

Fig. S1. Putative biosynthetic pathway of cembrane-derived polycyclic diterpene in nasute termite.

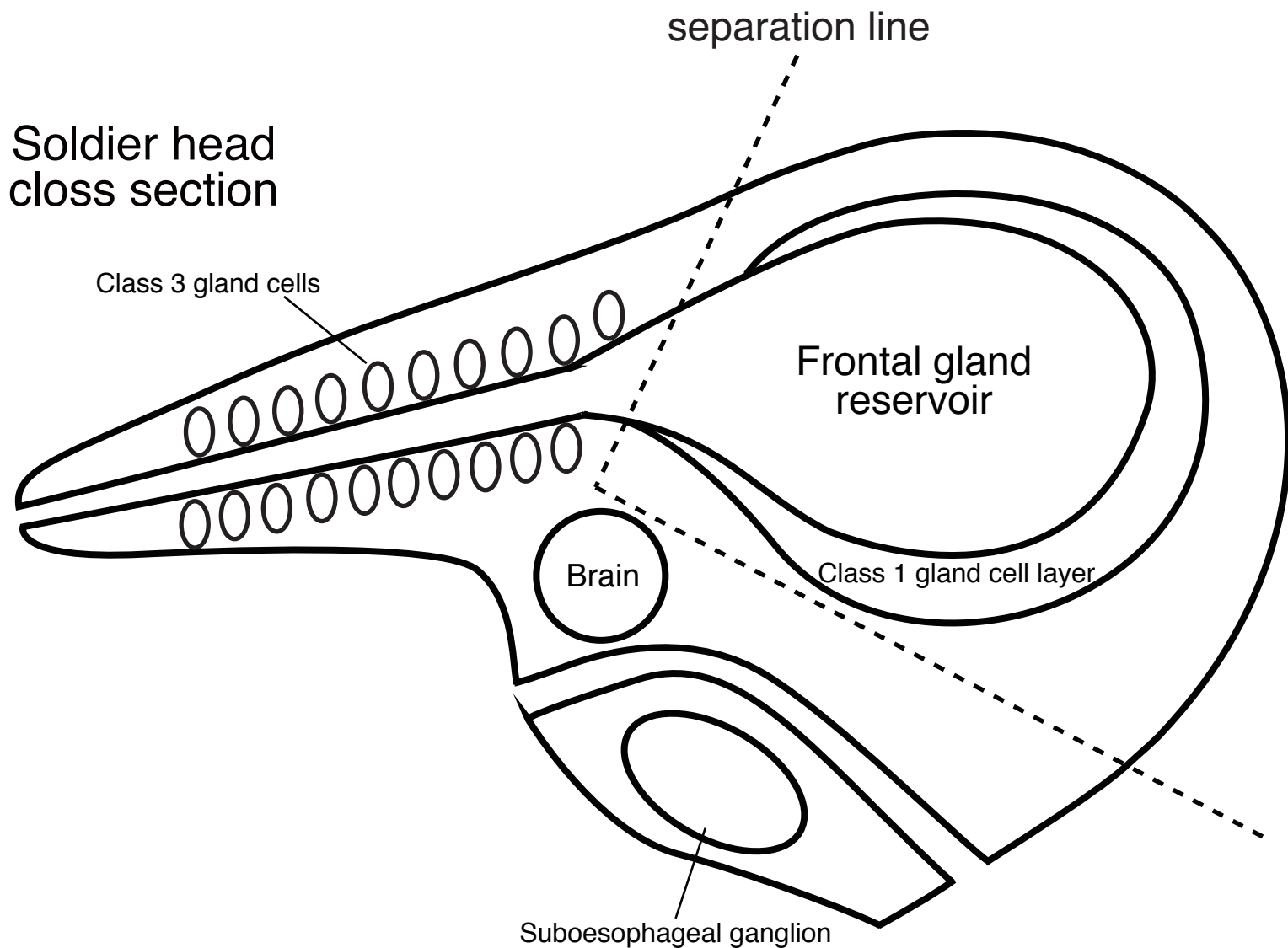


Fig. S2. Diagram of separation of soldier head used for RNA extraction for RNA-seq library construction.

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NiGGPPS2-B - - - - - t g g g a c g c a c
NiGGPPS3-B a t t t t t t t t a t t t t g t a c g t t g g t t t t g a a a t g c a g c g t g t c a g g t t g t t g g g a c g c a c
NiGGPPS4 - - - - - t g g a c g c a a
NiGGPPS5 - - - - - a t a c a g c t t g t t a g t t t g t t g g a a c g c a c
NiGGPPS6 - - - - -
NiGGPPS7 - - - - - t t t a t a t t t a a t t g t g a a g a c a a t a g t g c a t c a a g t t g c t g g g g t g c a t

NiGGPPS1-B t g g a a a t a t t t c c g t g t t g t g g c a a a a g g c a g t t c t a c g a a g g a a c g t a t t c a c g A T G G A
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NtGGPPS2-B t c c c g c a a t t a a t g t t a g t a c t c i t t a t g t g t g g c t - - - - -
NtGGPPS3-B t c c c g c a a t t a a t g t t a g t a c t g t t a t g t g t g g c t - - - - -
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NtGGPPS5 t g c c a c a a g t a a t g t c a g t a g t t t t c a t g t g t c g c t - - - - -
NtGGPPS6 t t t c a t g a g t a a t t t c a g t a g t t t t c a t g t g t a g c t - - - - -
NtGGPPS7 t g c c a c a a g t a - t c t c a a t a g t g t t c a t g t g t a g c t - - - - -

NtGGPPS1-B - - - - -
NtGGPPS2-B - - - - -
NtGGPPS3-B - - - - -
NtGGPPS4 t t t g a c t t t a a c c c t t a t c c t g t t a a c g t g g a g a a t a t a g t g a a c t c c t a a c a a t g c t a g
NtGGPPS5 - - - - -
NtGGPPS6 - - - - -
NtGGPPS7 - - - - -

NtGGPPS1-B - - - - t g c a a a t t a a t a t t - a t c t g t t a t t t t g a - c t t t a a t g g t t g c t c a g a a c a t g a t
NtGGPPS2-B - - - - t c c a a a t t a a t a t t t a t c t g t t a t t t t g a - g t t t a a t g g t t g c t g a a a c a t g a t
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NtGGPPS6 - - - - - g g t g g c t a a t t c a t a t c t t c a t t g t t a t t t t t t g g t t c a a g a a g a a - - - - -

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NiGGPPS2-B a a g a g a t t g t g a c a t g c a t t t g t t t a c a t g t t t g t c c a g c a t g g g c a t t t t t t a t g g t g c
NiGGPPS3-B a a g a g a t t g t g a c a t g c a t t t g t t t a c a t g t t t g t c c a g c a t g g g c a t t t t t t a t g g t g c
NiGGPPS4  a a g a g a t t g t g a c a t a c a t t t g t t t a c a t g t g t g t c c a g c a t g g g c a t t t t t t a t g g t g c
NiGGPPS5  - - - - -
NiGGPPS6  - - - - -
NiGGPPS7  a c a a g a t t g t g g g a a a t g t a t g c t c a c a t g t t t g t g c a g t t t g g g c a t t t t t c a t g g t g c

NiGGPPS1-B c c a c t c c a t a t a a t a t t t g t t a c t g a a t g t g a t t c t t t t a t g t a a a a a a t a t g t t a a a
NiGGPPS2-B c c a c t c a a t a t a a t a t t t g t t a c t g a a t g t g a t t c t t t t a t g t c a a a a a a t a t a t t a c t
NiGGPPS3-B c c a c t c a a t a t a a t a t t t g t t a c t g a a t g t g a t t c t t t t a t g t c a a a a a a t a t a t t a c t
NiGGPPS4  c c a c t c c a t a t a a t a t t t g t t a c t g a a t g t g a t t c t t t t a t g t c a a a a a a t a t g t t a a t
NiGGPPS5  - - - - -
NiGGPPS6  - - - - -
NiGGPPS7  c c a c t a c a t g c a t t a t t t g t t a t t a a a t t t t a t c c a c t - - - - -

NiGGPPS1-B g a c c c a g a g c a g a t t t g t t g c a g a t t t t a c c a t a a t g t t t c t c t a t t c c t t g a a t g t t t
NiGGPPS2-B g a c c c a g a g c a g a t t t g c t g c a g a t t t g t a c c a t a a t g t t t c t c t a t t c a t t g a a t g t t t
NiGGPPS3-B g a c c c a g a g c a g a t t t g c t g c a g a t t t g t a c c a t a a t g t t t c t c t a t t c a t t g a a t g t t t
NiGGPPS4  g a c c c a g a g c a g a t t t g c t g c a g a t t t a t a c c a t a a t g t g t c t c t a t t c - - - - -
NiGGPPS5  - - - - -
NiGGPPS6  - - - - -
NiGGPPS7  - - - - -

NiGGPPS1-B a g a a g g c c a t t c t t a a a a g t g t c a t g g g c a g t g t g c a t t t a t c a g t a t g a t g t c a c a t t t
NiGGPPS2-B a g a a g g c c a t t c t t a a a a g t g t t g t g g c c a t t g t g c a t t t a t c a g t a t g a t g t c a c a t t t
NiGGPPS3-B t g a a g g c c a t t c t t a a a a g t g t t g t g g c c a t t g t g c a t t t a t c a g t a t g a t g t c a c a t t t
NiGGPPS4  - - - - -
NiGGPPS5  - - - - -
NiGGPPS6  - - - - -
NiGGPPS7  - - - - -

NiGGPPS1-B t t a t a g g c a t t c c t a a t g t g g a a t t c a t c c a a a t t a t t t t a g g t g a g a g c a t g g t a a a a t
NiGGPPS2-B t t a t a g g c a t t c c t a a t g g g g a a t t c a t c c a c a t t a t g t t t t g t g a g a g c a t g g t a a a a t
NiGGPPS3-B t t a t a g g c a t t c c t a a t g g g g a a t t c a t c c a c a t t a a g t t t t g t g a g a g c a t g g t a a a a t
NiGGPPS4  - - - - -
NiGGPPS5  - - - - -
NiGGPPS6  - - - - -
NiGGPPS7  - - - - -

NiGGPPS1-B t g a c c a a t t t g t c a a t a a a g a a t g c c t t g t a a t g g a a t g g t a t t a t t t g t c a t t c c t g a g
NiGGPPS2-B t g a t c a t t t t g t c c a t a a a g a g t g c c t t g t a a t g g a a t g g t a t t a t t t g t c a c t c c t g g g
NiGGPPS3-B t g a t c a t t t t g t c c a t a a a g a g t g c c t t g t a a t g g a a t g g t a t t a t t t g t c a t t c c t g g g
NiGGPPS4  - - - - -
NiGGPPS5  - - - - -
NiGGPPS6  - - - - -
NiGGPPS7  - - - - -

NiGGPPS1-B a g c a t t c t a c a a c t g t a g t t c c t g t c t g a c a t t t g t t t c t t t a c t g t a a g a a a t t t t g
NiGGPPS2-B c a c a t t c t a c t a c t g t a a g t g c c a t c t a a g t a t t a c a g g g t a t a a a g t g c t a t g t t t g a c
NiGGPPS3-B c a c a t t c t a c t a c t g t a a g t g c c a t c t a a g t a t t a c a g g g a a t a a a g t g c t a t g t t t g a c
NiGGPPS4  - - - - -
NiGGPPS5  - - - - -
NiGGPPS6  - - - - -
NiGGPPS7  - - - - -

NiGGPPS1-B t g t t a a t g g a t a a c c a g g a a t t g c a a t a t t t t c a c t g a t g t g a a g a g g g g t t g g t a c t g c
NiGGPPS2-B a t t g g c a g g a c c g t g c a t c a t c a t t t a a t a a a a t c a g a a t t g t c c c t - - - - -
NiGGPPS3-B a t t g c - - - - -
NiGGPPS4  - - - - -
NiGGPPS5  - - - - -
NiGGPPS6  - - - - -
NiGGPPS7  - - - - -

NiGGPPS1-B a c a t t g c a a a g t t g c a t g c a c c a a c c t a g t a a t g t g c a a a t t a g a a t a g c a t g a t a t a t t
NiGGPPS2-B - - - - -
NiGGPPS3-B - - - - -
NiGGPPS4  - - - - -
NiGGPPS5  - - - - -
NiGGPPS6  - - - - -
NiGGPPS7  - - - - -

NiGGPPS1-B g c t g t a c a t t c a t a a g t a a a a g a a a a t a t g t g t
NiGGPPS2-B - - - - -
NiGGPPS3-B - - - - -
NiGGPPS4  - - - - -
NiGGPPS5  - - - - -
NiGGPPS6  - - - - -
NiGGPPS7  - - - - -

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Fig. S3. Nucleotide sequence alimnt of GGPPS genes of *N. takasagoensis*. Forward and reverse primers are underlined and double-underlined, respectively. Capital letters and small capital letters indicate the sequences of coding regions and untranslated regions, respectively. Asterisks indicate the sequences of start and stop codon.

