

Brachypodium	NVGLILYEYMPEGTLFELLHERKPKQVALGWMARHQIALGVAQGLSYLHQDCVPMIVHRDV	992
Hordeum	GAGLILYEYMPEGTLFELLHGRRPQVALGWTARHQIALGLAQGLSYLHQDCVPMIVHRDV	1060
Triticum	GAGLILYEYMPEGTLFELLHGRKPQVALGWTVRHQIALGLAEGLSYLHQDCVPMIVHRDV	993
Oryza	SVGLILYEYMPEGTLFELLHRRKPHAALDWTVRHQIAFGVAQGLSYLHHDVCVPMIVHRDV	976
Panicum	SIGLILCEYMPEGTLFDLFHQKPKQVALDWMTRHQIALGIAQGLSYLHHDVCVPMIVHRDV	966
Setaria	SVGLILCEYMPKGTFLFDLLHQKPKQVALDWMIRHQIALGVAQGLSYLHHDVCVPMIVHRDV	1001
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Brachypodium	KSSNILMDVELVPKLTDFGMGKIVGDESDATVSVIVGTLGYIAPEHGYSTRLSEKSDVY	1052
Hordeum	KSNVNLMDADMVPKLADFGMGKIVGDESDATVSVIVGTLGYIAPEHGYSTRLTEKSDVY	1120
Triticum	KSSNVNLMDADMVPKLADFGMGKIVGDESDATVSVIVGTLGYIAPEHGYSTRLTEKSDVY	1053
Oryza	KSSNILMDTELVPKLTDFGMGKIVEDDDLDATVSVVVGTLGYIAPEHGYSTRLTEKSDVY	1036
Panicum	KSSNILMDSELVPKLTDFGMGKIVHDESDATVSVIVGTLGYIAPEHGYSTRLTEKSDVY	1026
Setaria	KSSNILMDTELVPKLTDFGMGKIVHDESDATVSAVIGTLGYIAPEHGYSTRLTEKSDVY	1061
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Brachypodium	SYGVVLELLCRKMPVDSAFGDGVDIVTWMRSNLKQADHC-SVMSCLDEEIVYWPEDQA	1111
Hordeum	SYGVVLELLCRKMAVDPAFGDGDIVTWMRSNPKQADRRPAAMSCLEEIVYWPEDQA	1180
Triticum	SYGVVLELLCRKMAVDPAFGDGDIVTWMRSNLKQADRRPAAMSCLEEIVYWPEDQA	1113
Oryza	SYGVVLELLCRKMPVDPAFGDSVDIVTWMRSNLTQADRR-VIMECLDEEIMYWPEDQA	1095
Panicum	SYGVVLELLCRKMPVDPSFGDGDIVATWMRTKLKQADHS-SIISLMDEEIMYWPEDQE	1085
Setaria	SYGVVLELLCRKMPVDPSFEDGVDIVATWIRTKLKQADRC-SIIDLMDEEIMYWPEDDQE	1120
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Brachypodium	KALHLLDLAISCTEVACQLRPSMREVNVNLRMDK----	1146
Hordeum	RALDMLDLAISCTQFSFQSRPSMREVNTLLRMDM----	1215
Triticum	KALDLLDLAISCTQAACQSRPSMREVNTLVRMDMQGFP	1152
Oryza	KALDLLDLAMYCTQLACQSRPSMREVNNLMRMDK----	1130
Panicum	KALDLLDLAVSCSQVACQSRPSMREVNNMLMKIEK----	1120
Setaria	KALDLLDLAVSCTQVACQSRPSMREVNNMLLKIEK----	1155
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Figure S1. Alignment of the BdPepR2 aa sequence with other predicted leucine-rich repeat receptor-like protein kinase PEPR1/2 proteins from the *Poaceae* family.