

6-1-1990

## Boll Weevil Testis-Specific cDNA

Patrick M. Trewitt  
*Marquette University*

Larry J. Heilmann  
*US Department of Agriculture/Agricultural Research*

A. Krishna Kumaran  
*Marquette University*

---

Published version. *Nucleic Acids Research*, Vol. 18, No. 12 (June 1990): 3646. DOI. © 1990 Oxford University Press.

This material is declared a work of the U.S. Government and is not subject to copyright protection in the United States. Approved for public release; distribution is unlimited.

Used with permission.

## Boll weevil testis-specific cDNA

Patrick M.Trewitt, Larry J.Heilmann<sup>1</sup> and A.Krishna Kumaran

Biology Department/Biological and Biomedical Research Institute, Marquette University, Milwaukee, WI 53233 and <sup>1</sup>Biosciences Research Laboratory, US Department of Agriculture/Agricultural Research Service, Fargo, ND 58105, USA

Submitted April 10, 1990

EMBL accession no. X52058

We report the nucleotide sequence of a cDNA (cM1) isolated from a boll weevil (*Anthonomus grandis*) adult male library by differential screening with adult male vs. adult female ss-cDNA. The longest open reading frame specifies a protein containing a series of poly-arginine tracts, a common motif of vertebrate protamines. The cM1 transcript was detected in pharate adult male and adult testis RNA, but not in the RNA from other adult

male tissues nor from any adult female RNA preparations (data not shown).

### ACKNOWLEDGEMENT

This work was supported by USDA/ARS cooperative agreement # SCA 58-5759-6-12.

5' - AAACAAAGTAACCGATGCGCCGGAACAAAATATCCTCGGTTACCCCGGCTACAAACAGTTTTATTAAACAATT  
TATAACCATCCAAATTTTCATTTTAGCAAGGGCGCAACTCAAAATTCCTTAGTTAAAAGTGTTAACTCAAGATGACC  
ATCGTATCCAAATCCGAAGTATAATGTGAAATATTCAGTCAATTTAATTCGATTTAATAAAAAAGTGTAGAGGAAA

ATGGGGCTCGGGTTCAAATGCCGTCACATCCCGCCGAGCGTTTTACTGCGGTGGCAAAAAGCGCAGGCGCAGGAGG  
M G L G F K C R H I P P S V Y C G G K K R R R R R

AGCAAAAGAAGGAGGTCCAGATGCGGAAGGTCCAGACGTAGGAAATCGTGCCCGGAGGTGAAAGACCAACAAC  
S K R R R S R C G R S R R R K S C R G G R K T N N

CCCTTCCTGAACTACTTTGAGGGTGTTTAGGAAGAAACACTGCGGCTGGCCCCAGTGCAGGATCGCCATCGAGGGA  
P F L N Y L R V F R K K H C G W P Q C R I A I E G

GCCAAGTCTGGTGTAAAATGAGCGGGAGGGACCGAAAGAAGTACTACAATCAGGCGTGCAGCATGCTTAAGAAA  
A K C W C K M S G R D R K K Y Y N Q A C S M L K K

CGCGGGAGGAGGAGGAGGAGGCGTAGCTGCAGGCGCAGGCGCAGGAGCTGCCGAGGAGACGGCGCAGACGCAGG  
R G R R R R R R R S C R R R R R R R S C R R R R R R R R R R R

AGCTGCAACACGTGCCCAAGTAGGCCACCCCGATGGCGAGCGATGGAGGGAAGAAAATCATTTTGTGGTGGTG  
S C N T C P K \*

GAGTTGTTACGTCCGTATACAGTCGTAATTCGATGTCTCACACTATAGTAATTAATAAAAAATATTTTCGGGTTTTT-  
poly(A) -3'