

Figure S1: Sequence alignments of surface residues of cluster 2.

This sequence alignment shows how the residues displayed in Figure 2B (highlighted in yellow) are strongly conserved in the CRT /CNX sequence family. More detailed information about the sequence names is provided in Figure S2.

GROUP_1		GROUP_3	
human_GB_CRT	DEFTHLYTLIVRPDNTYEVKIDNS	SPT_Q4R3W0_MACFA	DGFTHLYTLILRPDLSYDVKIDGQ
SPT_A8E4J9_9ACAR	DVFTHLYTLIVKPDNTYVVKIDNE	SPT_B1Q2L7_MOUSE	DGFTHLYTLILRPDLSYEVKVDGQ
SPT_Q64K99_9ACAR	DVFTHLYTLIVKPDNTYVVKIDNE	SW_CALR3_HUMAN	DGFTHLYTLILRPDLSYDVKIDGQ
SPT_B5X0V5_SALSA	DELTHLYTLILNPDQTYEVKINNE	SPT_Q3TQS0_MOUSE	NKDTHLYTLILRPNATYEVKIDNQ
SW_CALR_RABIT	DEFTHLYTLIVRPDNTYEVKIDNS	SPT_D3ZYM6_RAT	NKDTHLYTLILRPNATYEVKIDNE
SPT_Q64K76_IXOPE	DVYTHLYTLIVKPDNTYTVKIDNE	SPT_C1N041_9CHLO	DELTHVYTLRLHANNTYEVVIDNE
SPT_Q7ZXY3_XENLA	DSFTHLYTLIVRPDNTYEVKIDNS	SPT_O45034_SCHJA	DQKTHLYTLIVRPDNSYEVVLDNE
SPT_Q68HD1_IXOSC	DVYTHLYTLIVKPDNTYTVKIDNE	SPT_C4Q5I7_SCHMA	DLKTHLYTLIVNPNNKYEVVLDNE
SPT_B5X207_SALSA	DEYTHLYTLILNPDNTYEVKIDNK	SPT_C8XTL8_9EUKA	DQLTHVYTLVVKPDNTYKIKIDGE
SPT_Q64K83_9ACAR	DVYTHLYTLVLKPDNTYTVKIDNE	SPT_D3BIF1_POLPA	DQLSHQYTLILKPDNTYAVLIDNV
SW_CALR_MACFA	DEFTHLYTLIVRPDNTYEVKIDNS	SW_CALR_EUGGR	DTLSHTYTAVIKADRTEYEVVLDQV
SPT_Q9U6S0_STRPU	DEFTHLYTLIVKSDNSYEVVIDNE	SPT_C4M296_ENTHI	DDISHLYTLIIRPNNTYVVKIDGV
SPT_A5D7J6_BOVIN	DEFTHLYTLIVRPNNTYEVKIDNS	SPT_B7GDH4_PHATR	DSVTHLYTLVVRPDNTFEVFDNK
SPT_A1YB06_EISFO	DTLSHLYTLIVRPDNTYEVKIDNK	SPT_Q967S4_TRYCO	DKLTHAYTLHIAPDNSYKFFLDGS
SPT_Q98984_RANRU	DVYSHLYTLIVRPDNTYEVKIDNS	SPT_A4HJP8_LEIBR	EKATHVYTVQISPNNTYQLYVDGK
SPT_B3S3X6_TRIAD	DELTHLYTLILKSDNTYEVKIDNE	SPT_Q4Q601_LEIMA	DTATHVYTVETIAPNNTYQLYVDGM
SPT_Q6NVT6_XENTR	DSFTHLYTLIVRPDNTYEVKIDNS	SPT_Q4CPZ0_TRYCR	DKLTHVYTLHIAADNSYEFFLDGE
SPT_A5LGG9_CRAGI	DVFTHLYTLIVNPDNSYVVKIDNE	SPT_C8CIJ1_9TRYP	DKLTHVYTLRISSDDSYELYVDDEE
SW_CALR_CRIGR	DEFTHLYTLIVRPDNTYEVKIDNS	SPT_Q9XYF8_TRYCR	DKLTHVYTLHIAADNSYEFFLDGE
SPT_A6YIE3_PINFU	DVFTHLYTLIVNSDNTYEVVIDNE	SPT_C5L9W8_9ALVE	DTLSHVYRLVLRPNDTVRVEIDGE
SPT_Q6WSQ2_RHISA	DVFTHLYTLIVKPDNTYQVIKIDNE	SPT_C5LE92_9ALVE	DTSSHVYRLVLRPNDTVRVEVDGE
SPT_Q64K91_DERAN	DVFTHLYPLIVKPDNTYQVKIDNE	SPT_C5LZP6_9ALVE	DTLSHVYRLVLRPNDTVRVEIDGD
SPT_Q64K92_9ACAR	DVFTHLYTLIVKPDNTYQVKIDNE	SPT_D0NR25_PHYIN	DTDAHLYSFVLKPDPTYEVKIDGK
SPT_Q0VJ74_9BILA	DELTHLYTLILRPDNTYEVQIDGE	SPT_A8PEL1_BRUMA	DELSHVYTLILYPNNSIQIFADYE
SPT_Q64K89_DERVA	DVFTHLYTLIVKPDNTYQVKIDNE		
SPT_O97372_DIRIM	DVFTHLYTLIVNSDNTYEVQIDGE	GROUP_4	
SPT_Q9PUC1_DANRE	DELTHLYTLILRPDQTYEVKIDNE	SPT_Q7Y140_ORYSJ	DQLTHVYTLIIRPDAKYSILIDNT
SPT_C5MRN9_9BILA	DELTHLYTLILNADNTYEVQIDGE	SPT_A9SCB3_PHYPA	DKLSHVYTFIIRPDATYSILVDNK
SPT_Q26268_APLCA	DVFSHLYTLIVRPDNTYEVKIDNE	SW_CALR_BERST	DQLTHVYTFILRPDASYSILIDNV
SW_CALR_ONCVO	DVFTHLYTLIVNSDNTYEVQIDGE	SPT_C4PB36_CARPA	DQLTHVYTFILRPDATYSILVDNV
SPT_A9C3S5_DANRE	DEYSHLYTLIVNPDNTYEVKIDNK	SW_CALR1_ARATH	DQLTHVYTFVLRPDATYSILIDNV
SPT_B8K275_FENCH	DVFSHLYTLIVNPDNTYEVVIDNE	SPT_A9NS22_PICSI	DQLTHVYTFILHPDATYSILIDNK
SPT_Q8IS63_COTRU	DVYTHLYTLIVKPDNTYEVVIDNE	SPT_Q5MCL9_WHEAT	DQLSHVYTLIIRPDATYSILIDNE
SPT_Q8WR36_ANOGA	DVFTHFYTLVVRADNTYEVVIDNE	SPT_O22502_BRANA	DQLTHVYTFILRPDATYTILVDNV
SPT_Q17MI1_AEDAE	DVYTHFYTLVVKSDNTYEVVIDNE	SPT_B9F6V5_ORYSJ	DQLTHVYTLIIRPDAKYSILIDNT
SPT_C1BVC1_9MAXI	DAFTHLYTLILNTDRTYQVLIDNA		
SPT_D3TM69_GLOMM	DVYTHFYTLIVKPDNTYEVVIDNE	GROUP_5	
		SPT_B5M4U3_9STRA	DKDTHLYTAVIRDDNTFEVFDQK
GROUP_2		SPT_A9PHA6_POPTR	DKHTHVYTAILKSDNELQILVDGE
SPT_C6TCW1_SOYBN	DRLTHFYTFILRPDATYSVLVDNR	SW_CALX_PEA	DKLSHVYTAVLKDDNEVSILIDGE
SPT_B6TA28_MAIZE	DKLTHVYTFILRPDASYSLLVDNR	SW_CALX_RAT	DKKTHLYTLILNPDNSFEILVDQS
SPT_C5XET1_SORBI	DKLTHFYTFILRPDASYSLLVDNR	SPT_B4R3M8_DROSI	DYLPHLYQLVVRPDNSFEIRVDHK
SPT_B8LRK0_PICSI	DKLTHVYTLIIRPDASYSILIDNR	SPT_Q9TVF3_SCHJA	DKKTHLYTLVLRSDNSFERVIDQI
SPT_B4FUA8_MAIZE	DKLTHVYTFILRPDASYSLLVDNR	SPT_A2E253_TRIVA	DKNNHLYTLIVRPDNTFEILIDAE
SPT_C5Z0S1_SORBI	DKLTHFYTFILRPDATYSILIDNR	SPT_A8K454_HUMAN	DRKTHLYTLVMNPDDTFEVLVDQT
SPT_Q8GUI1_ARATH	DKLNHFYTFILRPDASYSVLVDNK	SPT_Q80YU3_MOUSE	DRKTHLYTLVMNPDDTFEVLIDQK
SPT_B9MY68_POPTR	DKLTHFYTFILRPDASYSVLVDNR	SPT_Q7Q9V3_ANOGA	DKRPHLYQLIIRPDNTYTIRVDHK
SPT_Q8LJ85_ORYSJ	DKLTHVYTFILRPDASYSILVDNR	SPT_B4JYJ8_DROGR	DKLPHLYQLVLRPDNSFEIRLDHK
SPT_B8AZS4_ORYSI	DKLTHFYTFILRPDASYSLLVDNR	SPT_D1ZZU8_TRICA	DKLPHLFTLVLRHPDNTFEILIDNK
		SPT_Q0KHZ9_DROME	DKLPHLYQLVVRPDNSFEIRVDHK
		SPT_Q9I7S9_DROME	DKLPHLYQLVVRPDNSFEIRIDHK
		SPT_B4IF87_DROSE	DKLPHLYQLVVRPDNSFEIRIDHK
		SPT_Q6ZP56_HUMAN	DKKTHLYTLILNPDNSFEILVDQS