

1 tgcagccgggcccgggcccggcctgagcgATGCGGATCGGCAGCTCGGCAGCGTGCCGACCAGGTTTCGTGG
1 M A D R Q L G S V R T R F V

73 AGAGCGTGAGCAAAGCCGTGATCAACTCCCTCCTGGACGACCTGCTGGAGAAGCAGGTGCTGAACGAGGAGG
15 E S V S K A V I N S L L D D L L E K Q V L N E E

145 AGGTGGAGGAGGTGAGGGAAGGCCACAGCAAGAAGAGTGACCAAGCCAGGTGTCTGATCGATGGGGTGAGGA
39 E V E E V R E G H S K K S D Q A R C L I D G V R

217 AAAAGGGAGCCAGAGCCAGCGAGATCTTCATCCGGTGCCTCTGCTGCAGAGACGTGCACCTGGCCAGTGACC
63 K K G A R A S E I F I R C L C C R D V H L A S D

289 TGGGGCTGGCAGCCCCCTCGGCTACCGCAGGGGTTCAGTGCCACAGCCAGGGCCGGCCCCCAGGAGAACG
87 L G L A A P S A T A G V P V P Q P G P A P Q E N

361 AGCCAGGGTCCACCGCAGAAACCCAGCCAGCGCCATGCGAGGGCTGGATCCGGCCCTGCCCCCGGAGGACG
111 E P G S T A E T Q P A P C E G W I R P C P P E D

433 TCCAGCGGATCCAGAGGGAGGAAGCAAAGGAGATCTATCCCATCCGGGACAAGGCAACACGAACCCGCTGG
135 V Q R I Q R E E A K E I Y P I R D K A T R T R L

505 CCCTCATCATCTGTAACGTAGAGTTTCGAGCATCTCCCCAGGCGGGGCGGGGCGACGTGGACGTGAGTGGGA
159 A L I I C N V E F E H L P R R G G A D V D V S G

577 TGCAGAGGCTTCTAGAGGGGCTGGGCTACAAGGTGAAACCTACTGCAACTTACCCGCCAGGACATGCTGG
183 M Q R L L E G L G Y K V E T Y C N L P A Q D M L

649 CAACGCTGAAGCAGTTTGTCTGCTCGGGACGAGCACCAGACCTCGGACAGCACCTTCCTTGTGCTCATGTCCC
207 A T L K Q F A A R D E H Q T S D S T F L V L M S

721 ATGGCGTCCGGGCGAGGCTGTGCGGGACGAAGAGCCACGGCGGGGCCACGGACATCCTTCCCGTCGACACCA
231 H G V R A G L C G T K S H G G A T D I L P V D T

793 TCTACGACACCTTCAACAACAAGAGCTGCCAGGCCCTGCTGGGCAAGCCCAAAGTGATCATCATCCAGGCCCT
255 I Y S T F N N K S C Q A L L G K P K V I I I Q A

865 GCCGGGGGAGAGCCAGGGACACGTGTGGGTGAGCGACTCCGAGAGCTCCCTGGAGATGGCGCCAGCCCTG
279 C R G E S Q G H V W V S D S A E L P G D G A S P

937 CGCCATGGCCCACCGAAGAGCTGGAAGATGATGCCACCCACCAAATCCACGTGGAGAGCGATTTCATCTGCT
303 A P W P T E E L E D D A T H Q I H V E S D F I C

1009 TCCACTCCACAACGCCAGACACCGTGTCTGAGAGAAGTCCGAAAACCTGGCTCCGCTTTCATCAAATGCCTGA
327 F H S T T P D T V S W R S P K T G S V F I K C L

1081 TAGAGCAGCTCCAAACCAACGCCTGGCGCTTCCCCTTGGAGGAGATCTTCCGAAAGGTCCAGCTCTCCTTTC
351 I E Q L Q T N A W R F P L E E I F R K V Q L S F

1153 AAAATTTTCCTCGTCAGATGCCACAAAAGAGAGAACTACCATGCTGAAAAAGTTTACCTGTTCCCGGGC
375 Q N F P R Q M P T K E R T T M L K K F Y L F P G

1225 ATTAGgacaagcccacgatatggcagagcatttcccggggcccagcctcagtcagca
399 H *

Figure S1. Nucleotide and amino acid sequence of partial cDNA of *P. sinensis* caspase-1. The start and stop codons are boxed, CARD domain of caspase-1 is highlighted in grey and CASCs domain is highlighted in black. The caspase-1 pentapeptide active-site motif sequence QACRG is highlighted in red.

Table S1. PCR primers.

Primers	Nucleotide sequence(5'–3')	Application(s)
tIL-1 β -deg-F1	CAATCTCTACATGTCTYTG	Amplifying intermediate fragments
tIL-1 β -deg-F1	GGGGAAACCGGCM5	
tIL-1-R1	CGAACTGGGTGGTGTCCCCGCTCT	5'Race
tIL-1-R2	GCATGGGCTGCTGGCCGTTGTG	
GeneRacer 5'Primer	C GACTGGAGCACGAGGACACTGA	
GeneRacer 5' nested Primer	GGACACTGACATGGACTGAAGGAGTA	
tIL-1-F1	CAGAGGCCCGAGCTGGAGCGTT	3'Race
tIL-1-F2	GAGCGGGGACACCACCCAGTTCGA	
GeneRacer 3'Primer	GCTGTCAACGATACGCTACGTAACG	
GeneRacer 3' nested Primer	CGCTACGTAACGGCATGACAGTG	
tcas-1-cF	CCTGAGCGATGGCGGATCGGCA	Tcaspase-1 cloning
tcas -1-cR	CGTGGGCTTGTCCTAATGGCCGG	
tIL-1-cF	CACATATGGCAGCTGTCCCCGACAT	t-IL-1beta precursor cloning
tIL-1-cR	TATCTCGAGGTGCTTGGCCTGCGTGAGCA	
tIL-1-g1F	GGGCCAGCACTCGCATCACA	Gene organization
tIL-1-g1R	CCGGGGGCTCAGTGCTTGGC	
tIL-1-g2F	ATCACAGGTTTCACCACCAGACGCAGCCAT	
tIL-1-g2R	TGCGTGAGCAGGTAGTTGGTGATGAACACC	
tIL-1-Flag-F	CTCGGATCCCAGGTTTCACCACCAGACGCAGCC	pcDNA3-tIL-1 β -Flag
tIL-1-Flag-R	TATCTCGAGGTGCTTGGCCTGCGTGAGCAGGTAG	
tCasp1-HA-F	ATTAAGCTTGCCACCATGTACCCATACGATGTTCCAGATTACG CTGCGGATCGGCAGCTCGGC	pcDNA3-tcasp1-HA
tCasp1-HA-R	TAATCTCGAGCTAATGGCCGGGGAACAGG	
rtIL-1-F	AATCATATGTACCGCTACCTCCGCTCCAT	Cloning of tIL-1 β (Y118-276H) C terminal into pET32a
rtIL-1-R	TATCTCGAGGTGCTTGGCCTGCGTGAGCA	
tIL-1 β -Bac-F	ACATTTCTTACATCTATGCGATGGCAGCTGTCCCCGACATGC	Cloning of tIL-1 β into pFastBacHT-melittin
tIL-1 β -Bac-R	CTCTAGTACTTCTCGACAAGCTTTAATGGTGATGGTGATGGTGA TGGTGCTTGGCCTGCGTGAGC	
tIL-1 β -Bac-131-F	ACATTTCTTACATCTATGCGATGACTGACCAGAAGTGCTTCAAG	Cloning of tIL-1 β (131–277) into pFastBacHT-melittin
tIL-1 β -Bac-131-R	CTCTAGTACTTCTCGACAAGCTTTAATGGTGATGGTGATGGTGA TGGTGCTTGGCCTGCGTGAGC	
tIL-1-qF	CTTCTCGACAATGACTT	IL-1 β Q-RT-PCR
tIL-1-qR	GTAGCGGTAGATGGAATT	
COX-2-qF	TTGACCGATATGAATGTG	COX-2 Q-RT-PCR
COX-2-qR	AATGAGTGAGGATGTAGT	
IL-18-qF	GGTAGACAACAAGACTTAC	IL-18 Q-RT-PCR
IL-18-qR	CTCGCATTAGTGAAGATT	
tCasp-1-qF	ATCTTCCGAAAGGTCCAG	tCASP-1 Q-RT-PCR
tCasp-1-qR	TTCAGCATGGTAGTTCTCT	
β -actin-qF	GAGACCCGACAGACTACCT	β -actin Q-RT-PCR
β -actin-qR	AGGATGATGAAGCAGCAGT	