

CYS

Plants		*****						
<i>G. max</i>	VKDR	EPTSGNTG	ERRI	V-----Q	LQQF	PANPKVHYE	FVSGICTGGTIT	GISS
<i>Z. mays</i>	VKDR	EPTSGNTG	ERRI	V-----K	LQQF	PANPKIHYE	LVSGICTGGTIT	GISS
<i>A. thaliana</i>	VKDR	EPTSGNTG	ERRI	I-----A	LQQF	PANPKIHYE	FVSGICTGGTIT	GISS
<i>S. tuberosum</i>	VKDR	EPTSGNTG	ERRI	I-----S	LQQF	PANPKIHYE	LASGICTGGTIT	GISS
Nematodes								
<i>C. elegans</i>	VKDR	EPTSGNTG	ERRT	I-----D	LAQF	PNNPLVHYQ	VVFGVCTGGTIT	GISS

CAS

Plants								
<i>G. max</i>	-94-INKR	-121-EPTSGNMG	-153-ERRV	-178-V-----K	-194-LQQF	-200-PANTQVHFE	-225-FVMGICSGGTVS	-316-GISS
<i>Z. mays</i>	VKDR	EPTSGNMG	ERRV	V-----R	LQQF	PANVKVHYD	FVMGICSGGTVT	GISS
<i>A. thaliana</i>	INKR	EPTSGNMG	ERRV	V-----K	CQQF	PANTQIHFD	FVMGICSGGTVS	GISS
<i>S. tuberosum</i>	INKR	EPTSGNMG	ERRV	I-----K	LQQF	PANTQAHFE	FVMGICSGGTVS	GISS
Nematodes								
<i>C. elegans</i>	VKDR	EPTSGNMG	ERRC	V-----Q	LNQF	PANPEAHYK	VCFGVSGGCTCT	GISS
Bacterial donor								
<i>S. stellata</i>	VKDR	EMTSGNMG	ARAR	VTGADVTAAD	VDQF	TEGIAAH-E	FVAAVGTGSTYL	GFSA
<i>A. xylofidans</i>	VKDR	EMTSGNMG	ARAR	VTGADVEAAAR	VDQF	VECIAAHET	WVAAVGTGCTFM	GYSA
<i>M. radiotolerans</i>	VKDR	EMTSGNMG	QRAR	VTGADVDAAD	VNQF	PECMRAHRE	WVAAVGTGATFL	GYSA
<i>Methylobacterium</i> sp.	VKDR	EMSSGNMG	QRAR	VTGADVAAAAE	VDQF	PEGVAIHRD	WVASVGTGATFL	GYSA

Tetranychidae								
<i>T. urticae</i>	INKR	EVTSGNQG	QRAI	VTADDVAAAE	VDQF	PTNCLAHYE	FLVGCSTGGCFV	GFTT

Lepidoptera								
<i>P. xylostella</i>	INKR	EITSGNQG	QRAL	VTFADVVECEK	VNQF	PSNSLSHYK	FVATMGTGGVFT	GYTS
<i>D. plexippus</i> 1	INKR	EITSGNQG	QRAI	VTLSDVKAABE	VNQF	DMNSEAHYE	FVATVGTAGTFA	GYTS
<i>D. plexippus</i> 2	INKR	EITSGNQG	QRAI	VTLADVTAABE	VNQF	DMNSRAHYE	FVAAVGTAGTFA	GYTS
<i>B. mori</i>	INKR	EVTSGNQG	QRAI	VTLNDVKAVEE	VNQF	DANSESHYQ	FVATVGTAGTFT	GYTS
<i>M. sexta</i>	INKR	EVTSGNQG	QRAI	VTLADVKAABE	VNQF	DANAISHYE	FVATVGTAGTFT	GYTS
<i>H. melpomene</i> 1	INKR	EVTSGNQG	QRAI	VTLADVDAAKV	VNQF	PMDVDAAHYA	FIATVGTAGTFS	GYTS
<i>H. melpomene</i> 2	INKR	EVTSGNQG	QRAI	VTLADQAQAEK	VNQF	QMNADAHYC	FIATVGTAGTFV	GYTS
<i>H. melpomene</i> 3	INKR	EVTSGNQG	QRAI	VTLADVKAABE	VNQF	QMNADAHYY	FVATVGTAGTFT	GYTS