Article	Differential expression of the <i>HvCslF6</i> gene late in grain development may explain quantitative differences in (1,3;1,4)-β-glucan concentration in barley
Journal	Molecular Breed (ing
Authors	Sie Chuong Wong, Rachel A Burton, Neil J Shirley, Alan Little, Julian Schwerdt, Kelvin H.P. Khoo, Geoffrey B Fincher and Diane E. Mather
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Online Resource 3 Alignment of sequences from TR251, CDC Bold, Beka, Logan, TR306 and Harrington for a putative promoter region of *HvCslF6*.

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Harrington	$ \begin{array}{c} T \mathrel{\subseteq} A \mathrel{A} \mathrel{\subseteq} C \mathrel{\subseteq} C \mathrel{\subseteq} T \mathrel{T} T \mathrel{A} \mathrel{A} \mathrel{A} \mathrel{A} \mathrel{A} T \mathrel{T} \mathrel{G} \\ T \mathrel{\subseteq} A \mathrel{A} \mathrel{\subseteq} C \mathrel{\subseteq} C \mathrel{G} \mathrel{T} \mathrel{T} \mathrel{A} \mathrel{A} \mathrel{A} \mathrel{A} \mathrel{T} \mathrel{T} \mathrel{G} \\ T \mathrel{\subseteq} A \mathrel{A} \mathrel{G} \mathrel{C} \mathrel{\subseteq} C \mathrel{T} \mathrel{T} \mathrel{A} \mathrel{A} \mathrel{A} \mathrel{A} \mathrel{T} \mathrel{T} \mathrel{G} \\ T \mathrel{\subseteq} A \mathrel{A} \mathrel{G} \mathrel{C} \mathrel{\subseteq} T \mathrel{T} \mathrel{A} \mathrel{A} \mathrel{A} \mathrel{A} \mathrel{T} \mathrel{T} \mathrel{G} \\ T \mathrel{G} \mathrel{A} \mathrel{A} \mathrel{G} \mathrel{C} \mathrel{G} \mathrel{T} \mathrel{T} \mathrel{A} \mathrel{A} \mathrel{A} \mathrel{A} \mathrel{T} \mathrel{T} \mathrel{G} \\ T \mathrel{G} \mathrel{A} \mathrel{A} \mathrel{G} \mathrel{C} \mathrel{G} \mathrel{C} \mathrel{T} \mathrel{T} \mathrel{A} \mathrel{A} \mathrel{A} \mathrel{A} \mathrel{T} \mathrel{T} \mathrel{G} \\ T \mathrel{G} \mathrel{A} \mathrel{A} \mathrel{G} \mathrel{C} \mathrel{G} \mathrel{C} \mathrel{T} \mathrel{T} \mathrel{A} \mathrel{A} \mathrel{A} \mathrel{A} \mathrel{T} \mathrel{T} \mathrel{G} \\ T \mathrel{G} \mathrel{A} \mathrel{A} \mathrel{G} \mathrel{C} \mathrel{G} \mathrel{G} \mathrel{T} \mathrel{T} \mathrel{A} \mathrel{A} \mathrel{A} \mathrel{A} \mathrel{A} \mathrel{T} \mathrel{T} \mathrel{G} \\ \end{array}{} $	C G T C C G T T C T C T C C C C C G T C C G T T C T C T C C C C C C G T C C G T T C T C T C C C C C C G T C C C G T T C C T C C C C C C C G T C C C G T T C C T C C C C	$ \begin{array}{c} {\rm G} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm C} \ {\rm G} \ {\rm T} \ {\rm A} \ {\rm A} \ {\rm A} \ {\rm T} \ {\rm G} \\ {\rm G} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm C} \ {\rm G} \ {\rm T} \ {\rm A} \ {\rm A} \ {\rm A} \ {\rm T} \ {\rm G} \\ {\rm G} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm C} \ {\rm G} \ {\rm T} \ {\rm A} \ {\rm A} \ {\rm A} \ {\rm T} \ {\rm G} \\ {\rm G} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm C} \ {\rm T} \ {\rm A} \ {\rm A} \ {\rm A} \ {\rm T} \ {\rm G} \\ {\rm G} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm C} \ {\rm T} \ {\rm A} \ {\rm A} \ {\rm A} \ {\rm T} \ {\rm G} \\ {\rm G} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm C} \ {\rm T} \ {\rm A} \ {\rm A} \ {\rm A} \ {\rm T} \ {\rm G} \\ {\rm G} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm C} \ {\rm A} \ {\rm A} \ {\rm A} \ {\rm T} \ {\rm C} \\ {\rm G} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm A} \ {\rm A} \ {\rm A} \ {\rm T} \ {\rm C} \\ \\ {\rm T} \ {\rm A}^{\rm 0} \ {\rm A} \ {\rm A} \ {\rm A} \ {\rm C} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm C} \ {\rm C} \ {\rm T} \ {\rm A} \ {\rm A} \ {\rm A} \ {\rm C} \ {\rm C} \\ \end{array} {\rm C} \ {\rm C$	G C T T T G G G A C T G C T T T G G G A C T G C T T T G G G A C T G C T T T G G G A C T G C T T T G G G A C T G C T T T G G G A C T 1,20	$ \begin{array}{c} C \ G \ T \ T \ G \ A \ T \ T \ G \ T \ A \\ C \ G \ T \ T \ G \ A \ T \ T \ G \ T \ A \\ C \ G \ T \ T \ G \ A \ T \ T \ G \ T \ A \\ C \ G \ T \ T \ G \ A \ T \ T \ G \ T \ A \\ C \ G \ T \ T \ G \ A \ T \ T \ G \ T \ A \\ C \ G \ T \ T \ G \ A \ T \ T \ G \ T \ A \\ C \ G \ T \ T \ G \ A \ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ C \ G \ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ C \ G \ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ T \ G \ T \ A \\ T \ A \\ T \ T \ C \ C \ T \ T \ C \ A \\ T \ T \ C \ T \ A \\ T \ C \ C \ T \ T \ C \ A \ T \ T \ C \ C \ A \ T \ T \ C \ C \ A \ T \ T \ C \ C \ A \ T \ C \ C \ A \ T \ T \ C \ C \ A \ T \ C \ C \ A \ T \ T \ C \ C \ A \ T \ C \ C \ A \ T \ C \ C \ A \ C \ C \ C \ C \ C \ C \ C$	$ \begin{array}{c} G \mathrel{C} A \mathrel{G} T \mathrel{C} G \mathrel{G} G \mathrel{T} A \mathrel{G} G \mathrel{T} T \\ G \mathrel{C} A \mathrel{G} G \mathrel{T} G \mathrel{G} G \mathrel{T} A \mathrel{G} G \mathrel{T} T \\ G \mathrel{C} A \mathrel{G} T \mathrel{G} G \mathrel{G} T \mathrel{A} \mathrel{G} G \mathrel{T} T \\ G \mathrel{C} A \mathrel{G} T \mathrel{G} G \mathrel{G} T \mathrel{A} \mathrel{G} T T \\ G \mathrel{C} A \mathrel{G} T \mathrel{G} G \mathrel{G} T \mathrel{A} \mathrel{G} T T \\ G \mathrel{C} A \mathrel{G} T \mathrel{G} G \mathrel{G} T \mathrel{A} \mathrel{G} T T \\ $	$\begin{array}{c} TA \ TC \ A \ TG \ A \ A \ TG \ C \ TG \ G \ G \\ TA \ TC \ A \ TG \ A \ TG \ A \ TG \ C \ TG \ G \\ TA \ TC \ A \ TG \ A \ A \ TG \ C \ TG \ G \\ TA \ TC \ A \ TG \ A \ TG \ C \ TG \ G \\ TA \ TC \ A \ TG \ A \ TG \ C \ TG \ G \\ TA \ TC \ A \ TG \ A \ TG \ C \ TG \ G \\ TA \ TC \ A \ TG \ A \ TG \ C \ TG \ G \\ TA \ TC \ A \ TG \ A \ TG \ C \ TG \ G \\ TA \ TC \ A \ TG \ A \ TG \ C \ TG \ G \\ TA \ TC \ A \ TG \ A \ TG \ C \ TG \ G \\ TA \ TC \ A \ TG \ A \ TG \ C \ TG \ G \\ TA \ TC \ A \ TG \ A \ TG \ C \ TG \ G \\ TA \ C \ C \ TG \ G \ C \ TG \ G \\ TA \ TC \ A \ TG \ A \ TG \ C \ TG \ G \ C \ TG \ G \\ TA \ TC \ A \ TG \ A \ TG \ C \ TG \ G \ C \ TG \ C \ TG \ G \ C \ TG \ G \ C \ TG \ C \ TG \ G \ C \ TG \ C \ TG \ G \ C \ TG \ C \ C \ TG \ C \ C \ C \ C \ C \ C \ C \ C \ C \ $	G C T A G G C T A G 1,300
ldentity 1. TR251 2. CDC Bold 3. Beka 4. Logan 5. TR306 6. Harrington	$\begin{array}{c} C \ G \ T \ G \ C \ C \ C \ C \ G \ C \ A \ T \ A \ T \ G \ T \ G \ T \ G \ C \ C \ C \ G \ C \ A \ T \ A \ T \ G \ T \ G \ T \ G \ C \ C \ C \ G \ C \ A \ T \ A \ T \ G \ T \ G \ T \ G \ C \ C \ C \ G \ C \ A \ T \ A \ T \ G \ T \ G \ T \ G \ C \ C \ C \ C \ C \ C \ A \ T \ A \ T \ G \ T \ T$	G T T G G A T C G T C G A T G G T T G G A T C G T C G A T G G T T G G A T C G T C G A T G G T T G G A T C G T C G A T G G T T G G A T C G T C G A T G G T T G G A T C G T C G A T G 1,320 1,330	$ \begin{array}{c} C \ A \ A \ C \ A \ G \ C \ C \ A \ G \ G \ C \ C \ G \ C \ C \ G \ C \ A \ A \ G \ G \ C \ C \ G \ C \ C \ A \ A \ G \ G \ C \ C \ G \ C \ A \ A \ G \ G \ C \ G \ G \ C \ G \ C \ A \ C \ A \ G \ G \ C \ G \ G \ C \ G \ G \ C \ G \ G$	G T T A A T T A C T C G T T A A T T A C T C G T T A A T T A C T C G T T A A T T A C T C G T T A A T T A C T C G T T A A T T A C T C G T T A A T T A C T C 1,350	C T C C G G C C T C T C T C C G G C C T C T C T C C G G C C T C T C T C C G G C C T C T C T C C G G C C T C T C T C C G G C C T C T 1,360	C C A T A C C A G T G C C C A T A C C A G T G C C C A T A C C A G T G C C C A T A C C A G T G C C C A T A C C A G T G C C C A T A C C A G T G C 1.370	$ \begin{array}{c} A \subset G \ G \ C \ T \subset G \ C \ C \ A \ C \ G \ A \ T \ C \\ A \subset G \ G \ C \ T \ C \ G \ C \ C \ A \ C \ G \ A \ T \ C \\ A \subset G \ G \ C \ T \ C \ G \ C \ C \ A \ C \ G \ A \ T \ C \\ A \ C \ G \ G \ C \ T \ C \ G \ C \ C \ A \ C \ G \ A \ T \ C \\ A \ C \ G \ G \ C \ T \ C \ G \ C \ C \ A \ C \ G \ A \ T \ C \\ A \ C \ G \ G \ C \ T \ C \ G \ C \ C \ A \ C \ G \ A \ T \ C \\ A \ C \ G \ G \ C \ T \ C \ G \ C \ C \ A \ C \ G \ A \ T \ C \\ A \ C \ G \ G \ C \ T \ C \ G \ C \ C \ A \ C \ G \ A \ T \ C \\ A \ C \ G \ C \ T \ C \ G \ C \ C \ A \ C \ G \ A \ T \ C \\ A \ C \ G \ G \ C \ T \ C \ G \ C \ C \ A \ C \ G \ A \ T \ C \\ C \ A \ C \ G \ A \ T \ C \\ C \ A \ C \ G \ A \ T \ C \ C \ A \ C \ G \ A \ T \ C \\ C \ A \ C \ G \ A \ C \ C \ C \ A \ C \ G \ A \ C \ C \ C \ A \ C \ C \ C \ A \ C \ C$	G T T T T T T T T T T T T T T T T T T T
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ldentity 1. TR251 2. CDC Bold 3. Beka 4. Logan 5. TR306 6. Harrington	$ \begin{array}{c} C \ T \ A \ A \ C \ A \ A \ C \ T \ G \ G \ C \ C \ T \ A \ A \ C \ T \ G \ G \ C \ C \ T \ A \ A \ C \ T \ G \ G \ C \ C \ T \ A \ A \ C \ T \ G \ G \ C \ C \ T \ A \ C \ T \ A \ A \ A \ C \ T \ G \ G \ C \ C \ T \ A \ A \ C \ T \ G \ G \ C \ C \ T \ A \ A \ C \ T \ A \ C \ T \ A \ C \ A \ A \ C \ T \ G \ G \ C \ C \ T \ A \ A \ C \ T \ A \ C \ T \ A \ C \ T \ A \ C \ T \ A \ C \ T \ A \ C \ T \ A \ C \ T \ A \ C \ T \ A \ C \ T \ A \ C \ T \ A \ C \ T \ A \ C \ T \ A \ C \ T \ A \ C \ T \ A \ C \ C \ C \ T \ A \ A \ C \ T \ A \ C \ T \ A \ C \ T \ A \ C \ T \ A \ C \ T \ A \ C \ T \ A \ C \ T \ A \ C \ T \ C \ C \ C \ C \ C \ T \ A \ A \ C \ T \ C \ C \ C \ C \ T \ A \ A \ C \ T \ C \ C \ C \ C \ C \ C \ C \ C$	T T T G C A A A T T G C T C T T T T G C A A A T T G C T C T T T T G C A A A T T G C T C T T T T G C A A A T T G C T C T T T T G C A A A T T G C T C T T T T G C A A A T T G C T C T T T T G C A A A T T G C T C T 1,520	$\begin{array}{c} \mathbf{A} & \mathbf{G} \mathbf{A} \mathbf{C} \mathbf{C} \mathbf{C} \mathbf{T} \mathbf{C} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{G} \mathbf{C} \mathbf{T} \mathbf{T} \mathbf{G} \mathbf{I} \\ \mathbf{A} & \mathbf{G} \mathbf{A} \mathbf{C} \mathbf{C} \mathbf{C} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{G} \mathbf{C} \mathbf{C} \mathbf{T} \mathbf{T} \mathbf{G} \mathbf{I} \\ \mathbf{A} & \mathbf{G} \mathbf{A} \mathbf{C} \mathbf{C} \mathbf{C} \mathbf{T} \mathbf{C} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{G} \mathbf{C} \mathbf{C} \mathbf{T} \mathbf{T} \mathbf{G} \mathbf{I} \\ \mathbf{A} & \mathbf{G} \mathbf{A} \mathbf{C} \mathbf{C} \mathbf{C} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{G} \mathbf{C} \mathbf{C} \mathbf{T} \mathbf{T} \mathbf{G} \mathbf{I} \\ \mathbf{A} & \mathbf{G} \mathbf{A} \mathbf{C} \mathbf{C} \mathbf{C} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{G} \mathbf{C} \mathbf{C} \mathbf{T} \mathbf{T} \mathbf{G} \mathbf{I} \\ \mathbf{A} \mathbf{G} \mathbf{A} \mathbf{C} \mathbf{C} \mathbf{C} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{G} \mathbf{C} \mathbf{C} \mathbf{T} \mathbf{T} \mathbf{G} \mathbf{I} \\ \mathbf{A} \mathbf{G} \mathbf{A} \mathbf{C} \mathbf{C} \mathbf{C} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{G} \mathbf{C} \mathbf{C} \mathbf{T} \mathbf{T} \mathbf{G} \mathbf{I} \\ \mathbf{A} \mathbf{G} \mathbf{A} \mathbf{C} \mathbf{C} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{G} \mathbf{C} \mathbf{T} \mathbf{T} \mathbf{G} \mathbf{I} \\ \mathbf{A} \mathbf{G} \mathbf{A} \mathbf{C} \mathbf{C} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{G} \mathbf{C} \mathbf{T} \mathbf{T} \mathbf{G} \mathbf{I} \\ 1 5 4 0 \end{array}$	A T T C C T C C C G T A T T C C T C C C G T A T T C C T C C C C G T A T T C C T C C C C G T A T T C C T C C C G T A T T C C T C C C G T A T T C C T C C C G T 1,550	$\begin{array}{c} T \mbox{ A } \mbox{ G } \mbox{ T } \mbox{ C } \mbox{ A } \mbox{ G } \mbox{ G } \mbox{ G } \mbox{ A } \mbox{ G } \mbox{ C } \mbox{ A } \mbox{ G } \mbox{ C } \mbox{ A } \mbox{ G } \mbox{ G } \mbox{ A } \mbox{ G } \mbox{ C } \mbox{ A } \mbox{ G } \mbox{ G } \mbox{ A } \mbox{ A } \mbox{ G } \mbox{ A } \mbox{ G } \mbox{ A } \mbox{ A } \mbox{ A } \mbox{ G } \mbox{ A } \m$	G C T C C A T C A G C A G C T C C A T C A G C A G C T C C A T C A G C A G C T C C A T C A G C A G C T C C A T C A G C A G C T C C A T C A G C A 1570	C G G A T T A C A T G C T C C T C G G A T T A C G T G C T C C T C G G A T T A C G T G C T C C T C G G A T T A C G T G C T C C T C G G A T T A C G T G C T C C T C G G A T T A C G T G C T C C T 580	
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		1,810	1,820	1,830	1,840	1,850	1,860	1,870	1,880	1,890	1,90
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\mathbf{A} & \mathbf{G} & \mathbf{C} & \mathbf{A} & \mathbf{G} & \mathbf{A} \\ \mathbf{C} & \mathbf{T} & \mathbf{G} & \mathbf{A} & \mathbf{G} & \mathbf{C} & \mathbf{A} & \mathbf{G} & \mathbf{A} \\ \mathbf{C} & \mathbf{T} & \mathbf{G} & \mathbf{A} & \mathbf{G} & \mathbf{C} & \mathbf{A} & \mathbf{G} & \mathbf{A} \\ \mathbf{C} & \mathbf{C} & \mathbf{A} & \mathbf{G} & \mathbf{A} & \mathbf{G} & \mathbf{C} \\ \mathbf{C} & \mathbf{A} & \mathbf{G} & \mathbf{C} & \mathbf{A} & \mathbf{G} & \mathbf{A} \\ \mathbf{C} & \mathbf{C} & \mathbf{A} & \mathbf{G} & \mathbf{C} & \mathbf{A} & \mathbf{G} & \mathbf{C} \\ \mathbf{C} & \mathbf{C} & \mathbf{C} & \mathbf{A} & \mathbf{G} & \mathbf{C} \\ \mathbf{C} & \mathbf{C} & \mathbf{C} & \mathbf{C} & \mathbf{C} & \mathbf{C} & \mathbf{C} \\ \mathbf{C} & \mathbf{C} & \mathbf{C} & \mathbf{C} & \mathbf{C} & \mathbf{C} & \mathbf{C} \\ \mathbf{C} & \mathbf{C} & \mathbf{C} & \mathbf{C} & \mathbf{C} & \mathbf{C} & \mathbf{C} \\ \mathbf{C} & \mathbf{C} \\ \mathbf{C} & 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\mathbf{T} \\ \mathbf{F} \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{F} \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{F} \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{F} \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{F} \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{F} \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{F} \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{F} \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{A} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \\ \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{T} \mathbf{C} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{T} \mathbf{T} \mathbf{C} \mathbf{T} \mathbf{T} \mathbf{T} \mathbf{T} \mathbf{T} \mathbf{T} \mathbf{T} T$	$ \begin{array}{c} C \ A \ T \ T \ G \ C \ T \ T \ C \ C \\ C \ A \ T \ T \ G \ C \ T \ T \ C \ C \\ C \ A \ T \ T \ G \ C \ T \ T \ C \ C \\ C \ A \ T \ T \ G \ C \ T \ T \ C \ C \\ C \ A \ T \ T \ G \ C \ T \ T \ C \ C \\ C \ A \ T \ T \ G \ C \ T \ T \ C \ C \\ C \ A \ T \ T \ G \ C \ T \ T \ C \ C \\ C \ A \ T \ T \ G \ C \ T \ T \ C \ C \\ C \ A \ T \ T \ G \ C \ T \ T \ C \ C \\ C \ A \ T \ T \ G \ C \ T \ T \ C \ C \\ C \ A \ T \ T \ G \ C \ T \ T \ C \ C \\ C \ A \ T \ T \ G \ C \ T \ T \ C \ C \\ C \ A \ T \ T \ G \ C \ T \ T \ C \ C \\ C \ A \ T \ T \ G \ C \ T \ T \ C \ C \\ C \ A \ T \ T \ G \ C \ T \ T \ C \ C \ C \ T \ T \ C \ C$	$\begin{array}{c} T \ T \ T \ T \ T \ C \ C$	$ \begin{array}{c} T \subset C \subset C \ T \ G \subset \mathbf{A} \subset A \\ T \subset C \subset T \ G \subset C \subset C \\ T \ G \subset C \subset A \\ T \subset C \subset T \ G \subset C \subset C \\ T \ G \subset C \subset A \\ T \subset C \subset T \ G \subset C \subset A \\ T \subset C \subset T \ G \subset C \subset A \\ T \subset C \subset T \ G \subset C \subset A \\ \end{array} $	$\begin{array}{c} {\rm I \ G \ C \ T \ A \ A \ A \ G \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \ C \\ {\rm T \ G \ C \ T \ A \ A \ A \ G \ C \ C \ C \ C \ C \ C \ C \ C \ C$	TGCCCC TGGCCCCC TGGCCCC TGGCCC TGG TGG T
Identity											
1. TR251 2. CDC Bold 3. Beka 4. Logan 5. TR306 6. Harrington	$\begin{array}{c} T \subset G \ G \ C \ C \ A \\ T \subset G \ G \ C \ C \ A \\ T \ C \ G \ G \ C \ C \ A \\ T \ C \ G \ G \ C \ C \ A \\ T \ C \ G \ G \ C \ C \ A \\ T \ C \ G \ G \ C \ C \ A \end{array}$	$\begin{array}{c} T \ T \ G \ C \ C \ T \ G \ A \ G \\ T \ T \ G \ C \ C \ T \ G \ A \ G \\ T \ T \ G \ C \ C \ T \ G \ A \ G \\ T \ T \ G \ C \ C \ T \ G \ A \ G \\ T \ T \ G \ C \ C \ T \ G \ A \ G \\ T \ T \ G \ C \ C \ T \ G \ A \ G \end{array}$	$\begin{array}{c} C C T G C C A T T G G \\ C C T G C C A T T G G \\ C C T G C C A T T G G \\ C C T G C C A T T G \\ C C T G C C A T T G \\ C C T G C C A T T G \\ C C T G C C A T T G \\ \end{array}$	T T G G A C C T T C T T G G A C C T T C T T G G A C C T T C T T G G A C C T T C T T G G A C C T T C T T G G A C C T T C	$ \begin{array}{c} G G A C C C T G G T T C T C C C G G G G G G G G$	C T T G T C G T A A . C T T G T C G T A A . C T T G T C G T A A . C T T G T C G T A A . C T T G T C G T A A . C T T G T C G T A A .	A G G C A A A G G A G G C A A A G G	$ \begin{array}{c} \mathbf{A} & \mathbf{G} & \mathbf{A} & \mathbf{G} & \mathbf{C} & \mathbf{G} & \mathbf{C} & \mathbf{G} & \mathbf{T} & \mathbf{G} \\ \mathbf{A} & \mathbf{G} & \mathbf{A} & \mathbf{G} & \mathbf{C} & \mathbf{G} & \mathbf{C} & \mathbf{G} & \mathbf{T} & \mathbf{G} \\ \mathbf{A} & \mathbf{G} & \mathbf{A} & \mathbf{G} & \mathbf{C} & \mathbf{G} & \mathbf{C} & \mathbf{G} & \mathbf{T} & \mathbf{G} \\ \mathbf{A} & \mathbf{G} & \mathbf{A} & \mathbf{G} & \mathbf{C} & \mathbf{G} & \mathbf{C} & \mathbf{G} & \mathbf{T} & \mathbf{G} \\ \mathbf{A} & \mathbf{G} & \mathbf{A} & \mathbf{G} & \mathbf{C} & \mathbf{G} & \mathbf{C} & \mathbf{G} & \mathbf{T} & \mathbf{G} \\ \mathbf{A} & \mathbf{G} & \mathbf{A} & \mathbf{G} & \mathbf{C} & \mathbf{G} & \mathbf{C} & \mathbf{G} & \mathbf{T} & \mathbf{G} \\ \mathbf{A} & \mathbf{G} & \mathbf{A} & \mathbf{G} & \mathbf{C} & \mathbf{G} & \mathbf{C} & \mathbf{G} & \mathbf{T} & \mathbf{G} \\ \end{array} $	$\begin{array}{c} C \ A \ T \ T \ G \ A \ G \ G \ A \ C \\ C \ A \ T \ T \ G \ A \ G \ G \ A \ C \\ C \ A \ T \ T \ G \ A \ G \ G \ A \ C \\ C \ A \ T \ T \ G \ A \ G \ G \ A \ C \\ C \ A \ T \ T \ G \ A \ G \ G \ A \ C \\ C \ A \ T \ T \ G \ A \ G \ G \ A \ C \\ C \ A \ T \ T \ G \ A \ G \ G \ A \ C \\ C \ A \ T \ T \ G \ A \ G \ G \ A \ C \\ C \ A \ T \ T \ G \ A \ G \ G \ A \ C \\ C \ A \ T \ T \ G \ A \ G \ G \ A \ C \\ C \ A \ T \ T \ G \ A \ G \ G \ A \ C \\ C \ A \ T \ T \ G \ A \ G \ G \ A \ C \\ C \ A \ T \ T \ G \ A \ G \ G \ A \ C \\ C \ A \ T \ T \ G \ A \ G \ G \ A \ C \\ C \ A \ T \ T \ G \ A \ G \ G \ A \ C \ C \ A \ C \ C \ A \ T \ T \ G \ A \ G \ G \ A \ C \ C \ A \ C \ C \ A \ T \ T \ G \ A \ G \ G \ A \ C \ C \ A \ C \ C \ A \ C \ C \ A \ C \ C$	$\begin{array}{c} \texttt{G} \texttt{A} \texttt{C} \texttt{G} \texttt{G} \texttt{G} \texttt{C} \texttt{C} \texttt{A} \texttt{T} \texttt{G} \texttt{G} \\ \texttt{G} \texttt{A} \texttt{C} \texttt{G} \texttt{G} \texttt{G} \texttt{C} \texttt{C} \texttt{A} \texttt{T} \texttt{G} \\ \texttt{G} \texttt{A} \texttt{C} \texttt{G} \texttt{G} \texttt{G} \texttt{C} \texttt{C} \texttt{A} \texttt{T} \texttt{G} \\ \texttt{G} \texttt{A} \texttt{C} \texttt{G} \texttt{G} \texttt{G} \texttt{C} \texttt{C} \texttt{A} \texttt{T} \texttt{G} \\ \texttt{G} \texttt{A} \texttt{C} \texttt{G} \texttt{G} \texttt{G} \texttt{C} \texttt{C} \texttt{A} \texttt{T} \texttt{G} \\ \texttt{G} \texttt{A} \texttt{C} \texttt{G} \texttt{G} \texttt{G} \texttt{C} \texttt{C} \texttt{A} \texttt{T} \texttt{G} \\ \texttt{G} \texttt{A} \texttt{C} \texttt{G} \texttt{G} \texttt{G} \texttt{C} \texttt{C} \texttt{A} \texttt{T} \texttt{G} \\ \texttt{G} \texttt{A} \texttt{C} \texttt{G} \texttt{G} \texttt{G} \texttt{C} \texttt{C} \texttt{C} \texttt{A} \texttt{T} \texttt{G} \\ \texttt{G} \texttt{A} \texttt{C} \texttt{G} \texttt{G} \texttt{G} \texttt{C} \texttt{C} \texttt{C} \texttt{A} \texttt{T} \texttt{G} \\ \texttt{G} \texttt{G} \texttt{A} \texttt{C} \texttt{G} \texttt{G} \texttt{G} \texttt{C} \texttt{C} \texttt{C} \texttt{A} \texttt{T} \texttt{G} \\ \texttt{G} \texttt{G} \texttt{G} \texttt{G} \texttt{G} \texttt{G} \texttt{C} \texttt{C} \texttt{C} \texttt{A} \texttt{G} \texttt{G} \texttt{G} \\ \texttt{G} \texttt{G} \texttt{G} \texttt{G} \texttt{G} \texttt{G} \texttt{G} \texttt{G}$	

Fig. S3 Alignment of sequences from TR251, CDC Bold, Beka, Logan, TR306 and Harrington for a putative promoter region of *HvCslF6*.