

LCA00972	FGMVLGPQOSVAAAEEATL	PSGTVPAATGSRNS-GLIDRVTSTD-SSPIKSGTDEVGFEL	NADQASKVGVSWSKTL	PFDLNKDKR--TLD	MQLNLGNKT-GGAD	100		
LSA0172		TIVTAKADEVITYRE-	ESHIGIIADKRMDFG	RHDITGIDRNLYNIAKTDNQKPAVSVEDY-TSR		67		
SA1730_1731		-D-DPVETDKVRITYTYGVY	KRMLSQVEAPSKWDFG	T-HNRTOQDTSTYLEDRKTP	QAVKVTDRD-GVD	63		
SA0211_0212		-KAED-DPQGQDQRITTYGVK	KAMLSIDAPSS-EFG	DNNKPMDRTTYLNQNQGTP	QAVTVTDNQ-YGQ	68		
LSA1283	AKDSLFMQAAAATAIGKR	QAOQLTTTSVDSSEES-SKKAEEKVV-VSNIAELEQEPSL	GKLTRDQVPR-RFG-NVLAKEVDTYGTNTQNPQ	-EVN	DTILKTTDTW-VND	105		
LME00911	SNAIISPEGIVTLS	GIGTENGNGNIVAHXKVGN-NTPSTS	PDELPIDPNNNDVSP	-LISAPD-VDFG	S-HKINSETSLIGN- FKGNCQVSG-EKSK	92		
T07092_7093		VGGVQFT-NQTSIQPTDIAKE	QVHIRTVD-KAGNKSTTKHISTTQ	GRVDMILTVPKSWEFT	P-IQLINGEQNSFGL-TLG	KLMIHDSR-NQAD	89	
BCEA0044		VGGVQFT-NQTSIQPTDIAKE	QVHIRTVD-KAGNKSTTKHISTTQ	GRVDMILTVPKSWEFT	P-IQLINGEQNSFGL-TLG	KLMIHDSR-NQAD	89	
LCR00181	AQNLNLNDITTN	NASGNSIINNLSPHQV-NNGSLKDA	AGACGVAESEVNQANLVN	GKIDMSSVPTKIDFG	E-NAISSWESVYQG-VLD	NSVIVSDTRATNLAT	104	
LCR00710A	QNLNLNDITTN	NAAGWSVRLDLPNLVLSVNSGLSSAV	TGAGGVAEFSKNNVMQNLINS	GSIGNSVSPSQIDFG	K-NPVPVDPKSYQG-MLD	NSVVSDTRAPNLAT	104	
EF02660	-EIAQNTQATVILADGRANOTPSL	DAATEQAIQQAKPEELA-KTVPAN	TEAGETLNLKKVNVVIS	GELTLEKVKPKTIDFG	K-QKISAKEPEVYWP-TLS	DDLVVQDTR-GSEST	110	
LCA00293	-QNLNLNDITTN	ANRIOQNSTALRTRNGSP-KATSPDV	KPPDPQPKPDEDDQS	GALIIVEVPD-BDFG	I-LISGETQVVRP-QMA	GLLIEDSR-KIAK	104	
LCR00187	-QNLNLNDITTN	FRAADGTIEEPVSISSPD	LTWTTLQQTQANNPLIDG-DGNIRPVTV	TNGLLSKDITLNLTH	GAIISLPTNSNDFG	SDVVTDTGSAK	104	
LLX01616	-QNLNLNDITTN	FRAADGTIEEPVSISSPD	LTWTTLQQTQANNPLIDG-DGNIRPVTV	TNGLLSKDITLNLTH	GAIISLPTNSNDFG	SDVVTDTGSAK	104	
EF01001	EKITVIVYKDKDAEGKDIAPPSL	VTGKIGAFYQEKPDIS-CVVFTRKDSG	NAEGMTTEETKDIYFYVRL	GELLYKEAPKQPTFG	T-EKIRNQPLKIG-HPT	EGLVVKVDR--NAN	109	
EFA03340	DIHVYVYKDKDSCUDIAEMKT	ITGKIGKEMKTPIDE-GVVFDSDSA	NTEGCFISENDEDIYFYVRL	GKLVLYSTAPQVNFQ	K-HKISSRPLSEFG-QFS	GGKLKIIDER-AEG	108	
LCA00329	IDLKTPA	GKDFLA-ILDPETGELVLE-LVPSFVIE	LKNQCTGVNPTVNM	VKGKLPPTTTNQDA	NADQVLTNQQGREPTNSTGK	VLSVKDTR-PTQ	97	
SA0613_0614	SLLKGPAAAAAANQD	QDQESDPTQPNQVVE-ANIPAPAI	TTPVKRVLDLIPA	GKLGMIAAPTHDFG	S-LPLTNSQSPVLPNTKTAD	TSLLVSDPFR-ATTRG	104	
PPE00545	SKLTVS-THEDGAKVRLVGNCAGEKRI	LEEVNSAHAQVBDDELLIC	QPKWSKNAK	KVQVLEDDHQMSNEFTRII	S-HEPLEITVCS	EVHVKDRS-ELDH	121	
LIN00557	-ATLTPGSPVNPDKD	-DIAASKVDLNKAG-DIFVVELSTPDWPPITDAAKPTVILV	REGILEMKISDDRMD	DENTDPIPISNNQTLKCAQEGD	A-ELEVLDRR-RANQ	107		
LIN00552	VNATLITGTVGVSIVD	-DIEESVVDLTKAG-DIVVTLSS	PGNPFSQATAPIVTVVVHV	RESMEIQIPNDPRMGIDENSENSEVPLILNQKTLKCGADGK	VDLKVTDRR-RSKQ	105		
LMO00549	VNATLITGEGTRND	-DITVVKVRINTAG-DIVVTLTS	PKSCVYEQDAIPTVTVHV	KELIEIQPKDPERMDIDANADSVPISDQKTLKCGGSSGK	A-ELEVDRR-TVQ	105		
1p_2173	TA-INVTDTS-TVKVPTNADDGTA	VIASLSPVNGKQPTV	TTNAALLTV	GTLINQRLAQGTDLAA	TDPITAVKANDG-YDG	TRIAVVDDE-TVGA	110	
EFA03594	-GDTIHLTINQLNTWDT	SVQSVSILTKAAVLISSN-ITLADGARL	PNPVVQTSATILVPK	QELTLVNVNPDDFTFG	NDLPKPLKTSVYEA-KGD	PSDVRDTR-LPSTS	105	
EFA03967	-NQIAGADVIEIVLNDQAGEAT	-ANGVQNKPSTNDIEGNH-NESDTPVTV	HDAPPKATPKIVVE	GGLSILIA-PSKDFG	Q-JATGTLQAEQGQ-DIQ	EKLINIDQR-EETK	107	
LLX01219	VLTVGDSLSDISKFLSATDAGNPLK	TKVSLVGLADKVDTHVKVG-DWSLTSNKL	PISPIEKVVHVHKV	GALTILSSLPS-IDEN	N-ILLNGSQTSKSPK	ISINLRDRR-GLSD	112	
LBR00959	-DSSHSHIVPTENGGSMAQGKHP	SAPSTTDDVTGLEPADS	KNAAGSTV-NSNDITNANNGLLISAELL	GTDLGAVDQKNDYN	IADLSEQPTLLPRTTGND	LYPEVIDTR-SATP	115	
1p_3075	DAAGKYLADPTK	ISGATGDAWHIKPEIQLGVPDQPGVQGN	TDKDETTILMLN	GGLMFVSAQPQINFQ	Q-NPITGKSENVGA-SVD	TGLVQIYDQRG-SIGS	100	
1p_3117	VKWDGDGVIEADEET	SSGTGSDGAVTQATTAKTD	GTVLHATPT	GNLFLPNSSPTMD	S-HTISGTFITVYAP	KTLAVQONNG-QISS	104	
EF02286	QGEIQIADETTTN	SKTFKEAALLPEITIGKQQLVVEV	DKGKIDELAIVTVVV	GSRVKTVPFTAISFG	NEQIASSTTQPIV	SMD-QPNIIRDTR-QTGN	103	
EF01892	VHNSIPLADNMEUAN	TIQTLQVATVTTIEIN-QCLLFSSTV	TCGNDGGTPITPIKQSLP	NGTLRQVOMPITVFSK	N-LPFPSKTRITYSPS-TIS	APFLIADG-VAKT	108	
1p_3676	ABADGTLIANVHANGSNEPD	MAGYFHLLRPLTESKQGPNDV	QKGVPSVWSD-QHGRSNSIDPLTVNN	SGLMIGQINAQMRP	S-NITPQSEBLSP	NQEVHEDTR-SVAS	108	
1p_3064	LVKQAGIVATNPDSATIDITY	ANANETSIAASKLSSLIAVG-SSTTIN	KGSSGLKSDAKAITV	GTLISGTLPLASLTFG	T-LTIPKFETLYQP	MNITVNDTR-KTGS	111	
1p_2975	QAGVVAUTNPNSNAMDTMTY	BASESGLVALFKGLADN-OSTAVHINA	TSASGLTSDHALOTV	GTLISGTLQGQLTTNMSFG	D-LKVPLTFQVYQ	LAISVTDTR-ATGA	107	
LBR01269	-ANLQCPPTVINGTAASP	EVGATFTLISAD	I-SGTSNTSVTV	GTAKLQSQAKTSS	T-TILSCQGQMLINP	NPD-QQVQNSL	108	
LSA1820	GTHBYAIDDAEKTIAQ	NNVGPVLWSGIPVGLSINDTHKLTV	MTNAGVNEKSAVTV	GKAKLQSQAKTSS	T-TILSCQGQMLINP	GTGT	108	
1p_0297	-DGMRIEVPRNGEAGEDVQLSMD	PVGVVEEVDAEEQ	QIGENQITLRAHS	KDNASEPVTVTV	GELQKVKVSTESVFA	P-LLTGTQAOVSRPEG	LEVUVVNDTR-GSA	110
LBR00331	-PINHVTINGVQKEPIKVA	EDGTFKVLQANQKQG-DNIVWVAT	SGBEIRSNAAEV	GCLEI-TAPSDFSE	S-QLTGTQOKEQKLR	ELSVQDTR-GAGS	105	
1p_3450	VTLHPTLNGKEPTVOMSDD	-EOGYFVYKVAEADLHVGDNEIELA	SDRDNENVSPVSD	GELGKTVKAVKSTSF	T-TLTDGSQATTDR	OLVVRDRS-KGKS	110	
BR1027_1028	ITVKSTINGRAQADKIP	PSFDDNESGRFD	TVKPNQTAGDNLLIIT	PVGNESNPLKVTIT	GQVLTNGVAEASSFE	S-TTLTGSQQVQKR	QINVLDTR-TAGA	110
LBR00625	PRVTFQPVLFV	DTGIFSLPLKASDQAGTNTLILVTA	DTGDTISNTVTPV	GDLKRSNDAAASHFQ	T-ATLIGQDQLA	NDLADSDTR-GTGN	107	
LIN00595	-NINDEEKFQIILDKSEANAE	IVTGGDKLTPDVKVTSTLNKKE	GTGTT	T-TIQGTLTKEITI	GELKQHNVPAITSFE	EDLSVLDSE-GAGS	108	
LMO00587	-ELNDAEIEQIILTKSGA	QJETGED	TTDVKVAESTNLKKE	TA-TIQGGLTKEIAQV	GELKQHNVPETISFE	EDLSVLDSE-GAGD	108	
ECU00750	MGEAVPQTVKVGTDLSK	DISLNTVLSVTDNAE	DK-PISVSVRLIEDIPKTDAL	TNQCVKEAKVVPVIVE	GTLKLVDVDPV	N-LVIAKSPVLPNPS	GRVTVVDRG-AKIQ	125
BTH03761	-MDTSEVTDL	SDVTDNLNDK	PISVSKM	T-TQGOVAT	TTVTPVTV	ATSL	NSLKVTDNE-VKXO	108

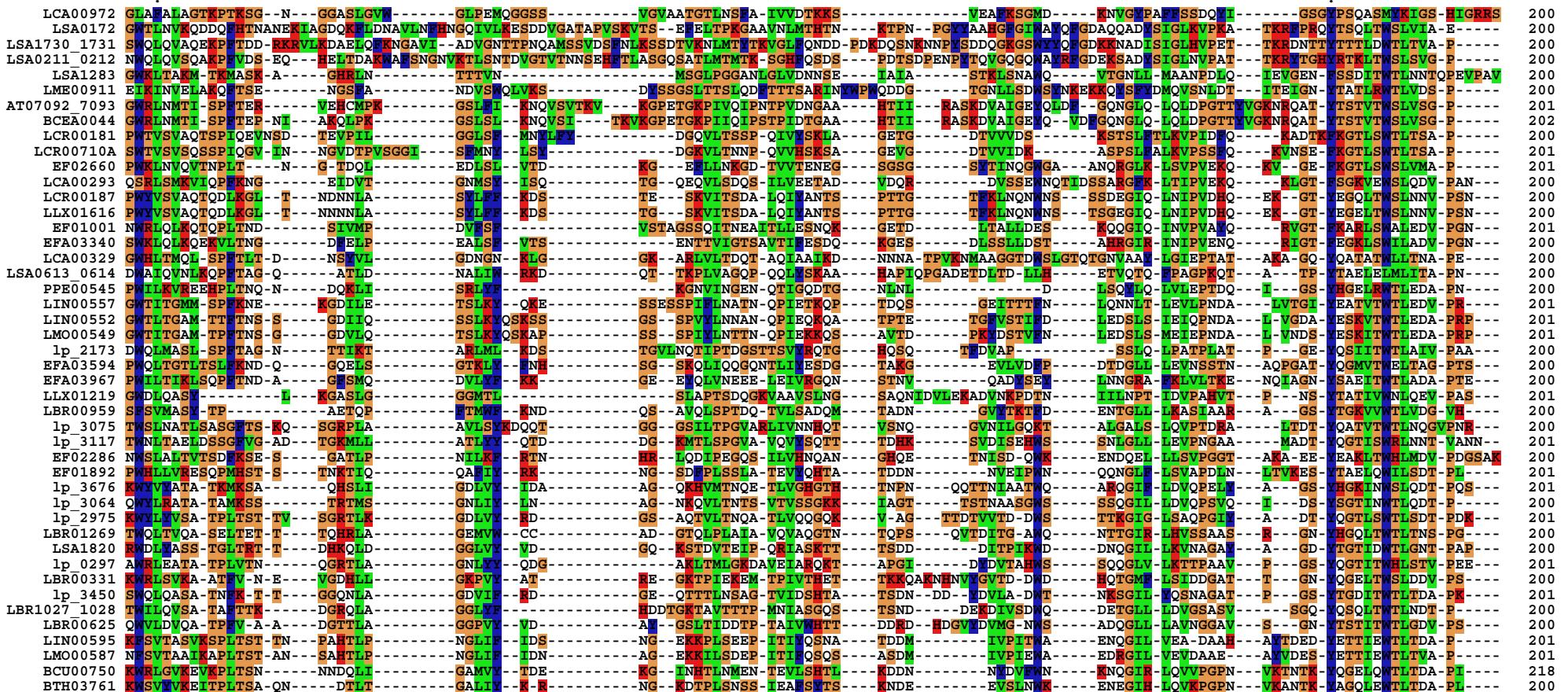


Figure 6:

Multiple sequence alignment of CscC proteins. Only the last 200 residues are shown. Proteins IDs can be found in additional file Table 5. Colour coding of highly conserved residues: green, hydrophobic (L, M, I, V); blue, aromatic (W, F, Y); red, basic (R, K, H); light brown, neutral and small (P, G, S, T).