

Figure S4: Sequence alignments of the SQDAR 69-73 segment.

This sequence alignment shows how the residues highlighted in yellow are well conserved in the CRT groups 1 and 2; less conserved in groups 3 and 4; and not conserved in the group 5. The following F74 (green) is found in most of the CRT-like sequences, except for the plant group 4. It is not present in the CNX-like group 5 sequences. Details corresponding to the sequence names are given in Figure S2.

GROUP_1		GROUP_3	
human_GB_CRT	GLQTSQDARFYAL	SPT_Q4R3W0_MACFA	GLQTTQNGRFYAI
SPT_A8E4J9_9ACAR	GIQTSSEDAFYGL	SPT_B1Q2L7_MOUSE	GLQTTQNSRFYAI
SPT_Q64K99_9ACAR	GLQTSSEDAFYGI	SW_CALR3_HUMAN	GLQTTQNGRFYAI
SPT_B5X0V5_SALSA	GLQTSQDARFYAL	SPT_Q3TQS0_MOUSE	GLQTTTQDAKFFYAL
SW_CALR_RABIT	GLQTSQDARFYAL	SPT_D3ZYM6_RAT	GLQTTTQDAKFFYAL
SPT_Q64K76_IXOPE	GIQTSSEDAFYGL	SPT_C1N041_9CHLO	GIQTSADARFYAL
SPT_Q7ZXY3_XENLA	GLQTSQDARFYAM	SPT_O45034_SCHJA	GLKTTQDARFYGI
SPT_Q68HD1_IXOSC	GIQTSSEDAFYGL	SPT_C4Q5I7_SCHMA	GLKTTQDARFYGI
SPT_B5X207_SALSA	GLQTSQDAHFYSS	SPT_C8XTL8_9EUKA	GIMTTQDAKFFYAL
SPT_Q64K83_9ACAR	GIQTSSEDAFYGL	SPT_D3BIF1_POLPA	GIQTSQDARFYAI
SW_CALR_MACFA	GLQTSQDARFYAL	SW_CALR_EUGGR	GIQTSQDAKFFYAI
SPT_Q9U6S0_STRPU	GIQTSQDAKFFYGL	SPT_C4M296_ENTHI	GLQTSSEDNKFFYIA
SPT_A5D7J6_BOVIN	GLQTSQDARFYAL	SPT_B7GDH4_PHATR	GIQTSVDARFFGI
SPT_A1YB06_EISFO	GLQTTQDARFYGI	SPT_Q967S4_TRYCO	GLRLTEDARFYAL
SPT_Q98984_RANRU	GLQTSQDAKFFYAH	SPT_A4HJP8_LEIBR	GVKLTEDSKFFYAI
SPT_B3S3X6_TRIAD	GIQTSQDARFYAV	SPT_Q4Q601_LEIMA	GLKLMEDAKFFYAV
SPT_Q6NVT6_XENTR	GLQTSQDARFYAL	SPT_Q4CPZ0_TRYCR	GLRLTEDARFYAL
SPT_A5LGG9_CRAGI	GIQTSQDAKFFYGI	SPT_C8CIJ1_9TRYP	GLQLTQDARFYAV
SW_CALR_CRIGR	GLQTSQDARFYAL	SPT_Q9XYF8_TRYCR	GLRLTEDARFYAL
SPT_A6YIE3_PINFU	GIQTSQDAKFFYGI	SPT_C5L9W8_9ALVE	GLKTAEDHRYFYAY
SPT_Q6WSQ2_RHISA	GLQTSSEDAFYGI	SPT_C5LE92_9ALVE	GLKTAEDHRYFYAY
SPT_Q64K91_DERAN	GLQTSSEDAFYGI	SPT_C5LZP6_9ALVE	GLKTAEDHRYFYAY
SPT_Q64K92_9ACAR	GLQTSSEDAFYGI	SPT_D0NR25_PHYIN	AIKTSSEDAFYAL
SPT_Q0VJ74_9BILA	GLKTSQDAKFFYSR	SPT_A8PEL1_BRUMA	GLTTTQDVKNYAI
SPT_Q64K89_DERVA	GLQTSSEDAFYGI		
SPT_O97372_DIRIM	GLKTTQDAKFFYSI	GROUP_4	
SPT_Q9PUC1_DANRE	GLQTSQDARFYAL	SPT_C6TCW1_SOYBN	GIQTSSEDAKHFAI
SPT_C5MRN9_9BILA	GLKTAQDARFYSI	SPT_B6TA28_MAIZE	GIQTTIDARHFYAI
SPT_Q26268_APLCA	IQTSQDARFYGL	SPT_C5XET1_SORBI	GIQTTMDARHFYAI
SW_CALR_ONCVO	GLKTTQDAKFFYSI	SPT_B8LRK0_PICSI	GIQTYPDARHYAI
SPT_A9C3S5_DANRE	GLQTSQDAHFYAM	SPT_B4FUA8_MAIZE	GIQTTIDARHFYAI
SPT_B8K275_FENCH	GIQTTQDARFYGL	SPT_C5Z0S1_SORBI	GIQTTGDAKHFAI
SPT_Q8IS63_COTRU	GIQTTTQDARFYAL	SPT_Q8GUI1_ARATH	GIQTYNDAKHYAI
SPT_Q8WR36_ANOGA	GLQTSQDARFYAL	SPT_B9MY68_POPTR	GIQTYNDAKHFYAI
SPT_Q17MI1_AEDAE	GLQTSQDARFYAA	SPT_Q8LJ85_ORYSJ	GIQTTLDARHFYAI
SPT_C1BVC1_9MAXI	GIQTSQDARFYAL	SPT_B8AZS4_ORYSI	GIQTTSDAKHFYAI
SPT_D3TM69_GLOMM	GLQTSQDARFYAI		
		GROUP_5	
GROUP_2		SPT_B5M4U3_9STRA	GLVLDKPARHYGL
SPT_Q7Y140_ORYSJ	GIQTSSEDFYFYAI	SPT_A9PHA6_POPTR	GLLVSEPAKHYAI
SPT_A9SCB3_PHYPA	GIQTSSTDSRYFYAI	SW_CALX_PEA	GLLVSEPAKHYAI
SW_CALR_BERST	GIQTSSEDFYFYAI	SW_CALX_RAT	GLVLMSSRAKHHA
SPT_C4PB36_CARPA	GIQTSSEDFYFYAI	SPT_B4R3M8_DROSI	GLVLLKSKAKHAAI
SW_CALR1_ARATH	GIQTSSEDFYFYAI	SPT_Q9TVF3_SCHJA	ALVLLKSKAKHHAV
SPT_A9NS22_PICSI	GIQTHPDARFFAI	SPT_A2E253_TRIVA	LFKMKAAASKYYGA
SPT_Q5MCL9_WHEAT	GIQTSSEDFYFYAI	SPT_A8K454_HUMAN	GLVLLKSKAKHHA
SPT_Q22502_BRANA	RPARTTDTSTPSQL	SPT_Q80YU3_MOUSE	GLVLLKSKAKHHA
SPT_B9F6V5_ORYSJ	GIQTSSEDFYFYAI	SPT_Q7Q9V3_ANOGA	GLVLLKSKAKHAAI
		SPT_B4JYJ8_DROGR	GLVLLKSKAKHAAI
		SPT_D1ZZU8_TRICA	GLVLLKSKAKHAAI
		SPT_Q0KHZ9_DROME	GLVLLKSKAKHAAI
		SPT_Q9I7S9_DROME	GLVLLKSKAKHAAI
		SPT_B4IF87_DROSE	GLVLLKSKAKHAAI
		SPT_Q6ZP56_HUMAN	GLVLMSSRAKHHA