**Supplementary Data**

**Primer sequences**

MC-pG-F gactcttagaacgactaggctttctg   
MC-pG-R GCGTAATCATGGTCATAGCTGTTTC (Tm 55oC, 1 min extension time)

MC-pG-F-II gtatcctcttctctccttgc   
MC-pG-R-II CTCTCCCATATGGTCGAC (Tm 50oC, 1.5 min extension time)   
  
CAT-FSS ACCTTGCCACTCGTCAC

CAT-F  GATATTTCTCAGTGGCATCGTAAG   
CAT-R  GCTCGTTAAGCATACGACCTAC (Tm 60oC ,1.5 min extension time)  
  
CAT-F-Nest CATCGTAAGGAACATTTCGAG   
CAT-R-Nest CGACCTACATGGAAACCATC (Tm 50oC, 1.5 min extension time)

Copy-F TGAGGCCAGCGTAAACCTTT

Copy-R CGTTCAACCACACTTTATACAG

**pAmpChl sequence**

1 ctaaattgta agcgttaata ttttgttaaa attcgcgtta aatttttgtt aaatcagctc

61 attttttaac caataggccg aaatcggcaa aatcccttat aaatcaaaag aatagaccga

121 gatagggttg agtggccgct acagggcgct cccattcgcc attcaggctg cgcaactgtt

181 gggaagggcg tttcggtgcg ggcctcttcg ctattacgcc agctggcgaa agggggatgt

241 gctgcaaggc gattaagttg ggtaacgcca gggttttccc agtcacgacg ttgtaaaacg

301 acggccagtg agcgcgacgt aatacgactc actatagggc gaattggcgg aaggccgtca

361 aggccacgtg tcttgtccgc ttaattaaga ttaagaacga ttagattacc ttccttatta

421 ttgggaacgt ttgaacgatg aattaaactc acagtaggcc cttcgggcgc ctttcgaacg

481 acgtattgac ctacctacct aagtagagat cgttgtggcg acgtatcaat acccgggtaa

541 acaggtacaa ctgttgtatg gttatcctgc aacacctctt agatgctaga atgagtccat

601 aaaggcttgg aatctccgct tgtagttatc tctggttagg taatagtgcc tttccttctt

661 tgagcctcct accgaaagtc aattcaacag cacagatgag tattattaag agctcaaaca

721 atgttgatca aagacgatcg aaggatacgg aagcgtagag aatagacaat cgggagacta

781 tcattagtcc tggacaaatg ttgtcagaca tgaggttgac caggtcattc ataggctctc

841 cggtcatttt gttccatctc taccccagta gagaaaaatc caggtcatat cataggagat

901 ggaactgaga gatcgagaga acgaagacag aaaggaggtg aaaggtagtt ggcatgttga

961 tctggcgagt cagaggcatc aaacaggaac gaaggtaata gaatgaatga taattgatga

1021 aacgacaatg aaagtcctct aaagaagagg caactaataa agatgaaaca tatctcgggg

1081 gtgcgcctaa gtcaggctaa gaaagcatca aacagataca accgctgggc aggtcaacaa

1141 gtgattaatc ctgatctaag gatgattacg acctgcggaa aggtggttac aatacctcat

1201 acctgtatga ctgatcggtg ctttaatcac accttgcaag ttgccaatta cattgagtag

1261 gcatctttaa tagcttgtag ggttcacacc gcagtctaaa ggtagaaagg tccaacaatc

1321 aggtcatgtg gcccagaaac cacgctggta acctgagacc ctacctccct tcggggatcc

1381 tatcaaatgg tctgtgtatt cagtccccgt cttacggagt gcttgtggcg gtggagtggc

1441 aggggtaggc aagtagtcga gtggtgagct gtaatggtgt atccgcgttt accttcctgg

1501 tacctcggtg cctcggtaag aagacgaact ctcgttagtg aggccagcgt aaaccttttt

1561 ccatatctat tatggaaaag aagatcaccg gttacacaac cgtagatatt tctcagtggc

1621 atcgtaagga acatttcgag gcattccagt ctgtagcaca gtgtacatat aaccagacag

1681 tacagcttga tatcaccgca ttccttaaga cagtaaagaa gaacaagcac aagttctacc

1741 cagcattcat ccatatcctt gcacgtctta tgaacgcaca tccagagttc cgtatggcaa

1801 tgaaggatgg tgagcttgtc atctgggatt ctgtacatcc atgttataca gtattccatg

1861 agcagacaga gacattctct tccctttggt ctgagtatca tgatgatttc cgtcagttcc

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2161 atggtttcca tgtaggtcgt atgcttaacg agcttcagca gtattgtgac gagtggcaag

2221 gtggtgcata gaatcaaccc ctttatccct ctctttggga ctcttagaac gactaggctt

2281 tctgattaac gatgatgtaa tattattaag aacgatggct agtaataatg cacgaaggcg

2341 cgccggagca caagactggc ctcatgggcc ttccgctcac tgcccgcttt ccagtcggga

2401 aacctgtcgt gccagctgca ttaacatggt catagctgtt tccttgcgta ttgggcgctc

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