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Unraveling the cold response in Draba

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ABBREVIATIONS USED:

<i>AP2-domain</i>	<i>APETALA2-domain</i> amino acid sequence thought to function as DNA-binding domain.
<i>CAB</i>	<i>Chlorophyll a/b binding factor</i> transcription factor encoding the light-harvesting chlorophyll a/b-binding proteins of photosystem II and is involved in the diurnal and circadian rhythm of plants. <i>CAB</i> levels peak in the late morning.
<i>CCR</i>	<i>Cold-circadian rhythm-RNA binding factor</i> transcription factor involved in the circadian rhythm of plants. <i>CCR</i> levels accumulate in the early evening.
<i>CRT/DRE</i>	<i>C-repeat (CRT) dehydration responsive element (DRE)</i> a DNA regulatory element with a conserved core sequence of CCGAC that imparts responsiveness to low temperature and dehydration.
<i>CBF</i>	<i>C-repeat binding factor</i> transcription factor that binds to the CRT/DRE element and is involved in the early cold response of plants.
<i>COR</i>	<i>Cold responsive genes</i> genes containing the CRT/DRE element, which are regulated by <i>CBF</i> and confer freezing tolerance.
<i>HOS</i>	<i>High expression of osmotically responsive genes</i> a constitutively expressed transcription factor, that through mediating <i>ICE</i> expression negatively regulates the expression of <i>CBF</i> .
<i>ICE</i>	<i>Inducer of CBF expression</i> a constitutively expressed transcription factor critical for the activation of <i>CBF</i> expression, but which is inactive under non-stress conditions.
<i>NLS</i>	<i>Nuclear localization signal</i> amino acid sequence used to target the protein to the cell nucleus.
<i>ZAT = STZ</i>	<i>Salt tolerance zinc finger</i> transcription factor induced by dehydration, high-salt, abscisic acid and cold stress.