDDR KKK HDEIRNE FEEENEDSNNQNNNNNSNNQNEDTPGDFERTFGIDESFKVNPKLIQFKLKDNIHRYGSGRHIKSYSKRGRYVKFKLPKDKTSDIAFDATFRRAAIHQKRRREKSNKKLAIYLEKEDIVEKVR QRKISSHILFVVDVSGSMGAMRRMEAAKGAIISLLLDAYQKRNKIGMIAFRKDRAELILPFTSSVELGEKLLKDLPTGGKTPLADAFIKSYEVFDRELRKNPNIIPIMIVISDFKPNVAVKG DYVKEVFDACEKIAEKCINVILIDTEPQSFIKIGIGREIANRFGFKYYKIEELSEEKILDICKSLEINF	VWA_2
BAA17166.1 – Chll protein (small Mg-chelatase subunit) from <i>Synechocystis sp. PCC 6803</i> (357 aa)	MTATLAAPSKTRRVVFPFTAIVQQDEMKLALLLNVIDPKIGGVMIMGDRGTGKSTTIRALADLLPEIEVVANDPFNSSPSDPEMMSEEVRIRVDSQEPLSIVKKKVTMVDLPLGATEDRVCG TIDIEKALSEGVKAFEPGLLAKANRGILYVDEVNLLDDHLVDVLLDSAAGGWNTVEREGISIRHPARFVLVGSGNPEEGELRPQLLDRFGMHAEIRTVREPELRVKIVEQRTEFDQNPHPFC DQYQTEQEALQAKIVNAQNLLPQVTIDYDYRVKVSE VCAELDVDGLRGDIVTNRAAKALAAFEGRTEVTVDDISRVIVLCLRHRLRKDPLESIDSGSKVEKVFKRVFGVVDEA	
BAA16787.1 – ChID protein (medium Mg-chelatase subunit) from <i>Synechocystis sp. PCC 6803</i> (676 aa)	MTTLTPFIPLNFPITAIVQQEAIKLALLLGAIDPGLGGIVIAGRRGTAKSVMARAIHTLLPPIEIIKGNRYQCDPKNPGSWDDDTLEKFADVPLDQLETQVIPAPFIQIPLGVTEDRLLGSV DVEKSVKQGEAVFQPGLLAQAHRGVLYIDEINLLDDQIANQLLTVLTEGKNQIEREGMSFQHPCQPLLIATYNPEEGPLRRHLLDRIAIALSADGILGLDQRVAAVDQVLAYADSPISFIDQ YDAELDDLKTTIILAREWLKEVSLTPEQVSYLVEEAIRGGLQGHRGELFAMRVAKAIAALDGRSDVQADDLRQAVELVIVPRSVLMDNPPPPEQAPPPPPPPQNQDEGKDEQEDQQDDKEDD KDNEPEAEQDPPSIPEEFIFDPEGVSLDPSVLYFAQMAQKQGKSGSRSVIFSDDRGRYLKPILPKGKVRRIAVDATLRAASPYQKSRRLRHPDRQVIVEQGDIRGKKLVRKAGALIVFLVDA SGSMALNRMQAAKGAVMQLLTEAYENRDQVSLIPFQGENAEVLLPPTRSIAMAKKRLETLPCGGGSPLSHGLMQAVNVGMNAKRSGDIGQVVIVAITDGRGNIPLARSLGDEIPEGEKPDIK AELLEIAAKIRGLGMQLLVINTEKKFVSTGFGKELAQKAGGKYYQLPKATDQGIASMARQAIADMQ	VWA_2