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1           M K V Y H L S S H V D Q A G I
1 TTGCAATGTGGACCCAATGAAAGTGTACCATCTGTCTAGTCACGTGGACCAAGCCGGCAT
21 Y T T N I T I L E D T S K M K T C V C L
61 TTACACTACCAACATCACTATTCTAGAGGACACGTCCAAGATGAAAACGTGTGTGTGTTT
41 L L F V G V V F S D P T E Y F R E E F D
121 GCTCCTTTTTGTGGGAGTTGTCTTTTCAGACCCACAGAATACTTTAGGGAAGAGTTTCA
61 S E S W R D R W V E S T F K G A D Q G K
181 CTCGAAAGTTGGCGTGACAGATGGGTGGAGTCCACATTCAAGGGAGCAGACCAGGTAA
81 F A W T A G K F Y G D A D K D K G I Q T
241 ATTTGCCTGGACAGCTGGGAAGTTCTATGGAGATGCTGATAAAGATAAAGGTATCCAGAC
101 S Q D A K F Y G I S S K L E K P F S N E
301 CTCTCAGGATGCCAAATTCTATGGAATTTCTTCAAAGCTGGAAAAACCTTCAGCAATGA
121 G K P L V I Q F T V K H E Q N I D C G G
361 AGGCAAACCACTTGTTATCCAGTTCACAGTCAAGCATGAGCAAAACATTGACTGTGGGG
141 G Y I K L Y P K D L D Q K K L H G D S P
421 TGGATACATCAAGCTGTACCCCAAAGATCTCGACCAGAAAAAACTCCATGGAGACTCACC
161 Y F V M F G P D I C G P G T K K V I H V
481 ATACTTTGTCTATGTTTGGACCTGATATTTGTGGACCAGGCACCAAGAAGTAATTCATGT
181 I F N Y K G K N L L C K K E I R C K D D
541 CATCTTCAACTACAAAGGAAAGAACTTGCTTTGCAAGAAAGAAATCCGTTGCAAGGATGA
201 V F T H L Y T L V V N P D N S Y V V K I
601 TGTTTTCACACACTTGTACACTCTTGTTGTCAATCCTGATAACTCCTACGTGGTCAAGAT
221 D N E K V E S G Q L E E D W D F L P P K
661 CGATAATGAGAAAGTAGAGAGTGGTCAACTAGAAGAAGACTGGGACTTCCTGCCCCCAA
241 K I K D P E A K K P D D W D E R E K I D
721 GAAGATCAAGGACCCTGAAGCCAAGAAGCCCGATGACTGGGATGAGCGTGAGAAGATCGA
261 D P D D K K P E D W D K P E H I P D P D
781 TGACCCTGATGACAAAAAACAGAAAGACTGGGACAAGCCTGAGCACATCCCTGACCCAGA
281 A K K P D K W D D E M D G E W E P P Q I
841 TGCCAAGAAACCCGACGACTGGGATGATGAGATGGACGGAGAGTGGGAACCACCACAGAT
301 D N P D Y K G E W K P K Q I D N P D Y K
901 TGACAACCCAGATTACAAGGGAGAATGGAACCAAAACAGATCGATAACCCTGACTACAA
321 G K W V H P E I D N P E Y T P D S N L Y
961 AGGAAAGTGGGTCCACCCAGAAATTGATAACCCTGAATACACACCCGATTCCAACCTTTA
341 K Y D D I G A V G F D L W Q V K S G T I
1021 CAAATATGATGATATTGGAGCTGTTGGATTTGATCTCTGGCAGGTGAAATCTGGCACCAT
361 F D N I L V T D D E K Y A E E V G K K T
1081 CTTTGATAATATCTTGGTTACTGATGATGAAAAATATGCTGAAGAAGTTGGAAGAAAGAC
381 W G E T K D P E K K M K D E Q D E V E R
1141 GTGGGGAGAAACCAAGATCCAGAAAAGAAAATGAAGGATGAACAGGATGAAGTTGAGAG
401 K Q R E E E E K K R K E E E D K N K K D
1201 AAAACAGAGGGAAGAAGAAGAGAAGAAGAGGAAGGAGGAGGAAGATAAGAACAAAAAGA
421 D D D E E D E E D D D D E E K K E A K D
1261 TGACGATGATGAAGAAGATGAAGAGGATGATGACGATGAAGAGAAAAAGGAGGCAAAGGA
441 E L *
1321 TGAGTTATTAATGGACCAGCTGTGTTAGATCTTTAAAAAAACTCTTTGCAGCATATAGAC
1381 AACCAATTGGGCAACGTCATCTGACCTCTTCATTGCTCACTACACAATTCCATTACTCAC
1441 GACCATCCACTGATAAATGTGATTGAGTGACTGACTGTGTAATGTGTCTGAATGAGAAA
1501 GCGTAAATGAAGATGCTTGCATGTGAAGTGAAGTGTATGATGTTAGAAAGAATATTATTT
1561 TCTACTCCGGGGAATTATTTATTTTATCTATTTCATGACTTTTTTTTTTTTACAGCAGAT
1621 AGCTTTACTTAAAATTGTGTGAAAAATCAAAGTCAAGTTGCCCATTTTCATTTTCATTGT
1681 TACAGAAATTGGTATGTGTTGTTAAGTATGATTTATTCATTTGATTGAATAAAAGTGGGT
1741 TTTTATATGTAAAAA

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Supplementary Fig. 3. Full length *C. virginica calr* and deduced Calr amino acid sequence. Starting codon and amino acid M is in green and stop codon is in red.

Highlighted amino acid fragments with various colors show represent the β -sheet formatting amino acid residues with the color correlated to the β -sheets in Fig. 1c.