```
AT5G15410.1          MPSHPNFIFRWIGLFSDKFRRQTTGIDENSNLQINGGDSSSSGSDETPVLSSVECYACTQ
Glyma18g49890.1      ----MHNTFSSLLRWISKKLRRRNSISNGDSGSDSFQNGAATVVDDNPFSSGVECYACTQ
                          :  *  :  : .*  *: ..*.:... . .  :.:::  *:.*. *.********

AT5G15410.1          VGVPAFHSTSCD-QAHAPEWRASAGSSLVPIQEG-SVPNPARTRFRRLKGPFGEVLDPRS
Glyma18g49890.1      VGVPVFHSTSCDSAFHQLQWEASAGSSLVPIQSRPNKVLGFRTVSGSSRGPFGRVLDPRS
                     ****.*******   *  :*.************.  .     **     :****.******

AT5G15410.1          KRVQRWNRALLLARGMALAVDPLFFYALSIGRTTGPACLYMDGAFAAVVTVLRTCLDAVH
Glyma18g49890.1      KRVQRWNRALLLARGVALAIDPLFFYSLSIGREG-SPCLYMDGGLAAMVTVARTCVDAVH
                     ****************:***:******:*****   ..******.:**:*** ***:****

AT5G15410.1          LWHVWLQFRLAYVSRESLVVGCGKLVWDPRAIASHYARSLTGFWFDVIVILPVPQAVFWL
Glyma18g49890.1      LLHVWLQFRLAYVSRESLVVGCGKLVWDAREIASHYLRSLKGFWFDAFVILPVPQVVFWL
                     * ***************************.* ***** ***.*****.:*******.****

AT5G15410.1          VVPKLIREEKVKLIMTILLLIFLFQFLPKIYHCICLMRRMQKVTGYIFGTIWWGFALNLI
Glyma18g49890.1      LVPKLLREEKIKIIMTIMLLIFLFQFLPKVYHSICMMRRMQKVTGYIFGTIWWGFGLNLI
                     :****:****:*:****:************:**.**:********************.****

AT5G15410.1          AYFIASHVAGGCWYVLAIQRVASCIRQQCMRTGNCNLSLACKEEVCYQFVSPTSTVGYPC
Glyma18g49890.1      AYFIASHVAGGCWYVLAIQRVASCLRQQCERTNGCNLSVSCSEEICYQSLLPASAIGDSC
                     *************************:**** **..****::*.**:*** : *:*::* .*

AT5G15410.1          LSGNLTSVVNKPMCLDSNGPFRYGIYRWALPVISSNSLAVKILYPIFWGLMTLSTFANDL
Glyma18g49890.1      GGN--STVVRKPLCLDVEGPFKYGIYQWALPVISSNSLAVKILYPIFWGLMTLSTFGNDL
                      ..  ::**.**:*** :***:****:*****************************.***

AT5G15410.1          EPTSNWLEVIFSIVMVLSGLLLFTLLIGNIQVFLHAVMAKKRKMQIRCRDMEWWMKRRQL
Glyma18g49890.1      EPTSHWLEVIFSICIVLSGLLLFTLLIGNIQVFLHAVMAKKRKMQLRCRDMEWWMRRRQL
                     ****:******** :******************************:*********:****

AT5G15410.1          PSRLRQRVRRFERQRWNALGGEDELELIHDLPPGLRRDIKRYLCFDLINKVPLFRGMDDL
Glyma18g49890.1      PSRLRQRVRHFERQRWAAMGGEDEMEMIKDLPEGLRRDIKRHLCLDLIRKVPLFHNLDDL
                     *********:****** *:*****:*:*:*** ********:**:***.*****:.:***

AT5G15410.1          ILDNICDRAKPRVFSKDEKIIREGDPVQRMIFIMRGRVKRIQSLSKGVLATSTLEPGGYL
Glyma18g49890.1      ILDNICDRVKPLVFSKDEKIIREGDPVPRMVFIVRGRIKRNQSLSKGMVASSILEPGGFL
                     ********.** *************** **:**:***:** ******:.:*:* *****:*

AT5G15410.1          GDELLSWCLRRPFLDRLPPSSATFVCLENIEAFSLGSEDLRYITDHFRYKFANERLKRTA
Glyma18g49890.1      GDELLSWCLRRPFIDRLPASSATFVCLESSEAFGLDANHLRYITDHFRYKFANERLKRTA
                     *************:****.*********. ***.*.::.*********************

AT5G15410.1          RYYSSNWRTWAAVNIQMAWRRRRKRTRGENIGGSMSPVSENSIEGNSERRLLQYAAMFMS
Glyma18g49890.1      RYYSSNWRTWAAVNIQFAWRRYRQRTKG-------PVTPVRDTNGGTERRLLQYAAMFMS
                     ****************:**** *:**:*       . .. .. :*.:**************

AT5G15410.1          IRPHDHLE
Glyma18g49890.1      IRPHDHLE
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