

Exon 1

A I G C G T G A A A A T C G T A A A G T T C G A C C C C T G T T T G C T T T G C T G C C C T C C A G C A A A G G C C T A C C C G T C T C T T C G C G A T G A A G A C G G G T C G A G A T A C G G A C C G G A C C G G A C T C G G G C T
M E R I

Intron 1

T C G G T G C C T G T C C G A C A T C G T T T G C A C C C G T T T G A C C C G T T T G C T T G A T C T C G A A T C T C G A T C G G G A A G G G A C A T A T C T G T T C C A C T T G T G T C C A C T T G C G A C C T T G C G A C C T T G C G A G A C

T10

Exon 2

A A C G A A A C A T T C T T G A T A G C A G A A G T G C C A G C T G C C T T C A C G T T G T G T C C T A C A C A G A T C C A A C T A A C A C G T T T A A C A G G T C C A C C T C C A C C T C C A G A C T G G C C A A T G C G T A C G G T T T C G C C C T A C T

Bi2a

Exon 3

C C G A A T C A A T C G A C C C C T A C A G G C C C C A G G C T C C G A G A A A C A A A C C T T A A A C T G A C A C G G G C T A T G G C A T A C A G G T T C T G T A A G T T T A T C T G A G C T A T A A A T A A C

G N Q I G A A F W

Intron 3

Exon 4

G C A T C T G G G C A A T C A G C T T G A A G T G A C A A A T T C T A A C C T A C T T C A C A G G C A G C A G A T C C C A G C G A G A C A G G I C T C G A C A G C A A T G G A G I G T A G G T T T C C G G T T T C G G A A G A G T C T A T T G T G G T G T A T A T

Intron 4

Exon 5

Q Q I S G E H G L D S N G V

C A I C T A A T A T G T T C T A T C A G G T A C A A C G G C A C G T C T G A G C T C C A G C T G G A G C G T A T G A G C G G T A T G A G C G G T A T C A A C G A G C C C T C G G C A A C A A G T A T G T G C C C C G C C G T C C T G T C G A T C T C G A G C C C G G C

Exon 6

Bi2b

A C A A T G G A T G C T G T G C G C C G C C T T T C G G A C A G C T C T T C C G G C C T G A C A A C T C G G C A A C A A C T G G C C A A G G G T C A C T A C A C G G A G G G T G C C G A G C T T G T G G A

T M D A V R A G P F G Q L F R P D N F V F G Q S G A G N N W A K G H Y T E G A E L V D

C C A G G T G C T C G A C G T C C G C C G G A G G C T G A C A G C C T C C A G G G T T C C A G A T C A C G C A C T C C C T G G G C G G T G C C G G T A T G G C A C C C T G C T A A T C T C C A A G A T C C G C G

Q V L D V V R R E A E S C D C L Q G F Q I T H S L G G G T G A G M G T L L I S K I R

A G G A G T T C C C C G A C C G G A T G A T G G C C A C G T T C T C G G T G A T G C C G T C G C C C A A G G I G T C G G A C C G G I T G T G G A G C C G T A C A C G G A C T C A T C G G T G C A C C A G C T G T G G A G A A C T C G G A C G A G A C

E E F P D R M A T F S V V P S P K V S D T V V E P Y N A T L S V H Q L V E N S D E T

G T T C T G T A T T G A C A A C G A G G C G T G T A C G A C A T C T G C A T G C T A C G T A C G T G A A C C C G T T A C G G C A A C C G G T C T A C G G C A C C A C C A C C T G G T G C G G C G G T G A I T G C G G G T G T G A C G A C G T G C C T G C G A T T

F C I D N E A L Y D I C M R T L K L P N P S Y G D L N H L V S A V M S G V T T C L R F

C C C G G C C A G C T G A A C T G C G A A G C T G C G G G T G A A C A I G G T G C C G C T C T C A T G T C G G C T T C C C G C G T G A C C A G C C G G G G T G C C A C T C G T T C C G G G C G A T T A C

P G Q L N S D L R K L A V N M V P F R L H F F M V G F A P L T S R R G S Y S F R A V T

G G T G C C G G A C C T G A C C A G A G A T G T T T G A C C C G A A G A A C A T G A T G G C G G C G T C A G A T T C C G C A C G G T C G C T A C C T G A C G T G C T C C C A I C T T C C C G C G C A A G G T G T C T A T G A A G G A G G T G G A G G

V P E L T Q Q M F D P K N I M A A S D F R N G R Y L T C S A I F R G K V S M K E V E

A C C A G A T G C G A A C G T G C A G A A C A A G A A C T C G T C G I A C T T T G T G G A G T G G A T C C C G A A C A A C G T G C A G A G G C G C I G T G C T C G A T C C C G C C G C G G C C T G A A G A I G T C G T C G A C G T T T G T C G G C A A C

D Q M R N V Q N K N S S Y F V E W I P N N V Q T A L C S I P P R G L K M S S T F V G N

T C G A C G G C G A T C C A G G A G C T G T T A A G C G C G T G G G C G A C C A G T C A C G G C C A T G T T C C G C G C A A G G C T T C C T G C A T G G T A C A C G G G T G A G G C A T G A G A T G G A G T T C A C G G A G C C G A G T

S T A I Q E L F K R V G E Q F T A M F R R K A F L H W Y T G E G M D E M E F T E A E

C C A A T G A A C G A T C T T G T C T C A G A A T A C C A G C A G T A C C A G G A T C C C G G T G T G A C G A G G A C G A G G A T G G T T G A G G A G C A C C A G A T A A

S N M N D L V S E Y Q Y Q D A G I D E E E E Y G V E E E V L E E H E *

Online Resource 2 Annotated map of the complete beta-tubulin gene of *Grosmanmia clavigera* (isolate kw1407), based on the genome sequence (GL629794) by Diguistini et al. (2011). The map was constructed by Yin et al. (2014) and the annotated sequence redeposited in Genbank as KP171179. Primers used for amplification in the study by Yin et al. (2014) are indicated with arrows. # indicates the position of intron 5 absent in *G. clavigera*, but present in some other species in the Ophiostomatales (De Beer and Wingfield 2013). * represents the stop codon.

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