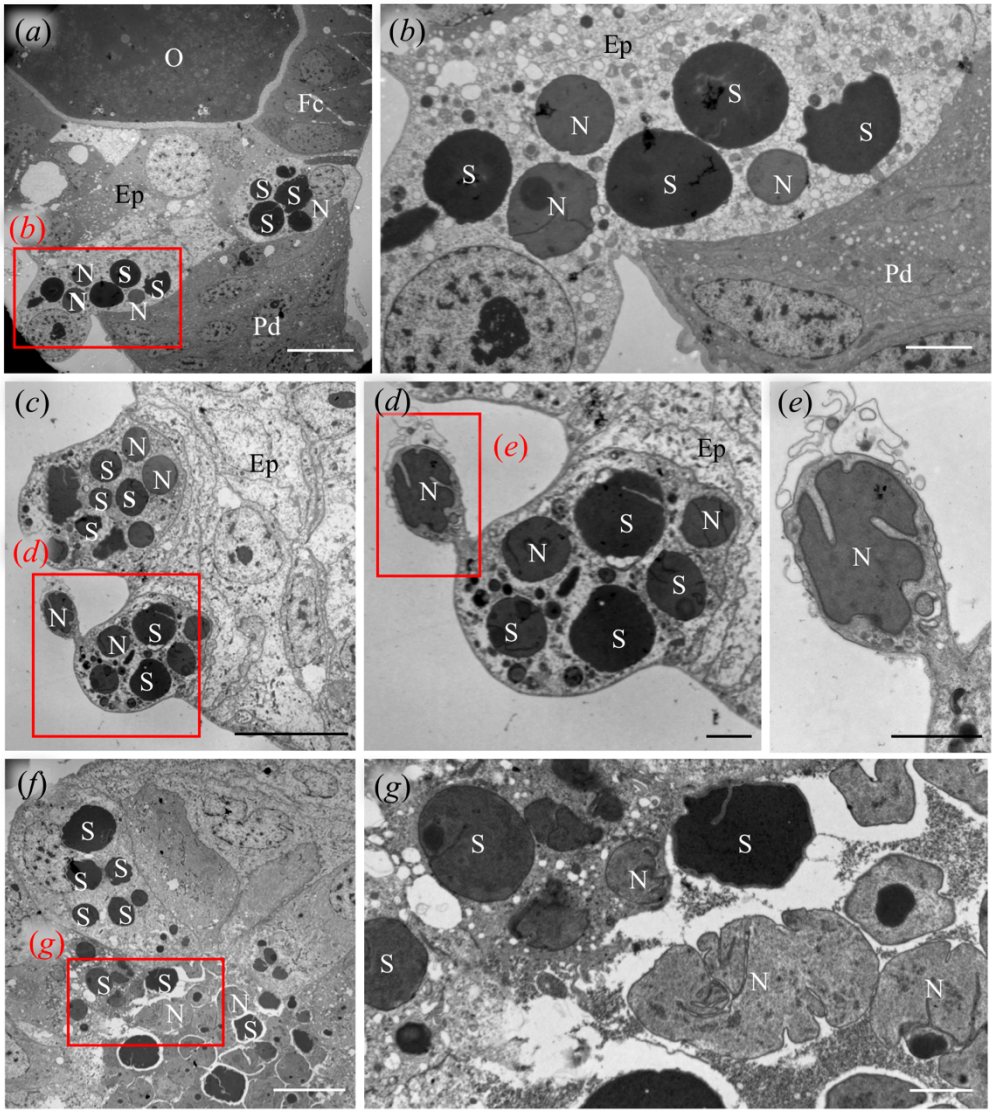
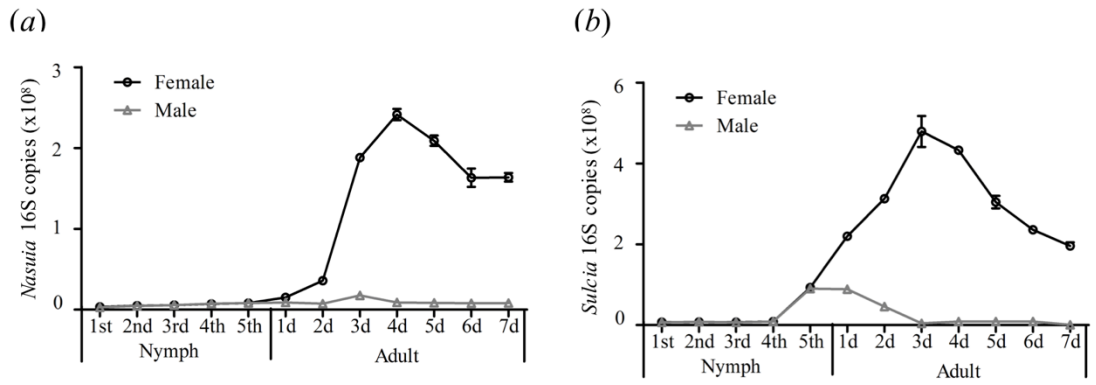
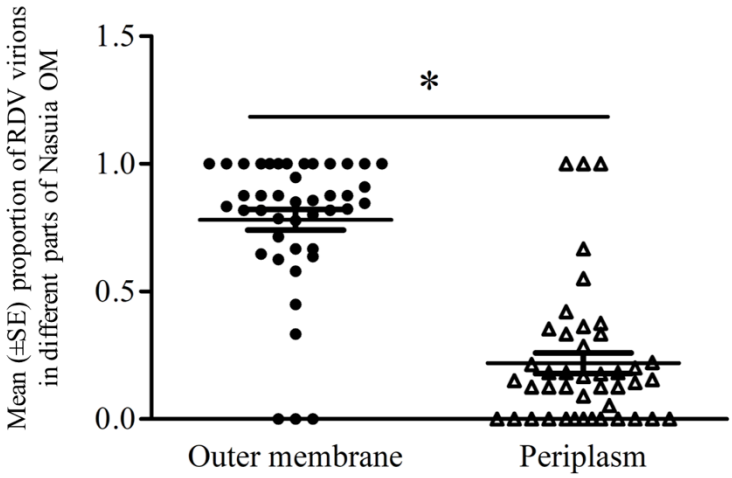



Figure S1. Localization of *Sulcia* and *Nasuia* in the epithelial plug in the ovary of female *N. cincticeps*. (*a*, *b*) Distribution of *Sulcia* and *Nasuia* close to the epithelial plug. Scale bars in *a*: 10 μm; *b*: 2 μm. (*c*-*e*) Distribution of *Sulcia* and *Nasuia* within the epithelial plug. Scale bars in *c*: 10 μm; *d* and *e*: 2 μm. (*f*, *g*) Distribution of *Sulcia* and *Nasuia* within the oocyte. Scale bars in *f*: 10 μm; *g*: 2 μm. Panels *b*, *d*, *e* and *g* are enlargements of boxed areas in panels *a*, *c*, *d* and *f*, respectively. Ep, epithelial plug; Fc, follicular cell; N, *Nasuia*; O, oocyte; Pd, pedicel; S, *Sulcia*. All micrographs are representative of at least three repetitions.




621

622 Figure S2. Copy number dynamics of 16S rRNA from (*a*) *Nasuia* and (*b*) *Sulcia* in the
623 nymph and 1-7 days after emergence of *N. cincticeps* as detected by RT-qPCR assay.




624

625 Figure S3. Mean (±SE) proportion of RDV virions within the periplasmic spaces or
626 on the outer membranes of *Nasuia*. The distribution of RDV virions was based on 43
627 *Nasuia* samples. Data from three independent experiments were tested with an
628 independent-sample *t*-test at 0.05 level.

629

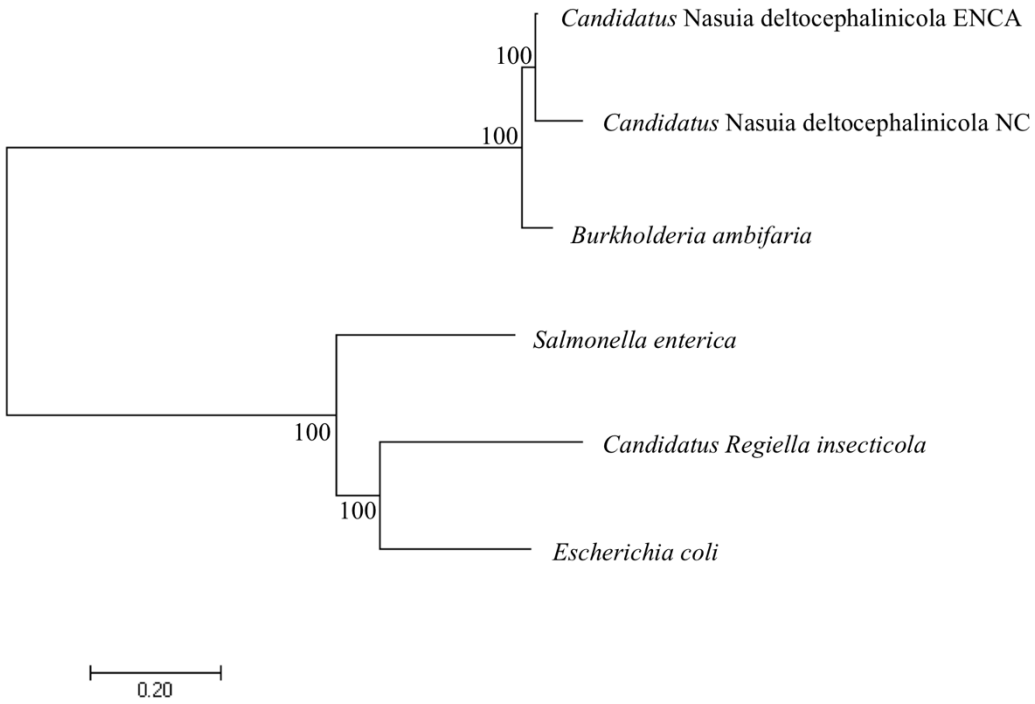



Figure S4. Phylogenetic relationships of porin orthologs of *Nasuia* from *N. cincticeps* with counterparts. The available sequences were aligned using Clustal W, and phylogenetic trees were reconstructed by neighbor-joining analysis with *P*-distance using MEGA 5.1. Reliability of the phylogenetic trees was estimated by calculating bootstrap confidence limits based on 1000 replicates.

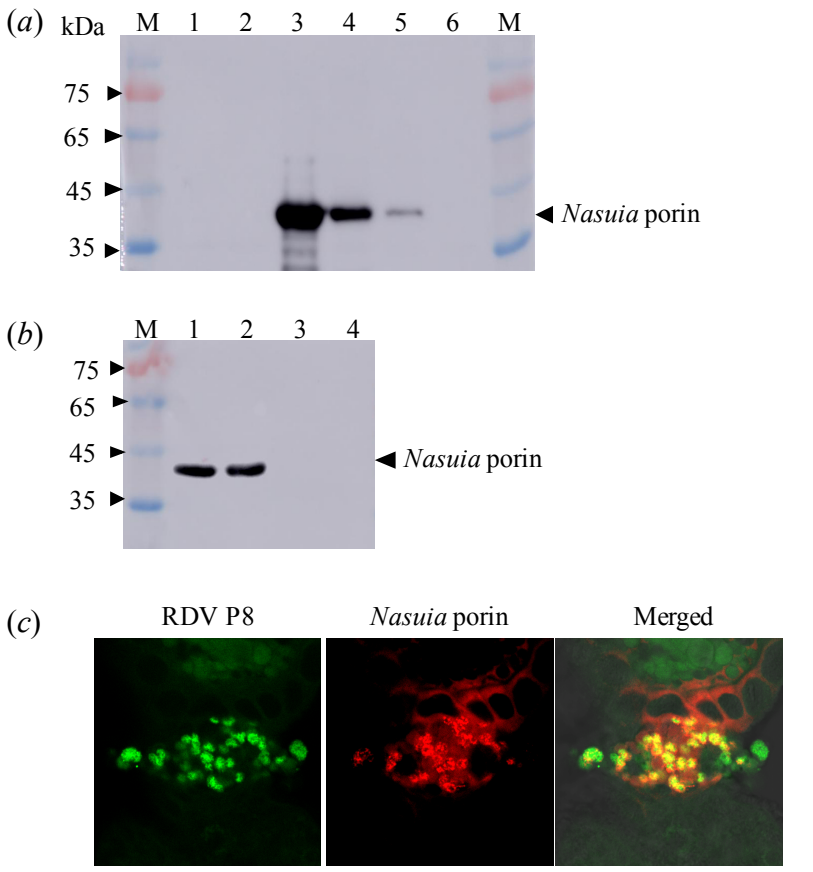



Figure S5. Levels of *Nasuia* porin extracted from different tissues of *N. cincticeps*. (*a*) Specificity of antibody against *Nasuia* porin. Samples were separated by SDS-PAGE and detected with porin-specific antibody. Lanes: M, protein marker; 1 and 2, non-inducible expression of porin in *E. coli*; 3, inducible expression of porin in *E. coli*; 4, purified porin (100 mm washing buffer); 5, purified porin (150 mm washing buffer); 6, purified porin (200 mm washing buffer). (*b*) Porin proteins extracted from female adult bacteriomes (lane 1), abdomen (segments 1, 2) (lane 2), abdomen (segments 3–5) (lane 3), and thorax and head (lane 4). (c) Immunofluorescence detection of the colocalization of RDV and *Nasuia*. Ovaries of viruliferous *N. cincticeps* were immunolabeled with RDV-FITC (green) for RDV and Porin-rhodamine (red) for *Nasuia*. Ep, epithelial plug; Fc, follicular cell; O, oocyte; Pd, pedicel. All images are representative of at least three replications.

652 Table S1 Primers used in this study

| Oligonucleotide | Assay | Sequence (5'-3') |
|---|---|---|
| EF1_F | qPCR | CAGTGAGAGCCGTTTTGAG |
| EF1_R | qPCR | AGGGCATCTTGTCAGAGGGC |
| *Nasuia*_F | qPCR | GGGGAAAACCTCGCGTTATA |
| *Nasuia*_R | qPCR | CCACTGCTGCCTCTCGTAAG |
| *Sulcia*_F | qPCR | GGGGACTCTAATAAGACTGC |
| *Sulcia*_R | qPCR | CTGAGATCGGCTTTCTGGAT |
| RDV-P8_F | qPCR | GCTTCGAGCTTGTGGACAGT |
| RDV_P8_R | qPCR | CGCACCAGCAGATTCCTTAT |
| RDV_P8_F | Y2H | GGCCATGGAGGCCATGTCACGCCAGATGTGGTTAG |
| RDV_P8_R | Y2H | GGCCTCCATGGCCATCTAATTTGGTCTATAGTATCTTCCA |
| RDV_P2_F | Y2H | AGTGAATTCCACATGGCTTATCCTAACGACGTC |
| RDV_P2_R | Y2H | ATGGATCCCGTACTAAAAAACATCAGCGTGCTCTACG |
| *Nasuia*_porin_F | Y2H | GGCCATGGAGGCCATGTCAAATTCAATTTATTTTTTTTTATAG |
| *Nasuia*_porin_R | Y2H | GGCCTCCATGGCCTTAATCTAATAATTTTAAAAATTTTTTATAATAAG |
| *Sulcia*_OMP_F | Y2H | AGTGAATTCCACATGTATGGAGATAATCAAAAAATTATTTTTA |
| *Sulcia*_OMP_R | Y2H | ATGGATCCCGTACTAATATGCAATATCACATCCTAAAAAT |
| *Nasuia*_porin_F | Antibody generation | CGAGGGATCCGAATGTCAAATTCAATTTATTTTTTTTTATAG |
| *Nasuia*_porin_R | Antibody generation | TTGAATTCGGATTTAATCTAATAATTTTAAAAATTTTTTATAATAAG |
| RDV_P8_F | Pull down | GGGGACAAGTTTGTACAAAAAAGCAGGCTTCATGTCACGCCAGATGTGGTTAG |
| RDV_P8_R | Pull down | GGGGACCACTTTGTACAAGAAAGCTGGGTCCTAATTTGGTCTATAGTATCTTCCA |
| *Nasuia*_porin_F | Pull down | CGTGGATCCCCGATGTCAAATTCAATTTATTTTTTTTTATAG |
| *Nasuia*_porin_R | Pull down | GATGAATTCCGGTTAATCTAATAATTTTAAAAATTTTTTATAATAAG |

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