

calmodulin-interacting genes

Gene	RYR2 (p.A4091V)	UBR4 (p.A2133T)	UBR5 (p.H1946R, p.R1251H)	PI4KA (p.D83N)	KIF21B (p.R1201W)
Homo sapiens	H E P A K D I	K S F A A T I	S L K H V A Y ... K S A R L D L	L L S D V A Y	L P T R G S T
Macaca mulatta	H E P A K D I	K S F A A T I	S L K H V A Y ... K S A R L D L	L L S D V A Y	L P T R G S T
Mus musculus	H E P A K D I	R S F A A T V	S L K H V A Y ... K S A R L D L	L L S D V A C	L P T R G S T
Canis familiaris	H E P A K D I	R S F A A T V	S L K H V A Y ... K S A R L D L	L L S D V A Y	L P T R G S T
Gallus gallus	H E P A K D I	K S F A A T I	S L K H V A Y ... K S A R L D L	L L S D V A Y	L P T R G S T
Xenopus tropicalis	Q E P A K D I	K S F A A T I	S L K H V A Y ... K S A R L D L	L L S D V A H	L P I R G N T
Danio rerio	H E P A K D I	K S F A A T V	S L K H V A Y ... K S A R L D L	L L S D V A Q	L P I R G H T

candidates directly interact with known LQTS genes

Gene	CIT (p.S1929Y)	RIMS1 (p.E493Q)	PIK3CG (p.D192N)	WDR26 (p.L204F)	SIRT6 (p.R248C)	SLC2A5 (p.R270W)
Homo sapiens	Y L A S S Y Q	E K V E T M L	A S R D P K L	S Q T L L G I	K H D R H A D	S R M R F L K
Macaca mulatta	Y L A S S Y Q	E K V E T M L	A S R D P R L	S Q T L L G I	K H D R H A D	S R M R F L K
Mus musculus	Y L A S S Y Q	E K A E S M L	A G R D A K L	S Q T L L G I	K H D R Q A D	S Q M T F L K
Canis familiaris	Y L A S S Y Q	E K V E T M L	A G R D P E L	S Q T L L G I	K H D R H A D	S R M S F L K
Gallus gallus	Y L A S S Y Q	E K M E T M L	A C R D P K L	F Q I Y L - L	- - - - -	- - - - -
Xenopus tropicalis	Y I A S V Y Q	E K M E T M L	S R R D A R L	- - - - -	K H - K H A D	P R F T C L N
Danio rerio	Y L A S S Y Q	Q K A E S M L	S D R D P N L	S - - - -	K H A R G Q S	S R F T F L N