

hydra -----MAFV-----FIIIVFLSFLCGFSVILNVTVVLTI LAKGNTKNTRDVI LMSLAICDGVQCTI
rag-worm MDGENLTIPNPVTELM DTPINSTYFQNLNAETDGGNHYIYN AFTATDYNICAAYLFFIACLGVSLNVLVLVLF IKDRKL RSPNNFLYVSLALGDLLVAVF

I

II

GYPVELFGYANYKNPSLSEKFCCKPS*SGFI VMYLALT AIAHLVCLCIYRYLTIVYPLKLQIFLT KSNWSACGCIAFCWIIYGLFWSLSP LLGWNEIVREKQDT
GTAFKFIITARKTLLREEDGFCCKWYGFI TYLGGLAALMTLSVIAFVRCLAV---LRLGSFTGLTTRMGVAAMAFIWIYSLAFTLAPLLGWNHYIPEGLAT

III

IV

YRCSINLYPDNEIKSSYLYAL AIFCYLIPLIIIIYCSLKVRSEL RNMLKMCKQISGVEANITKVTYRIEKQDFISVSFIIASF FTVWTPYAVCVFYLTIG
W-CSIDWLSDETSDKSYVFAIFIFCFLVPVLIIVVSYGLIYDKVRKVAKTGGSVAKAEREVL RMTL-----LMVSLFMLAWSPYAVICMLASFG

V

VI

KK--LPPSFLT YCALFAK* SSTILNP IIYCLMYKKFRQTLQSKFG---KLFNNP-----TVT---PAV
PKDLLHPVATVIPAMFAK* SSTMYNPLIYVFMNKQFRRSLKVLLGMGVEDLNSESERATGGTATNQVAAT

VII