

Additional file 4

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HEV-CANN|Hevein-UFV
HEVE-HEVBR-18-60-SP
gi|590615401|ref|XP_007023212.1|
gi|590642606|ref|XP_007030564.1|
gi|61660944|gb|AA51197.1|
gi|657380413|gb|KEH24556.1|
gi|787035412|dbj|BAR13255.1|
-----QNCGRQAGGRVCANRLCCSQ
-----EQCGRQAGGKLCFNNLCCSQ
MKNTQKMGNLSLC---LVFLVSLLASTATAQQCGRQAGRTICANNLCCSQ
-----MDKVNTVSRLLVFLVSLV-GAAVAEQCGWQAGGTICPDNLCCSQ
-----MGNFGVCFVLVLTGLI-ATTIAEQCGRQAGGKTCFNNLCCSQ
-----MGKLA---VLILVCLI-AATIAEQCGRQAGGKTCFNNLCCSQ
-----AGAVSQCGSQAGGQLCFNNLCCSQ
:::** ** * *.:*****

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gi|787035412|dbj|BAR13255.1|
FGFCGTIREYCGA--GCQSNCR-----
NGWCGSTIDEYCSPDHNCQSNCK-----
FGYCGTINEYCSPSKSCQSNCWPSG-----GGGGGESASNVRATYHFYN
YGWCGNTDAYCLPENNCQSNCKSS-----GPGGETA-TVSTYHFYN
YGYCGNTDDYCSPSKNCQSNCGGGGGG-GGGGGGESASNVRSTYHYR
YGYCGTIDEYCGP--NCQSNCHGS-----SGGGESASNVRATYHYR
YGYCGSTDAYCSTANHCQSNCHGGGNTPPSPSSDIGEGANNVRATYHLYN
:*** ** . *****

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gi|657380413|gb|KEH24556.1|
gi|787035412|dbj|BAR13255.1|
PPQNGWDLNAVSAYCSTWDANKPLAWRQKYGNTAFCGPVGPRQASCGRC
PEQHGWDLMNAVSAYCSTWDASKPFSWRSKYGNTAFCGPVGPTFPAACGRC
PETVGGT-----
PDQHGWDLNAVSAYCSTWDASKPYSWRSKYGNTAFCGPVGPRQASCGKC
PQDNGWSLYAVSAYCSTWDGQSYAWRSKYGNTAFCGPVGPHGQAACGQC

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gi|657380413|gb|KEH24556.1|
gi|787035412|dbj|BAR13255.1|
LRVTNRGTRAEAIIVRIVDQCSNGGLDLDAAVFQQIDTDGRGYAQGHLMVD
LRVTNIRINAQEIIVRIVDRCSNGGLDLVGVFNRLDITDGVGYAQGHLTVK
LRVTNSGTGAQETVRIVDQCSNGGLDLVGVFNRLDITDGRGYQQGHLIVS
LLVTINTATGAQATVRIVDQCSNGGLDLVNVFNRLDITNGQGYAQGHLTVN

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gi|61660944|gb|AA51197.1|
gi|657380413|gb|KEH24556.1|
gi|787035412|dbj|BAR13255.1|
-----D
YQFVNC-----GD
YEFVNCGDG---FNPLLSSVDDSSK
-----KR
YQFVDCGNELDITNPLFS--IIDAKQ
YQFVNCG-----D

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Alignment of the HEV-CANN sequence with PR-4 proteins from plants. The aligned sequences corresponded to the chitin-binding domain region of the peptide Hevein from *Hevea brasiliensis* (residues 18 to 60) and five sequences of pathogenesis-related proteins Class-4 (PR-4).