



SDI Review Form 1.6

Journal Name:	American Journal of Experimental Agriculture
Manuscript Number:	2013_AJEA_7285
Title of the Manuscript:	A Tomato Inducer of CBF Expression 1 (SlICE1) is Involved in Cold Stress Signaling
Type of the Article	

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	1. The Fig. 2 B pattern seems to be error. The lanes are wrong with description in result. 2. In Fig. 1C, the degraded GST-SIICE1-CT should be smear, but not a clear band?	We deeply appreciated detailed comments and informative suggestions raised by the reviewer #1 on our manuscript. We have carefully revised the manuscript according to suggestions made by reviewers, as follows. 1) We agree with a comment pointed by reviewer#2 about description of the results. Thus, the sentence was revised as following. “When tomato leaves were subjected to cold stress, induction of ICE1 protein levels was not observed in the presence of EGTA (Ca²⁺ chelater) and weak signal was induced in the presence of LaCl₃ (a Ca²⁺ channel blocker). On the other hand, cold stress significantly enhanced the tomato ICE1 protein level in the presence of Ca²⁺ as expected (Fig. 2B).” 2) In my aspect, degradation patterns of recombinant proteins expressed in E. coli were observed as several individual bands or smeary broad ranging bands, dependent to properties of proteins. It is supposed that a putative cleavage site by E. coli endogenous proteases is located just at COOH terminus closed to the ICE1 specific epitope of the SIICE1 in this case.



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Minor REVISION comments	A lot of errors of grammar and words should be changed, (1) e.g., line 41, "an" should be changed in "a"; (2) line 43, the latin name of tomato should be added before SlICE1, then referred to as Sl--; (3) line 47, "STPS" should be changed "SITPS"; (4) line 77, "genome" should be revised into "genome"; (5) line 85, is different with "in aquistion of" at line 88; (6) line 92, "sawing" should be changed in "sowing"; (7) line 94, "Tomato" changed in "tomato"; (8) line 109-110, "The numbers of cycles were as indicated." Should be deleted. (9) Line 168, protein, 57.6 kDa is not consistent with 52kDa. Line 177 and other places, "EGTA" is "EDTA"? (10) line 219, " 5 h In contrast" is "5 h. In contrast"; (11) line 220 "RT-PCR, Increase of" is " RT-PCR, increase of", etc.	We fully agree with the indicated matter by reviewer #1. We thoroughly corrected words and sentences including errors pointed by reviewer#2 in revised manuscript as follows. (1) The part of "to an conserved motif among" was corrected to "to a conserved motif among". (2) The part of "To address roles of a tomato ICE1" was corrected to "To address roles of an ICE1 homolog of tomato (<i>Solanum lycopersicum</i>)". In addition, "The expression of SlICE1" was corrected to "The expression of a tomato ICE1 gene (SlICE1)". (3) The part of "and STPS1, respectively." Was corrected to "and SITPS1, respectively.". (4) The part of "in those genome sets" was corrected to "in the genome sets". Furthermore, the description of difference of ICE1 homologs between monocots and dicots was moved to Results. (5) The part of "in aquistion of tolerance" was corrected to "in acquisition of tolerance". (6) The part of "After sawing tomato seeds" was corrected to "After sowing tomato seeds". (7) The part of "The 4 week old-Tomato plants" was corrected to "The 4 week old-tomato plants". (8) The sentences was deleted. (9) A sentence of "The putative molecular mass of the ICE1-releted polypeptide with 52 kDa" was closed to the expected size of 57.6 kDa of SlICE1" was added. In addition, the part of "The induction of the endogenous SlICE1 protein (57.6 kDa) under cold stress" was corrected to "The induction of the
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		endogenous SLICE1 protein with the relative molecular mass of 52kDa under cold stress". (10) The part was corrected to " 5hr. In contrast, ". (11) The part was corrected to "RT-PCR, increase of SLICE1 protein".
<u>Optional/General</u> comments		