

Allele 1 MEESQSKQESNTRVAQHGSQQDVPDPTFQTKRALERERSKPRRPLFRVQLQSLPGWSSSTNDVPLSQLIREMDHESRRCIHRSKSKKLDRESEHISQGTIPEIYEKRRKETISHTQSMQEKYL 120
Allele 2 MEESQSKQESNTRVAQHGSQQDVPDPTFQTKRALERERSKPRRPLFRVQLQSLPGWSSSTNDVPLSQLIREMDHESRRCIHRSKSKKLDRESEHISQGTIPEIYEKRRKETISHTQSMQEKYL 120
Allele 3 MGESQSKQESNTRVAQHGSQQDVPDPTFQTKRALERERSKPRRPLFRVQLQSLPGWSSSTNDVPLSQLIREMDHESRRHSHQSKKLDRESEHISQGTIPEIYEKRRKETISHTQSMQEKYL 120
Allele 4 MGESQSKQESNTRVAQHGSQQDVPDPTFQTKRALERERSKPRRPLFRVQLQSLPGWSSSTNDVPLSQLIREMDHESRRHSHQSKKLDRESEHISQGTIPEIYEKRRKETISHTQSMQEKYL 120
Allele 5 MGESQSKQESNTRVAQHGSQQDVPDPTFQTKRALERERSKPRRPLFRVQLQSLPGWSSSTNDVPLSQLIREMDHESRRHSHQSKKLDRESEHISQGTIPEIYEKRRKETISHTQSMQEKYL 120

NACHT

Allele 1 FQNFTKLLLLQKCCPGGSEKLVRESWHPVCPVEEGGHHMIEIQDLDFPNLDTEKKPQLVIEGAAGIGKSTLARQVKRAWDEGQLYRDRFQHVFFFSCRELAQCKQLSLAELIAQGGVEPTA 240
Allele 2 FQNFTKLLLLQKCCPGGSEKLVRESWHPVCPVEEGGHHMIEIQDLDFPNLDTEKKPQLVIEGAAGIGKSTLARQVKRAWDEGQLYRDRFQHVFFFSCRELAQCKQLSLAELIAQGGVEPTA 240
Allele 3 FQNFTKLLLLQKCCPGGSEKLVRESWHPVCPVEEGGHHMIEIQDLDFPNLDTEKKPQLVIEGAAGIGKSTLARQVKRAWDEGQLYRDRFQHVFFFSCRELAQCKQLSLAELIAQGGVEPTA 240
Allele 4 FQNFTKLLLLQKCCPGGSEKLVRESWHPVCPVEEGGHHMIEIQDLDFPNLDTEKKPQLVIEGAAGIGKSTLARQVKRAWDEGQLYRDRFQHVFFFSCRELAQCKQLSLAELIAQGGVEPTA 240
Allele 5 FQNFTKLLLLQKCCPGGSEKLVRESWHPVCPVEEGGHHMIEIQDLDFPNLDTEKKPQLVIEGAAGIGKSTLARQVKRAWDEGQLYRDRFQHVFFFSCRELAQCKQLSLAELIAQGGVEPTA 240

Allele 1 PTRQILSRPEKLLFILDGIDEPAWVLEDQNPVLCVHWSQAQPVHTLLGSLGKSIPEASLMLTARTTALQKLVPSLQPPHRVEVLGFEFERKDYFYKYFAKERNTIIDFNLIGSIPVL 360
Allele 2 PTRQILSRPEKLLFILDGIDEPAWVLEDQNPVLCVHWSQAQPVHTLLGSLGKSIPEASLMLTARTTALQKLVPSLQPPHRVEVLGFEFERKDYFYKYFAKERNTIIDFNLIGSIPVL 360
Allele 3 PTRQILSRPEKLLFILDGIDEPAWVLEDQNPVLCVHWSQAQPVHTLLGSLGKSIPEASLMLTARTTALQKLVPSLQPPHRVEVLGFEFERKDYFYKYFAKERNTIIDFNLIGSIPVL 360
Allele 4 PTRQILSRPEKLLFILDGIDEPAWVLEDQNPVLCVHWSQAQPVHTLLGSLGKSIPEASLMLTARTTALQKLVPSLQPPHRVEVLGFEFERKDYFYKYFAKERNTIIDFNLIGSIPVL 360
Allele 5 PTRQILSRPEKLLFILDGIDEPAWVLEDQNPVLCVHWSQAQPVHTLLGSLGKSIPEASLMLTARTTALQKLVPSLQPPHRVEVLGFEFERKDYFYKYFAKERNTIIDFNLIGSIPVL 360

Allele 1 LTLCEVPWCWLLCTCLEKMQQGEVLSLTSQTTTALCLKYLSTIPGQHLSTQLRTRTCLSLAEEGICQRRRTLFKSDLCCKQGLAEDAATFLKIGVLQRQPSLSYSFAHLCLQEFFAAM 480
Allele 2 LTLCEVPWCWLLCTCLEKMQQGEVLSLTSQTTTALCLKYLSTIPGQHLSTQLRTRTCLSLAEEGICQRRRTLFKSDLCCKQGLAEDAATFLKIGVLQRQPSLSYSFAHLCLQEFFAAM 480
Allele 3 LTLCEVPWCWLLCTCLEKMQQGEVLSLTSQTTTALCLKYLSTIPGQHLSTQLRTRTCLSLAEEGICQRRRTLFKSDLCCKQGLAEDAATFLKIGVLQRQPSLSYSFAHLCLQEFFAAM 480
Allele 4 LTLCEVPWCWLLCTCLEKMQQGEVLSLTSQTTTALCLKYLSTIPGQHLSTQLRTRTCLSLAEEGICQRRRTLFKSDLCCKQGLAEDAATFLKIGVLQRQPSLSYSFAHLCLQEFFAAM 480
Allele 5 LTLCEVPWCWLLCTCLEKMQQGEVLSLTSQTTTALCLKYLSTIPGQHLSTQLRTRTCLSLAEEGICQRRRTLFKSDLCCKQGLAEDAATFLKIGVLQRQPSLSYSFAHLCLQEFFAAM 480

Allele 1 SYILEDSEEAHGMNDRTVETLVVERYGRQNLFEAPTFRVFLGLLNTRMREMEMENIACKFPWETKLLKLSIIGEPFCQPCHLGLFHCYLYENQEEELLTETMLCFPLTASGPNHMEATV 600
Allele 2 SYILEDSEEAHGMNDRTVETLVVERYGRQNLFEAPTFRVFLGLLNTRMREMEMENIACKFPWETKLLKLSIIGEPFCQPCHLGLFHCYLYENQEEELLTETMLCFPLTASGPNHMEATV 600
Allele 3 SYILEDSEEAHGMNDRTVETLVVERYGRQNLFEAPTFRVFLGLLNTRMREMEMENIACKFPWETKLLKLSIIGEPFCQPCHLGLFHCYLYENQEEELLTETMLCFPLTASGPNHMEATV 600
Allele 4 SYILEDSEEAHGMNDRTVETLVVERYGRQNLFEAPTFRVFLGLLNTRMREMEMENIACKFPWETKLLKLSIIGEPFCQPCHLGLFHCYLYENQEEELLTETMLCFPLTASGPNHMEATV 600
Allele 5 SYILEDSEEAHGMNDRTVETLVVERYGRQNLFEAPTFRVFLGLLNTRMREMEMENIACKFPWETKLLKLSIIGEPFCQPCHLGLFHCYLYENQEEELLTETMLCFPLTASGPNHMEATV 600

LRR

Allele 1 FQTNVKKRLVIQTDMEMLVVTFICITFSHVRSLRLKGGQQEYKLTAPAMVLYRWTPISEASWVLFNSLCKTRNLEELDLSGNPLSYSAVRSLCTALRQPGCRKLTWLWVDCGLT SRCCSF 720
Allele 2 FQTNVKKRLVIQTDMEMLVVTFICITFSHVRSLRLKGGQQEYKLTAPAMVLYRWTPISEASWVLFNSLCKTRNLEELDLSGNPLSYSAVRSLCTALRQPGCRKLTWLWVDCGLT SRCCSF 720
Allele 3 FQTNVKKRLVIQTDMEMLVVTFICITFSHVRSLRLKGGQQEYKLTAPAMVLYRWTPISEASWVLFNSLCKTRNLEELDLSGNPLSYSAVRSLCTALRQPGCRKLTWLWVDCGLT SRCCSF 720
Allele 4 FQTNVKKRLVIQTDMEMLVVTFICITFSHVRSLRLKGGQQEYKLTAPAMVLYRWTPISEASWVLFNSLCKTRNLEELDLSGNPLSYSAVRSLCTALRQPGCRKLTWLWVDCGLT SRCCSF 720
Allele 5 FQTNVKKRLVIQTDMEMLVVTFICITFSHVRSLRLKGGQQEYKLTAPAMVLYRWTPISEASWVLFNSLCKTRNLEELDLSGNPLSYSAVRSLCTALRQPGCRKLTWLWVDCGLT SRCCSF 720

Allele 1 LASMLS AHSRLAELDLRLNDLGDNGVRQLCEGLRNPACNLSILRLDQASLSSEQVITELRALETKNPKLFISSWTMSHMTMPTENTDGEESLTS SKQQQQSGDKHMEPLGTDFFWFGPSG 840
Allele 2 LASMLS AHSRLAELDLRLNDLGDNGVRQLCEGLRNPACNLSILRLDQASLSSEQVITELRALETKNPKLFISSWTMSHMTMPTENTDGEESLTS SKQQQQSGDKHMEPLGTDFFWFGPSG 840
Allele 3 LASMLS AHSRLAELDLRLNDLGDNGVRQLCEGLRNPACNLSILRLDQASLSSEQVITELRALETKNPKLFISSWTMSHMTMPTENTDGEESLTS SKQQQQSGDKHMEPLGTDFFWFGPSG 840
Allele 4 LASMLS AHSRLAELDLRLNDLGDNGVRQLCEGLRNPACNLSILRLDQASLSSEQVITELRALETKNPKLFISSWTMSHMTMPTENTDGEESLTS SKQQQQSGDKHMEPLGTDFFWFGPSG 840
Allele 5 LASMLS AHSRLAELDLRLNDLGDNGVRQLCEGLRNPACNLSILRLDQASLSSEQVITELRALETKNPKLFISSWTMSHMTMPTENTDGEESLTS SKQQQQSGDKHMEPLGTDFFWFGPSG 840

Allele 1 PVSTEVVDRERNLYRVRPMAAGSYHCPSTGLHFVVTRAVTIEIGFCAWSQFLHETPLQSHHMVAGPLFDIKAHEGAVTAVCLPHFVSLQEGKVDSSLFVHAHFQDHGMVLET PARVEPHF 960
Allele 2 PVSTEVVDRERNLYRVRPMAAGSYHCPSTGLHFVVTRAVTIEIGFCAWSQFLHETPLQSHHMVAGPLFDIKAHEGAVTAVCLPHFVSLQEGKVDSSLFVHAHFQDHGMVLET PARVEPHF 960
Allele 3 PVSTEVVDRERNLYRVRPMAAGSYHCPSTGLHFVVTRAVTIEIGFCAWSQFLHETPLQSHHMVAGPLFDIKAHEGAVTAVCLPHFVSLQEGKVDSSLFVHAHFQDHGMVLET PARVEPHF 960
Allele 4 PVSTEVVDRERNLYRVRPMAAGSYHCPSTGLHFVVTRAVTIEIGFCAWSQFLHETPLQSHHMVAGPLFDIKAHEGAVTAVCLPHFVSLQEGKVDSSLFVHAHFQDHGMVLET PARVEPHF 960
Allele 5 PVSTEVVDRERNLYRVRPMAAGSYHCPSTGLHFVVTRAVTIEIGFCAWSQFLHETPLQSHHMVAGPLFDIKAHEGAVTAVCLPHFVSLQEGKVDSSLFVHAHFQDHGMVLET PARVEPHF 960

Allele 1 AVLENPFSFPMGVLLRMPAVGHFIPITISITLIYYRLLYLEDITFHLYLVPNDCTIRKAI DEEELKQFVRINKPPVDALYVGSRYIVSSSKEVEILPKLELELCYRSPRESQLFSEIYVG 1080
Allele 2 AVLENPFSFPMGVLLRMPAVGHFIPITISITLIYYRLLYLEDITFHLYLVPNDCTIRKAI DEEELKQFVRINKPPVDALYVGSRYIVSSSKEVEILPKLELELCYRSPRESQLFSEIYVG 1080
Allele 3 AVLENPFSFPMGVLLRMPAVGHFIPITISITLIYYRLLYLEDITFHLYLVPNDCTIRKAI DEEELKQFVRINKPPVDALYVGSRYIVSSSKEVEILPKLELELCYRSPRESQLFSEIYVG 1080
Allele 4 AVLENPFSFPMGVLLRMPAVGHFIPITISITLIYYRLLYLEDITFHLYLVPNDCTIRKAI DEEELKQFVRINKPPVDALYVGSRYIVSSSKEVEILPKLELELCYRSPRESQLFSEIYVG 1080
Allele 5 AVLENPFSFPMGVLLRMPAVGHFIPITISITLIYYRLLYLEDITFHLYLVPNDCTIRKAI DEEELKQFVRINKPPVDALYVGSRYIVSSSKEVEILPKLELELCYRSPRESQLFSEIYVG 1080

CARD

Allele 1 NIGSGINQLTDDKYMNIWEALLKPGDLR PALPRMASAPK DAPALLHFVDQHQREQLVARVTSVDPDLLDKLHGLVLS EEDYETVRAEATNQDKMRKLF RFGSR SWSWCKDHFYQALKETH 1200
Allele 2 NIGSGINQLTDDKYMNIWEALLKPGDLR PALPRMASAPK DAPALLHFVDQHQREQLVARVTSVDPDLLDKLHGLVLS EEDYETVRAEATNQDKMRKLF RFGSR SWSWCKDHFYQALKETH 1200
Allele 3 NIGSGINQLTDDKYMNIWEALLKPGDLR PALPRMASAPK DAPALLHFVDQHQREQLVARVTSVDPDLLDKLHGLVLS EEDYETVRAEATNQDKMRKLF RFGSR SWSWCKDHFYQALKETH 1200
Allele 4 NIGSGINQLTDDKYMNIWEALLKPGDLR PALPRMASAPK DAPALLHFVDQHQREQLVARVTSVDPDLLDKLHGLVLS EEDYETVRAEATNQDKMRKLF RFGSR SWSWCKDHFYQALKETH 1200
Allele 5 NIGSGINQLTDDKYMNIWEALLKPGDLR PALPRMASAPK DAPALLHFVDQHQREQLVARVTSVDPDLLDKLHGLVLS EEDYETVRAEATNQDKMRKLF RFGSR SWSWCKDHFYQALKETH 1200

Allele 1 PHLIMDLLEKSGGVS VRL 1218
Allele 2 PHLIMDLLEKSGGVS VRL 1218
Allele 3 PHLIMDLLEKSGGVS VRL 1218
Allele 4 PHLIMDLLEKSGGVS VRL 1218
Allele 5 PHLIMDLLEKSGGVS VRL 1218

Allele 1: LT-Sensitive (Brown Norway, Wistar, Sprague Dawley, BN-Lx, Dahl/SS)

Allele 2: LT-Sensitive (Fischer CDF)

Allele 3: LT-Resistant (Zucker-Lean)

Allele 4: LT-Resistant (Copenhagen)

Allele 5 LT-Resistant (Lewis, Wistar-Kyoto, SHR, SHR/Lj)