**S1 Figure. Accession numbers for S8A sequences used with *P. destructans* proteases for preparing phylogenetic tree (for Figure 7).**

>Pseudogymnoascus destructans L8G6I7 S8A Pdsp1

> GenBank: ELR07576.1

MKFSQSLIALAACFLPLIAAAPVEAQHAKIRSPRAQDIIPDSYIVVFNKGVNDADIESEF

SSVSRILSKRRSAHKGVGHKYNITGFKGYQIETDTGSIGEIAASPLVAWIEMDGKVQANA

LETRSGATWGLGRISHKATGSNSYIYDGSAGSGSTVYVLDTGIYIEHSEFEGRAKWGANY

ISGSPDTDENGHGTHCAGTIAGATYGVASKANLVAVKVLDRDGFGATSATIAGINFVGQN

GKDGKSVISMSLRGHYSAAVNSAVESTVSNGVTIVVAAGNDGDDASNYSPASAKNAITVG

SVDSTDTRASSSNYGSVVDIFAPGVNVKSASIGGKSAFSIKSGTSMATPHVAGLAAYLIG

LGGLSSPAAIASKIASIGTKGSVKDPKGSVNLIAYNGNGA

>Pseudogymnoascus destructans L8FSM5 S8A Pdsp2

>GenBank: ELR03877.1

MKFSQSLIALAACFLPLIAAAPEEAQHAKIRSPGAQDIILDSYIVVFNKGVNDADIESEF

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LETRSGATWGLGRISHKATGSNSYVYDSSAGSGSTVYVVDSGIYIEHSEFEGRAKWGANY

ISGSPDTDENGHGTHCAGTIAGATYGVASKANLVAVKVLDGDGSGSNSGVIAGINFVGQN

GKDGKSVLSMSLGGSYSAALNSAVESTISNGVTVVVAAGNDGADASNYSPASAKNAITVG

AVDSTDTRADFSNYGSVLDVFAPGVDVKSAWIGSKSASNTISGTSMATPHVAGLAAYLIG

LGGLSSPAAVASKIASIGIQGSVKDPKGSVNLIAYNGNGA

>Engyodontium album Proteinase K

>GenBank: CAA32820.1

MRLSVLLSLLPLALGAPAVEQRSEAAPLIEARGEMVANKYIVKFKEGSALSALDAAMEKI

SGKPDHVYKNVFSGFAATLDENMVRVLRAHPDVEYIEQDAVVTINAAQTNAPWGLARISS

TSPGTSTYYYDESAGQGSCVYVIDTGIEASHPEFEGRAQMVKTYYYSSRDGNGHGTHCAG

TVGSRTYGVAKKTQLFGVKVLDDNGSGQYSTIIAGMDFVASDKNNRNCPKGVVASLSLGG

GYSSSVNSAAARLQSSGVMVAVAAGNNNADARNYSPASEPSVCTVGASDRYDRRSSFSNY

GSVLDIFGPGTSILSTWIGGSTRSISGTSMATPHVAGLAAYLMTLGKTTAASACRYIADT

ANKGDLSNIPFGTVNLLAYNNYQA

>Botryotinia fuckeliana M7TMP3 S8A

>GenBank: CCD54154.1

MAGYLTVLTAFAAAFAPVFGAPAARVPHPKIKTPTTVAKDIVADSYIVVYNTDITPEVTA

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SALTTQSGSTWGLGRISHRAKGTTSYIYDTTAGSGVTVYVVDTGVYAAHSQFGGRASMGA

NFVSGSANTDENGHGTHCAGTIGGSTYGVAKAAKIVGVKVLDASGSGTNSGVISGIQWVA

TNGGAKSVLSMSLGGSYSAAVNSAVTSTVAAGVTVVVAAGNDNTNAANTSPASTPNAITV

GAIDSNDARASFSNYGAVLDVFAPGVNVLSSWIGSTSATNTISGTSMATPHVAGLAAYLI

ALEGLSTPAAVVARIKALATANLITSPGSGSPNLIAYNGNGS

>Botryotinia fuckeliana G2YRA6 S8A

>GenBank: CCD54154.1

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SALTTQSGSTWGLGRISHRAKGTTSYIYDTTAGSGVTVYVVDTGVYAAHSQFGGRASMGA

NFVSGSANTDENGHGTHCAGTIGGSTYGVAKAAKIVGVKVLDASGSGTNSGVISGIQWVA

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GAIDSNDARASFSNYGAVLDVFAPGVNVLSSWIGSTSATNTISGTSMATPHVAGLAAYLI

ALEGLSTPAAVVARIKALATANLITSPGSGSPNLIAYNGNGS

>Bacillus licheniformis Subtilisin Carlsberg

>GenBank: CAB56500.1

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VQAQGFKGANVKVAVLDTGIQASHPDLNVVGGASFVAGEAYNTDGNGHGTHVAGTVAALD

NTTGVLGVAPSVSLYAVKVLNSSGSGTYSGIVSGIEWATTNGMDVINMSLGGPSGSTAMK

QAVDNAYARGVVVVAAAGNSGSSGNTNTIGYPAKYDSVIAVGAVDSNSNRASFSSVGAEL

EVMAPGAGVYSTYPTSTYATLNGTSMASPHVAGAAALILSKHPNLSASQVRNRLSSTATY

LGSSFYYGKGLINVEAAAQ

>Sclerotinia sclerotiorum A7F4T0 S8A

>NCBI Reference Sequence: XP\_001586618.1

MASYLTILTALAAVFAPVFAAPAAIPHPKIKTPTAAKEIVADSYIVVYNTDITTEVTASH

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LTTQSGATWGLGRISHRAKSTTSYIYDSTAGSGTTVYVVDTGVYAAHSQFGGRASMGANF

VSGSANTDENGHGTHCSGTIAGSTYGVAKAAKIVGVKVLDASGSGTTAGVISGIQWVATN

HVSKSVLSMSLGGGFSTSLNSAVTSTVASGVTVVVAAGNDNANAANTSPASTPNAITVGA

IDTNDARASFSNYGSVLDVFAPGVNVLSSWIGSTSATNTISGTSMATPHVAGLAAYLIAL

EGLSTPAAVEARIKALATSGSITNAGSGSPNLIAYNGDGA

>Marssonina brunnea f. sp. multigermtubi K1WZP9 S8A

>NCBI Reference Sequence: XP\_007291353.1

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NLEARDVVKDSYIVVYNPAVEADIFEASIAEVSSLISKRAVAGGIGAKYTIGDFKGYQIT

ADTATLAEIAASPDVAYIEKDQKVYASALTSQTGATWGLGRISHTLQDSTTYIYDSTAGS

GTTVYVVDTGILTTHTQFGGRATFGANYVDRSNTDGNGHGTHCAGTIAGSTYGVAKAAKL

VAVKVLAADGSGTTSGVISGIQYVGTNAPAKSVLSMSLGGTLSTALNTAVRNTIAKGVTV

VVAAGNDNKNAASFSPASEPLAITVGAIDINDNRASFSNFGALVDIFAPGVNVLSSWIGS

NSATNTISGTSMATPHVAGLAAYLIALEGLSTPAAVQARIKALGIAGKVISPGTGSPNLI

AYNGNGA

>Glarea lozoyensis S3CHC9 S8A

>NCBI Reference Sequence: XP\_008088792.1

MAPYFAKLAAVAALVVPLVFGAPTPTPHLKIRNSEARDVVADSYIVVYNKDVTADVIATH

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LAQTGAPYGLGRISHRNSSTTTYVYDSSAGTGVTIYVVDTGVYLEHEEFEGRASWGANFI

PDSPDTDEYGHGTHCAATAAGKTYGISKKAKLVAVKVLDKNGSGTFAGVISGIQWVADNA

VPNSVLTMSLGGGFSAAVNSAVAGAVSAGVTVAVAAGNSNGNISNYSPASEPSAITVGAI

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>Glarea lozoyensis H0EGQ5 S8A

>NCBI Reference Sequence: XP\_008088792.1

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LAQTGAPYGLGRISHRNSSTTTYVYDSSAGTGVTIYVVDTGVYLEHEEFEGRASWGANFI

PDSPDTDEYGHGTHCAATAAGKTYGISKKAKLVAVKVLDKNGSGTFAGVISGIQWVADNA

VPNSVLTMSLGGGFSAAVNSAVAGAVSAGVTVAVAAGNSNGNISNYSPASEPSAITVGAI

DSADTRASFSNYGSLLDVWGPGVNTLSAWIGAPTATNTISGTSMATPHIAGLAAYLISLE

GLATPAAVVARIKALATSGKVKDVKSSLNLIGYNGSGL

>Pseudogymnoascus destructans L8GD75 S8A Pdsp3

>GenBank: ELR10046.1

MLFSKSLVALVACFLPLIVSATELKLRNAAATNVAADSYIVVYKDIDDSTFESEMFNVHS

FLSKRDSTFRGLGHKYKMPKFKGYQIESDMDTVNRISQSPHVAYVDKDVKVSAYDLSVRI

GAPWGLDRISHRNGTSPGLEEYTYDSSAGGGTTIYIIDTGVYIEHVEFEGRATFGANFIP

GSPDTDEDGHGTHVAGIAAGANFGVASKAKIIAVRVLDANGDGKGSNVLAGMQWAADDAG

KKNQTAKSVINMSLGADYSEAFNKATEAIIAKGIVVVAAAGNEDANASGVSPASTVDAIT

VGATDRNDSRAAFSNWGVALDVFAPGVDILSAWIGGKDANKTISGTSMACPHVAGLAAYF

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>Arthrobotrys oligospora G1XUP4 S8A

>GenBank: EGX43093.1

MHFIPLASLLPLAGLILQVAADLTVLGAGSKDKIPNSYIVVLKPSTNQAQVQEHTQRISN

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QKPSTWGLSRISWKTLPKAPYSYRYQNTWGGRGTTIYIVDSGVRISHKEFEARATWGYNA

VPDSPNTDNHGHGTHVAGTAAGKTYGVAKYARIVAVKVIGDDGTGQDSYTLAGLNYISKV

AKPGKSVVNMSIGGPKSEAVNAAVEALYKKGIVVVAAAGNENENAGLSSPASARSAITVG

ATDETDTRARFSNFGSIVDIFAPGVNILSADITSDTASRLDNGTSMASPHVAGLAAYFIS

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>Aspergillus clavatus A1CIA7 S8A

>NCBI Reference Sequence: XP\_001272038.1

MQSIKRTLLLLGALLPAALAAPAREPHPSSNIIPGKYIITFKSGIDTAAIESHTAWASNI

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NAVGGDHVDTLGHGTHVAGTIGGKTYGVAKQTNLLSVKVFEGRTGSTSVILDGFNWAAND

IVSKGRKGKAAINMSLGGGYSYAFNNAVESAYEQGVLSVVAAGNEGVDASNSSPASAPNA

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>Trichophyton violaceum A1XIH6 S8A

>UniProtKB/Swiss-Prot: A1XIH6.1

MGFITKAIPLALAAASVINGAEILETRAGVQTLADKYIVVMNDGISDKDFDSHRSWVNRN

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FVDDMDMDCNGHGTHVSGTIGGKTFGVAKKSNVVAVKVLDCSGSGSNSGVIMGMEWATKD

AQQKGADKAVANMSLGGAFSQASNDAAAAIAKGGVFLAVAAGNDNVDAADSSPASEPSIC

TIAASTEQDSKADFSNFGQVVDVYAPGDSITSAKPGGGSQVLSGTSMATPHVAGLGAYLI

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>Trichophyton rubrum F2ST98 S8A

>NCBI Reference Sequence: XP\_003233827.1

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FVDDMDMDCNGHGTHVSGTIGGKTFGVAKKSNVVAVKVLDCNGSGSNSGVIMGMEWATKD

AQQKGADKAVANMSLGGAFSQASNDAAAAIAKGGVFLAVAAGNDNVDAADSSPASEPSIC

TIAASTEQDSKADFSNFGQVVDVYAPGDSITSAKPGGGSQVLSGTSMATPHVAGLGAYLI

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>Arthroderma benhamiae Q64K36 S8A

>UniProtKB/Swiss-Prot: Q64K36.1

MGFITKAIPLALAAASVINGAEIMETRAGVQTLADKYIVVMNDGMTDKDFDSHRSWVNRT

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IEQQDNVPSWGLARVGSKEPGGTTYYYDGTAGEGSTAYVIDTGTDIQHEEFEGRATWGAN

FVDDMDMDCNGHGTHVSGTIGGKTFGVAKKSNVVAVKVLDCNGSGSNSGVIMGMEWATKD

AQQKGADKAVANMSLGGAFSQASNDAAAAIAKGGVFLAVAAGNDNVDAADSSPASEPSIC

TVAASTEQDSKADFSNFGQVVDVYAPGDSITSAKPGGGSQVLSGTSMATPHVAGLGAYLI

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>Trichophyton tonsurans F2S603 S8A

>UniProtKB/Swiss-Prot: A1XIH4.1

MGFITKAIPLALAAASVINGAEILETRAGVQTLADKYIVVMNDGMSDKDFDSHRSWVNRT

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IEQQDNVPSWGLARVGSREPGGTTYYYDSTAGEGTTAYIIDTGTDIQHEEFDGGRATWGE

NFVDDMDMDCNGHGTHVSGTVGGRTFGVAKKSNIVAVKVLDCNGSGSNSGVIMGMQWATE

DAQSKGADKAVVNMSLGGAFSQTSNDAAKAIAEGGVFLAVAAGNDNVDAAEASPASEPSI

CTVAASTEQDGKADFSNFGQVVDVYAPGDGITSAKPGGGSQVLSGTSMASPHVAGLAAYL

IGLGKGGGPQLCDTIKQMAIDVIQNPGSSTTSKLINNGSGM

>Trichophyton equinum F2PZ92 S8A

>UniProtKB/Swiss-Prot: A1XIH3.1

MGFITKAIPLALAAASVINGAEILETRAGVQTLADKYIVVMNDGMSDKDFDSHRSWVNRT

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NFADDMDMDCNGHGTHVSGTVGGRTFGVAKKSNIVAVKVLDCNGSGSNSGVIMGMQWATE

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CTVAASTEQDGKADFSNFGQVVDVYAPGDGITSAKPGGGSQVLSGTSMASPHVAGLAAYL

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>Arthroderma gypseum E4V2V9 S8A

>UniProtKB/Swiss-Prot: E4V2V9.1

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FVDDIDMDCNGHGTHVSGTVAGTKFGVAKKANVVGVKVLDCDGSGSNSGVIMGMEFATND

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TVAASTEQDGKASFSNYGQVVDVYAPGDGITSAKPGGGSQVLSGTSMASPHVAGLAAYLI

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>Microsporum gypseum Q006K4 S8A

>GenBank: ABJ51910.1

NGAEILETRAGVQTLADKYIVVMNDGMSDKDFDSHRSWVNRTHRRRLIRRGAKAMGGMKY

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EPGGTTYYYDSTAGEGTTAYIIDTGTDIQHEEFDGGRATWGENFVDDMDMDCNGHGTHVS

GTVGGRTFGVAKKSNIVAVKVLDCNGSGSNSGVIMGMQWATEDAQSKGADTSVVNMSHRV

AFSQTSNDAAKAIAEGGVLLALSSGQDNVDVAEASPASELSICTFAASTEQDGKADFSNF

GQVVDVYAAVDGITSDKPGGGSQVQSGTSKASP

>Coccidioides immitis J3KJC4 S8A

>NCBI Reference Sequence: XP\_001247623.1

MVFLGKILPLALAALSVNGAEILSAPGAENIPNGYIVVMKEGTSTQDFDAHREWVASVHH

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TQRNVPSWGLARVSSRQPGGRDYSYDSTAGQGVTAYIIDTGIDIRHTDFGGRAVWGTNTV

DRRNEDCNGHGTHVAGTTGGTSFGVAKRARLVAVKVLDCNGSGSNSAVIAGMQWAMQHAS

QNDPRRAVANMSLGGGYSQATNQAAAAIVRAGIFLAVAAGNDNRDARSFSPASEPTVCTA

AASHVRDGKASFSNWGQLVDVYAPGQDIISARPGGGSRSLSGTSMASPHVCGLGAYLIGL

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>Trichoderma harzianum S5S2B8 S8A

>GenBank: AGS13697.1

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GIVPVVAAGNENQDTANTSPGSAPQAITVGAIDATNDVRASFSNFGAGVDIYAPGVNVLS

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AGTTDLIANNANL

>Fusarium oxysporum f. sp. cubense N4ULL5 S8A

>GenBank: EGU84012.1

MALLRTFLASLLVAAPFAAAAPIDVAETLGDMADSIGGGLGGEADKKMGISAFLRPMLKN

PDALNVIPNRYIVVYNDTFDDDTISAKEASFAAAIKKRNLNKRSSIGKAMSTSIQSFRMN

KWRAMSLDADDLMVQDLWNSDEVAYIEADTKVQLNAAIAQVNAPPGLDRLSHAKVNQDTY

VFDDSAGEGITAYVVDTGIKIDHSEFEGRATFGANFINNVDDDENGHGSHVAGTIGGATF

GVAKKVDLVAVKVLDASGGGSNSGVLQGMQFVIDDAKKKNRVGKAVMNMSLGGDFSQAIN

RAIEALFKAGIVPVVAAGNENRETALTSPGSAPNAITVGAIDATTDERADFSNFGPEVDV

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TGAKVQNNVQGTTDSIANNGNQ

>Trichophyton rubrum Q69F58 S8A

>NCBI Reference Sequence: XP\_003236355.1

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QSNVPSWGLARISNPQPGADSYTYDSSAGEGITVYSVDTGVDVNHEDFEGRAIWGSNQVN

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QNGGTKKAVMNMSLGGSSSSALNRAAAQAVEQGMFLSVAAGNDNQDAQSSSPASEPSVCT

VGSSAEDDSRSSFSNWGPAIDIFAPGSNIVSARPGGGSQSMSGTSMAAPHVAGLAAYLMA

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