



05559\_B\_fuckeliana .....ELRILQAS.....G.....  
07854\_B\_fuckeliana .....QVKALQSA.....  
06595\_C\_immitis\_B .....EMRVMQAS.....G.....  
AN8245\_E\_nidulans\_B .....EVSILQES.....G.....  
236861\_L\_bicolor\_B .....DVAQMQUES.....G.....  
185397\_L\_bicolor\_B .....DVAQMOKS.....G.....  
UM02758\_U\_maydis\_B .....FKSRYAGA.....G.....  
02351\_F\_neoformans .....IIEAYHDA.....G.....  
Chi18\_18\_H\_jecorina .....DIPYCR.SK.....G.....V  
ZP\_01159542\_Photobac HNLIGYWHN.FV...NGSGC.....PIRLRDIS.PAWDIIIDIAFADND.RNSDG.....  
ZP\_01234779\_V\_angus HNLIGYWHN.FV...NGSGC.....PIRLRDIS.PAWDIIIDIAFADND.RNSDG.....  
NP\_231586\_V\_cholera HRLIGYWHN.FV...NGAGC.....PIRLADMS.QAWDVIDIAFAEND.RNSTG.....  
AAO10239\_V\_vulnific HKLIGYWHN.FV...NGAGC.....PIRLADMS.NAWDVIDIAFAEND.RNSNG.....  
NP\_902605\_C\_violace HALVGYWHN.FA...NPSGS.....AFPLSQVS.ADWDVIVVAFADDA.GN..G.....  
NP\_980050\_B\_cereus KLLVGYWHN.FD...NGTG.....IIKLRDVS.PKWVDVINVSFGETG.GDRS.....  
634143\_M\_xanthus KIIVGYWHN.FD...NGST.....NIRLRDVS.AKFNVIQVAFAEVGGPGSG.....  
ChiA\_S\_coelicolor HAVTGYWQN.FN...NGAT.....VQKISDVP.SAYDIIAVAFADAT..TTPG.....  
YP\_527176.1\_S\_degra HSLVGYWHN.FV...NGAGC.....PMRLSEMS.DKWVDVIDIAFADND.PASNG.....  
YP\_436543\_B\_H\_cheju HALIGYLHASF..NGSG.....YVRMADVS.NDWDVINLSFAEPT.SPTSG.....  
ChiB\_S\_coelicolor HALVGYLHASF..NGSG.....YTRMADVP.DSWDVIDLAFGEPT.SVTSG.....  
YP\_432187\_H\_chejue RVIVGYWHN.FD...NGSG.....FVRLPDVS.PDWVIDIVAFATPKLGSHS.....  
ZP\_01353924\_C\_phyto HILTYWQN.FD...NGAK.....CLKISDVP.QSYNIIAIAFAEAT..TTAG.....  
ZP\_00742457\_B\_thuri KLLVGYWHN.FD...NGTG.....IIKLRDVS.PKWVDVINVSFGETG.GDRS.....  
ZP\_01430879\_S\_tropi HILTYWQN.FD...NPAV.....ELRLRDVP.AEYDVVAVAFAEAT..TTPG.....  
ChiJ\_S\_coelicolor KVLQGYWEN.WDGAANGVHPPFGWTPITDPQIGAHGYNVNLNAAFPVIL..S.DG.....  
Chi18\_15\_H\_jecorina KVLQGYWEN.WDGAANGVHPPFGWTPITDPQIGAHGYNVNLNAAFPVIL..P.DG.....  
YP\_349297\_P\_fluores KIILMGFWHNPAGPSDGYQRGQFA.NIALENVP.KEYNVVAVAFMKGS.....G.....  
NP\_719615\_S\_oneiden GVVVGYWHNWCGG..AGYKGGVAP.CVSLAQVN.PQYNVVDISFMKVY.....G.ATG.S  
ZP\_01236292\_V\_angus GVVVGYWHNWADG..QGYKMGNAP.AMSLKDIN.PMYNVVDVDFMKVY.....DVAEG.R  
ChiC\_S\_marcescens KIILMGFWHNPAGPSDGYQRGQFA.NMNLTDIP.AEYNVAVAFMKGQ.....G.....  
YP\_237842\_P\_syringa NIILMGFWHNPWESGQGYQGMFA.EMPLTGID.KAYNVIAVAFMKGA.....G.....  
YP\_608169\_P\_entomop KIILMGFWHNPAGPADGYQRGQFA.NMSLEDVP.RDYNVAVAFMKGS.....G.....  
NP\_814153\_E\_faecali KVLVGYWHNWASKGRDGYKQGTSA.SLNLSEVN.QAYNVVPSVFMKSD.....GTRR...  
YP\_014504\_L\_monocyt QVLVGYWHSWKSSGNDGYQQGTSA.DIALKDTP.KAYNVVDVDFMKGD.....GVNR...  
YP\_071855\_Y\_pseudot KIFMGFWHNTSYPANGYKDGQST.NIPLADIP.KEFNVIAVAFMKGS.....G.....  
YP\_053588\_M\_florum KTLVGYHYDWG.....GNFENKIA.LNDKDLLT.SSYNVINLSFLYST.....VEYQ...  
NP\_471330\_L\_innocua QVLVGYWHSWKSSGKDGQGTSA.DIALKDTP.KAYNVVDVDFMKGD.....GVNR...  
ZP\_01245639\_B\_F\_joh KIILGYAHS.WE...NAGAP.....FLYFSQMVGSKFNVVDYSFVETVNRDGYT.....

70 80 90 100 110 120

05455\_B\_fuckeliana TIMLSVGG.....ATYT.....EGG.....FTSTQAATTAAN.....  
14944\_B\_fuckeliana TILLSIGG.....ATYT.....ENE.....LASADAATTAAK.....  
13155\_S\_sclerotioru KILLSLGG.....ASN.....TYQ.....LTGVADGEYFAD.....  
08695\_S\_sclerotioru TILLSIGG.....ATYS.....DSE.....LKTSDEATTAAK.....  
11212\_S\_sclerotioru TILLSVGG.....ATYT.....EGG.....FTSTAAAITAAN.....  
EAA72615\_G\_zeae KILLSIGG.....VYSDEGS..NYK.....VTTDDKGRDFAD.....  
02184\_N\_crassa KVLLSLDG.....VEH.MGS..RFS.....LSSEAKAEFAS.....  
04500\_N\_crassa SILLSIGG.....ATYS.....EGG.....FSSPAEAIKWAD.....  
MGG\_03599\_M\_grisea KILLSLGG.....GVA.....GYQ.....LTGADAGRAFAD.....  
MGG\_01333\_M\_grisea TILLSVGG.....ATYS.....EGG.....FPNVEAANKAAD.....  
16099\_R\_oryzae KVLLSLGG.....ATP.....EYG.....LNSYEEGESLAD.....  
10112\_R\_oryzae TILLSLGG.....AAG.....AYG.....FANDKDAVAFAD.....  
04523\_R\_oryzae KVLLSLGG.....AAG.....SYG.....FSSDSEGQTFAE.....  
11152\_R\_oryzae KILLSLGG.....ATG.....AYG.....FTSDAEGQQFAE.....  
08153\_R\_oryzae LVILSLGG.....ATG.....GVG.....FQSDSQATSFAD.....  
NP\_594130\_S\_pombe KVLLSIGG.....YNG.....NFS.....LNNDDDGTNFAP.....  
00864\_P\_nodorum KVLLSLGG.....GLP..T..NYY.....LPDEKTTTWFAP.....  
08680\_P\_nodorum TILLSFGGA.....ETAA.....DKG.....YASDDEAKAGAK.....  
AN8241\_E\_nidulans KVFLSLGG.....ATP.....TYW.....FDTIDASTKLD.....  
AN8217\_E\_nidulans TILLSIGG.....ATYS.....EGG.....FDSATAANAGAD.....  
Chi18\_14\_H\_jecorina KIILSLGG.....ASA.....FSS.....FQTADQAAQAGQ.....

Chi18\_16\_H.\_jecorina KVIIISLGG.....AAS.....SYS.....LQSQSQAVAIGQ.....  
 Chi18\_12\_H.\_jecorina TILLSLGG.....DTYS.....QGG.....WASPEAAQDAAA.....  
 Chi18\_17\_H.\_jecorina TIMMSLFG.....STYS.....ESG.....FSSSSAAVAAAQ.....  
 Chi18\_13\_H.\_jecorina LVILSMGG.....AVDFS.....AVT.....LSSDAQGQOLAD.....  
 04407.1\_C.\_cinereus IVTLSLGG.....ATG.....AVG.....FESDSQAVSFAQ.....  
 6412\_P.\_chrysosporiu IVTLSLGG.....ATG.....SVG.....FTGDSQAESFAD.....  
 2991\_P.\_chrysosporiu IVTISLGG.....ATG.....AAG.....FTSDAQASQFAN.....  
 40899\_P.\_chrysospori AITLSLGG.....ATG.....QIG.....FSSDSQAQTFAT.....  
 BAA21861.1\_A.\_thalia KVMLSLGGG.....IG.....NYS.....IGSREDAKVIAD.....  
 07348\_C.\_immitis TIILSIGG.....ATYS.....EGG.....FGSEEEAIAGAN.....  
 XP\_452410\_K.\_lactis KVFLSLGG.....AIG.....SYG.....FTDDSQAEEFAT.....  
 CTS1\_S.\_cerevisiae KVLLSLGG.....ASG.....SYL.....FSDDSQAETFAG.....  
 CHT1\_C.\_albicans TILLSLGG.....ATG.....NYG.....FSSDSEAVQFAG.....  
 CHT3\_C.\_albicans TILLSLGG.....AAG.....SYG.....FSDDATAKQFAH.....  
 CHT2\_C.\_albicans TVLLSLGG.....GVG.....DYG.....FSDVASATKFAD.....  
 05283\_L.\_elongisporu IVLLSLGG.....ASG.....SYG.....LSSDDVAREFAH.....  
 03890\_L.\_elongisporu KVILSLGG.....AAG.....NYG.....FTDGQEATDYAE.....  
 301747\_L.\_bicolor IITLSLGG.....AEG.....SFG.....FQSSSQATAFAH.....  
 CAC07216\_M.\_anisopli KIILSLGG.....ATS.....SYS.....LQTQAQAEQIGQ.....  
 Chit30\_M.\_anisopliae PVILSMGG.....ATDYS.....DVQ.....LNSDAQGQQIAN.....  
 AAG25709\_M.\_domestic KVILSIGGA.....SG.....SYS.....LTSADDARQVAT.....  
 ABA26457\_C.\_lanatus KVLLSIGGG.....AG.....SYS.....LSSAEDARDVAN.....  
 CAJ43737\_C.\_arabica KVLLSLGGG.....GAG.....AGRGPI.....LASPEDARGVAA.....  
 ConcanavalinB\_C.\_ens KVFLALGGP.....KG.....TYS.....ACSADYAKDLAE.....  
 Hevamine\_H.\_brasilie KVMLSLGGG.....IG.....SYT.....LASQADAKNVAD.....  
 Q8L5C6\_T.\_aestivum PVLSLGGY.....GT.....GYS.....LPSNRSALDLFD.....  
 Q53NL5\_O.\_sativa TVLLSIGGQ.....GG.....AYS.....LPTNASAADVAD.....  
 Chi18\_19\_H.\_jecorina VKVLAM.....LGGG.AKGS.....  
 Chi18\_20\_H.\_jecorina VKVMGM.....VGGG.APGS.....  
 01393\_N.\_crassa\_B IKVLGM.....LGGG.AKGS.....  
 08394\_N.\_crassa\_B VKIMGM.....IGGA.AAGS.....  
 XP\_386145\_G.\_zeae\_B VKVMGM.....LGGG.CKGS.....  
 XP\_382346\_G.\_zeae\_B IKVLGM.....LGGG.AQGS.....  
 MGG\_04073\_M.\_grisea VKILGM.....LGGH.ARGs.....  
 MGG\_01876\_M.\_grisea VRVMAM.....VGGG.AEGS.....  
 01513\_S.\_sclerotioru IKVMGM.....LGGG.AKGS.....  
 03420\_S.\_sclerotioru IRVSCM.....MGGG.AWGT.....  
 05559\_B.\_fuckeliana IKVMGM.....LGGG.AKGS.....  
 07854\_B.\_fuckeliana .....G.....  
 06595\_C.\_immitis\_B TKVMGM.....LGGG.AKGS.....  
 AN8245\_E.\_nidulans\_B IKVMGM.....LGGG.APGT.....  
 236861\_L.\_bicolor\_B VKVMGM.....LGGG.AAGS.....  
 185397\_L.\_bicolor\_B VKVMGM.....LGGG.GTGS.....  
 UM02758\_U.\_maydis\_B MKLMVS.....VFGA.TDTP.....  
 02351\_F.\_neoformans IAIMIA.....AFGS.TDQP.....  
 Chi18\_18\_H.\_jecorina KVILSIGG.....VYNALTS.NYF.....VGDNGTATDFAT.....  
 ZP\_01159542\_Photobac TVHFNLYNGDIRSSCEPLNPQ.....QFK.....DDVRELRAQ GK.....  
 ZP\_01234779\_V.\_angus TVHFNLYNGDIRSSCEPLDPQ.....QFK.....DDVRELRAQ GK.....  
 NP\_231586\_V.\_cholera TVHFNLYAGDIYSSCPALDPA.....QFK.....QDMKALQAKGK.....  
 AAO10239\_V.\_vulnific TVHFNLYSGDIYSSCAPLDPL.....QFK.....QDMAALQAQ GK.....  
 NP\_902605\_C.\_violace NVSFTLDP.....AAGS.AA.....QFI.....QDIRAQQAKGK.....  
 NP\_980050\_B.\_cereus TVEFS.....PVYGTDA.....EFK.....SDISYLKSKGK.....  
 634143\_M.\_xanthus RMAFT.....PYNASVA.....DFK.....ADIALLLKSQGR.....  
 ChiA\_S.\_coelicolor AVTFNLDs.....AGLGGYTVd.....QFK.....ADVRAKQAAGK.....  
 YP\_527176.1\_S.\_degra TVHFNLFPG..TGNCPAMNAE.....QFK.....ADMRALQAQ GK.....  
 YP\_436543\_B\_H.\_cheju EVEFHLCp..VSECANVESEA.....DFK.....AAIRAKQAQ GK.....  
 ChiB\_S.\_coelicolor DIRFERCP..VAECPNVEDSA.....EFK.....AAIKAKQAAGK.....  
 YP\_432187\_H.\_chejuen DMEFS.....PFQITPA.....QMK.....ADIAAVQARGQ.....  
 ZP\_01353924\_C.\_phyto EVTFKLDsN.LASKLGGYTEQ.....QFI.....NDIAAAKAKGQ.....  
 ZP\_00742457\_B.\_thuri TVEFS.....PVYGTDA.....EFK.....SDISYLKSKGK.....  
 ZP\_01430879\_S.\_tropi EVTFAVDPG.LSASLGGYTDa.....DFA.....ADVRTLKGQGR.....  
 ChiJ\_S.\_coelicolor TALWEDG.....MDRGVKV.....ATP.....AEMCAAKASGQ.....

Chi18\_15\_H.\_jecorina TALWQDG.....MDATVKV.....ATP.....AEMCQAKAAGA.....  
 YP\_349297\_P.\_fluores IPTFKP.....FNVSDA.....EFR.....RQVGVLSQGR.....  
 NP\_719615\_S.\_oneiden IPTFKLDPA.....VGLSEA.....QFI.....DQIGELNRQGR.....  
 ZP\_01236292\_V.\_angus IPTFHLDAE.....TGLTEQ.....QFI.....DQIKELNDQGR.....  
 ChiC\_S.\_marcescens IPTFKP.....YNLSDA.....EFR.....RQVGVLSQGR.....  
 YP\_237842\_P.\_syringa IPTFKP.....YNLSDE.....AFR.....AQVAELNAQGR.....  
 YP\_608169\_P.\_entomop IPTFKP.....YNLSDA.....EFR.....RQVGVLSQGR.....  
 NP\_814153\_E.\_faecali IPTFKP.....YNQTDI.....AFR.....QEVAQLNSQGR.....  
 YP\_014504\_L.\_monocyt IPTFKP.....VGINDS.....DFR.....AQVGALNKEGR.....  
 YP\_071855\_Y.\_pseudot IPTFRP.....YNGSDE.....QFR.....TQVDKLHSEGR.....  
 YP\_053588\_M.\_florum MPTYSP.....NN..PA.....AIK.....EGVKALQSQGR.....  
 NP\_471330\_L.\_innocua IPTFKP.....VGINDS.....DFR.....AQVGALNKEGR.....  
 ZP\_01245639\_B\_F.\_joh PILTTNDTR..YLTVGVFNKQ.....LLK.....NDIKSLRDSGV.....

	130	140	150	160	170	180
05455_B._fuckeliana	.....NLWSWFGP..DTS.....G.....DIRPFG.....SAVID					
14944_B._fuckeliana	.....NVWAAFPG..KTS.....SS..TTRPFG.....DAVVD					
13155_S._sclerotioru	.....FLWGSYGP..FKQS.....WLDN.GGIRPMDGGYYGTD..NIHIDID					
08695_S._sclerotioru	.....NVWAAFPG..KTS.....SS..TTRPFG.....DAVVD					
11212_S._sclerotioru	.....NIWSWFGP..YSS.....G.....VVRPFG.....TAVVD					
EAA72615_G._zeae	.....FLYKSFPG..HNEH.....SNP.....IRPFDSIDNDGN..TVHAAVD					
02184_N._crassa	.....FLWGAFPG..YDAK.....WTG.....PRPFDFAHR.....VSVD					
04500_N._crassa	.....RLWAMFGP..VSN.....SD..KRPFG.....TAVVD					
MGG_03599_M._grisea	.....QLWAFPGP..RPDG.....STL.....PRPFDGESR.....VADLD					
MGG_01333_M._grisea	.....NLWAMFGPPPAAST.....NDAATVNRPFG.....TAYID					
16099_R._oryzae	.....ELWYTFGG..GSD.....TN..TFRPFG.....NASVD					
10112_R._oryzae	.....TLWATFGG..GKS.....ER..RPFG.....DAVVD					
04523_R._oryzae	.....TIWNLFGG..GTS.....DT..RPF..DAVID					
11152_R._oryzae	.....TLWNLFGR..GSS.....ET..RPF..DAIID					
08153_R._oryzae	.....TIWNFLG..GES.....SI..RPF..DAILD					
NP_594130_S._pombe	.....QVWNIFGS..GED.....SY..RPF..KAVVD					
00864_P._nodorum	.....FLVGAFPG..KQDG.....WTG.....PRPIG.....DEFVD					
08680_P._nodorum	.....KIWEMFGP..KTA.....AS..SIRPFD.....DAVVD					
AN8241_E._nidulans	.....FLWGAFPG..VTDA.....WTVA.DKPRPFG.....NAVVD					
AN8217_E._nidulans	.....LLWATFGP..DQN.....DT..KIHRPFG.....SAVID					
Chi18_14_H._jecorina	.....YLWNAYG..GGS.....GVT.....RPLG.....NNVMD					
Chi18_16_H._jecorina	.....YLWNAYGN..SGNT.....TVQ.....RPF..NVFVN					
Chi18_12_H._jecorina	.....QVWAMFGP..VQS.....DS..SAPRPF..DAVVD					
Chi18_17_H._jecorina	.....EIWAMYGP..VQS.....GN..STPRPF..DAVVD					
Chi18_13_H._jecorina	.....TVWNLFGL..GTAN.....PTL.....RPF..SVKLD					
04407.1_C._cinereus	.....TVWDMFLG..GRS.....DM..RPF..NAVLD					
6412_P._chrysosporiu	.....TIWNFLG..GSS.....ST..RPF..DAVLD					
2991_P._chrysosporiu	.....TIWNFLG..GSS.....ST..RPF..SAVLD					
40899_P._chrysospori	.....QIWNLFGL..GSS.....ST..RPF..TAILD					
BAA21861.1_A._thalia	.....YLWNNFLG..GK.....SS..SRPLG..DAVLD					
07348_C._immitis	.....LIWETFGP..QKN.....SS..RP..DATVD					
XP_452410_K._lactis	.....TLWNTFGE..GTAD.....NV..ERPFD..TAVVD					
CTS1_S._cerevisiae	.....TLWDTFGE..GTG.....AS..ERPFD..SAVVD					
CHT1_C._albicans	.....TLWNKFG..GGK.....DS..ERPFD..DAIVD					
CHT3_C._albicans	.....TLWDLFGN..SKNL.....ATN..DRPFY..DAVLD					
CHT2_C._albicans	.....TLWNKFG..AGE.....DP..ERPFD..DAVVD					
05283_L._elongisporu	.....TVWDLFGN..SDTL.....SSD..ERPFG..DAVLD					
03890_L._elongisporu	.....TLWNKFGP..TGS.....DD..ERPFD..DAVVD					
301747_L._bicolor	.....TIWNMFLG..GSS.....AT..RPF..HAVLD					
CAC07216_M._anisopli	.....YLWDSYGN..SGNK.....TVQ.....RPF..SNFVN					
Chit30_M._anisopliae	.....TVWNLFGL..GTDH.....KEL.....RPF..DVKLD					
AAG25709_M._domestic	.....YLWNNFLG..GQ.....SS..SRPLG..AAVLD					
ABA26457_C._lanatus	.....FLWNNFLG..GQ.....SS..SRPLG..DAVLD					
CAJ43737_C._arabica	.....YLWNNYLG..GQ.....SD..SRPLG..AAVLD					
ConcanavalinB_C._ens	.....YLHTYFLS..ER.....RE..G..PLG..KVALD					
Hevamine_H._brasilie	.....YLWNNFLG..GK.....SS..SRPLG..DAVLD					



MGG_01333_M._grisea	GFDDLDFETHG.....	IKN.....	LAAFARRLRQVM.....	D...TAA
16099_R._oryzae	GFDDLDIENG.....	AKDG.....	YPAFVNRMREHY.....	A...KET
10112_R._oryzae	GFDDLIEGG.....	GSTG.....	YAAMVKRLRSHF.....	N...SDR
04523_R._oryzae	GIDLDIEGG.....	SSTG.....	YAAFVTALRSK.....	.....
11152_R._oryzae	GIDLDIEGG.....	SSGG.....	YAALVTALRSKS.....	A...S..
08153_R._oryzae	GIDLDIEGG.....	GSNH.....	YTTFLQALSS.H.....	F...VNA
NP_594130_S._pombe	GFDFLEVNKG.....	TNTA.....	YSAFAKRMLEIY.....	A...SDP
00864_P._nodorum	GFDDLLEAEASKVPRPE.....	LISAN.....	YGFLVNELKRFN.....	N...D..
08680_P._nodorum	GFDFDFEDETAVF.....	ASRH.....	RDAFIKELSSLA.....	R...AAET
AN8241_E._nidulans	GFDFDIEFFG.....	SKG.....	YANMIKRFRRRF.....	G...EVP
AN8217_E._nidulans	GFDFDFEAA.....	VTN.....	TGVFATRLRALA.....	D...ADT
Chi18_14_H._jecorina	GFDDLDIENPGT.....	NEN.....	YAALVSALRSNF.....	A...SDP
Chi18_16_H._jecorina	GFDFDIELNAG.....	SOY.....	YQYLISLRSNF.....	A...NDP
Chi18_12_H._jecorina	GFDFDFEST.....	TNN.....	LVAFGAQLRTLS.....	DAAATDS
Chi18_17_H._jecorina	GFDFDLEDP.....	IENN.....	MEPFAAELRSLI.....	D...AST
Chi18_13_H._jecorina	GVDLNETG.....	NPTG.....	YLAMAQRFKSNF.....	A...KDT
04407.1_C._cinereus	GVDLDIIEGG.....	TSGH.....	YGAFVNKIRA.L.....	A...APT
6412_P._chrysosporiu	GVDLDIIEGG.....	TSTG.....	YAAFINRIQS.H.....	A...SGA
2991_P._chrysosporiu	GVDLDIIEGG.....	STQY.....	FTTFVSTLRS.L.....	M...NGG
40899_P._chrysospori	GIDLDIIEG.....	TPAH.....	YAAFVNQIRS.L.....	A...APT
BAA21861.1_A._thalia	GIDFNIELGS.....	PQH.....	WDDLARTLSKFS.....	H.....R
07348_C._immitis	GFDDLDFEAT.....	VRN.....	MVPFANRLRSLM.....	A...ADA
XP_452410_K._lactis	GFDFDIENN.....	NPTG.....	YASLATKLRSLY.....	A...KGS
CTS1_S._cerevisiae	GFDFDIENN.....	NEVG.....	YSALATKLRTL.....	A...EGT
CHT1_C._albicans	GFDFDIENK.....	DQTG.....	YAALATQLR.KY.....	F...STG
CHT3_C._albicans	GFDFDIENN.....	WSTG.....	YPALATELRTL.....	Q...KDT
CHT2_C._albicans	GFDFDIEHG.....	GATG.....	YPELATALRGKF.....	A...KDT
05283_L._elongisporu	GFDDYDIENN.....	SPTG.....	YAAMASELRTIF.....	A...TDT
03890_L._elongisporu	GFDFDIELG.....	TDVG.....	YPQLATALRSKF.....	A...SDS
301747_L._bicolor	GIDLDFENG.....	TSDY.....	FATFVNTIRS.L.....	E...KGT
CAC07216_M._anisopli	GFDFDIEVNGGS.....	SOY.....	YQYMIAKLRSNF.....	G...SDE
Chit30_M._anisopliae	GVDLNETN.....	DGTG.....	YLAMTKQFKANF.....	Q...KDT
AAG25709_M._domestic	GIDFDIEGGT.....	DQH.....	WDDLARYLSGYS.....	K....R
ABA26457_C._lanatus	GIDFDIESGS.....	GQW.....	WDELARQLKGF.....	.....
CAJ43737_C._arabica	GIDFDIEYGS.....	NLY.....	WDDLARALSGYS.....	T...A
ConcanavalinB_C._ens	GIHFDIQKPV.....	ELN.....	WDNLLLEELYQIK.....	D...VY
Hevamine_H._brasiliu	GIDFDIEHGS.....	TLY.....	WDDLARYLSAYS.....	K....Q
Q8L5C6_T._aestivum	GVDLFLEHGTP.....	ADR.....	YDVLALAKLAKHN.....	IRGGP
Q53NL5_O._sativa	GIDFFIDQGG.....	ADH.....	YDDLARRLDGYN.....	KYYRGRV
Chi18_19_H._jecorina	GLDLVVEEE.....	MSLGG.....	VVKLIDRLRSDF.....	G.....
Chi18_20_H._jecorina	GMDLDVEQP.....	MSQQG.....	IDRLIARLRADF.....	G.....
01393_N._crassa_B	GLDLVVEEE.....	MSLAG.....	VIYLIDRLRSDF.....	G.....
08394_N._crassa_B	GLDIDVEQP.....	MSQGG.....	IERLILRLRADF.....	G.....
XP_386145_G._zeae_B	GLDLVVEEV.....	MSLGG.....	IVRLIDRLRSDF.....	G.....
XP_382346_G._zeae_B	GLDLDIEEA.....	MSLGG.....	VIRLIDHLKTD.....	G.....
MGG_04073_M._grisea	GLDLVVEEP.....	MSLQG.....	IVRLIDRLRADF.....	G.....
MGG_01876_M._grisea	GLDVDVEQP.....	MSLRG.....	AVRLVRRLED.....	G.....
01513_S._sclerotioru	GLDLVVEEE.....	MTLAG.....	IIRLIDRLKADF.....	G.....
03420_S._sclerotioru	GIDIDVEQF.....	VDITV.....	ALRLIKQLYKDM.....	G.....
05559_B._fuckeliana	GLDLVVEEE.....	MTLAG.....	IIRLIDRLKADF.....	G.....
07854_B._fuckeliana	GIDIDVEQF.....	VDITV.....	ALRLIKQLYTDM.....	G.....
06595_C._immitis_B	GLDLVVEED.....	MSLDG.....	IIRLIDRLKSDF.....	G.....
AN8245_E._nidulans_B	GIDLDVEEP.....	MSLAG.....	IVRLIDRLKADL.....	G.....
236861_L._bicolor_B	GFDDLIEEP.....	DSLAN.....	IVKLIQKLRSDF.....	G.....
185397_L._bicolor_B	GFDLDIEET.....	DSLDN.....	VVKLIQQLRSDF.....	G.....
UM02758_U._maydis_B	GVVDVYEEM.....	ELFAQGK.....	SSEWLIELTRSLRNQL.....	PS.....
02351_F._neoformans	GVVDIDYEDM.....	SAMNSAR.....	AVSWIVELQVELRNLL.....	PS.....
Chi18_18_H._jecorina	GFDFDIEADFP.....	NGP.....	YIKMIETFRSLD.....	S...S..
ZP_01159542_Photobac	GLDIDLESG.....	SNLLHG.....	TEIQARLPVALKQIEANI.....	G.....
ZP_01234779_V._angus	GLDIDLESG.....	SNLLHG.....	TEIQARLPVALKQIEANI.....	G.....
NP_231586_V._cholera	GLDVDLESG.....	SNLVHG.....	SQIQARLGRALKQIEKNI.....	G.....
AAO10239_V._vulnific	GLDVDLESG.....	SNLVHG.....	SQIQARLGRALLQIEQNI.....	G.....

NP\_902605\_C\_violace GIDLDLESG.....SGIVVG.APVVSNLVSAVKQLKAKI.....G.....  
 NP\_980050\_B\_cereus GIDIDLESG.IYLNGN...DTNFKNPPTTPQIVNLI SAIRTISDHY.....G.....  
 634143\_M\_xanthus GLDLDLEGGSSLSLNGG...DTDFRNPTTPRIVNIIQATRQLLNQN.....G.....  
 ChiA\_s\_coelicolor GVDIDLENG.....LNP.T...YMTQALRALSAKA.....G.....  
 YP\_527176.1\_s\_degra GVDIDLESG.....SOLLHG.SQIQARLITSLRTIDANV.....G.....  
 YP\_436543\_B\_H\_cheju GLDIDFEGHSLYLNSG...DNDFRNPPTTPVIVNLI AALKELKAKY.....G.....  
 ChiB\_s\_coelicolor GLDIDFEGHSLSLNAD...DTDFKNPKTPVIVNLSAVKTLKAKY.....G.....  
 YP\_432187\_H\_chejuen GFDIDLEGGSSLSLDAG...DTDFKNPKSPVLT HLI SASKRIISNF.....G.....  
 ZP\_01353924\_C\_phyto GVDIDLENG.....INA.T...YMTSALRQLSTKA.....G.....  
 ZP\_00742457\_B\_thuri GIDIDLESG.IYLNGN...DTNFKNPPTTPQIVNLI SAIRTISDHY.....G.....  
 ZP\_01430879\_s\_tropi GVDIDLENG.....LNP.T...YMAQALRSRAQV.....G.....  
 ChiJ\_s\_coelicolor GIDIDIETGLTG.....SGNINQLSASQSNLIRIIDGVLARM.....P.....  
 Chi18\_15\_H\_jecorina GLDIDIETGLTG.....SGSVGTLSTS QANLIRIIDGIL AQM.....P.....  
 YP\_349297\_P\_fluores GLDIDLEQS.....AIDFAANKTVLPAALKLVK DHYAGQ.....G.....  
 NP\_719615\_S\_oneiden GLDIDLEQA.....AVTAADNQIVIPAALRIVK DHYRKQ.....Q.....  
 ZP\_01236292\_V\_angus GLDIDLEQA.....AIDAADNQTVIPAALRMVK DHYRAQ.....G.....  
 ChiC\_s\_marcescens GLDIDLEQA.....AIGAANNKTVLPAALKKVK DYYAAQ.....G.....  
 YP\_237842\_P\_syringa GLDIDLEQA.....AITFADNRTVLP AALRMVREHYETE.....G.....  
 YP\_608169\_P\_entomop GLDIDLEQS.....AIDFAANKTVLPAALKLVK DHYAAE.....G.....  
 NP\_814153\_E\_faecali GLDIDLEQL.....AITAGDNQTVIPATL KIVK DHYRAQ.....G.....  
 YP\_014504\_L\_monocyt GLDIDLEQS.....AITAGDNKTVIPAALKIVK DHYKAE.....G.....  
 YP\_071855\_Y\_pseudot GLDIDLEQA.....AISYKENSTVIPRALKTVK DYYANL.....G.....  
 YP\_053588\_M\_florum GLDIDWESE.....SLKSSSEKNVTA EALKELKDEYKSE.....G.....  
 NP\_471330\_L\_innocua GLDIDLEQS.....AITAGDNKTVIPAALKIVK DHYKAO.....G.....  
 ZP\_01245639\_B\_F\_joh GVDIDFEGGSMNFNAGGLRDISYAGISAYPRLKNVVD AFKELKAYY.....G.....

	250	260	270	280	290	300
05455_B_fuckeliana	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	TKT	WL	LSAAPQ	CPYP	.....
14944_B_fuckeliana	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	SKK	YY	LTAAPQ	CPYP	.....
13155_S_sclerotioru	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	SKK	YF	ISGAPQ	CPLP	.....
08695_S_sclerotioru	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	SKK	YY	LTAAPQ	CPYP	.....
11212_S_sclerotioru	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	SRT	WL	LSAAPQ	CPYP	.....
EAA72615_G_zeae	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	.....	LT	ITGAPQ	CPTS	.....
02184_N_crassa	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	E	LL	LTAAPG	CSLD	.....
04500_N_crassa	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	ATSGKK	FL	LSSAPQ	CFPF	.....
MGG_03599_M_grisea	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	GRRKIRL	.....	LTASPQ	CVVP	.....
MGG_01333_M_grisea	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	RPAAVLPSDDKSYPMVPSPEATKK	FY	LAAAPQ	CVFP	.....
16099_R_oryzae	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	SKE	YY	IAAAPQ	CPFP	.....
10112_R_oryzae	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	SKK	YY	ITGAPQ	CPFP	.....
04523_R_oryzae	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	GH	FL	IGAAPQ	CPFP	.....
11152_R_oryzae	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	QD	FL	IGAAPQ	CPFP	.....
08153_R_oryzae	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	SKK	YY	ITAAPQ	CVFP	.....
NP_594130_S_pombe	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	RRK	YY	ISAAPT	CMVP	.....
00864_P_nodorum	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	.....	FL	ITAAPQ	CEVP	.....
08680_P_nodorum	AG..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	GKK	FY	FSAAPQ	ECTQ	.....
AN8241_E_nidulans	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	DQT	FY	ISAAPQ	CSIP	.....
AN8217_E_nidulans	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	SKK	YY	LTAAPQ	CPYP	.....
Chi18_14_H_jecorina	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	SRQ	YV	ISGAPQ	CPLP	.....
Chi18_16_H_jecorina	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	KNT	YY	ITGAPQ	CPIP	.....
Chi18_12_H_jecorina	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	NKK	FY	LAAAPQ	CFFP	.....
Chi18_17_H_jecorina	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	SKK	FY	LSAAPQ	CPYP	.....
Chi18_13_H_jecorina	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	SKK	YY	LTAAPQ	CPFP	.....
04407.1_C_cinereus	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	GKK	YY	VTAAPQ	CVYP	.....
6412_P_chrysosporiu	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	SKK	YY	ITGAPQ	CVYP	.....
2991_P_chrysosporiu	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	SKK	YY	ITGAPQ	CPFP	.....
40899_P_chrysospori	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	GKK	YI	ITAAPQ	CPYP	.....
BAA21861.1_A_thalia	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	GRK	IY	LTGAPQ	CPFP	.....
07348_C_immitis	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	SKK	YF	LTVAPQ	CPYP	.....
XP_452410_K_lactis	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	KD	YY	LAAAPQ	CVYP	.....
CTS1_S_cerevisiae	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	KQ	YY	LSAAPQ	CPYP	.....
CHT1_C_albicans	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	TKS	YY	LSAAPQ	CPYP	.....

CHT3_C._albicans	.....	SKN..YY.....	LGAAPQCPYP.....
CHT2_C._albicans	.....	SKN..YF.....	LSAAPQCPYP.....
05283_L._elongisporu	.....	SKL..YY.....	LGAAPQCVYP.....
03890_L._elongisporu	.....	SKS..YY.....	LSAAPQCPYP.....
301747_L._bicolor	.....	DKR..YY.....	ITAAPQCTSL.....
CAC07216_M._anisopli	.....	ANT..YY.....	ITGAPQCPPI.....
Chit30_M._anisopliae	.....	SKK..YY.....	ITAAPQCPYP.....
AAG25709_M._domestic	.....	GKK..VY.....	LTAAPQCPFP.....
ABA26457_C._lanatus	.....	Q...VL.....	LSAAPQCPPI.....
CAJ43737_C._arabica	.....	ERK..VY.....	LSAAPQCFPP.....
ConcanavalinB_C._ens	.....	QST..FL.....	LSAAPGCLSP.....
Hevamine_H._brasilie	.....	GKK..VY.....	LTAAPQCPFP.....
Q8L5C6_T._aestivum	.....	GKP..LH.....	LTATVRCGYPP.....
Q53NL5_O._sativa	.....	G...VL.....	LTATTRCSYP.....
Chi18_19_H._jecorina	.....	KG..FL.....	ITLAPVAAALL.....
Chi18_20_H._jecorina	.....	PD..FL.....	ITLAPVASALE.....
01393_N._crassa_B	.....	PD..FL.....	ITLAPVAAAML.....
08394_N._crassa_B	.....	KD..FI.....	ITLAPVASALT.....
XP_386145_G._zeae_B	.....	PT..FI.....	ITLAPVAMSLI.....
XP_382346_G._zeae_B	.....	QS..FL.....	VTLAPVAPALR.....
MGG_04073_M._grisea_	.....	PD..FI.....	ITLAPVATALL.....
MGG_01876_M._grisea_	.....	PD..FV.....	LTQAPVGTALS.....
01513_S._sclerotioru	.....	SG..FI.....	ITLAPVAAALI.....
03420_S._sclerotioru	.....	LG..FD.....	ITMAPVASALS.....
05559_B._fuckeliana	.....	AG..FI.....	ITLAPVAAALV.....
07854_B._fuckeliana	.....	PD..FD.....	ITMAPVASALY.....
06595_C._immitis_B	.....	DE..FI.....	ITLAPVATAMV.....
AN8245_E._nidulans_B	.....	ER..FI.....	ITLAPVAAALL.....
236861_L._bicolor_B	.....	ED..FI.....	ITLAPVASALK.....
185397_L._bicolor_B	.....	ED..FI.....	ITLAPVASALK.....
UM02758_U._maydis_B	.....	PD..YI.....	ITHAPVAPWFN.....
02351_F._neoformans_	.....	P...YI.....	ISHAPVAPWFT.....
Chi18_18_H._jecorina	.....	ML.....	ITGAPQCPTN.....
ZP_01159542_Photobac	.....	GD..MY.....	LTMAPEHYPYVQGGMIAYS.....
ZP_01234779_V._angus	.....	GD..MY.....	LTMAPEHYPYVQGGMIAYS.....
NP_231586_V._cholera	.....	GD..MF.....	LTMAPEHYPYVQGGMVAYS.....
AAO10239_V._vulnific	.....	GD..MY.....	LTMAPEHYPYVQGGMVAYS.....
NP_902605_C._violace	.....	PN..FY.....	LSMAPEHYPYVQGGFVAYG.....
NP_980050_B._cereus	.....	PD..FL.....	LSMAPETAYVQGGYSAYG.....
634143_M._xanthus	.....	PG..FI.....	LTMAPETAYVQGGMAAYG.....
ChiA_S._coelicolor	.....	PD..MI.....	LTMAPQTIDMQS..TQGG.....
YP_527176.1_S._degra	.....	G...MV.....	LTMAPEHYPYVQGGYIAYS.....
YP_436543_B_H._cheju	.....	AG..FV.....	LTMAPETFFVQNGYSFYGS.....
ChiB_S._coelicolor	.....	DG..FV.....	LTMAPETFFVQLGYQYYGT.....
YP_432187_H._chejuen	.....	GN..LM.....	LTMAPETYYYVQGGFSAYG.....
ZP_01353924_C._phyto	.....	SG..LI.....	ITMAPQTLDMQS..VNSG.....
ZP_00742457_B._thuri	.....	PD..FL.....	LSMAPETAYVQGGYSAYG.....
ZP_01430879_S._tropi	.....	AE..LI.....	IAMAPQTIDMQN..PTTS.....
ChiJ_S._coelicolor	.....	SN..FG.....	LTMAPETAYVTGGSIVYG.....
Chi18_15_H._jecorina	.....	SN..FG.....	LTMAPETAYVTGGSITYG.....
YP_349297_P._fluores	.....	KH..FI.....	ISMAPEFFPYLT.....
NP_719615_S._oneiden	.....	KN..FL.....	ITMAPEFFPYLT.....
ZP_01236292_V._angus	.....	KN..FL.....	ITMAPEFFPYLT.....
ChiC_S._marcescens	.....	KN..FI.....	ISMAPEFFPYLR.....
YP_237842_P._syringa	.....	KH..FI.....	ISMAPEFFPYLRSAARDTPLLKEITT.....
YP_608169_P._entomop	.....	KH..FI.....	ISMAPEFFPYLT.....
NP_814153_E._faecali	.....	KN..FI.....	ITMAPEFFPYLK.....
YP_014504_L._monocyt	.....	KN..FL.....	ITMAPEFFPYLK.....
YP_071855_Y._pseudot	.....	QH..FI.....	ISMAPEFFPHLR.....
YP_053588_M._florum	.....	KD..FI.....	ITMAPEFFPYLR.....
NP_471330_L._innocua	.....	KN..FL.....	ITMAPEFFPYLK.....
ZP_01245639_B_F._joh	.....	PG..FL.....	LTAAPETQYVQGGYTTYT.....

	310	320	330	340	350	360
05455_B_fuckeliana	.....	D.....	A..ADGPMLDG..	TVA.FD.....	.....	IVVWQF
14944_B_fuckeliana	.....	D.....	Q..ADKSFLQG..	AVS.FD.....	.....	AVFVQF
13155_S_sclerotioru	.....	E.....	P..NMGAMIAG..	AKFD.....	.....	LLWIQF
08695_S_sclerotioru	.....	D.....	Q..ADKSFLQG..	EVS.FD.....	.....	AVFVQF
11212_S_sclerotioru	.....	D.....	A..ADGPMLNG..	AVS.FD.....	.....	IVVWQF
EAA72615_G_zeae	.....	D.....	EYFYMKDMIKS..	AKFD.....	.....	ALFVQF
02184_N_crassa	.....	D.....	.....VKMKAIFDN..	AQFD.....	.....	ALFIQF
04500_N_crassa	.....	D.....	R..ANNDDLQS..	VA.FD.....	.....	FVSVQF
MGG_03599_M_grisea	.....	D.....	S..NLSDVIRA..	VRFD.....	.....	ALFIQF
MGG_01333_M_grisea	.....	D.....	A..AMDAALSSD..	VA.FD.....	.....	FIMVQF
16099_R_oryzae	.....	D.....	F..FLGETLDS..	SWFD.....	.....	FIMIQF
10112_R_oryzae	.....	D.....	A..MLGPALDA..	SE.FD.....	.....	AVFVQF
04523_R_oryzae	.....	D.....	A..ILGSVIDA..	VG.LD.....	.....	FVNVQF
11152_R_oryzae	.....	D.....	A..LLGPVIDA..	VG.LD.....	.....	YVNVQF
08153_R_oryzae	.....	D.....	A..NLQATLNS..	FS.FD.....	.....	AIYVQF
NP_594130_S_pombe	.....	D.....	H..TLTKAISE..	NS.FD.....	.....	FLSIHT
00864_P_nodorum	.....	D.....	.....IRLFDAIKN..	AHFD.....	.....	MIFIQF
08680_P_nodorum	.....	D.....	.....KNSLLSS..	IK.YD.....	.....	MVFVQF
AN8241_E_nidulans	.....	D.....	E..QLSVAIKN..	AVID.....	.....	FVWVQF
AN8217_E_nidulans	.....	D.....	A..AGKDILNTNSSAA..	ID.....	.....	AVFVQF
Chi18_14_H_jecorina	.....	E.....	P..NMGVIIQN..	AQFD.....	.....	YLWVQF
Chi18_16_H_jecorina	.....	E.....	P..NMGEIIST..	SQFD.....	.....	YLWVQF
Chi18_12_H_jecorina	.....	D.....	A..AVGPLIN..	AVP.MD.....	.....	WIQIQF
Chi18_17_H_jecorina	.....	D.....	V..SDESFLDG..	QVP.FD.....	.....	WVNVQF
Chi18_13_H_jecorina	.....	D.....	A..SEPLNV..	CQLAD.....	.....	YIWWQF
04407.1_C_cinereus	.....	D.....	A..ALGEVLNQ..	VA.FD.....	.....	AVYVQF
6412_P_chrysosporiu	.....	D.....	A..SLGGVLNA..	AK.FD.....	.....	AIYVQF
2991_P_chrysosporiu	.....	D.....	A..YLGNVINS..	VG.FD.....	.....	AVYVQF
40899_P_chrysospori	.....	D.....	A..YIGAALNQ..	AD.FD.....	.....	AVYVQF
BAA21861.1_A_thalia	.....	D.....	R..LMGSALNT..	KRFD.....	.....	YVWIQF
07348_C_immitis	.....	D.....	L..YNKEMLEG..	KVD.FD.....	.....	AVFVQF
XP_452410_K_lactis	.....	D.....	A..SVG DALAN..	AD.ID.....	.....	IAFVQF
CTS1_S_cerevisiae	.....	D.....	A..SVGD LLEN..	AD.ID.....	.....	FAFIQF
CHT1_C_albicans	.....	D.....	E..SVGD LMSQ..	VD.LD.....	.....	FAFIQF
CHT3_C_albicans	.....	D.....	A..SVG PL LKQ..	SE.ID.....	.....	FVFIQF
CHT2_C_albicans	.....	D.....	A..SLGD L LSK..	VP.LD.....	.....	FAFIQF
05283_L_elongisporu	.....	D.....	A..SVGD L LDE..	SY.ID.....	.....	FVFIQF
03890_L_elongisporu	.....	D.....	A..LLDD LFNQ..	VS.LD.....	.....	YAFIQF
301747_L_bicolor	.....	D.....	S..AWSGL LNS..	TS.FD.....	.....	AIYVQF
CAC07216_M_anisopli	.....	E.....	P..NMGVIISN..	SVFD.....	.....	HLYVQF
Chit30_M_anisopliae	.....	D.....	Q..SEPLDV..	CQLLD.....	.....	WVQVQF
AAG25709_M_domestic	.....	D.....	A..YVG NALKT..	GLFD.....	.....	NVWVQF
ABA26457_C_lanatus	.....	D.....	A..HLDAAIKT..	GLFD.....	.....	FVWVQF
CAJ43737_C_arabica	.....	D.....	Y..YLDVAIRT..	GLFD.....	.....	FVWVQF
Concana valinB_C_ens	.....	D.....	E..YLDNAIQT..	RHFD.....	.....	YIFVRF
Hevamine_H_brasilie	.....	D.....	R..YLG TALNT..	GLFD.....	.....	YVWVQF
Q8L5C6_T_aestivum	.....	A.....	A..HVGRALAT..	GIFE.....	.....	RVHVRT
Q53NL5_O_sativa	.....	D.....	H..RLEKALAT..	GVFA.....	.....	RIHV RM
Chi18_19_H_jecorina	.....	D.....	.....HRSNLSGF..	D.YE.....	.....	ALEV MR
Chi18_20_H_jecorina	.....	D.....	DS..SNLSGF..	S.YT.....	.....	ALQQTQ
01393_N_crassa_B	.....	D.....	N..PRHNLSGF..	D.YE.....	.....	ALEV MR
08394_N_crassa_B	.....	D.....	MGG..WNLSGF..	D.YR.....	.....	KLMLAP
XP_386145_G_zeae_B	.....	D.....	.....FRRNLSGF..	D.YE.....	.....	ALEV MR
XP_382346_G_zeae_B	.....	D.....	N..EQNLGGF..	N.ME.....	.....	ELEKGL
MGG_04073_M_grisea	.....	D.....	.....GDDDP RRNLSGF..	G.YD.....	.....	ALHAER
MGG_01876_M_grisea	.....	D.....	.....RGG.APNLSGF..	S.YR.....	.....	DLDQAV
01513_S_sclerotioru	.....	D.....	.....SER.PEHNLSGF..	N.YE.....	.....	ALEV MR
03420_S_sclerotioru	.....	D.....	.....YG..GSLSGF..	S.YS.....	.....	DLDAQA
05559_B_fuckeliana	.....	D.....	.....SDL.PKHNSGF..	N.YE.....	.....	ALEV MR



Chi18\_12\_H.\_jecorina YNN.....  
 Chi18\_17\_H.\_jecorina YNN.....  
 Chi18\_13\_H.\_jecorina YNN.....  
 04407.1\_C.\_cinereus YNN.....  
 6412\_P.\_chrysosporiu YNN.....  
 2991\_P.\_chrysosporiu YNN.....  
 40899\_P.\_chrysospori YNN.....  
 BAA21861.1\_A.\_thalia YNN.....  
 07348\_C.\_immitis YNN.....  
 XP\_452410\_K.\_lactis YNN.....  
 CTS1\_S.\_cerevisiae YNN.....  
 CHT1\_C.\_albicans YNN.....  
 CHT3\_C.\_albicans YNN.....  
 CHT2\_C.\_albicans YNN.....  
 05283\_L.\_elongisporu YNN.....  
 03890\_L.\_elongisporu YNN.....  
 301747\_L.\_bicolor YNN.....  
 CAC07216\_M.\_anisopli YNN.....  
 Chit30\_M.\_anisopliae YNN.....  
 AAG25709\_M.\_domestic YNN.....  
 ABA26457\_C.\_lanatus YNN.....  
 CAJ43737\_C.\_arabica YNN.....  
 ConcanavalinB\_C.\_ens YND.....  
 Hevamine\_H.\_brasilie YNN.....  
 Q8L5C6\_T.\_aestivum YES.....  
 Q53NL5\_O.\_sativa FGD.....  
 Chi18\_19\_H.\_jecorina .....GHEIAWYN.....  
 Chi18\_20\_H.\_jecorina .....GNDIDWYN.....  
 01393\_N.\_crassa\_B .....GQETAWYN.....  
 08394\_N.\_crassa\_B SGA...GKEVAFYN.....  
 XP\_386145\_G.\_zeae\_B .....GRDIAWYN.....  
 XP\_382346\_G.\_zeae\_B .....GSRIAWYN.....  
 MGG\_04073\_M.\_grisea .....GHEIAWYN.....  
 MGG\_01876\_M.\_grisea .....GGSIEFYN.....  
 01513\_S.\_sclerotioru .....GNSIEWYN.....  
 03420\_S.\_sclerotioru RDPNTGAPMISFYN.....  
 05559\_B.\_fuckeliana .....GSSIDWYN.....  
 07854\_B.\_fuckeliana RDPDTGTPMISFYN.....  
 06595\_C.\_immitis\_B .....GSKISWYN.....  
 AN8245\_E.\_nidulans\_B .....AGSIAWYN.....  
 236861\_L.\_bicolor\_B .....GDSIDWYN.....  
 185397\_L.\_bicolor\_B .....GDAIDWYN.....  
 UM02758\_U.\_maydis\_B .....GDLIDWYN.....  
 02351\_F.\_neoformans .....GDTIDFYS.....  
 Chi18\_18\_H.\_jecorina YNN.....  
 ZP\_01159542\_Photobac YNN...GGLANPYTSG.....VAPEGSVDMMVASVKMLVEGFELADGSQ..FSPLR  
 ZP\_01234779\_V.\_angus YNN...GGLANPYTSG.....VAPEGSVDMMVASVKMLVEGFELADGSQ..FAPLR  
 NP\_231586\_V.\_cholera YNN...GGLPNPYTPS.....AAPEGSVDMMVAQSKMLIEGFLLANGTR..FEPLR  
 AAO10239\_V.\_vulnific YNN...GGLPNPYLPG.....AAPEGSVDMMVAQSKMLIEGFELADGTR..FEPLR  
 NP\_902605\_C.\_violace YNN...GGLYTPYSTG.....VLAEGSADMLVGGSKMLIEGFPIANGASGSFKGLR  
 NP\_980050\_B.\_cereus YNA...GSGIGMDGN.....NYNQGTADYEVAMADMLLHGFPVGGNANNMFPALR  
 634143\_M.\_xanthus YNT...GTVMALDGR.....AYAQSTPDFHVAMAEMLLQGFVGGNTGAMFPGLR  
 ChiA\_S.\_coelicolor YNS...GTMLGCDGK.....VYAQGTVDFLTALACIQLE.....G...GLA  
 YP\_527176.1\_S.\_degra YNN...GGILSPYNPQ.....TFPAGSVDMMVASARMLIEGFNTGDGGY..FQGLR  
 YP\_436543\_B\_H.\_cheju YNS...GPIVGLDDQ.....YHTMGTADFHVAMTDMLLAGFPVQKDPNMMFPALK  
 ChiB\_S.\_coelicolor YNS...GSIMGLDNQ.....YHSMGGADFHIAMTDMLLTGFPVAGDANNVFPPLR  
 YP\_432187\_H.\_chejuen YNS...GCMLGLDCK.....CYSVSTGDFHVAMAEMLLAGFPVGGNANNRFPPLP  
 ZP\_01353924\_C.\_phyto YNS...GSMLGQDGK.....VYSQGSVDFITALAAIQLE.....N...GLR  
 ZP\_00742457\_B.\_thuri YNA...GSGIGMDGN.....NYNQGTADYEVAMADMLLHGFPVGGNANNIFPALR  
 ZP\_01430879\_S.\_tropi YNS...GAMLGCDQQF.....AYSQGTVNFIVALACIQLE.....A...GLR  
 ChiJ\_S.\_coelicolor YN....GSMYGCAGD.....SYSAGTVQGFQTAQTDCLDKGLVIQG.TT...VRVP  
 Chi18\_15\_H.\_jecorina YN....GDMYGCAGD.....SYAAGTVAGFIAQTDCLNNGLTIQG.TT...FKVP

YP\_349297\_P.\_fluores YNQGGDGVVWPEANNNGA.....WIAQNNDTMKEDFLYYLTESLVT...GTRGFTKIP  
 NP\_719615\_S.\_oneiden YNQGGDGIYIEGIG.....WIAQNNDSLKQEFYIYHISDALVN...GTNGFTKIP  
 ZP\_01236292\_V.\_angus YNQGGDGVYVEGIG.....WIAQSKDELKKEFYIYMSDSLIN...GTRGFTKIP  
 ChiC\_S.\_marcescens YNQGGDGIWVDELN...A.....WITQNNDAMKEDFLYYLTESLVT...GTRGYAKIP  
 YP\_237842\_P.\_syringa YNQGGDGIWVDELN...L.....WVTQNNDAHKKEFLYYLTDSLIH...GTRGFTKIP  
 YP\_608169\_P.\_entomop YNQGGDGLWVEEANNRGA.....WIAQNNDAMKEDFLYYMTESLVS...GTRGFTKIP  
 NP\_814153\_E.\_faecali YNQGGDGVWVDEIM...T.....WVAQSNDAKLYEFLYYMSDSLIIH...GTRGYLQIP  
 YP\_014504\_L.\_monocyt YNQGGDGVWVDETN...Q.....WIAQNNDTLKESFLYYMADSFIN...GTRGYLKIP  
 YP\_071855\_Y.\_pseudot YNQLGDGVHTDSEGE.....FIAQSDNERKEDFLYYLTKNLVS...SSQKFINIP  
 YP\_053588\_M.\_florum YNGWGDGVLVETSEDAKKTGVQONTYITNDNVDKRGEFYLLMSKYITSKPNNQNGFYQIP  
 NP\_471330\_L.\_innocua YNQGGDGVWVDETN...Q.....WIAQNNDTLKESFLYYMADSFIN...GTRGYLKIP  
 ZP\_01245639\_B\_F.\_joh YNT...GGENGLDGQY.....YGTAKKSNMVTALTDMVIKGYNIAS.TGMRFDGLP

430            440            450            460            470            480

05455\_B.\_fuckeliana .....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|  
 14944\_B.\_fuckeliana .....  
 13155\_S.\_sclerotioru .....  
 08695\_S.\_sclerotioru .....  
 11212\_S.\_sclerotioru .....  
 EAA72615\_G.\_zeae .....  
 02184\_N.\_crassa .....  
 04500\_N.\_crassa .....  
 MGG\_03599\_M.\_grisea .....  
 MGG\_01333\_M.\_grisea .....  
 16099\_R.\_oryzae .....  
 10112\_R.\_oryzae .....  
 04523\_R.\_oryzae .....  
 11152\_R.\_oryzae .....  
 08153\_R.\_oryzae .....  
 NP\_594130\_S.\_pombe .....  
 00864\_P.\_nodorum .....  
 08680\_P.\_nodorum .....  
 AN8241\_E.\_nidulans .....  
 AN8217\_E.\_nidulans .....  
 Chi18\_14\_H.\_jecorina .....  
 Chi18\_16\_H.\_jecorina .....  
 Chi18\_12\_H.\_jecorina .....  
 Chi18\_17\_H.\_jecorina .....  
 Chi18\_13\_H.\_jecorina .....  
 04407.1\_C.\_cinereus .....  
 6412\_P.\_chrysosporiu .....  
 2991\_P.\_chrysosporiu .....  
 40899\_P.\_chrysospori .....  
 BAA21861.1\_A.\_thalia .....  
 07348\_C.\_immitis .....  
 XP\_452410\_K.\_lactis .....  
 CTS1\_S.\_cerevisiae .....  
 CHT1\_C.\_albicans .....  
 CHT3\_C.\_albicans .....  
 CHT2\_C.\_albicans .....  
 05283\_L.\_elongisporu .....  
 03890\_L.\_elongisporu .....  
 301747\_L.\_bicolor .....  
 CAC07216\_M.\_anisopli .....  
 Chit30\_M.\_anisopliae .....  
 AAG25709\_M.\_domestic .....  
 ABA26457\_C.\_lanatus .....  
 CAJ43737\_C.\_arabica .....  
 ConcanavalinB\_C.\_ens .....  
 Hevamine\_H.\_brasilie .....  
 Q8L5C6\_T.\_aestivum .....

Q53NL5\_O.\_sativa .....  
 Chi18\_19\_H.\_jecorina .AQFYCG.....  
 Chi18\_20\_H.\_jecorina .TQFYSG.....  
 01393\_N.\_crassa\_B .TQFYCG.....  
 08394\_N.\_crassa\_B .CQFYSG.....  
 XP\_386145\_G.\_zeae\_B .TQFYCG.....  
 XP\_382346\_G.\_zeae\_B .TQFYCG.....  
 MGG\_04073\_M.\_grisea .TQFYCG.....  
 MGG\_01876\_M.\_grisea .AQFYNG.....  
 01513\_S.\_sclerotioru .TQFYCG.....  
 03420\_S.\_sclerotioru .AQFTNG.....  
 05559\_B.\_fuckeliana .TQFYCG.....  
 07854\_B.\_fuckeliana .AQFTNG.....  
 06595\_C.\_immitis\_B .VQFYNG.....  
 AN8245\_E.\_nidulans\_B .TQFYNG.....  
 236861\_L.\_bicolor\_B .TQFYSG.....  
 185397\_L.\_bicolor\_B .AQFYSG.....  
 UM02758\_U.\_maydis\_B .VQFYNQ.....  
 02351\_F.\_neoformans .VQFYNQ.....  
 Chi18\_18\_H.\_jecorina .....  
 ZP\_01159542\_Photobac DDQVAIGLPSGSSSAN.SGQAPTQNIIDALDCVTKGSSCG..SVVPTK..LYPNFGGVMT  
 ZP\_01234779\_V.\_angus DDQVAIGLPSGPSSAN.SGQAPTQNIIDALDCVTKGSSCG..SVVPTK..LYPNFGGIMT  
 NP\_231586\_V.\_cholera DDQVAIGLPSGPSSAN.SGQAPTQNIIDALDCVTKGTRCG..TIKPAF..AYPNYAGVMT  
 AA010239\_V.\_vulnific DDQVAIGLPSGPSSAN.SGQAPTQNIIDALDCVTKGTRCG..TVKPAF..NYPNFGGVT  
 NP\_902605\_C.\_violace PDQVAFGVPSSAN.SGFVTADTVAKALTLTTLQCGG..SVKPAQ..AYPAFRGVT  
 NP\_980050\_B.\_cereus SDQVMIGLPAAPAAAPS.GGYISPTMCKKALDYIIKIPFGG.KYKLSNESGYPAFRGLMS  
 634143\_M.\_xanthus PDQVLIIGLPSPPQAG.GGYTTPANVHKALDYLLKQSFSGG.TYVLRNPAGYPGFKGLMT  
 ChiA\_S.\_coelicolor PSQVGLGLPASTRAAG.GGYVSPSVVNAALDCLTKATNCG..SFKPSK..TYPDLRGAMT  
 YP\_527176.1\_S.\_degra PDQVSLGLPSGPSSAG.SGLATNQAIMDALDCITRGTGCG..TIDAGG..IYPSFNGVMT  
 YP\_436543\_B\_H.\_cheju QSQIAIGLPAVSNAGG..GFTSVQDVQALDCLMCKKENC..TYQPKG..VYPNMRGLMT  
 ChiB\_S.\_coelicolor PDQVAIGMPASTQAGN..GHVSPAETVKALNCLTKKTDCCG..SYATHG..TWPDLRGLMT  
 YP\_432187\_H.\_chejuen AEKVAIGLPASTSAAG.SGYTLPSVVHQAVNYLVKQSFSGG.SYQLQNEGYPGFKGLMT  
 ZP\_01353924\_C.\_phyto PDQVGLGLPASTKAG.SGYVAPSVVNAALDCLTKGTNGG..SYKPPK..TYPTLRGAMT  
 ZP\_00742457\_B.\_thuri SDQVVIIGLPAAPAAAPS.GGYISPTMCKKALDYIIKIPFGG.KYKLSNQSGYPAFRGLMS  
 ZP\_01430879\_S.\_tropi PDQVGLGLPAGPGAAG.GGIVAPSVVNAALDCLTRGTSCG..SFQPPR..TYSGLRGAMT  
 ChiJ\_S.\_coelicolor YDKQVPGGLPAQFGAGG..GYMSPSPVSAWNNHYN.....G.....ALKGLMT  
 Chi18\_15\_H.\_jecorina YSMQVPGGLPAQSGAGG..GYMSPSLVQAWDHYN.....G.....ALKGLMT  
 YP\_349297\_P.\_fluores ADKFVIGLPAANVDAATGYVIDKTVVGNAMKRLAVKG.....HPIKGLMT  
 NP\_719615\_S.\_oneiden HDKLVFGIPTNIDAAATGYVSDPNALFAAFEQLKNQG.....QPLRGLMT  
 ZP\_01236292\_V.\_angus HDKLVFGIPTNIDAAATGYVQDPQDLFNAFKRLEAQS.....QPLRGVMT  
 ChiC\_S.\_marcescens AAKFVIGLPSNNDAAATGYVIDKQAVYNFAFARLDAKS.....LSIKGLMT  
 YP\_237842\_P.\_syringa ANRLAIGLPTNNDAAATGYVINPDDVKYALDTLQADG.....NPIRGLMT  
 YP\_608169\_P.\_entomop ADKFAIGLPAANVDAATGYVINPTAVSNFAKRLYAKG.....ISIKGLMT  
 NP\_814153\_E.\_faecali NDKLVGLPANRDAAGSGYVVEATPVAKTFDQLAKDG.....NPIRGLMT  
 YP\_014504\_L.\_monocyt ANKFVFGGLPANVDAATGYVKDPQIVKNVFRRLQAKG.....TPVKGIMT  
 YP\_071855\_Y.\_pseudot ADKFVMGLPANNDAAANGYVIDKDVHNAFARLDAAG.....LSIRGLMT  
 YP\_053588\_M.\_florum ADKFIIGASTN.EPAGRG.AGSKEAFNKAYNLLNSDG.....IKIRGLMT  
 NP\_471330\_L.\_innocua ANKFVFGGLPANVDAATGYVKDPQIVQNVFNRLQAKG.....TPVKGVMT  
 ZP\_01245639\_B\_F.\_joh ASKVLIALPACPSAAG.SGYLTPTMGINAMHYLRTGTTFSGRTYTMQPGGYPYSLRGLMT

.....|.  
 05455\_B.\_fuckeliana .....  
 14944\_B.\_fuckeliana .....  
 13155\_S.\_sclerotioru .....  
 08695\_S.\_sclerotioru .....  
 11212\_S.\_sclerotioru .....  
 EAA72615\_G.\_zeae .....  
 02184\_N.\_crassa .....  
 04500\_N.\_crassa .....  
 MGG\_03599\_M.\_grisea .....  
 MGG\_01333\_M.\_grisea .....

16099\_R.\_oryzae .....  
10112\_R.\_oryzae .....  
04523\_R.\_oryzae .....  
11152\_R.\_oryzae .....  
08153\_R.\_oryzae .....  
NP\_594130\_S.\_pombe .....  
00864\_P.\_nodorum .....  
08680\_P.\_nodorum .....  
AN8241\_E.\_nidulans .....  
AN8217\_E.\_nidulans .....  
Chi18\_14\_H.\_jecorina .....  
Chi18\_16\_H.\_jecorina .....  
Chi18\_12\_H.\_jecorina .....  
Chi18\_17\_H.\_jecorina .....  
Chi18\_13\_H.\_jecorina .....  
04407.1\_C.\_cinereus .....  
6412\_P.\_chrysosporiu .....  
2991\_P.\_chrysosporiu .....  
40899\_P.\_chrysospori .....  
BAA21861.1\_A.\_thalia .....  
07348\_C.\_inmitis .....  
XP\_452410\_K.\_lactis .....  
CTS1\_S.\_cerevisiae .....  
CHT1\_C.\_albicans .....  
CHT3\_C.\_albicans .....  
CHT2\_C.\_albicans .....  
05283\_L.\_elongisporu .....  
03890\_L.\_elongisporu .....  
301747\_L.\_bicolor .....  
CAC07216\_M.\_anisopli .....  
Chit30\_M.\_anisopliae .....  
AAG25709\_M.\_domestic .....  
ABA26457\_C.\_lanatus .....  
CAJ43737\_C.\_arabica .....  
ConcanavalinB\_C.\_ens .....  
Hevamine\_H.\_brasilie .....  
Q8L5C6\_T.\_aestivum .....  
Q53NL5\_O.\_sativa .....  
Chi18\_19\_H.\_jecorina .....  
Chi18\_20\_H.\_jecorina .....  
01393\_N.\_crassa\_B .....  
08394\_N.\_crassa\_B .....  
XP\_386145\_G.\_zeae\_B .....  
XP\_382346\_G.\_zeae\_B .....  
MGG\_04073\_M.\_grisea\_ .....  
MGG\_01876\_M.\_grisea\_ .....  
01513\_S.\_sclerotioru .....  
03420\_S.\_sclerotioru .....  
05559\_B.\_fuckeliana\_ .....  
07854\_B.\_fuckeliana\_ .....  
06595\_C.\_inmitis\_B .....  
AN8245\_E.\_nidulans\_B .....  
236861\_L.\_bicolor\_B .....  
185397\_L.\_bicolor\_B .....  
UM02758\_U.\_maydis\_B .....  
02351\_F.\_neoformans\_ .....  
Chi18\_18\_H.\_jecorina .....  
ZP\_01159542\_Photobac WSINWD  
ZP\_01234779\_V.\_angus WSINWD  
NP\_231586\_V.\_cholera WSINWD  
AAO10239\_V.\_vulnific WSINWD  
NP\_902605\_C.\_violace WSINWD

NP_980050_B._cereus	WSINWD
634143_M._xanthus	WSINWD
ChiA_S._coelicolor	WSTNWD
YP_527176.1_S._degra	WSINWD
YP_436543_B_H._cheju	WSINWD
ChiB_S._coelicolor	WSINWD
YP_432187_H._chejuen	WSINWD
ZP_01353924_C._phyto	WSINWD
ZP_00742457_B._thuri	WSINWD
ZP_01430879_S._tropi	WSVNWD
ChiJ_S._coelicolor	WSLNWD
Chi18_15_H._jecorina	WSINWD
YP_349297_P._fluores	WSVNWD
NP_719615_S._oneiden	WSVNWD
ZP_01236292_V._angus	WSINWD
ChiC_S._marcescens	WSINWD
YP_237842_P._syringa	WSVNWD
YP_608169_P._entomop	WSVNWD
NP_814153_E._faecali	WSANWD
YP_014504_L._monocyt	WSVNWD
YP_071855_Y._pseudot	WSIDWD
YP_053588_M._florum	WSILFD
NP_471330_L._innocua	WSVNWD
ZP_01245639_B_F._joh	WSVNWD