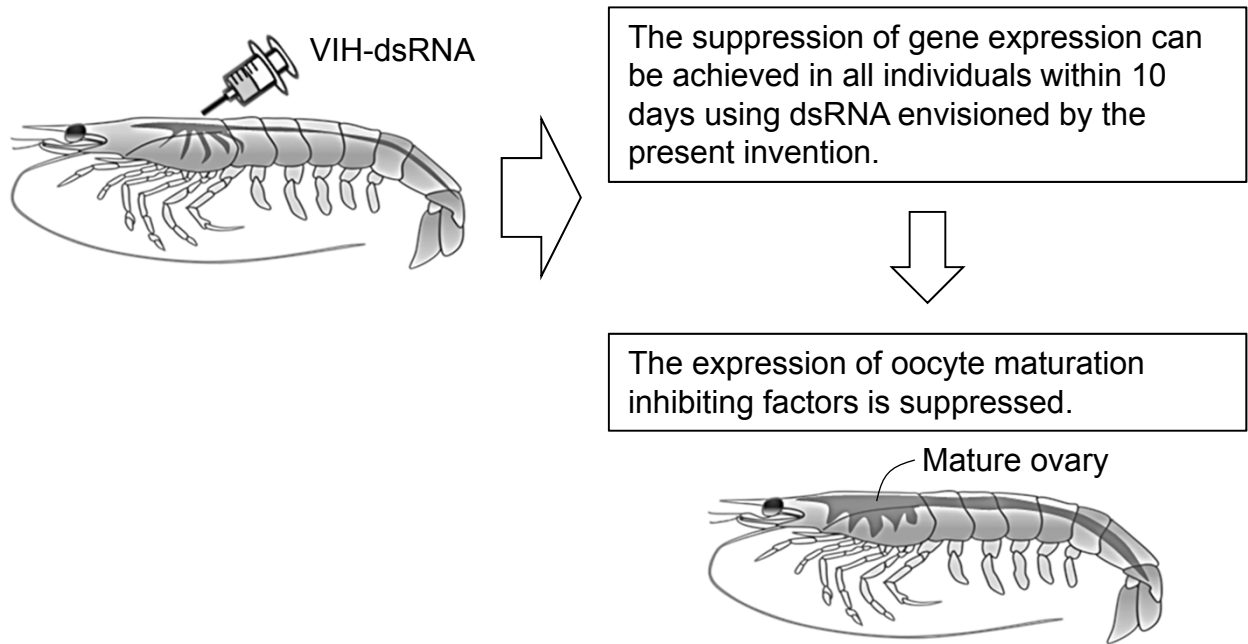


Fig. 1



Signal peptide

GGTCGAGTCACTGCAGCTGCTCATACTCTGAACCTTTGACACAGACTGCTCGCCA : 60
M

TGACAGCCCTTTCGCTTGATGGCCCGTGGCCCTGGTGTGCTCGTGGCGTCTCGACGACCT : 120

T A F R L M A V A L V V V V A C S T T W

CPRP

GGGCTCGTCCGCCGAGGGTCTGTCGTCCCCCGTGGCCTCCCCTCATCAGGGCGCCGAGCC : 180

A R S A E G S S P V A S L I R G R S L

Mature VIH

TCAGCA**AAGCGAGCAA****CTTCGAC**CTTCCCTGCACGGGCGTCTACGACC GGAGCTCCTGG : 240

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

GGAGGTGAGCCGCCCTCTGCGACGACTGCTACAACGTGTTTCGCGAGCCCCAAGGTGGCCA : 300

R L S R L C D D C Y N V F R E P K V A T

CGGAGTGACGAGCAACTGCTTCTACAACCCCGTGTTCGTCCAGTGCCTGGAGTACCTGA : 360

E C R S N C F Y N P V F V Q C L E Y L I

TTCCGGCCGACCTGCACGAGGAGTACCAAGCCCTCGTGT**CAGACGGTGGGC****AAGTAGG**CTC : 420

P A D L H E E Y Q A L V Q T V G K *

GCTCGACCTGCCACGGCCTCGCCTCGCGCACTCACGCCAACGGCCGGAAGACACAGAGAG : 480

GATTTCAGGATTGTTTCTGGCTAACTGGTGATTTTCATCGACCCCTGCTCGGATTTTGAT : 540

ATGATTCTCATGTCCATAATTGTGATGAATCTCTAAATGAAAGTGTG : 580

Nucleotide sequence: SEQ ID NO: 9
Amino acid sequence: SEQ ID NO: 10

Fig. 3

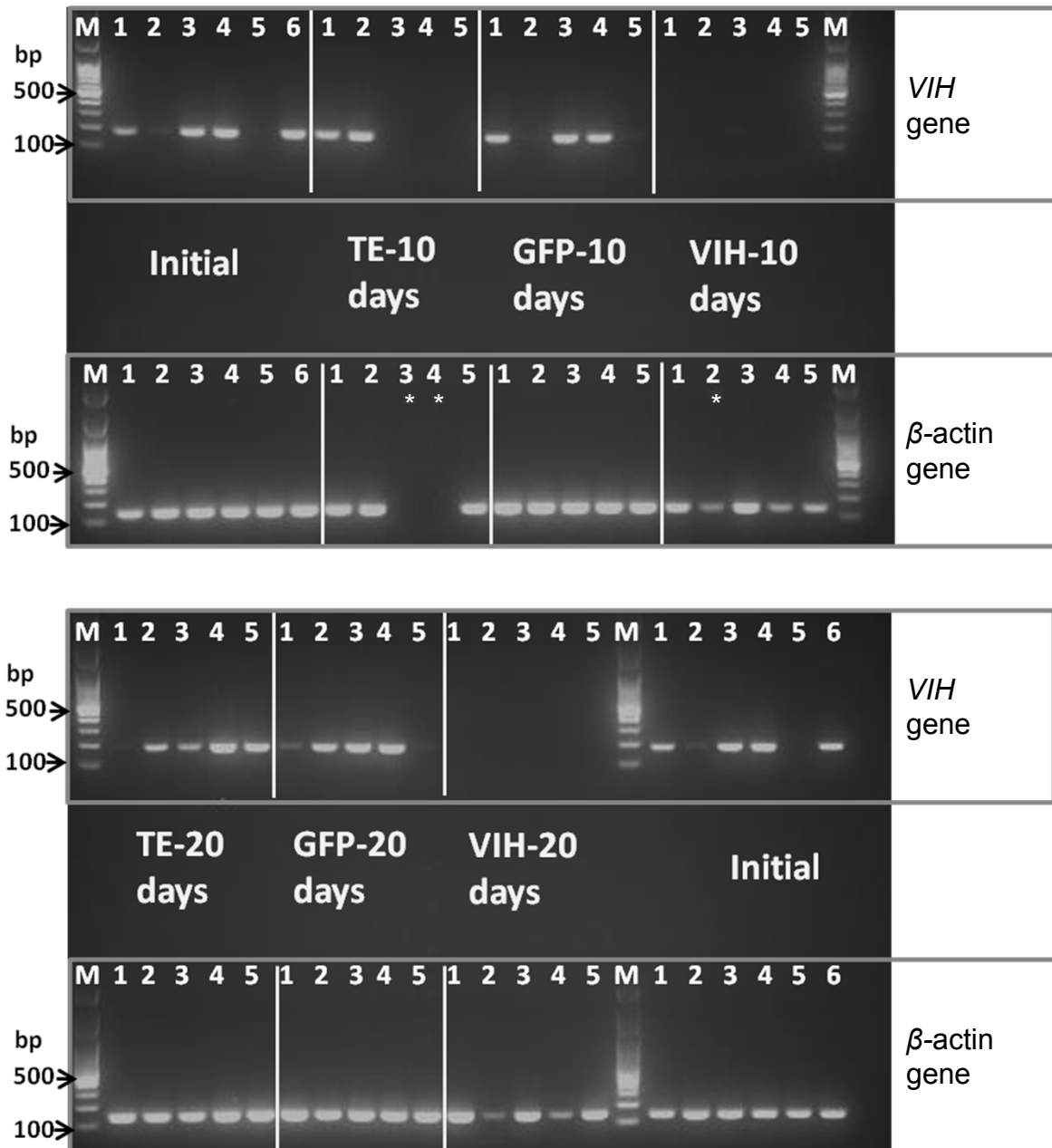
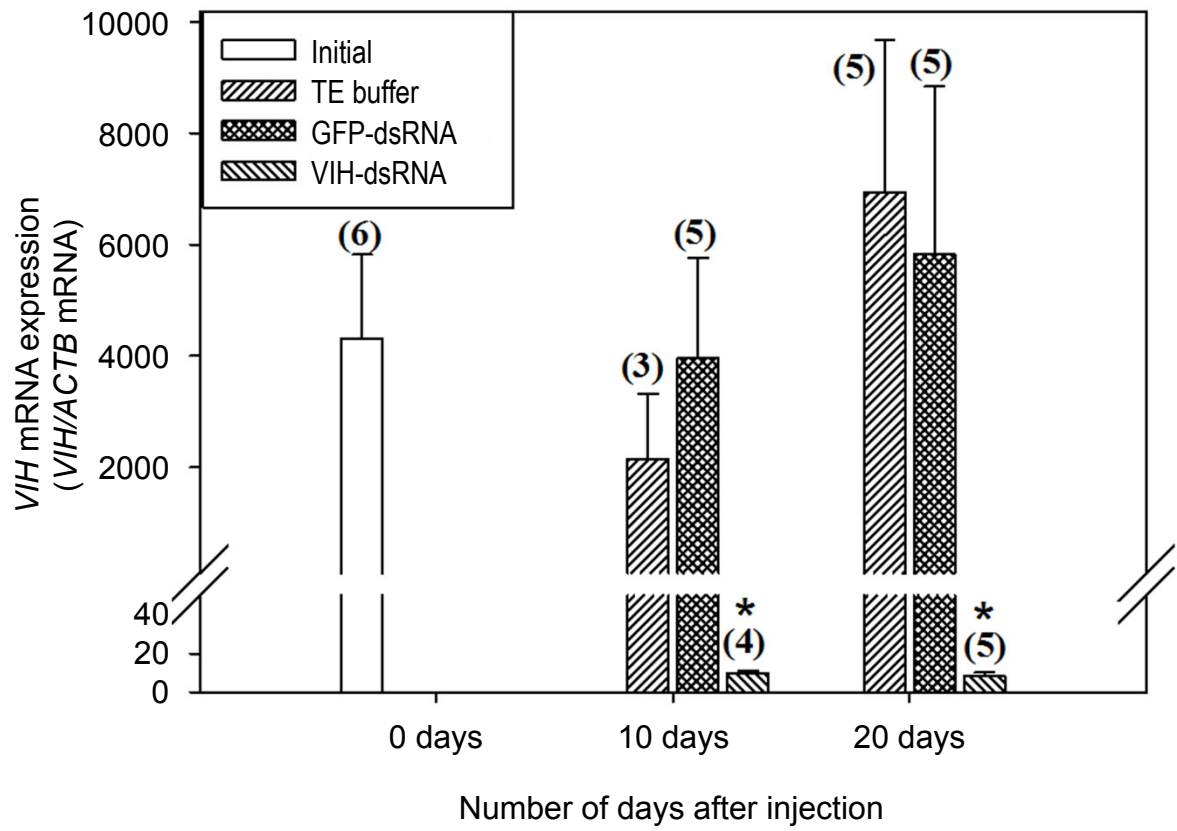


Fig. 4



1 AGTGCCTTCACCAATCTAAAGCCGTTGTGATTTACACGAGCTATGACTGCCCTTCCGTATGGTCAATGTTGTG : 8
M T A F R M V W S M L L

Signal peptide ↓ CPRP

13 A S L L L L A A S S A A P A D A L S A P A A G L T K :160

↓ Mature SGP-C

40 R S L F D P S C T G V F D R Q L L R R L R V C D D C :240

67 F N V F R E P N V S T E C R S N C Y N N E V F R Q C :320

93 M E Y L L P P H L H E E H R L A V Q M V G K * :400

AGACGCTGCAACCCACTTCGCTGACGACAGGAATTTCGATGATAGTAAAGGCACCCCTAATTCCTATTCTACAGCATA :480
GCAC TGAGTCCCTCGATCGCTGTAACGAATGGTTTTCAATGCTGAAGACTTATACTATGAAATGAAGCTGACTTCCACTCT :560
AAGAAATAAGAAATGAAAGGTGCAGTTTGCCATTATATTGGGACTATCATGACACATTTAGTTTCGGCCACTGATCACAGT :640
ATAGAAAAATATATACACATGAACGCCATTTATCAGGAAAACCTGGAGAAAAAATATCACTGAAAAGAGATTGTTCTTAGGA :720
CTCGAGGCTTTAATTAACTTAGAATAGGTATTTGTGATGTTTATTATGTTTAAATTTACGAATAAAGCACTGGCATGC :800
TAAAAAATAAAAAAAAAAAAAAAAAAAAAA

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Fig. 6

TTGCGTAAACTATGCTTGCCTACCGTACTATGTGGTCAGCGATAATGGCCCTCTTTGCTGCTGCTCGCGGGCGTCTCGTCC : 80

M L A Y R T M W S A I M A S L L L L L A A S S

GCTGCCCCCGACGCCCTTATCCGCCCTGTGGCAGGCCCTCACCAAACGCTCGCTATTCGACCCCTTCCTGCAGCGGCGT :160

A A P A D A L S A P A A G L T K R S L F D P S C S G V

CTTCGACCGGCAGCTCTTTCGGGAGGCTGCGTCGAGTGTGTGATGACTGTTTCAACGTATTTAGGGAACCCAAACGTAGCTA :240

F D R Q L L R R L R V C D D C F N V F R E P N V A I

TTGATTGCAGGGAGAACTGTTACAACAACGAAAGTGTTCGCCCAGTGCATGGCATACTGCTCCCGCAAACCTCCACGAC :320

D C R E N C Y N N E V F R Q C M A Y V V P A N L H D

GAACACAGGCAAGCCGTGCAGATGGTCGGCAAGTAAACTACTTC

E H R Q A V Q M V G K *

Nucleotide sequence: SEQ ID NO: 1

Amino acid sequence: SEQ ID NO: 2

↓ Mature SGP-A

Fig. 7

GAAGAGCCTCGAAGTCGCCGTCTCTCCTCCCGATTTCGAGTCGACGCCGAGGAAATGATTGGGGTTCGACTGGTGCGTTCA : 80

M I G V R L V R S

GCTGTCCTGGTATCCCTGCTAGTGTTCGCCGGCCCTCTGTCCCTCGCCCTCTTGGGACGGAAATGAAATCCCTCCGTCCCT :160

A V L V S L L L V F P A S V L A S W D G N E I P P S L

GCCTTCCTCCTCAGAAATCCTCTCCTGCGACCCCCCTCGCGGGAGCCCGACCCGCAACAAAGCGCAGCATATCCTTCGACT : 240

P S S S E S S P A T P L A G A Q T A N K R S I S F D S

CGTGACGGGCGTCTACGACCGCGAACTCCTTGTAAGGCTCGACCGCGTGTCGGAAGACTGTACAACCTGTACCGCGAC : 320

C T G V Y D R E L L V R L D R V C E D C Y N L Y R D

ACCGACGTGGCGGTCGAATGCAGGAGCAACTGTTTCCACAAACGAGGTATTCCTGTACTGCGTCGACTACATGTACCGGCC : 400

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

TCGCCAAAGGAACCACTACCGGGCGCCCTGCAGAGGCTCGGCAAGTAGG

R Q R N Q Y R A A L Q R L G K *

Nucleotide sequence: SEQ ID NO: 3

Amino acid sequence: SEQ ID NO: 4

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Fig. 8

GAAGGACCTCGTTGCAATTGAGTATTTTCGAGTTTCGCGTCATTTACAATGGTACTTCAATACATGCTGTCTGCGGCCCT : 80
M V L Q Y M L S A A L

GCTGGTGTGCGCGCCTCGTCTGCGCCCGCGCCGCTCCCTCGACGGCGGCCCTTCGTCTGCGTCTCAGGAAGCC :160
L V L A A S S P A A A R S L D A A P S S A S G S H

↓ Mature SGP-F

ACAGCCTCAGCAAGCGCTCCCTCTTCGACCCGGCGTGCAACCGGCATCTACGACCGGCAGCTGCTGGGCAAGCTGGGGCGC :240
S L S K R S L F D P A C T G I Y D R Q L L G K L G R

CTGTGCGACGACTGCTACAACGTGTTCCGGGAGCCCAAGGTGGCCACGGGATGCAGGAGTAAGTACTACTACAACCTCAT :320
L C D C Y N V F R E P K V A T G C R S N C Y Y N L I

CTTCCTCGACTGCCCTCGAGTACCTGATCCCGAGCCACCTTCAGGAGGAGCACATGTCGGCCCTGCAGACCGTCGGCAAAT :400
F L D C L E Y L I P S H L Q E E H M S A L Q T V G K *

AAAG
Nucleotide sequence: SEQ ID NO: 7
Amino acid sequence: SEQ ID NO: 8

Fig. 9

