**Table S1:** The sequences for BLASTP.

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| --- | --- |
| gene id | sequence |
| APT42877.1 WRKY [Triticum aestivum] | MSMAPYEKVMDDLAKGQQFATQLQGLLRDSPKAGHIMDQILHTFSRAIHAAKAAAAASASESEVTDGASSGGKRKSAAGGGPRKACRTRTQDSSVVTKNMKSLEDGQTWRKYGQKEIQNSKHSKAYFRCTHKYDQQCMARRQAQRCDDDPDTFRVTYIGVHTCRDPAAAVAPHAPHLTGTAAGCHLISFAPAAAHGTTTTTNTNLVDDAAATGSGLQLPGLKLEGGDQEEVLSSRTPGSSALYGAAAAAAWPDQGDVTSTLQYGGAGAFGGGLFDGYPYLEDLLSYDLDH |
| AGX26172.1 WRKY [Oryza sativa Indica Group] | MDGARQESREYWRDGGDVVGEELLREILEETAAVHSNSNSNSNSNSNSKEAEEEDEREYFAAAAADEQLQVEAPCGRRRRESMVNKLISTVYSGPTISDIESALSFTAAGDHQLLADGHNFAASSCSPVVFSPEKTLSKTMENKYTLKIVSCGNDGGLADDGYKWRKYGQRSIKNSPNPRSYYRCTNPRCNSKKQVERAVDEPDTLIVTYEGLHLHYTYSHFLHSTSSSSSSTTTQQQLQPQPQMMTNCKKKPKLHLHPLLHDDPRPPPPPPEMTTMMIMQSFSIQQQQHDDDQLLQPAADDHLMVQAPPDDCYNINGSSSSGLMMSLEDDEQAAGAGGLLEDVVRLLVRRPPPPICNNNNYYYSPATTCTSDNEYGSSASASPSSSVSVSSWTTPMSPCIDMAILSNIF |
| NP\_001030634.1 WRKY DNA-binding protein 39 [Arabidopsis thaliana] | MEEVEAANRSAIESCHGVLNLLSQRTSDPKSLTVETGEVVSKFKRVASLLTRGLGHGKFRSTNKFRSSFPQHIFLESPICCGNDLSGDYTQVLAPEPLQMVPASAVYNEMEPKHQLGHPSLMLSHKMCVDKSFLELKPPPFRAPYQLIHNHQQIAYSRSNSGVNLKFDGSGSSCYTPSVSNGSRSFVSSLSMDASVTDYDRNSFHLTGLSRGSDQQHTRKMCSGSLKCGSRSKCHCSKKRKLRVKRSIKVPAISNKIADIPPDEYSWRKYGQKPIKGSPHPRYIYKHLLV |