

1137-C20_PvNLP3	1	MGPWEAKWIRHSDVRPFPPQPEPMTVEEKVAVMLKPELHVSSGCHPYPAVNDLGETNGGLK
Pv1252_PvNLP3	1	MGPWEAKWIRHSDVRPFPPQPEPMTVEEKVAVMLKPELHVSSGCHPYPAVNDLGETNGGLK
Pv1366_PvNLP3	1	MGPWEAKWIRHSDVRPFPPQPEPMTVEEKVAVMLKPELHVSSGCHPYPAVNDLGETNGGLK
Pv1379_PvNLP3	1	MGPWEAKWIRHSDVRPFPPQPEPMTVEEKVAVMLKPELHVSSGCHPYPAVNDLGETNGGLK
PvBr13_PvNLP3	1	MGPWEAKWIRHSDVRPFPPQPEPMTVEEKVAVMLKPELHVSSGCHPYPAVNDLGETNGGLK
PvNLP3	1	MGPWEAKWIRHSDVRPFPPQPEPMTVEEKVAVMLKPELHVSSGCHPYPAVNDLGETNGGLK
1137-C20_PvNLP3	61	TTGAPSGMCKGSGWGSQIYGRHASFRGVWAIMYVWYFPKDMPSAHFGHRHDWEHVIWVIE
Pv1252_PvNLP3	61	TTGAPSGMCKGSGWGSQIYGRHASFRGVWAIMYVWYFPKDMPSAHFGHRHDWEHVIWVIE
Pv1366_PvNLP3	61	TTGAPSGMCKGSGWGSQIYGRHASFRGVWAIMYVWYFPKDMPSAHFGHRHDWEHVIWVIE
Pv1379_PvNLP3	61	TTGAPSGMCKGSGWGSQIYGRHASFRGVWAIMYVWYFPKDMPSAHFGHRHDWEHVIWVIE
PvBr13_PvNLP3	61	TTGAPSGMCKGSGWGSQIYGRHASFRGVWAIMYVWYFPKDMPSAHFGHRHDWEHVIWVIE
PvNLP3	61	TTGAPSGMCKGSGWGSQIYGRHASFRGVWAIMYVWYFPKDMPSAHFGHRHDWEHVIWVIE
1137-C20_PvNLP3	121	KPVVENVKILAVTPSFHDGYSKQVPPDPShLNGLAAKF IYSESWP INHALRPTRKGGKKQ
Pv1252_PvNLP3	121	KPVVENVKILAVTPSFHDGYSKQVPPDPShLNGLAAKF IYSESWP INHALRPTRKGGKKQ
Pv1366_PvNLP3	121	KPVVENVKILAVTPSFHDGYSKQVPPDPShLNGLAAKF IYSESWP INHALRPTRKGGKKQ
Pv1379_PvNLP3	121	KPVVENVKILAVTPSFHDGYSKQVPPDPShLNGLAAKF IYSESWP INHALRPTRKGGKKQ
PvBr13_PvNLP3	121	KPVVENVKILAVTPSFHDGYSKQVPPDPShLNGLAAKF IYSESWP INHALRPTRKGGKKQ
PvNLP3	121	KPVVENVKILAVTPSFHDGYSKQVPPDPShLNGLAAKF IYSESWP INHALRPTRKGGKKQ
1137-C20_PvNLP3	181	DLILWEQMSSNARHALNIVPWGAANTPFNDFVFMGRLEKAFPF
Pv1252_PvNLP3	181	DLILWEQMSSNARHALNIVPWGAANTPFNDFVFMGRLEKAFPF
Pv1366_PvNLP3	181	DLILWEQMSSNARHALNIVPWGAANTPFNDFVFMGRLEKAFPF
Pv1379_PvNLP3	181	DLILWEQMSSNARHALNIVPWGAANTPFNDFVFMGRLEKAFPF
PvBr13_PvNLP3	181	DLILWEQMSSNARHALNIVPWGAANTPFNDFVFMGRLEKAFPF
PvNLP3	181	DLILWEQMSSNARHALNIVPWGAANTPFNDFVFMGRLEKAFPF

Supplemental Figure 4: Amino acid substitution in *PvNLP3* from the isolates *Pv1252*, *Pv1366*, *Pv1379*, *PvBr13* and the single sporangia line 1137-C20

Grey color indicates amino acids with similar chemical properties.