

Porcine IL-1 alpha cDNA nucleotide sequence

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A porcine alveolar macrophage cDNA library in λ gt10 was screened by cross-species hybridization using a bovine IL-1 α cDNA probe (1). The porcine IL-1 α cDNA encodes a protein of 270 amino acids with a predicted molecular weight of 30,788. The amino acid sequence exhibits 90%, 82% and 75% similarity with bovine, human and murine IL-1 α , respectively. A protein with IL-1 activity was secreted by COS-7 cells transfected with the porcine IL-1 α cDNA (data not shown).

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REFERENCE

1. Maliszewski, C.R. *et al.* (1988) *Molec. Immunol.* **25**, 429.

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TTTGTGCGTCCAGCCAGCACAGAAGTGAAGATGGCCAAAGTCCCTGACCTCTTTGAAGACCTGAAGAAGTGTACAGTGAAAATGAAGAATACAGTTCTGATATCGACCATCTC 114
      M A K V P D L F E D L K N C Y S E N E E Y S S D I D H L 28
TCTCTGAATCAGAAGTCTCTATGATGCCAGCTATGAGCCACTTCTCTGGGGACGGCATGGATAAATTTATGCCTCTGAGTACCTCTAAAACCTCTAAGACATCCAGGCTAAAC 228
S L N Q K S F Y D A S Y E P L P G D G M D K F M P L S T S K T S K T S R L N 66
TTC AAGGACAGTGTGGTGTATGGCAGCAGCCAACGGGAAGATTCTGAAGAAGAGACGGTTGAGTTTAAATCAGTTTCATCACCAGATGACGACCTGGGAAGCCATTGCCAATGACACA 342
F K D S V V M A A A N G K I L K K R R L S L N Q F I T D D D L E A I A N D T 104
GAAGAAGAATCATCAAGCCAGATCAGCAACATACAGCTTCCAGAGCAACATGAAATACAACCTTCATGAGGGTTCATCAACCACCAGTGCATCCTGAATGATGCCGCAATCAA 456
E E E I I K P R S A T Y S F Q S N M K Y N F M R V I N H Q C I L N D A R N Q 142
AGCATCATTGAGACCCGTCAGGTCAATACCTCATGGCTGCTGTGCTAAATAACCTGGATGAGGCAGTGAATTTGACATGGCTGCTTATACATCAAATGATGATTGCAACTT 570
S I I R D P S G Q Y L M A A V L N N L D E A V K F D M A A Y T S N D D S Q L 180
CTGTGACTCTAAGAATCTCAGAAACCCGACTGTTTGTGAGTGTCTAAAACGAAGACGAACCCGTTGCTGAAGGAGCTGCCTGAGACACCCAAAACCATCAAAGATGAGACC 684
P V T L R I S E T R L F V S A Q N E D E P V L L K E L P E T P K T I K D E T 218
AGTCTCCTCTCTCTGGGAAAAGCATGGCAATATGGACTACTTCAAATCAGCCGCCATCCAAAGTTGTTTATTGCCACAAGGCAGGAAAACTGGTGACATGGCACCAGGGG 798
S L L F F W E K H G N M D Y F K S A A H P K L F I A T R Q E K L V H M A P G 256
CTGCCCTCTGTCACTGACTTTTCAGATACTGGAAAACAGTCTTGACTCTGGTGTCTACTTACCTGTGAAGTGTGACAGGCCGTATGTACCATGTACATGAAGGAGTTAAATCT 912
L P S V T D F Q I L E N Q S 270
TTCACTCTTAGTCACTCGCTGAGCATGTGCTGAGC 947 .....PolyA

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