

**Data Set S1. NTLs peptide sequences**

>AT1G32870

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GDSSEFLNPVPSGISTTNEDDPSKDESSKFASSVWTFLESIPAKPAYASENPVFKLNLRMSTSGGRFRFTSKSTGNVVVM  
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>AT1G33060

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PGQNPYVLCRLFHKPSDSCDAHCEEIEKVNFPTTTRCSPDDTSSEMVQETATSGVHALDRSDDTERCLSDKGNNDVK  
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FQDGASEQDASLTDVLDEVFHNNESSNDRKDFVLPNMMHWPGNTRLLSTEYPFLKDSVAFVDGSAEVGSQQFVPDIL  
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RENQRDLDSSVVDQGTAPRRIRLQIEQPLTPVTNKKERDADNYEEDEVQSAMSKVVEEPAQTAQRRIRLQTRLR  
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>AT1G34180

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LLYEQFQYQTPEQNLLNMHPSTTLNQFTDNMWFKDDQAALYVQPPQSSSGAFTSQSTGVMPEMNPTMSVNPQYKEG  
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>AT1G34190

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>AT1G65910.1

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QIVPSQTIVYINPTDGNECCHSMSKEEVHVRKKINPRINGVSSTVLGQWRKFAHVIGFIPMLLMRCVHRGNSKNRG  
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>AT2G27300.1

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>AT3G10500.1

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>AT3G44290.1

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IQKPPQPSLPLDKHVNLRNEAISESIYGWETMVFYLSSESQELLSEIAESSQSSQNPQVPSEEDFYADILRDEIVKLDDPA  
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AVLVFYLV\*

>AT3G49530.1

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FKKEELVILGEEDSKSDEVEEPAVSSPTVEVTKSEVSEVIKTEDVKRHDIASESSLVISGDSHSDACDEATTAEVDFKWYPEL  
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DVVAPDQIAQVCQQGSVADMNSNDVSVTGIQIKSRQAQPSGYNDYIAQNGPRLQLQSNFNGINTKNPELQAIKREAED  
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>AT4G35580.2

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FFNDFMAFTDTDAEMAQLQYGGEGASGWPSDTNYYSDLVQQE MINHNTENNLTTEGRGIKIRARQPQRNSTGLINQ  
GIAPRIRLQLQSNSEVKEREVNEGHTVIPEAKEAAAKYSEKSGSLVKPQIKLRARTGVTIGQVKGERFADDEKFVVVTGTG  
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>AT5G04410.1

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NNVESGNYSDSGNYIQPGNNVVDSGGYFEQPIETFEEDRKPIIREGSIQPCSLFPEEQIGCGVQDENVNLESSNNNVFAD  
TCYSDIPDHNLPEPFMDPNNNPLNDGLYLETNDLSCAQQDDNFEDYLSFFDDEGLTFDDSLLMGPEDFLPNQEALD  
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>AT5G22290.1

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KARWDVIIGVVALIAMLFILE\*

>AT5G24590.2

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EPQNLSSCNKINDESKRGKIRARRAQAPGCAEQFVMQGDASRRLRLQVNLSHKSETDSTQLQFIKEVKDTTETMTK  
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>Bradi1g52480.2

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>Bradi1g77217

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FSQSQPDDFAIIAAGFHDEEGENASLDLYDKQVVDVQHGLFVSRVGAETFFHRVEPPNKVFHLPNAANSSVGVKAI  
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>Bradi2g09530.1

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RVDWTSENGNEVGNSDPHPQQNSVAATSVA SAEQPDAAAESVIGGELPNLATS AITA QTTPDG DDEIQGWLEG MIDFS  
NSAVDPV SAGL SLD E QNA ESS NRGA MAPK V EPD Y ASPN QF VV D D S DY LL P DDI YNMLCPG SDD F MPW HTE Q A ALA FA  
DQTY SIMGV DPFTLPSNF AE GTQ NEEL QL PLEINE PNL SNEA AD NGV IIR TRNG KTPA ESIP PYRSN RTRLQHS IN RMV VSS S  
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>Bradi3g12470

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>Bradi3g16480

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>Bradi3g56080

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VGSCIYSR\*

>Bradi4g34022

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>Glyma.02G240500

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NP\*

>Glyma.04G226700

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>Glyma.06G138100

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>Medtr5g069030

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>Phvul.006G087000

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>Phvul.010G121100

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>Seita.1G371600

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>Seita.6G055400

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>Seita.6G251900

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>Seita.4G000700

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**Data Set S2. NAC domain sequences of GmNTLs**

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### Data Set S3. NTLs cds sequences

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