

```

UBCc:  RLqkElk.El  ektelqkdpp  pgisagpvdd  adgpnnlfew
CONS:  RL+K++K+++  + qk+ p p  + +d+ +  + n++ W
Pn6F:  RLMKDFKDLI  ---TVQKSTP  PHELGWHIDE  EKME-NMYQW
UBCc:  evtIiGPegT  p.....YeG  GvFk...ldieF  PedYPfkPP
CONS:  v ++  e T  ++  +  +  k+  l++ F  + dYP++PP
Pn6F:  IVELHSFEST  LPLAMDMKKA  NIKSVVLELRF  GKDYPMSP
UBCc:  kv.....  .....kFt  TkiyHPNVds  psGeiCLdIL
CONS:  v+  +++  +  ++++  H  + G+ C  L
Pn6F:  FVRVIRPRFL  GFAQGGGG--  ----HVT--  AGGAMCMELL
UBCc:  kPGDDpgYEa  derddevWsP  altvrsvLls  iqsLLL....
CONS:  +++  Ws+  a +++svLl  +  +  ++
Pn6F:  T-----  -NDG--WSA  ASSIESVLLQ  VR--MAISS
UBCc:  sePyNpesPl  naeaAklyke  n.reefkkrv  rerv
CONS:  +P  p+  n+  +y  + +e  r+  ++
Pn6F:  LDP-KPARLE  NHGRV-DYGV  GEAVEAYMRA  --CA

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	G	G	G	G	H	V	T	A	G	G	A	L	C	M	E	L	L	T	N	S	G
Ajellomyces_capsulata_CONF51/90-110	G	G	G	G	H	V	T	A	G	G	A	L	C	M	E	L	L	T	N	S	G
Ajellomyces_capsulata_A6QY12/90-110	G	G	G	G	H	V	T	A	G	G	A	L	C	M	E	L	L	T	N	S	G
Ajellomyces_dermatitidis_C5K0M8/90-110	G	G	G	G	H	V	T	A	G	G	A	L	C	M	E	L	L	T	N	S	G
Uncinocarpus_reesii_C4JYQ7/90-110	G	G	G	G	H	V	T	A	G	G	A	L	C	M	E	L	L	T	N	S	G
Microsporum_canis_C5FD62/90-110	G	G	G	G	H	V	T	A	G	G	A	L	C	M	E	L	L	T	N	S	G
Coccidioides_immitis_Q1E1Q2/91-111	G	G	G	G	H	V	T	A	G	G	A	L	C	M	E	L	L	T	N	S	G
Trichoderma_reesei_67286/88-108	G	G	G	G	H	V	T	A	G	G	A	I	C	S	E	M	L	T	N	S	G
Trichoderma_atroviride_39578/85-105	G	G	G	G	H	I	T	A	G	G	A	I	C	S	E	I	L	T	N	S	G
Aspergillus_flavus_B8MW75/90-110	G	G	G	G	H	V	T	A	G	G	A	M	C	M	E	L	L	T	S	S	G
Aspergillus_terreus_Q0CPK4/90-110	G	G	G	G	H	V	T	L	G	G	S	M	C	M	E	L	L	T	N	S	G
Talaromyces_stipitatus_B8M6M3/90-110	G	G	G	G	H	V	T	M	G	G	A	L	C	M	E	L	L	T	G	S	G
Penicillium_marneffeii_B6Q3H5/82-102	G	G	G	G	H	V	T	M	G	G	A	L	C	M	E	L	L	T	G	S	G
Alternaria_brassicicola_AB05025/91-111	G	G	G	G	H	V	T	A	G	G	A	M	C	M	Q	L	L	T	N	D	G
Pyrenophora_tritici-repentis_B2VYK4/91-111	G	G	G	G	H	V	T	A	G	G	A	M	C	M	E	L	L	T	N	D	G
Phaeosphaeria_nodorum_Q0UPJ2/91-111	G	G	G	G	H	V	T	A	G	G	A	M	C	M	E	L	L	T	N	D	G
Cochliobolus_heterostrophus_30785/91-111	G	G	G	G	H	V	T	A	G	G	A	M	C	M	E	L	L	T	N	D	G
Sclerotinia_sclerotiorum_A7EKZ8/91-111	G	G	G	G	H	V	T	A	G	G	A	L	C	M	E	L	L	T	N	T	G
Botryotinia_fuckeliana_A6S9M7/91-111	G	G	G	G	H	V	T	A	G	G	A	L	C	M	E	L	L	T	N	S	G
Cryphonectria_parasitica_38809/91-111	G	G	G	G	H	V	T	L	G	G	A	I	C	M	E	L	L	T	S	N	G
Magnaporthe_grisea_A4R2D2/91-111	G	G	G	G	H	V	T	I	G	G	A	M	C	M	E	L	L	T	S	N	G
Aspergillus_clavatus_36472NI/90-110	R	G	G	G	H	V	T	A	G	G	A	M	C	M	E	L	L	T	S	S	G
Podospora_anserina_B2B0C0/91-111	G	G	G	G	H	M	T	V	G	G	A	M	C	M	E	L	L	T	S	T	G
Penicillium_chrysogenum_B6HEK8/90-110	G	G	G	G	H	V	T	T	G	G	S	M	C	M	E	L	L	T	H	S	G
Aspergillus_clavatus_A1CIW1/90-110	G	G	G	G	H	V	T	A	G	G	A	M	C	M	E	L	L	T	N	S	G
Aspergillus_fumigatus_Q4WQT4/90-110	G	G	G	G	H	V	T	A	G	G	A	L	C	M	E	L	L	T	N	S	G
Neosartorya_fischeri_A1CVV6/90-110	G	G	G	G	H	V	T	A	G	G	A	M	C	M	E	L	L	T	N	S	G
Sporotrichum_thermophile_57676/90-110	G	G	G	G	H	V	T	A	G	G	A	M	C	M	E	L	L	T	E	S	G
Chaetomium_globosum_Q2GVY0/91-111	G	G	G	G	H	V	T	A	G	G	A	L	C	M	E	L	L	T	S	S	G
Mycosphaerella_graminicola_83400/97-117	G	G	G	G	H	I	V	M	G	G	A	M	C	M	E	L	L	T	N	T	G
Mycosphaerella_fijiensis_85451/93-113	G	G	G	G																	

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hhhhhhhhh hhhhh      eee      eeeeeee
MPRKDFQRDL IGAKVSGRFP HLHSVGAGDH DGSITFTFAD TSTST
eeeeee eeee      eeee      hhhh hhhhhhhhhhhh
RIDFQ AIVSDAQDYPE NHTYFVFTT SEDPPSRVVT VMENAQSRFL
      hhhhhhhh hhhhhh
GVALEDFLTYI DEIVQNALR LPASEADDDE KVGYGVD DTD FVDD
      hhh hhhhhhhhhh hhhhh      eee
DNDDD VDWMENEP VFGISRADEK HLLKTRRDL RAVKNAGLKVG
eee      e eeeeeeeeeee      hhhhhh h      eeee eee
CLGTLTGAV IVSVSCRIGR LGISEEAMEA WNVRASEYLVL LMRYF
      hhhhhh      eeeee ee      hh hhhhhh
GTYV DFQELLALGK AKYPAIQFHV GLCDSYKPTTE DAIRAFQGN
      hhhhhhhhhhhh hhhhhhhhhh      h
LSLSEEGLTG TARLRSLFIE QPLDSLNERF LRIMELRYH LGLSW
hhhhh hhhh      hhhhhhhhhhhh
TGAEL YIQQNQGRRP DYGAITDNYFE PDTWSASAP ALFQNDHIGQ
hh
GLGVD

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