Supplementary Material

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Figure S1

Figure S1 Multiple sequence alignment of calcium transporter proteins in rice and sorghum. ClustalW alignment of amino acid sequences of calcium channel (A), ATPase (B) and exchanger (C) from rice and sorghum was indicated. The conserved signature sequences of the calcium ATPase are boxed.

rice_Cachannel sorghum_Cachannel	MRERGEMREAKAPLIAEAAEHISHS-HGSGSSGTGSHTSGGGGGWRGSRQYQRRSDALAYMAEVEAPLIAEVEGEEGLGGFRGGSASAGGGRSGLGNGVRGARQYHRRSDALAY * *::****** **:::* . ** * . * *::********	
rice_Cachannel sorghum_Cachannel	GNRYQKAAALVDLAEDGVGIPEDVLNDTRFERAMRFYFVYLRLDWLWSLNLFALILLNFL GDRYQKAAALVDLAEDGVGIPEDVLNDTRFERAMRFYFVYLRLDWLWSLNLFALILLNFL *:***********************************	
rice_Cachannel sorghum_Cachannel	EKPLWCRGYSQHACDQRDLYFLGQLPYLSKTESLIYEGLTLVILVMDIFYPLSYEGLNLF EKPLWCQKYATHTCDQRDLYFLGQLPYLSKTESLIYEVLTLVLULFYPLSYEGLNIF ******: *: *: ************************	
rice_Cachannel sorghum_Cachannel	WKNTINKLKVLLLFILACDILVFAFSPQPFRVAPYIRVAFLIMNIRELRMCAVTLVGMVG WKNSMNKLKVLLLFILACDILVFMLNPGPFRVAPYIRVVFLIMTIRELRMCAVTLVGIVG	
rice_Cachannel sorghum_Cachannel	TYLNVLALSLLFLLFASWLAYVTFEDTPQGKTVFSSYGTTLYQMF1LFTTSNNPDVWVPA TYLNVLALSLLFLLFASWLAYVTFEDTPQGKIIFTSYGTTLYQMFVLFITSNNPDVWVPA	
rice_Cachannel sorghum_Cachannel	YKSSRUSSLFFIVYVLLGVYFLTNLILAVIYDSFKEQLAKQVSQADCTRKSILEKAFGII YKSSRUNALFIVIYVLLGVYFLTNLILAVIYDSFKEQLAKQVAQMDSIRKSILQKAFDLI *****::**:::*************************	
rice_Cachannel sorghum_Cachannel	DATGQGYLNKEQCLSLLDELNKYRSLPKTSREDFELIFAELDQSGDFKVTSEEFATLCNT DTNGQGYLNKEQCISLLDELNKYRSLPKTSKEDFELIFAELDRSGDFKVTSEEFADLCNT *:.***********************************	
rice_Cachannel sorghum_Cachannel	TAIKFQKEPPPSYLEKYPSFYHSALCEWLKSFVRSPLFEYIVIFVLLMNLVAVIIETTLD TAIKFQKEPPPSYLEKYPSFYHSPQCEKLKSFVRSRLFEYIVVFVLLVNLIAVIIETTLD	
rice_Cachannel sorghum_Cachannel	IENSSSQKVWQEVEFVFGWIYVIEMALKIFSLGFGAYWMEGQNKFDFVLTWTIFIGETLT IENSSSQKVWQEVEFVFGWIYVVEMALKIFSLGFGAYWMEGQNKFDFVLTWTIFIGETLT	
rice_Cachannel sorghum_Cachannel	FAFPSKLSFLSNGEWIRYLLLGRMLRLTRILLQVRRFRAFVATFFTLMSSLMPYLGIVFC FASPSTLPFLSNGEWIRYLLLGRMLRLTRILLQVQRFRAFVATFFTLMSSLLPYLGIVFC	
rice_Cachannel sorghum_Cachannel	TLCIYCSLGLQIFGGIVYAGNPTLEETDLFSNDYLLFNFNDYPSGMVTLFNLLVMGNWQA ILCVYCSIGLQFFGGIVYAGNSKLEETDLYGNDYLLFNFNDYPSGMVTLFNLLVMGNWQI **:***:***:**************************	
rice_Cachannel sorghum_Cachannel	WMESYRQLTGSYWSLTYFVSFYLISVLLLLNLIVAFVLEAFFAEMELEKDGEADIQDPTL WMESYAHLTGSSWSLVYFVSFYLISVLLLLNLIVAFVLEAFFAEMELEKAGEADMQDSTP	
rice_Cachannel sorghum_Cachannel	EGRNRRRSVRVRTKGTMVDILLHHMLSNELDGSQNRDQ 757 EGRNKRRSMRVRTKGTMVDILLHHMLSNELDGSQNSD- 751	





