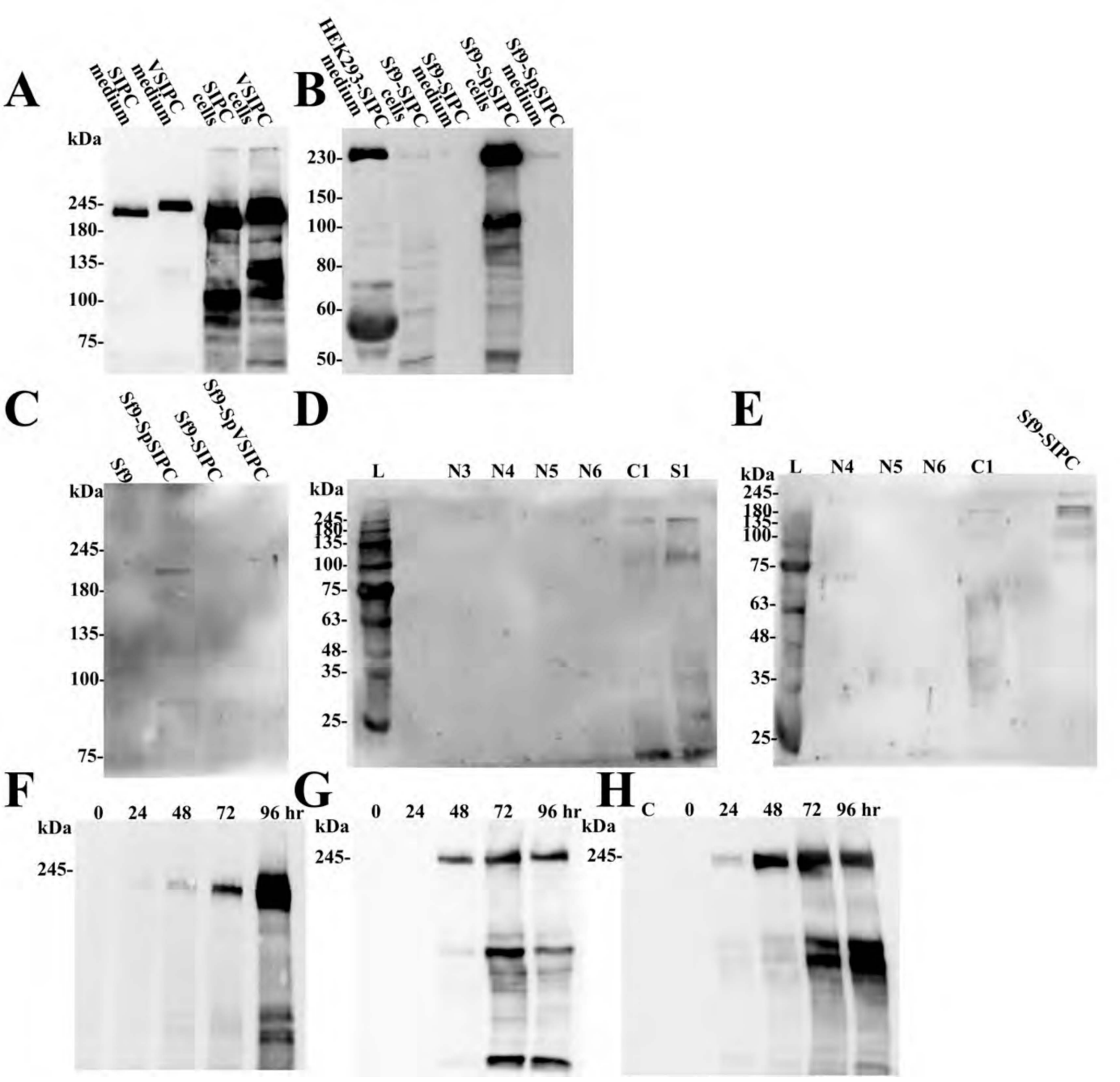

Fig. S1: Expression of recombinant SIPC from *A. amphitrite*.

A: Recombinant SIPC and VSIPC are secreted by HEK293 cells. Gel loading and Western blots conditions are identical to Fig. 1A. A typical image of several blots (n=4) is shown.

B: An engineered signal peptide in recombinant SIPC (SpSIPC) results in secretion of SIPC by insect Sf9 cells. Gel loading and Western blots conditions are identical to Fig. 1A. A typical image of several blots (n=3) is shown.

C: Detection of recombinant SIPC with a rabbit anti-SIPC polyclonal antibody. Each lane contains 20 µl of Sf9 cell culture medium. A typical image of several blots (n=3) is shown.

D: Detection of native SIPC, in extracts from *A. amphitrite* different developmental stages, with a rabbit anti-SIPC polyclonal antibody. Each lane contains 10 µg of total cellular protein from different developmental stages of this species. A typical image of several blots (n=3) is shown. N3 to N6: Nauplii stage 3 to stage 6, C1: Cyprid day 1, S1: Settled day 1, L: Protein Ladder.

E: Native SIPC has a MW similar to recombinant SIPC. Each lane contains 10 µg of total cellular protein from different developmental stages of *A. amphitrite* or 20 µl of Sf9 cell culture medium. A typical image of several blots (n=3) is shown. N4 to N6: Nauplii stage 4 to stage 6, C1: Cyprid day 1.

F: Time course of expression of recombinant SpSIPC by Sf9 cells after infection with recombinant SpSIPC-expressing baculoviruses. Each lane contains 10 µg of total cellular protein from Sf9 cells.

G: Time course of expression of recombinant VSpSIPC by Sf9 cells after infection with recombinant VSpSIPC-expressing baculoviruses. Each lane contains 10 µg of total cellular protein from Sf9 cells.

H: Time course of secretion of recombinant VSpSIPC from Sf9 cells after infection with recombinant VSpSIPC-expressing baculoviruses. Each lane contains 20 µl of Sf9 cell culture medium. Western blots were probed with an anti-myc antibody and a typical image of several blots (n=3) is shown.

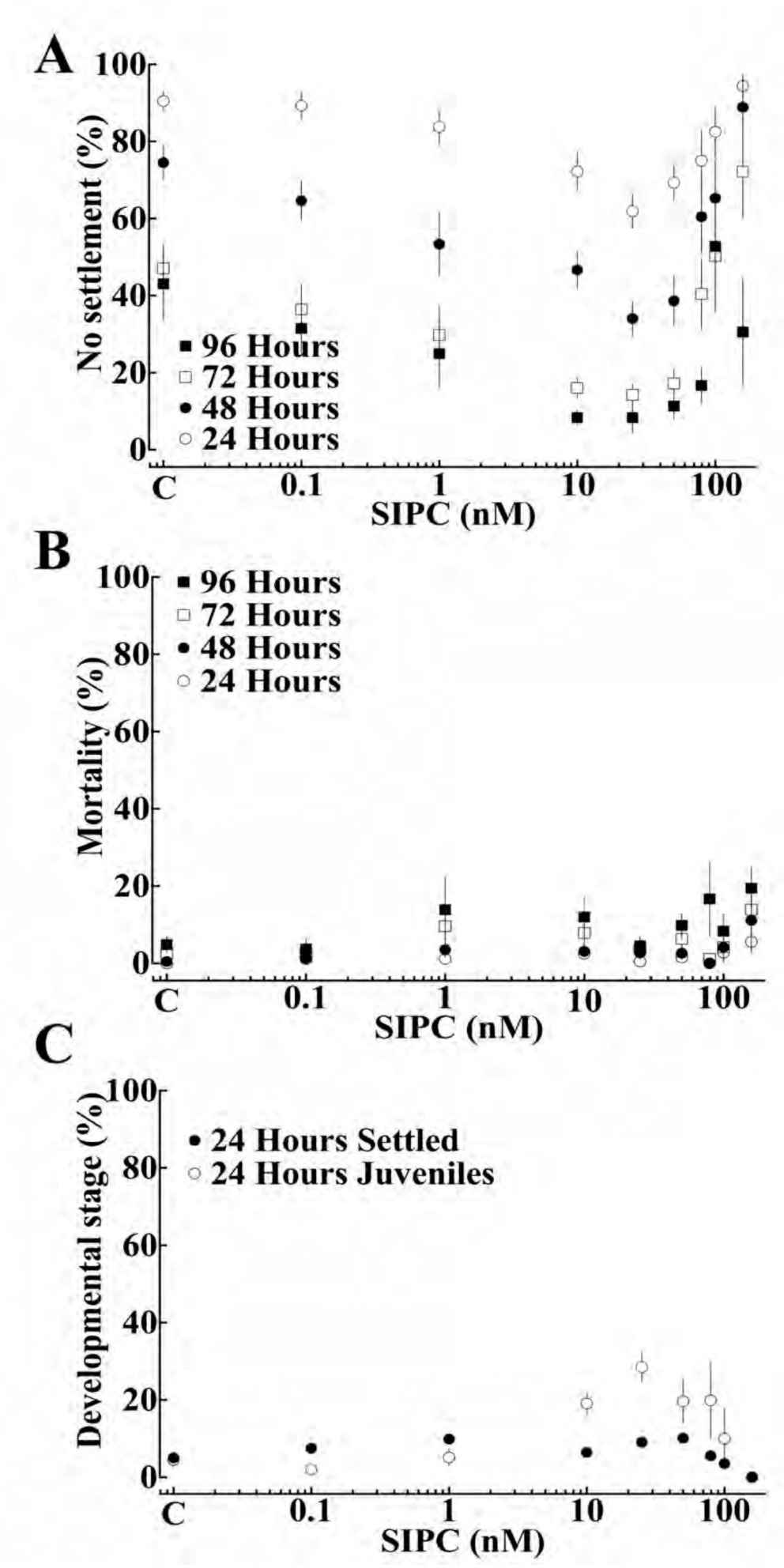

Fig. S2

A: High concentrations of recombinant SIPC induce settlement avoidance by *A. amphitrite* cyprids. Values are expressed as the percentage of animals that settled from the total number of animals placed in a well of a 24-well tissue culture plate. The cumulative results from 3 independent experiments with 5 replicates each is shown. See statistical analysis in legend of Figure 2A.

B: Recombinant SIPC does not have any effect on mortality of *A. amphitrite* cyprids in settlement assays. Values are expressed as the percentage of animals that settled from the total number of animals placed in a well of a 24-well tissue culture plate. The cumulative results from 3 independent experiments with 5 replicates each is shown. Results of one-way ANOVA with the Tukey's multiple comparisons test between matched observations for the various time points revealed no statistical significance between the datasets ($p=0.0753$). Results of one-way ANOVA with the Bonferonni's multiple comparisons test between control and the various concentrations of recombinant SIPC (SpSIPC) revealed no statistical significance ($p>0.05$) in all 4 tested time points.

C: Recombinant SIPC induces settlement and concomitant metamorphosis within 24 hrs in *A. amphitrite* cyprids. Values are expressed as the percentage of animals that settled from the total number of animals placed in a well of a 24-well tissue culture plate. The cumulative results from 3 independent experiments with 5 replicates each is shown. Results of unpaired, one-tailed t-tests between the percentages of settled and metamorphosed animals revealed that SpSIPC did not induce metamorphosis of the animals within 24 hrs ($p=0.06$).

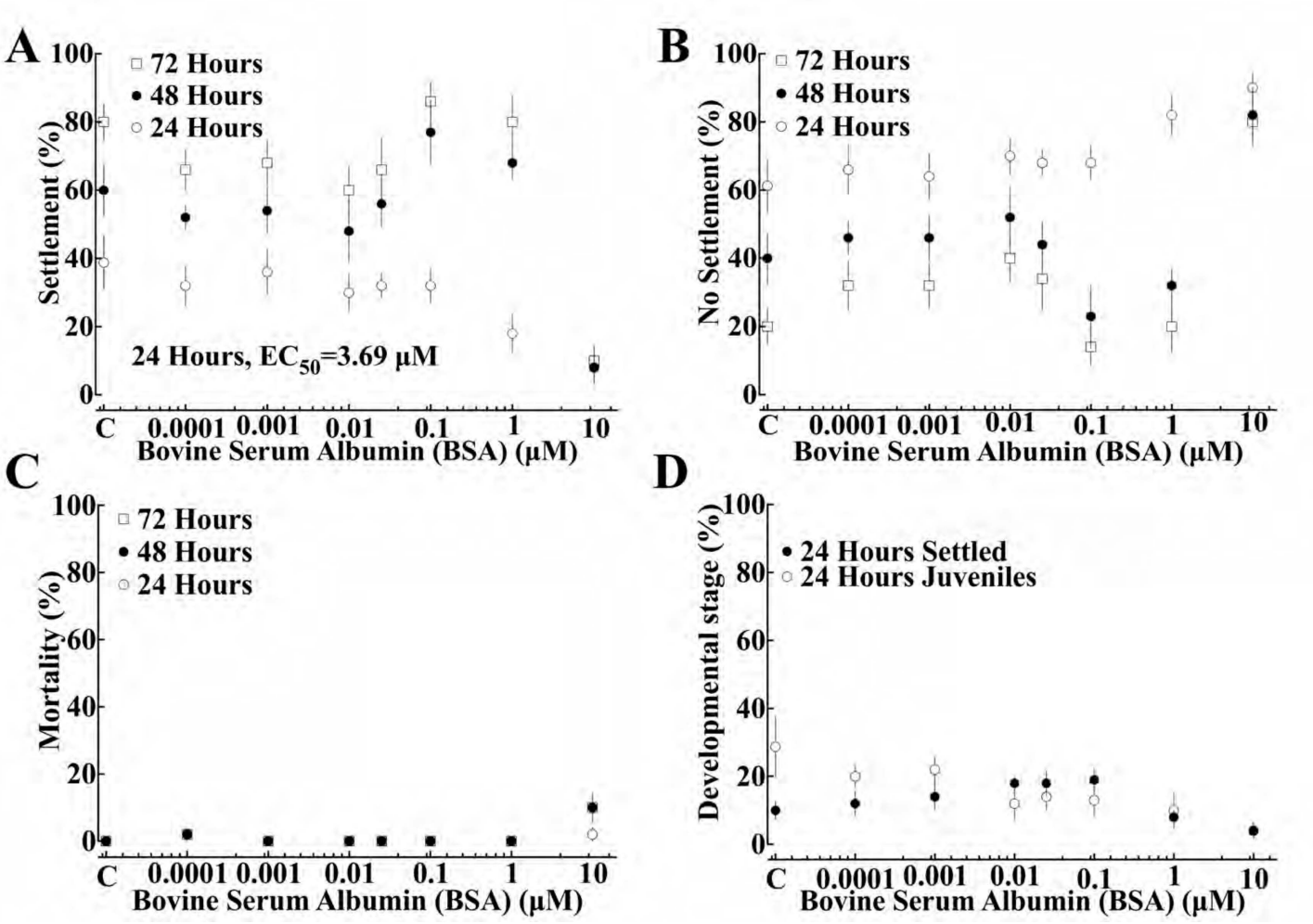

Fig. S3

A: Effect of Bovine Serum Albumin (BSA) on settlement behaviour of *A. amphitrite* cyprids. Values are expressed as the percentage of animals that settled from the total number of animals placed in a well of a 24-well tissue culture plate. The cumulative results from 3 independent experiments with 5 replicates each is shown. Results of one-way ANOVA with the Tukey's multiple comparisons test between matched observations for the various time points revealed statistical significance between all datasets ($p<0.05$). Results of one-way ANOVA with the Bonferonni's multiple comparisons test between control and the various concentrations of BSA revealed that BSA inhibited settlement only at a concentration of 10 µM and at 48 and 72 hrs.

B: Only concentrations of 10 μM of Bovine Serum Albumin (BSA) inhibit settlement of *A. amphitrite* cyprids. Values are expressed as the percentage of animals that settled from the total number of animals placed in a well of a 24-well tissue culture plate. The cumulative results from 3 independent experiments with 5 replicates each is shown. Results of one-way ANOVA with the Tukey's multiple comparisons test between matched observations for the various time points revealed statistical significance between all datasets ($p<0.05$). Results of one-way ANOVA with the Bonferonni's multiple comparisons test between control and the various concentrations of BSA revealed that BSA inhibited settlement only at a concentration of 10 μM at 24, 48 and 72 hrs.

C: Bovine Serum Albumin (BSA) does not have any effect on mortality of *A. amphitrite* cyprids in settlement assays. Values are expressed as the percentage of animals that settled from the total number of animals placed in a well of a 24-well tissue culture plate. The cumulative results from 3 independent experiments with 5 replicates each is shown. Results of one-way ANOVA with the Tukey's multiple comparisons test between matched observations for the various time points revealed no statistical significance between all datasets ($p>0.05$). Results of one-way ANOVA with the Bonferonni's multiple comparisons test between control and the various concentrations of BSA revealed that BSA increased mortality rates of cyprids only at a concentration of 10 μM and at 48 and 72 hrs.

D: Bovine Serum Albumin (BSA) does not have any effect on settlement and concomitant metamorphosis within 24 hrs in *A. amphitrite* cyprids. Values are expressed as the percentage of animals that settled from the total number of animals placed in a well of a 24-well tissue culture plate. The cumulative results from 3 independent experiments with 5 replicates each is shown. Results of unpaired, one-tailed t-tests between the percentages of settled and metamorphosed animals revealed that BSA did not promoted metamorphosis of the animals within 24 hrs ($p=0.225$).

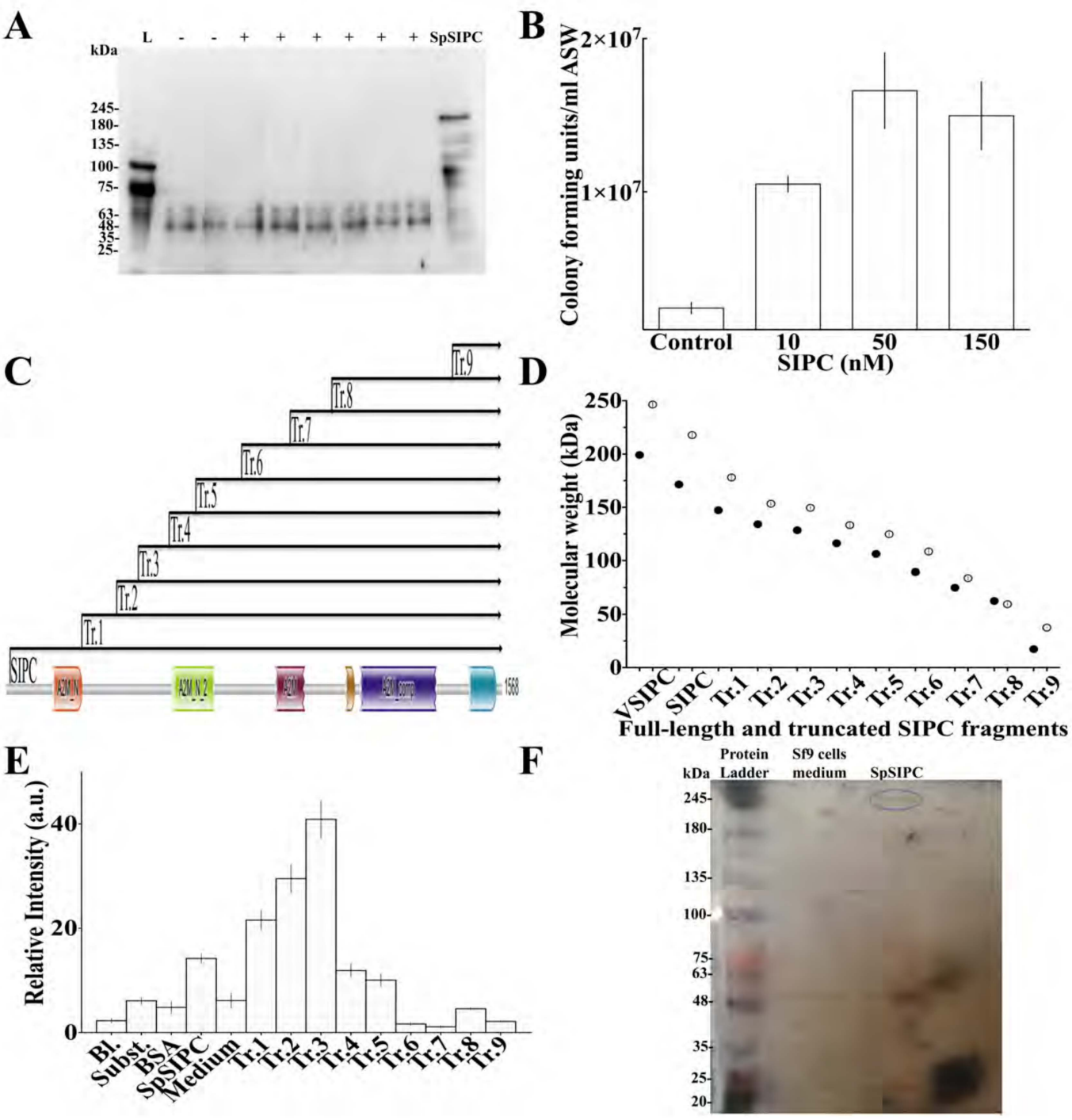

Fig. S4

A: Native SIPC is not an ASW-diffusible moiety. Trichloroacetic acid (TCA)-precipitated proteins from wells of tissue culture plates used in behavioural bioassays were resolved in 8% SDS-PAGE gels and Western blots were carried out with a mouse anti-SIPC monoclonal antibody as described in the Methods section. For each lane the (+) symbol indicates wells that contained 10 cyprids/2 ml of ASW and the (-) symbol indicates wells that contained no cyprids of *A. amphitrite*. An unknown protein of ~ 48 kDa immunoreacts with the mouse anti-SIPC monoclonal antibody. The supernatant of Sf9 cells expressing SpSIPC (20 µl) was used as a positive control. A typical image of several blots (n=3) is shown.

B: Bacterial growth in ASW used in behavioural bioassays in the presence or absence of recombinant SIPC. The spread plate counting technique was used to identify bacterial growth in behavioural bioassays in the absence or presence of the indicated concentrations of SIPC. Results are expressed as colony forming units/ml of ASW. ANOVA analysis showed that bacteria introduced by cyprids do not affect the behavioural response of the cyprids to SIPC ($p>0.05$). The cumulative results from 2 independent experiments with 3 replicates each is shown.

C: Graphical representation of the pfam domains present in SIPC and the various truncated SIPC fragments. Pfam domains were visualized via HMMER at https://www.ebi.ac.uk/Tools/hmmer/search/phmmer and the length of the truncated SIPC fragments in shown.

D: Calculated (closed circles) and apparent (open circles) MW of SIPC and its truncated fragments quantified by western blots. Western blots were probed with an anti-myc antibody and the cumulative data from several blots (n=3-7) is shown.

E: Adhesive properties of recombinant SIPC and truncated SIPC fragments to the surface of polystyrene tissue culture plates used in behavioural bioassays. Sterile tissue culture plates were incubated at 25 °C for 24 hrs empty (Bl.) or with 0.3 ml of BSA (10 µM), SpSIPC (50 nM), HEK293 cell culture medium (medium) or purified truncated SIPC fragments (Tr.1 to Tr.9, 50 nM each). Solutions were then aspirated and western blots were carried out on the wells with a Myc-Tag (9B11) mAb (Cell Signaling Technology) as described in the Methods section. In a set of wells (Subst.) only LumiGLO® chemiluminescence reagent was added. A typical image of several experiments (n=3) is shown. Acquired high resolution images were analysed with ImageJ 1.48v (NIH, USA) and data was exported and statistically analysed with GraphPad Prism v.6. Results are expressed as arbitrary units (a.u.) of relative intensity as determined by the ImageJ 1.48v software.

F: Purified recombinant SIPC is a high molecular weight protein. An SDS-PAGE gel was silver stained (see Methods section) and a band (denoted by a circle) was excised and subjected to LC-MS/MS. See ProteomeXchange Consortium dataset identifier PXD006858 and 10.6019/PXD006858 for detailed results.

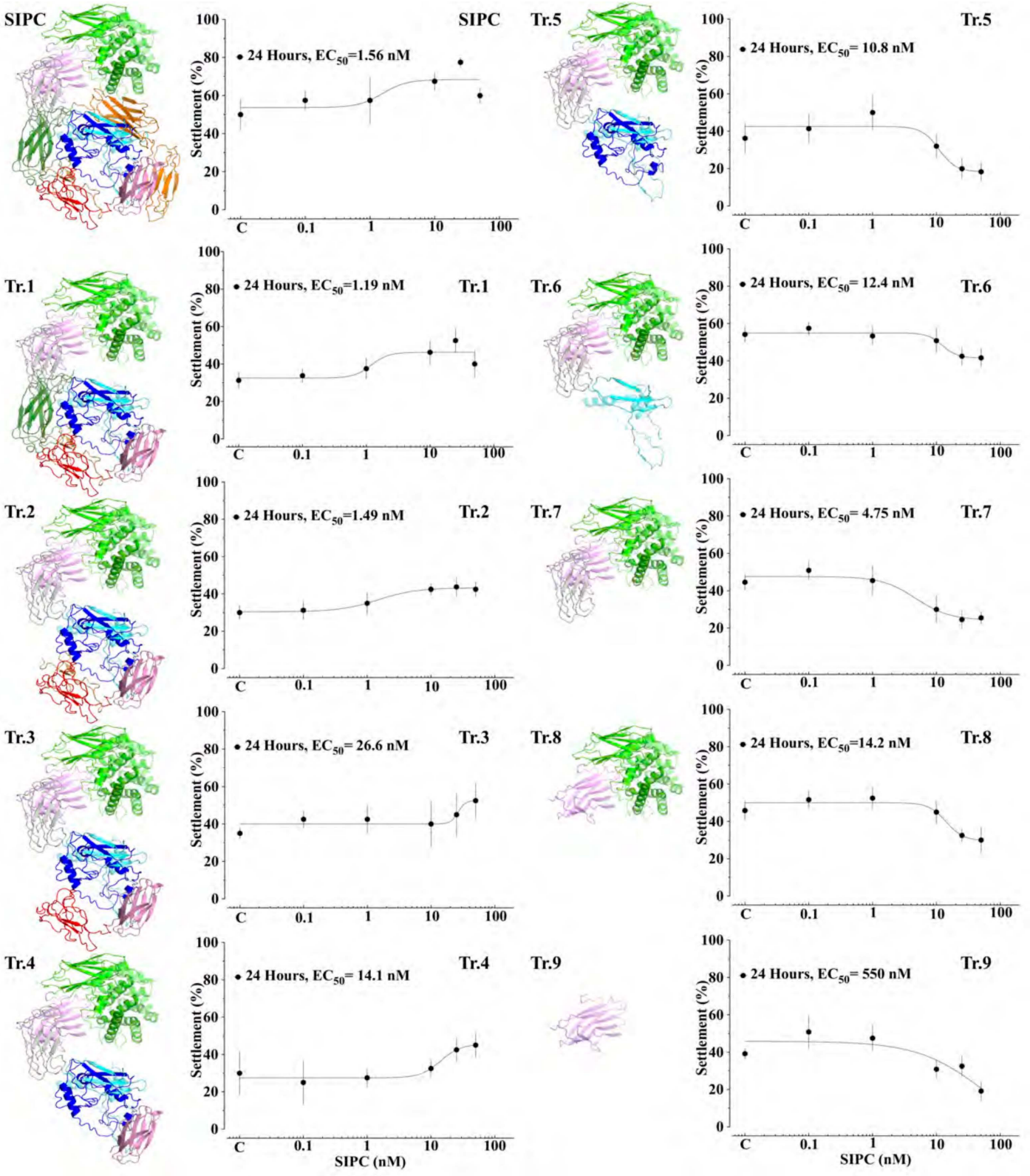

Fig. S5

Recombinant truncated SIPC fragments transduce gregarious settlement preference or settlement avoidance behaviour by *A. amphitrite* cyprids. Values are expressed as the percentage of animals that settled from the total number of animals placed in a well of a 24-well tissue culture plate. The cumulative results from 2 independent experiments with 4 replicates each is shown. On the left of each graph, the crystal structure simulation of SIPC or its truncated fragments is shown for visual clarity.

Table S1: Alignment of the open reading frame from 3 cDNA sequences of A. amphitrite SIPC using the multiple sequence alignment software MAFFT at http://www.ebi.ac.uk/Tools/msa/mafft/. Bold letters in red indicate the differences between the nucleotide sequences.

CLUSTAL format alignment by MAFFT FFT-NS-i (v7.215)

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Kotsiri et al SIPC      ATGGGTCGGCCATCGTGGTTCTACTGGTCGCTTTGGCGACGGCAAGCGCCGTCAAGGTC
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Zhang et al SIPC        ATGGGAT----------------------------------------CCGTCAAGGTC
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Kotsiri et al SIPC        GGTGTCTCAGGTGGAGGAGGCGCGGCGCCGCCTCAAGAGGATCAGGTGCGCGACTTCTTC
Dreanno et al SIPC        GGTGTCTCAGGTGGGGGTGGAGCAGCGCCGCCTCAAGAGGATCAGGTGCGCGACTTCTTC
Zhang et al SIPC          GGTGTCTCAGGTGGGGGTGGAGCAGCGCCGCCTCAAGAGGATCAGGTGCGCGACTTCTTC
                          **************.** ** **.************************************

Kotsiri et al SIPC        CCAGAGGCCTTCCTCTTCAGCATCGAGACACTAGATGCCGAGGGTGTGAAGACTGTCACC
Dreanno et al SIPC        CCAGAGGCCTTCCTCTTCAGCATCGAGACACTAGATGCGGAGGGTGTGAAGACTGTCACG
Zhang et al SIPC          CCAGAGGCCTTCCCCTTCAGCATCGAGACACTAGATGCGGAGGGTGTGAAGACTGTCACC
                          *************.********************** ********************

Kotsiri et al SIPC        TCCGAGATGCCGGACACCATCACCTCCTGGGTCGGATCAGCCATCTGCACCAACAGCAAG
Dreanno et al SIPC        TCCGAGATGCCAGACACCATCACCTCCTGGGTCGGATCAGCCATCTGCACCAACAGCAAG
Zhang et al SIPC          TCCGAGATGCCGGACACCATCACCTCCTGGGTCGGATCAGCCATCTGCACCAACAGCAAG
                          ***********.************************************************

Kotsiri et al SIPC        GACGGATTCGGCATCTCTAACAAGACCAGCATCACCACCTTCAAGCCGTTCTTCACAGAG
Dreanno et al SIPC        GACGGATTCGGCATCTCTAACAAGACCAGCATCACCACCTTCAAGCCGTTCTTCACCGAA
Zhang et al SIPC          GACGGATTCGGCATCTCTAACAAGACCAGCATCACCACCTTCAAGCCGTTCTTCACAGAG
                          ************************************************************ **.

Kotsiri et al SIPC        GTGTCTCTGCCGTACTCGATGAAGCGTGGCGAGATCCTGAGCATGTCCGTCAGCGTCTTC
Dreanno et al SIPC        GTGTCTCTGCCGTACTCGATGAAGCGTGGTGAGATCCTGAGCATGTCTGTCAGCGTCTTC
Zhang et al SIPC          GTGTCTCTGCCGTACTCGATGAAGCGTGGCGAGATCCTGAGCATGTCCGTCAGCGTCTTC
                          ****************************.****************.************

Kotsiri et al SIPC        AACTTCCTCGACTCGAGTCTCTCGGTTTACCTTGAAGTTGGTGCCTCTGACCAGTATGAG
Dreanno et al SIPC        AACTTCCTCGACTCCAGTCTCTCGGTTTACCTCGAAGTTGGTGCCTCTGACCAGTATGAG
Zhang et al SIPC          AACTTCCTCGACTCGAGTCTCTCGGTTTACCCTGAAGTTGGTGCCTCTGACCAGTATGAG
                          ************** ****************..**************************

Kotsiri et al SIPC        ATTAGCGGAGAGGTCGCCATGGGTCTCTGCATTGCCGCCGGTCGCACTGAAGTCAAGTCG
Dreanno et al SIPC        ATTAGCGGAGAGGTCGCCATGGGTCTCTGCATTGCCGCCGGTCGCACTGAGGTCAGGTCG
Zhang et al SIPC          ATTAGCGGAGAGGTCGCCATGGGTCTCCGCATTGCCGCGGGTCGCACTGAGGTCAGGTCG
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Kotsiri et al SIPC        TTCCCGGTCAACTTCCTGGGTCTGGGCGAGGTCAACATCACAGTCACGGCCAGGGCACAG
Dreanno et al SIPC        TTCCCGGTCAACTTCCTGGGTCTGGGCGAGGTCAACATCACAGTCACGGCCAGGGCACAG
Zhang et al SIPC          TTCCCGGTCAACTTCCTGGGTCTGGGCGAGGTCAACATCACAGTCACGGCCAGGGCACAG
                          ************************************************************

Kotsiri et al SIPC        GACGGATACTGCGACGAAGGCAACACCATCGCGCCGGGCAGTGACACCGTCATCCGACCA
Dreanno et al SIPC        GACGGATACTGCGACGAAGGCAACACCATCGCGCCGGGCAGTGACACCGTCATCCGACCA
Zhang et al SIPC          GACGGATACTGCGACGAAGGCAACACCATCGCGCCGGGCAGTGACACCGTCATCCGACCA
                          ************************************************************

Kotsiri et al SIPC        ATCGTCGTCAAACCAGAGGGATTCCCTCAAGAGGTGACCCACTCTCGCTTCATCTGTCTT
Dreanno et al SIPC        ATCGTCGTCAAACCAGAGGGATTCCCTCAAGAAGTGACCCACTCTCGCTTCATCTGTCTC
Zhang et al SIPC          ATCGTCGTGAAACCAGAGGGATTCCCTCAAGAAGTGACCCACTCTCGTTTCATCTGCCTC
                          ******** ***********************.**************.********.**.

Kotsiri et al SIPC        GACAAGGATGACGACCACCACACGGAGACTGTGAACCTGCCGGTGCCGGAAGGCCTGGTG
Dreanno et al SIPC        GACAAGGATGACGACCACCACACGGAGACGGTGAACCTGCCGGTGCCGGAAGGCCTGGTG
Zhang et al SIPC          GACAAGGATGACGACCACCACACGGAGACGGTGAACCTGCCGGTGCCGGAAGGTCTGGTA
                          ***************************** ***********************.******.

Kotsiri et al SIPC        CCCGACTCTCAGCGCGCCTACTTCTCCGTCATCGGAGATCTTCTGGGACCGACCTTCCAG
Dreanno et al SIPC        CCCGACTCTCAGCGCGCCTACTTCTCCGTCATCGGAGATCTTTTGGGACAGACCTTCCAG
Zhang et al SIPC          CCCGACTCTCAGCGCGCCTACTTCTCCGTCATCGGAGATCTTCTGGGACAGACCTTCCAG
                          ******************************************.****** **********

Kotsiri et al SIPC        GGTCTTGAGGGAGGTCTCATTAAGTCGCCTACCGGCGCCGGTGAGCCCAACATGATCACT
Dreanno et al SIPC        GGTCTGGAGGGAGGTCTCATTAAGTCGCCTACCGGCGCCGGTGAGCCCAACATGATCACT
Zhang et al SIPC          GGTCTTGAGGGAGGTCTCATTAAGTCGCCTACCGGCGCCGGTGAGCCCAACATGATCACT
                          ***** ************************************************************

Kotsiri et al SIPC        CTGGTGCCCAATATCTACATCCGTCGCTACCTGGAGACAACTGGTCAGCTCAACGAGCGT
Dreanno et al SIPC        CTGGTGCCCAATATCTACATCCGTCGCTACCTGGAGACAACTGGTCAGCTCAACGAGCGT
Zhang et al SIPC          CTGGTGCCCAATATCTACATCCGTCGCTACCTGGAGACAACTGGTCAGCTCAACGAGCGT
                          ************************************************************

Kotsiri et al SIPC        CAGAGACGGCAGCTAGAACACAACATGAAGAGCGGTTACCAGCGCCAGTTGCGCTTCAGG
Dreanno et al SIPC        CAGAGACGACAGCTAGAGCACAACATGAAGAGCGGCTACCAGCGCCAGTTGCGCTTCAGG
Zhang et al SIPC          CAGAGGCGACAGCTAGAGCACAACATGAAGAGCGGCTACCAGCGCCAGTTGCGCTTCAGG
                          *****.**.********.*****************.************************

Kotsiri et al SIPC        CGGTACGATGGCTCGTTCTCGTCGTACGGAAATGAGGACCCTCAGGGCTCCATGTGGCTC
Dreanno et al SIPC        CGGTACGATGGCTCGTTCTCGTCGTACGGAAATGAGGACCCTCAGGGCTCCATGTGGCTC
Zhang et al SIPC          CGGTACGATGGTCCGTTCTCGTCGTACGGAAATGAGGACCCTCAGGGCTCCATGTGGCTC
                          ***********..************************************************

Kotsiri et al SIPC        ACTGCCTTCGTTGTCAAGGCCTTCCGCGAGGCGTCCGAGTACATCGAAATCGATGAGACT
Dreanno et al SIPC        ACTGCCTTCGTTGTCAAGGCCTTCCGCGAGGCGTCCGAGTACATCGAAATCGATGAGACT
Zhang et al SIPC          ACCGCCTTTGTTGTCAAGGCCTTCCGCGAGGCGTCCGAGTACATCGAAATCGATGAGACT
                          **.*****.************************************************

Kotsiri et al SIPC        ATTATCAACAAGGCTAAGGACTGGATTCTGAAGAAACAGAACACTACTGGCTGTTTCCCG
Dreanno et al SIPC        ATTATCAACAAGGCTAAGGACTGGATTCTGAAGAAACAGAACACTACTGGCTGTTTCCCG
Zhang et al SIPC          ATTATTAACAAGGCTAAGGACTGGATTCTGAAGAAACAGAACACTACTGGCTGTTTCCCG
                          *****.************************************************

Kotsiri et al SIPC        AGGTTCGGCGAGCTTATTCACAAGGAGCTGAAGGGTGGCACCGAGCGAGGCGGTGAAGCG
Dreanno et al SIPC        AGGTTCGGCGAGCTTATTCACAAGGAGCTGAAGGGTGGCACCGAGCGAGGCGGTGAAGCG
Zhang et al SIPC          AGGTTCGGCGAGCTTATTCACAAGGAGCTGAAGGGTGGCACCGAGCGAGGCGGTGAAGCG
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Kotsiri et al SIPC      GCCCTCACGGCCTTCGTCATGTTGGCTCTGAAGGACATCGCAACCACTAATGAGCTGGCC
Dreanno et al SIPC      GCCCTCACGGCCTTCGTCATGTTGGCTCTGAAGGACATCGCAACCACTAATGAGCTGGCC
Zhang et al SIPC        GCCCTCACGGCCTTCGTCATGCTGGCTCTGAAGGACATCGCAACCACTAATGAGCTGGCC
                        **********************.************************************

Kotsiri et al SIPC      AACGGCTTCGCCTGCCTAGAGGACGGTCTTCTGCTCCCCAACAAGACCCTGTATTCGGAG
Dreanno et al SIPC      AACGGCTTCGCCTGCCTAGAGGACGGTCTTCTGCTCCCCAACAAGACCCTGTATTCGGAG
Zhang et al SIPC        AACGGTTTCGCCTGTCTAGAGGACGGTCTTCTGCTCCCCAACAAGACCCTGTATTCGGAG
                        *****.********.********************************************

Kotsiri et al SIPC      ATTCTTTTGGCGTACACATACCTGAATATGGGCCAAGATGTCAAGGGGGAGAGGCTGGTG
Dreanno et al SIPC      ATTCTTTTGGCGTACACATACCTGAATATGGGCCAAGATGTCAAGGGGGAGAGGCTGGTG
Zhang et al SIPC        ATTCTTTTGGCGTACACATACATGAATATGGGCCAAGATGTCAAGGGAGAGAGGCTGGTG
                        ********************* ************************.************

Kotsiri et al SIPC      AACAAGCTCATGTCGAAGGCCAAACGCGAAGGAGATGACATCCTCTACTGGGAGGGCGAC
Dreanno et al SIPC      AACAAGCTCATGTCGAAGGCCAAACGCGAAGGAGATGACATCCTCTACTGGGAGGGCGAC
Zhang et al SIPC        AACAAGCTCATGTCGAAGGCCAAACGCGAGGGAGATGACATCCTCTACTGGGAGGGCGAC
                        ****************************.****************************

Kotsiri et al SIPC      CGTGATTCTCTATTCGGTGGAAGCCGAGCCGTGGACGTGGAGATGACTGCCTACATGGCC
Dreanno et al SIPC      CGCGATTCTCTCTTTGGTGGAAGCCGAGCCGTGGATGTCGAGATGACTGCCTACATGGCT
Zhang et al SIPC        CGCGATTCTCTCTTCGGTGGAAGCCGGCCGTGGACGTGGAGATGACTGCCTACATGGCT
                        **.******** **.***********.********.** ********************.

Kotsiri et al SIPC      CTCTCGCTGATGCACATCTCTGGAAAGGGCAACATGGAGGAGGCAGCGCGTGCCATTCGC
Dreanno et al SIPC      CTCTCGCTGATGCACATCTCCGGAAAGGGCAATATGGAGGAGGCAGCGCGCGCCATTCGC
Zhang et al SIPC        CTCTCGCTGATGCACATCTCTGGAAAGGGTAATATGGAGGAGGCAGCGCGCGCCATTCGC
                        ********************.********.**.*****************.*********

Kotsiri et al SIPC      TGGATCAACACTCAGAGGAACAGCAACGGAGGCTTCAAATCCACCCAGGACACCATTGTT
Dreanno et al SIPC      TGGATCAACACCCAGAGGAACAGCAACGGGGGTTTCAAATCCACTCAGGACACCATTGTT
Zhang et al SIPC        TGGATCAACACGCAGAGGAACAGCAACGGAGGCTTCAAATCCACTCAGGACACCATTGTT
                        *********** *****************.**.***********.***************

Kotsiri et al SIPC      GCTGTGGAAGCTCTGTCAGAGTTCGCATCTCGCACGTTCGCCTCTGATCTGGCCACGAGT
Dreanno et al SIPC      GCTGTGGAAGCCCTGTCAGAGTTCGCGTCTCGCACGTTCGCCTCTGATCTGGCCACGAGT
Zhang et al SIPC        GCTGTGGAAGCTCTGTCAGAGTTCGCGTCTCGCACGTTCGCCTCTGATCTGGCCACGAGT
                        ***********.**************.*********************************

Kotsiri et al SIPC      GTGTCTGTGACTGCTGGAGGAGAGACTGTTCAGCGGATGGTGGATGGAGACAACAGACTG
Dreanno et al SIPC      GTGTCTGTAACTGCTGGAGGAGAGACTGTTCAGCGGATGGTGGATGGAGACAACAGACTG
Zhang et al SIPC        GTGTCTGTGACTGCTGGAGGAGAGACTGTTCAGCGGATGGTGGATGGAGACAACAGACTG
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Kotsiri et al SIPC      CTGTATCAGGAGTCCAAGGTGCCAGACCTGACGCTGCCTGGCACCATGAACTTCGATGTC
Dreanno et al SIPC      CTGTATCAGGAGTCCAAGGTGCCAGACCTGACGCTGCCTGGCACCATGAACTTCGATGTC
Zhang et al SIPC        CTGTATCAGGAGTCCAAGGTGCCAGACCTGACGCTGCCTGGCACCATGAACTTCGATGTC
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Kotsiri et al SIPC      AGTCCGCCTGGCTGCGTGGTGTACCAGAGTATCTTCCGATTCAGCAGCACTCTAGAGGTG
Dreanno et al SIPC      AGTCCGCCTGGCTGCGTGGTCTACCAGAGTATTTTCCGGTTCAGCAGCACTCTCGAGGTG
Zhang et al SIPC        AGTCCGCCTGGCTGCGTGGTCTACCAGAGTATCTTCCGATTCAGCAGCACTCTAGAGGTG
                        ******************* ***********.*****.************** ******

Kotsiri et al SIPC      CCCGACCCTGCCTTCTCTCTCGGTGTGGCTGCCAAGAAGCGAGGCCGTACTGGCTACGAG
Dreanno et al SIPC      CCCGACCCTGCCTTCTCTCTCGGTGTGGCTGCCAAGAAGCGAGGCCGTACTGGCTACGAG
Zhang et al SIPC        CCCGACCCTGCCTTCCCTCTCGGTGTGGCTGCCAAGAAGCGAGGTCGTACCGGCTACGAG
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Kotsiri et al SIPC          CTGGAAGTATGCACCAGCTTCCTCCGAAACTCTGGCGCCGTGGACCGCGCCATCCTGGAA
Dreanno et al SIPC          CTGGAAGTATGCACCAGCTTCCTCCGAAACTCTGGCGCCGTGGACCGCGCCATTCTGGAA
Zhang et al SIPC            CTGGAAGTCTGCACCAGCTTCCTCCGAAACTCTGGCGCCGTGGACCGCGCCATTCTGGAA
                            ******** ****************************************.******

Kotsiri et al SIPC          ACGGAACTGCCCTCTGGCTATGTTGCTGTGGACAGCACCCTGAGGGACCTGCGCAGAGGC
Dreanno et al SIPC          ACGGAACTGCCCTCCGGCTATGTTGCTGTGGACAGCACCCTGAGGGACCTGCGCAGAGGC
Zhang et al SIPC            ACGGAACTGCCCTCCGGCTATGTTGCTGTGGACAGCACCCTGAGGGACCTGCGCAGAGGC
                            **************.*********************************************

Kotsiri et al SIPC          TCAGCTGTTCGCAGCTATGAGATCAAGGAAGGTAAAGTGATCTTCACACTGCAAGGAGTG
Dreanno et al SIPC          TCAGCTGTTCGCAGCTATGAGATCAAGGAAGGTAAAGTGATCTTCACACTGCAAGGAGTG
Zhang et al SIPC            TCAGCTGTTCGCAGCTATGAGATCAAGGAAGGTAAAGTGATCTTCACACTGCAAGGAGTG
                            ************************************************************

Kotsiri et al SIPC          GCCGAGGATAAGACCTGTCTGGAGTTCCGCATTATTCAGGAGAACGAAGTTGAGCAGCTG
Dreanno et al SIPC          GCCGAGGATAAGACCTGTCTGGAGTTCCGCATTATTCAGGAGAACGAAGTTGAGCAGCTG
Zhang et al SIPC            GCCGAGGATAAGACCTGTCTGGAGTTCCGCATTATTCAGGAGAACGAAGTTGAGCAGCTG
                            ************************************************************

Kotsiri et al SIPC          AAGCCGTCCATTGTGAAGGTGCACGACTTCTACCGTCCTGAGGAGAGGAACATTCAGGAG
Dreanno et al SIPC          AAGCCGTCCATTGTGAAGGTGCACGACTTCTACCGTCCTGAGGAGAGGAACATTCAGGAG
Zhang et al SIPC            AAGCCGTCCATTGTGAAGGTGCACGACTTCTACCGTCCTGAGGAGAGGAACATTCAGGAG
                            ************************************************************

Kotsiri et al SIPC          TACGAGCTGACTCCCGCTGCTTAG
Dreanno et al SIPC          TACGAGCTGACTCCCGCTGCTTAG
Zhang et al SIPC            TACGAGCTGACTCCCGCTGCTTAG
                            ***********************
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Table S2: Alignment of the amino acid sequences from 3 A. amphitrite SIPC proteins using the multiple sequence alignment software MAFFT at http://www.ebi.ac.uk/Tools/msa/mafft/. Bold letters in red indicate the differences between the amino acid sequences.
CLUSTAL format alignment by MAFFT FFT-NS-i (v7.215)

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Kotsiri et al SIPC          MGRAIVVLLVALATASAVKVPESGYLFTAPKVLQAGTDERACLSLFNLPGPNRALKLKFY
Dreanno et al SIPC          MGGPVVVLLVALATASAVKVPESGYLFTAPKVLQAGTDERACLSLFNLPGPNRALKLKFY
Zhang et al SIPC            MGS--------------VKVPESGYLFTAPKVLQAGTDERACLSLFNLPGPNRALKLKFY
                            **                ****************************************

Kotsiri et al SIPC          ERDVPSSLSTTLDKSDFLLFETNTAVPDSVAENGEYCFDITIPSKVVARSADMHMELTAG
Dreanno et al SIPC          ERDVPSSLSTTLDKSDFLLFETNTAVPDSVAENGEYCFDITIPSKVVARSADMHMELTAG
Zhang et al SIPC            ERDVPSSLSTTLDKSDFLLFETNTAVPDSVAENGEYCFDITIPSKVVARSADMHMELTAG
                            ************************************************************

Kotsiri et al SIPC          EGVWKEESVVTLKSETFLTLVQTDKSKYQPGQKVLFRVVTLSHDLTALNNDLNEVWVTTP
Dreanno et al SIPC          EGVWKEESVVTLKSETFLTLVQTDKSKYQPGQKVLFRVVTLSHDLTALNNDLNEVWITTP
Zhang et al SIPC            EGVWKEESVVTLKSETFLTLVQTDKSKYQPGQKVLFRVVTLSHDLTALNNDLNEVWITTP
                            ************************************************************:***

Kotsiri et al SIPC          DNVRVAQWKNVKTNTGMVQLELQLTEEPPLGSWTIHVRTTQDTYTKRFTVEEYVLPTFEL
Dreanno et al SIPC          DNIRVAQWKNVKTNTGMVQLELQLTEEPPLGSWTIHVLTTQDTYTKRFTVEEYVLPTFEL
Zhang et al SIPC            DNIRVAQWKNVKTNTGMVQLELQLTEEPPLGSWTIHVLTTQDTYTKRFTVEEYVLPTFEL
                            **:********************************** **********************

Kotsiri et al SIPC          EIEAPESLESNEKTVTVKVCAKYTFGKPLIAANVSINATARGIGSWQYNNNKDLLRNISD
Dreanno et al SIPC          EIEAPESLESNEKTVTVKVCAKYTFGKPLIAANVSINATARGIGSWQYNNNPDLLRNISD
Zhang et al SIPC            EIEAPESLESNEKTVTVKVCAKYTFGKPLIAANVSINATARGIGSWQYNNNPDLLRNISD
                            ************************************************** ********

Kotsiri et al SIPC          YQFSDEQGCAIFDLVVSKIGIGHRNIGGGNTVIITIDVEEQGTGLRQVEVKEVSQAYSFI
Dreanno et al SIPC          YQFSDEQGCAIFDLVVSKIGIGHRNIGGGNTVIITIDVEEQGTGLRQVEVKEVSQAYSFI
Zhang et al SIPC            YQFSDEQGCAIFDLVVSKIGIGHRNIGGGNTVIITIDVEEQGTGLRQVEVKEVSQAYSFI
                            ************************************************************

Kotsiri et al SIPC          NLRQSDNAQKFLKPKLPFYGEYTLSMRDGKAAKNEIVKVCYTAKYKERVISDEKKPTPDD
Dreanno et al SIPC          NLRQSDNAQKFLKPKLPFYGEYTLSMRDGKAAKNEIVKVCYTAKYKERVISDEKKPTPDD
Zhang et al SIPC            NLRQSDNAQKFLKPKLPFYGEYTLSMRDGKAAKNEIVKVCYTAKYKERVISDEKKPTPDD
                            ************************************************************

Kotsiri et al SIPC          PVYSTHKKYESHVKTEFGYTPFFWETSEPNRRTTGGECREYKTDENGRIVYYIPPQAEDI
Dreanno et al SIPC          PVYSTHKKYESHVKTEFGYTPFFWETSEPNRRTTGGECREYKTDENGRIVYYIPPQAEDI
Zhang et al SIPC            PVYSTHKKYESHVKTEFGYTPLFWETSEPNRRTTGGECREYKTDENGRIVYYIPPQAEDI
                            **********************:*************************************

Kotsiri et al SIPC          DSIDISTSTSVGGDSDSSHSTLTAFFSPSHSYLSIDTHELPEQLPCSGDVTVKLLSTEEG
Dreanno et al SIPC          DSIDISTSTSVGGDSDSSHSTLTAFFSPSHSYLSIDAHELPEQLPCSGDVTVKLLSTEEG
Zhang et al SIPC            DSIDISTSTSVGGDSDSSHSTLTAFFSPSHSYLSIDAHELPEQLPCSGDVTVKLLSTEEG
                            ************************************:***********************

Kotsiri et al SIPC          PVPAMVYKILSRGKIIKAGNMNTNTLTFPVLPKMGPEFKLLVYYIKESGEVVSDSRVFKV
Dreanno et al SIPC          PVPAMVYKILSRGKIIKAGNMNTNTLTFPVLPKMGPEFKLLVYYIKESGEVVSDSRVFKV
Zhang et al SIPC            PVPAMVYKILSRGKIIKAGNMNTNTLTFPVLPKMGPEFKLLVYYIKESGEVVSDSRVFKV
                            ************************************************************

Kotsiri et al SIPC          DKCFPNTVQVSWDQKTVKPGDSASFTVRASPNSVCGISAVDKSTELLGTSNQITLDTVFS
Dreanno et al SIPC          DKCFPNTVQVSWDQKTVKPGDSASFTVRASPNSVCGISAVDKSTELLGTSNQITLDTVFS
Zhang et al SIPC            DKCFPNTVQVSWDQKTVKPGDSASFTVRASPNSVCGISAVDKSTELLGTSNQITLDTVFS
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Kotsiri et al SIPC       KLQQFIINSFESPNQVRSDGDYCRELQLSLVDTLRSGGATAAELTGQSTPEGTPESETSG
Dreanno et al SIPC       KLQQFIINSFESPNQVRSDGDYCRELQLSLVDTLRSGGATVAELTGQSTPEGTPESETSG
Zhang et al SIPC         KLQQFIINSFESPNQVRSDGDYCRELQLSLVDTLRSGGATVAELTGQSTPEGTPESETSG
                         ****************************************.******************

Kotsiri et al SIPC       AAQSSLFIPPPTRSQRFRTDRDDAIKPFDEAGFLVLSNLALETRPCYKRVQAKELPELTE
Dreanno et al SIPC       AAHSSLFIPPPTRSQRFRTDREDAIKPFDEAGFLVLSNLALETRPCYKRVEAKELPELTE
Zhang et al SIPC         AAHSSLFIPPPTRSQRFRTDREDAIKPFDEAGFLVLSNLALETRPCYKRVQAKELPELTE
                         **:******************:****************************:*********

Kotsiri et al SIPC       DKIQASRGGEEELLDDLDSPVPALAFSKESADASRFAAEGGVSGGGGAAPPQEDQVRDFF
Dreanno et al SIPC       DKIQASRDGEEELLDDLDSPVPALAFSKESADASRFAAEGGVSGGGGAAPPQEDQVRDFF
Zhang et al SIPC         DKIQASRDGEEELLDDLDSPVPALAFSKESADASRFAAEGGVSGGGGAAPPQEDQVRDFF
                         *******.**************************************************

Kotsiri et al SIPC       PEAFLFSIETLDAEGVKTVTSEMPDTITSWVGSAICTNSKDGFGISNKTSITTFKPFFTE
Dreanno et al SIPC       PEAFLFSIETLDAEGVKTVTSEMPDTITSWVGSAICTNSKDGFGISNKTSITTFKPFFTE
Zhang et al SIPC         PEAFPFSIETLDAEGVKTVTSEMPDTITSWVGSAICTNSKDGFGISNKTSITTFKPFFTE
                         **** ************************************************************

Kotsiri et al SIPC       VSLPYSMKRGEILSMSVSVFNFLDSSLSVYLEVGASDQYEISGEVAMGLCIAAGRTEVKS
Dreanno et al SIPC       VSLPYSMKRGEILSMSVSVFNFLDSSLSVYLEVGASDQYEISGEVAMGLCIAAGRTEVRS
Zhang et al SIPC         VSLPYSMKRGEILSMSVSVFNFLDSSLSVYPEVGASDQYEISGEVAMGLRIAAGRTEVRS
                         ****************************** ****************** ********:*

Kotsiri et al SIPC       FPVNFLGLGEVNITVTARAQDGYCDEGNTIAPGSDTVIRPIVVKPEGFPQEVTHSRFICL
Dreanno et al SIPC       FPVNFLGLGEVNITVTARAQDGYCDEGNTIAPGSDTVIRPIVVKPEGFPQEVTHSRFICL
Zhang et al SIPC         FPVNFLGLGEVNITVTARAQDGYCDEGNTIAPGSDTVIRPIVVKPEGFPQEVTHSRFICL
                         ************************************************************

Kotsiri et al SIPC       DKDDDHHTETVNLPVPEGLVPDSQRAYFSVIGDLLGPTFQGLEGGLIKSPTGAGEPNMIT
Dreanno et al SIPC       DKDDDHHTETVNLPVPEGLVPDSQRAYFSVIGDLLGQTFQGLEGGLIKSPTGAGEPNMIT
Zhang et al SIPC         DKDDDHHTETVNLPVPEGLVPDSQRAYFSVIGDLLGQTFQGLEGGLIKSPTGAGEPNMIT
                         ********************************** ************************

Kotsiri et al SIPC       LVPNIYIRRYLETTGQLNERQRRQLEHNMKSGYQRQLRFRRYDGSFSSYGNEDPQGSMWL
Dreanno et al SIPC       LVPNIYIRRYLETTGQLNERQRRQLEHNMKSGYQRQLRFRRYDGSFSSYGNEDPQGSMWL
Zhang et al SIPC         LVPNIYIRRYLETTGQLNERQRRQLEHNMKSGYQRQLRFRRYDGPFSSYGNEDPQGSMWL
                         ********************************************.***************

Kotsiri et al SIPC       TAFVVKAFREASEYIEIDETIINKAKDWILKKQNTTGCFPRFGELIHKELKGGTERGGEA
Dreanno et al SIPC       TAFVVKAFREASEYIEIDETIINKAKDWILKKQNTTGCFPRFGELIHKELKGGTERGGEA
Zhang et al SIPC         TAFVVKAFREASEYIEIDETIINKAKDWILKKQNTTGCFPRFGELIHKELKGGTERGGEA
                         ************************************************************

Kotsiri et al SIPC       ALTAFVMLALKDIATTNELANGFACLEDGLLLPNKTLYSEILLAYTYLNMGQDVKGERLV
Dreanno et al SIPC       ALTAFVMLALKDIATTNELANGFACLEDGLLLPNKTLYSEILLAYTYLNMGQDVKGERLV
Zhang et al SIPC         ALTAFVMLALKDIATTNELANGFACLEDGLLLPNKTLYSEILLAYTYMNMGQDVKGERLV
                         ************************************************:***********

Kotsiri et al SIPC       NKLMSKAKREGDDILYWEGDRDSLFGGSRAVDVEMTAYMALSLMHISGKGNMEEAARAIR
Dreanno et al SIPC       NKLMSKAKREGDDILYWEGDRDSLFGGSRAVDVEMTAYMALSLMHISGKGNMEEAARAIR
Zhang et al SIPC         NKLMSKAKREGDDILYWEGDRDSLFGGSRAVDVEMTAYMALSLMHISGKGNMEEAARAIR
                         ************************************************************

Kotsiri et al SIPC       WINTQRNSNGGFKSTQDTIVAVEALSEFASRTFASDLATSVSVTAGGETVQRMVDGDNRL
Dreanno et al SIPC       WINTQRNSNGGFKSTQDTIVAVEALSEFASRTFASDLATSVSVTAGGETVQRMVDGDNRL
Zhang et al SIPC         WINTQRNSNGGFKSTQDTIVAVEALSEFASRTFASDLATSVSVTAGGETVQRMVDGDNRL
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Kotsiri et al SIPC          LYQESKVPDLTLPGTMNFDVSPPGCVVYQSIFRFSSTLEVPDPAFSLGVAAKKRGRTGYE
Dreanno et al SIPC          LYQESKVPDLTLPGTMNFDVSPPGCVVYQSIFRFSSTLEVPDPAFSLGVAAKKRGRTGYE
Zhang et al SIPC            LYQESKVPDLTLPGTMNFDVSPPGCVVYQSIFRFSSTLEVPDPAFPLGVAAKKRGRTGYE
                            *******************************************.**************

Kotsiri et al SIPC          LEVCTSFLRNSGAVDRAILETELPSGYVAVDSTLRDLRRGSAVRSYEIKEGKVIFTLQGV
Dreanno et al SIPC          LEVCTSFLRNSGAVDRAILETELPSGYVAVDSTLRDLRRGSAVRSYEIKEGKVIFTLQGV
Zhang et al SIPC            LEVCTSFLRNSGAVDRAILETELPSGYVAVDSTLRDLRRGSAVRSYEIKEGKVIFTLQGV
                            ************************************************************

Kotsiri et al SIPC          AEDKTCLEFRIIQENEVEQLKPSIVKVHDFYRPEERNIQEYELTPAA
Dreanno et al SIPC          AEDKTCLEFRIIQENEVEQLKPSIVKVHDFYRPEERNIQEYELTPAA
Zhang et al SIPC            AEDKTCLEFRIIQENEVEQLKPSIVKVHDFYRPEERNIQEYELTPAA
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	Kotsiri et al. SIPC (Nucleotides/Amino acids)	**Dreanno et al. SIPC (Nucleotides/Amino acids)**	**Zhang et al. SIPC (Nucleotides/Amino acids)**
Kotsiri et al. SIPC		101/15	(105+44*)/(11+15*)
Dreanno et al. SIPC	101/15		(61+44*)/(8+15*)
Zhang et al. SIPC	(105+44*)/(11+15*)		

Table S3: Differences in the nucleotide and amino acid sequences between the 2 published sequences of SIPC (GenBank: AAR33079.1 and GenBank: AMR58954.1) and the recombinant SIPC described in this study. *:The nucleotide and amino acid sequences deposited by Zhang et al. in GenBank: AMR58954.1 lacks the signal peptide sequence.

Table S4: List of primers used in this study.

Primer Number	Sequence (5' → 3')
1	CATGAGAATTCGCCACCATGGGTGGTCCCGTCGTCGTCCTACTGG
2	CTGAGAATTCCTAAGCAGCGGGAGTCAGCTCGTACTCCTC
3	CGCTTTCGGGGACCTTGACCAGATCCTCTTCAGAGATGAGTTTCTGCTCGGCGCTTGCCGTCGCCAAG
4	CTTCGCGACGGCAAGCGCCGAGCAGAAACTCATCTCTGAAGAGGATCTGGTCAAGGTCCCCGAAAGCG
5	AGCTATCTAGACTAGTGGTGATGGTGATGATGTCCTGAACCAGCAGCGGGAGTCAGCTCGTACTCCTGAA
6	AGATTCTTTTGGCGTACACATACCTGAATA
7	TCTCTGAAGAGGATCTGGGCATGCTCCCCGTCCCCGAAAGCG
8	CGCTTTCGGGGGACGGGGAGCATGCCCAGATCCTCTTCAGAGA
9	AGCACGAATTCGGCATGCGGCCGGCCATGGTGAGCAAGGGCGAGGAGCTG
10	ATCGAGAATTCGCATGCGTTCGAACTTGTACAGCTCGTCCATGCCGAGAGTGATCCCGGCGGCGG
11	GCTGACCCTGAAGCTCATCTGCACCACCGG
12	CCGGTGGTGCAGATGAGCTTCAGGGTCAGC
13	ACCACCCTCGGCTACGGCCTGATGTGCTTCGCCCGCTACC
14	GGTAGCGGGCGAAGCACATCAGGCCGTAGCCGAGGGTGGT
15	ACGTCTATATCACGGCCGACAAG
16	CTTGTCGGCCGTGATATAGACGT
17	ACGGCATCAAGGCGAACTTCAAGAT
18	ATCTTGAAGTTCGCCTTGATGCCGT
19	CATCGAGGACGGCGGCGTGCAGCTCGC
20	GCGAGCTGCACGCCGCCGTCCTCGATG
21	CTACCTGAGCTACCAGTCCGCCC
22	GGGCGGACTGGTAGCTCAGGTAG
23	ACTATGAATTCACCGGTGCCACCATGGTGAGCAAGGGCGAGGAGCTGTTCACCGG
24	ATCGACTCGAGTTAGTACAGCTCGTCCATGCCGAGAGTGATCC
25	TACCGAATTCGACGAGATGGGGCTACCGCTCCGGCTTTTGCTGCTGCTGCTGCTGCCGCC
26	ATCATACCGGTCCCTGGGGAAGGGCCTTCAGGATGGCATTCACCTCCTCGGCCACAGCT
27	TCCGGTACCGAATTCGCCACCATGAACTTCCAAAACATATTCATATTCGTGGCGTTAATAT TGGCGGTGTTCGCGGGACAATCTCAGGCGGAGCAGAAACTCATCTCTGAAGAGGATCTG
28	ATCAGGCATGCCCCAAGCGTATTCCTTCATCAACCTCAGGCAG
29	ATCAGGCATGCCCAAGCCGTTCTTCACAGAGGTGTCTCTGCCG
30	GATCAGCATGCCCGTTCTGCCAACATTTGAGCTGGAGATCGA
31	CATATGCATGCCCAAGTACAAGGAGAGGGTAATCAGTGACGA
32	CATATGCATGCCCTCGTACCTAAGCATCGACACGCACGAACTT
33	GATCAGCATGCCCGACAAGTGCTTCCCCAACACGGTCCAGGTC
34	GATCAGCATGCCCTCCAACCTGGCCCTGGAGACTCGGCCCTGC
35	TCTGGGCATGCCCGAGGTGACCCACTCTCGCTTCATCTG

36	TCTGGGCATGCCCAGCACTCTAGAGGTGCCCGACCCTGC
37	ACTGGACTAGTGGTGATGGTGATGATGTCCTGAAC
38	CAAAACCAACACTGGCATGGTGCAGCTGGA
39	TACATCAAGGAGAGTGGCGAAGTGGTCAGC
40	CTTCAAGCCGTTCTTCACAGAGGTGTCTCT
41	AGATTCTTTTGGCGTACACATACCTGAATA
42	ACTGCAGTGTTTGTCTCAAACAGCAGGAAA
43	ATGATCACCGTATTTCCGCCTCCAATATTA
44	CCAGTGAAAGCTGCAGTTCCCTGCAGTAAT
45	CAACAATGGTGTCCTGAGTGGATTTGAAAC
46	TCACTTCTTGAGGGAATCCCTCTGGTTTGA

Table S5

Putiative N-linked glycosylation sites on recombinant SIPC	Probability score provided by the server	Server used:	Supported by experimental evidence?	Comments
N263	0.76	http://www.modpred.org/	Supported	Present only in Tr.1
N285	0.7531	http://www.cbs.dtu.dk/services/Net	Supported	Present only in Tr.1
N289	0.5656	http://www.cbs.dtu.dk/services/Net	Supported	Present only in Tr.1
N302	0.68	http://www.modpred.org/	Supported	Present only in Tr.1
N309	0.6872	http://www.cbs.dtu.dk/services/Net	Supported	Present only in Tr.1
N618	0.64	http://www.modpred.org/	Not supported	Tr.5 after deglycosylation does not have an apparent MW higher than Tr.6
N899	0.7683	http://www.cbs.dtu.dk/services/Net	Supported	Tr.6 after deglycosylation has a higher MW than Tr.7
N984	0.7800	http://www.cbs.dtu.dk/services/Net	Supported	Tr.7 after deglycosylation has an apparent MW similar to its Calculated
N1186	0.65	http://www.modpred.org/	Not supported	Tr.8 does not have an apparent MW higher than its Calculated
N1246	0.7153	http://www.cbs.dtu.dk/services/Net	Not supported	Tr.8 does not have an apparent MW higher than its Calculated
N1341	0.74	http://www.modpred.org/	Not supported	Tr.8 does not have an apparent MW higher than its Calculated

N1462	0.71	http://www.modpred.org/	Not supported	Tr.8 does not have an apparent MW higher than its Calculated

Putiative O-linked glycosylation sites on recombinant SIPC	Probability score provided by the server	Server used:	Supported by experimental evidence?	Comments
S79	0.80	http://www.modpred.org/	Supported	Present only in full-length recombinant SIPC
T429	0.780535	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.3 onwards
S436	0.777751	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.3 onwards
T437	0.5	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.3 onwards
S443	0.635919	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.3 onwards
S498	0.89	http://www.modpred.org/	Supported	Present in Tr.3 onwards
T499	0.83	http://www.modpred.org/	Supported	Present in Tr.3 onwards
S500	0.94	http://www.modpred.org/	Supported	Present in Tr.3 onwards
S502	0.88	http://www.modpred.org/	Supported	Present in Tr.3 onwards
S708	0.656591	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.5 onwards
T712	0.749505	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.5 onwards
T717	0.743219	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.5 onwards
S720	0.922073	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.5 onwards
T721	0.814289	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.6 onwards
T725	0.530811	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.6 onwards
S728	0.602923	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.6 onwards
T730	0.595919	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.6 onwards
S731	0.648028	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.6 onwards
S736	0.751889	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.6 onwards
S737	0.657497	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.6 onwards
T744	0.858312	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.6 onwards
S746	0.654746	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.6 onwards
T751	0.685158	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.6 onwards

S822	0.669561	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.6 onwards
S826	0.517458	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.6 onwards
S835	0.797811	http://www.cbs.dtu.dk/services/Net	Supported	Present in Tr.6 onwards
S873	0.81	http://www.modpred.org/	Supported	Present in Tr.6 onwards
T905	0.74	http://www.modpred.org/	Supported	Present in Tr.7 onwards
S1372	0.523284	http://www.cbs.dtu.dk/services/Net	Not supported	Tr.8 does not have an apparent MW higher than its Calculated
T1376	0.543343	http://www.cbs.dtu.dk/services/Net	Not supported	Tr.8 does not have an apparent MW higher than its Calculated
S1438	0.5	http://www.cbs.dtu.dk/services/Net	Not supported	Tr.8 does not have an apparent MW higher than its Calculated
S1561	0.85	http://www.modpred.org/	Not supported	Tr.8 does not have an apparent MW higher than its Calculated

Putative C-linked glycosylation sites on recombinant SIPC	**Probability score provided by the server**	**Server used:**	**Supported by experimental evidence?**	**Comments**
None	-	http://www.modpred.org/		

Putative Myristoylation sites on recombinant SIPC	**Probability score provided by the server**	**Server used:**	**Supported by experimental evidence?**	**Comments**
None	-	http://mendel.imp.ac.at/myristate/SUPLpredictor.htm		

Putative Prenylation sites on recombinant SIPC	**Probability score provided by the server**	**Server used:**	**Supported by experimental evidence?**	**Comments**
None	-	http://www.modpred.org/		

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Putative GPI-anchor amidation sites on recombinant SIPC	Probability score provided by the server	Server used:	Supported by experimental evidence?	Comments
N1323	0.63	http://www.modpred.org/		
N1341	0.87	http://www.modpred.org/		

Table S6

SIPC or truncated fragment name	Calculated MW of SIPC and its truncated fragments	Calculated MW of SIPC and its truncated fragments from Western blots	SEM	N	Differences between calculated and Calculated MW and its truncated fragments from	SEM	N	Reduction in MW by deglycosylation assays	SEM	N	N-linked glycans	Small glycans	O-linked glycans	Other post-translational modifications
VSIPC	199,159	246,4109	2,37	3	47,2519	2,37	3				15	8	8	16
SIPC	171,453	217,7961	2,2	7	46,34306	2,2	7	196,0638	4,08	3	15	8	8	15
Tr.1	147,276	178,0196	3,56	6	30,74362	3,56	6				15	8	8	0
Tr.2	134,108	153,4121	1,62	7	19,8299	1,81	6				7	4	8	0
Tr.3	128,479	149,4574	1,49	6	21,09269	1,26	7				7	5	9	0
Tr.4	116,219	133,2525	2,47	6	17,0335	2,47	6				7	3	7	0
Tr.5	106,35	124,7959	1,64	6	18,44593	1,64	6	113,4602	2,17	3	7	4	7	0
Tr.6	89,543	108,5631	2,88	6	19,02005	2,88	6	94,64828	1,84	3	7	7	5	0
Tr.7	74,895	83,84607	1,81	7	8,951066	1,81	7	76,80681	1,25	3	5	2	2	0
Tr.8	62,454	59,48821	1,34	4	-2,965797	1,34	4				0	0	0	0
Tr.9	17,316	37,46218	0,44	4	20,14618	0,44	4				0	0	0	20

Dataset 1						
Data	Data	1243	85	49	62	51
Data	Data	MW	Nglyc	Deglyc	Oglyc	Other
246	A	199	15	8	8	16
218	B	171	15	8	8	15
178	C	147	15	8	8	0
153	D	134	7	4	8	0
149	E	128	7	5	9	0
133	F	116	7	3	7	0
124	G	106	7	4	7	0
108	H	89	7	7	5	0
84	I	74	5	2	2	0
60	J	62	0	0	0	0
37	K	17	0	0	0	20