

Table S1

Table S1. Observed phosphopeptides of LHC3R3 (wildtype and mutant versions).

Peptide identification and determination of phosphorylation sites were performed using MaxQuant. PEP, posterior error probability.

Protein	Positions within Protein	Localization Probability	PEP	Score for Localization	Number of Phospho	Amino Acid	Phospho Site Probabilities
LHC3R3	26	0.84	2.83E-65	129.5	2;3	S	S(0.836)VS(0.623)GRRT(0.411)T(0.129)AA EPQTAAPVAAEDVFAYTK
LHC3R3	28	0.72	5.27E-65	54.441	2;3	S	S(0.763)VS(0.717)GRRT(0.686)T(0.686)AA EPQT(0.149)AAPVAAEDVFAYTK
LHC3R3	32	0.69	1.13E-135	54.441	1;2;3	T	S(0.763)VS(0.717)GRRT(0.686)T(0.686)AA EPQT(0.149)AAPVAAEDVFAYTK
LHC3R3	33	0.94	2.72E-264	202.2	1;2;3	T	RT(0.059)T(0.941)AAEPQTAAPVAAEDVF AYTK
LHC3R3	39	0.33	3.70E-3	40.381	1	T	T(0.333)T(0.333)AAEPQT(0.333)AAPVAAE DVFAYTK
LHC3R3 (T32E/T33E)	28	0.53	1.4E-12	112.15	1	S	S(0.466)VS(0.533)GRR EE AAEPQTAAPVA AEDVFAYTK
LHC3R3 (T32A/T33A)	26	0.80	1.9E-67	87.203	1	S	S(0.801)VS(0.195)GRR AAA EPQT(0.004) AAPVAAEDVFAYTK
LHC3R3 (T32A/T33A)	28	0.44	6.5E-13	54.703	1	S	S(0.441)VS(0.441)GRR AAA EPQT(0.119) AAPVAAEDVFAYTK