```
dicot     JI4       M-----DTLTSAPLLTTKF-KPSFSPQQK-----PCFPHRRRFENGKKNQ---SIVPVARLFGPAIFEASKLKVLFLGIDEN---KHPG------------NLPRTYTLTHSDVTSKLTL
          JI2775    M-----DTLTSAPLLTSKF-KPSFSPQQK-----PCFPHRRRFENGKKKQ---SIVPVARLFGPAIFEASKLKVLFLGIDEN---KHPG------------NLPRTYTLTHSDVTSKLTL
          GmSGR1    M-----CTLTTVPVLPSKLNKPSLSPHHN-----SLFPYCGRR-VGKKNK---SIVPVARLFGPAIFEASKLKVLFLGVDEN---KHPG------------NLPRTYTLTHSDITAKLTL
          GmSGR2    M-----GTLTTVPVLPSKLNKPSLSPRHN-----SLFPYYGRR-VGKKNK---AMVPVARLFGPAIFEASKLKVLFLGVDEN---KHPG------------NLPRTYTLTHSDITAKLTL
          LeSGR     M-----GTLTTSLVVPSKL----NNEQQS-----SIFIHKTRR-KCKKNQ---SIVPVARLFGPAIFEASKLKVLFLGVDEE---KHPG------------KLPRTYTLTHSDITSKLTL
          AtSGR1    M-----CSLSAIMLLPTKL-KPAYSDKRSNSSSSSSLFFNNRR-SKKKNQ---SIVPVARLFGPAIFESSKLKVLFLGVDEK---KHPS------------TLPRTYTLTHSDITAKLTL
          AtSGR2    M-----CSLATNLLLPSKM-KPVFPEKLS----TSSLCVTTRR-SKMKNR---SIVPVARLFGPAIFEASKLKVLFLGVDEK---KHPA------------KLPRTYTLTHSDITAKLTL
monocot   SbSGR     MAAATAAAASTMSLPPISQLR-QQQHGAGAV-----VVFRRRARDARRRR---YVVPTARLFGPAIFEASKLKVLFLGVDEESNNKHGHPTTPSPTSPPLPLLPRTYTLTHSDVTASLTL
          ZmSGR1    M----AAAASTMSLLPISQPRKQQQQGAGAV-----VVFQRRPWDARRRR---YVVPTARLFGPAIFEASKLKVLFLGVDEGSS-KHLHAHHPAP----APLLPRTYTLTHSDVTASLTL
          ZmSGR2    M-AAATAAASTMSLLPISQLR--QQHGAGA--------MRRRPWVARRRR---YVVPTARLFGPAIFEASKLKVLFLGVDDEAGSKQHGP------------LPRTYTLTHSDVTARLTL
          OsSGR     M----AAATSTMSLLPPITQQ-QRWHAADSL-----VVLASRCHNSRRRRRCRYVVPRARLFGPAIFEASKLKVLFLGVDEE---KHQHPG----------KLPRTYTLTHSDVTARLTL
          HvSGR     MAIAAAAGASTMSLLPISHLKQLQLQRRAR--------PGRVLVLGRRRR---HVVPRARLFGPAIFEASKLKVLFVGVDEE---KHPG------------KLPRTYTLTHSDVTARLTL
                    *       ::  : .                              :.:    :** **********:*******:*:*:    *:             ***********:*: ***

dicot     JI4       AISQTINNSQLQGWYNRLQRDEVVAQWKKVKGKMSLHVHCHISGGHFLLDIFARLRYFIFCKELPVVLKAFVHGDGNLFNNYPELEESLVWVFFHSK--IREFNKVECWGPLKEASQP--
          JI2775    AISQTINNSQLQGWYNRLQRDEVVAQWKKVKGKMSLHVHCHISGGHFLLDIFARLRYFIFCKELPVVLKAFVHGDGNLFNNYPELEESLVWVFFHSKILIREFNKVECWGPLKEASQP--
          GmSGR1    AISQTINNSQLQGWYNRFQRDEVVAQWKKVKGRMSLHVHCHISGGHFLLDILARLRYFIFCKELPVVLKAVVHGDENLFNSYPELQDALVWVYFHSN--IPEFNKVECWGPLKEASAP--
          GmSGR2    AISQTINNSQLQGWYNRLQRDEVVAQWKKVKGKMSLHVHCHISGGHFLLDILARLRYFIFCKELPVVLKAVVHGDENLFNNYPELQDALVWVYFHSN--IPEFNKVECWGPLKEASAP--
          LeSGR     AISQTINNSQLQGWYNRLQRDEVVAEWKKVKGKMSLHVHCHISGGHFMLDLFARLRNYIFCKELPVVLKAFVHGDENLLRNYPELQEALVWVYFHSN--IQEFNKVECWGPLRDATSPS-
          AtSGR1    AISQSINNSQLQGWANRLYRDEVVAEWKKVKGKMSLHVHCHISGGHFLLDLFAKFRYFIFCKELPVVLKAFVHGDGNLLNNYPELQEALVWVYFHSN--VNEFNKVECWGPLWEAVSPD-
          AtSGR2    AISQSINNSQLQGWANKLFRDEVVGEWKKVKGKMSLHVHCHISGGHFFLNLIAKLRYYIFCKELPVVLEAFAHGDEYLLNNHPELQESPVWVYFHSN--IPEYNKVECWGPLWEAMSQH-
monocot   SbSGR     AVSHTINRAQLQGWYNRLQRDEVVAEWKKVRGRMSLHVHCHISGGHFLLDLIAGLRYYIFRKELPVVLKAFVHGDGDLFSRHPELEDAPVWVYFHSN--LTRFNRVECWGPLRDAAAP--
          ZmSGR1    AVSHTINRAQLQGWYNRLQRDEVVAEWKKVRGRMSLHVHCHISGGHLLLDLIAGLRYYIFRKELPVVLEAFVHGDGDLFSRHPELEEATVWVYFHSN--LARFNRVECWGPLRDAAAPA-
          ZmSGR2    AVSHTINRAQLQGWYNRLQRDEVVAEWKKVRGRMSLHVHCHISGGHFLLDLIAGLRYVIFRKELPVVLKAFVHGDGDLFSRHPELEEATVWVYFHSN--LARFNRVECWGPLRDAAAP--
          OsSGR     AVSHTINRAQLQGWYNKLQRDEVVAEWKKVQGHMSLHVHCHISGGHVLLDLIAGLRYYIFRKELPVVLKAFVHGDGNLFSRHPELEEATVWVYFHSN--LPRFNRVECWGPLRDAGAP--
          HvSGR     AVSHTIHAAQLQGWYNRLQRDEVVAEWKKVQGAMSLHVHCHISGGHFLLDLIAPLRYYIFRKELSVVLKAFVHGDGSLFSQHPELEEATVWVYFHSN--NPNFNRVECWGPLSDAAAPYD
                    *:*::*: :***** *:: *****.:****:* *************.:*:::* :*  ** ***.***:*..***  *:  :***::: ***:***:    .:*:******* :*

dicot     JI4       ------------TSGTHSD-----------LKLPQSCEEDCECCFPPLNLSPIPCS---NEVINNTYEPIDGIGTQHGNL---
          JI2775    ------------TSGTHSD-----------LKLPQSCEEDCECCFPPLNLSPIPCS---NEVINNTYEPIDGIGTQHGNL---
          GmSGR1    ------------TGGVQEE----------GLAIPQPCQEECQCCFPPLTLSPIQWS---KQVPSRHYEPCDGIGTQQ-NL---
          GmSGR2    ------------IGGAKEESEQETLLSKEGLAIPQPCQEECECCFPPLTLSPIQWS---QQVPSHHYEPCDGIETQQ-SL---
          LeSGR     -------SSSGGVGGVKSTSFTSN--SNKKWELPKPCEEACACCFPPVSVMPWLSSNL-DGVGEENGTIQQGLQEQQS-----
          AtSGR1    -------GH-------KTE-----------TLPEARCADECSCCFPTVSSIPWSHSLSNEGVNGYSGTQTEGIATPNPEKL--
          AtSGR2    -------QHDG-RTHKKSE-----------TLPELPCPDECKCCFPTVSTIPWSHRHYQH TAADEN-VADGLLEIPNPGKSKG
monocot   SbSGR     ------PAEDDSTAPAAAS--NKDGQMPPVGEWPYRCPQQCDCCFPPHSLIPWPNE---RDMAAAAADASSAAGQAQQQ----
          ZmSGR1    ------PAEDDSTAPAAASI-AMEGQMP-VGEWPHRCPQQCDCCFPPHSLIPWPNE---QDMAAAAG-------QVRQQ----
          ZmSGR2    -------AEDDSTAPPDASNSKEAGQMMAMCEWPHRCPQQCGCCFPPHSLIPWPNE---HDMAAADAS-----GSAQQQ----
          OsSGR     -------PEEDDAVAAAAAEEAAAEQMPAAGEWPRRCPGQCDCCFPPYSLIPWPHQ---HDVAAADG-------QPQQ-----
          HvSGR     DEAAVDSPAADAAMAATAVNTAADEQATRAGQWPRRCPGQCDCCFPPECLIPWPHE---HEMAADAG-------QAPPQ----
                                                                  *   * ****.    *
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