756 Supplementary Figures



Figure S1: CCT subunit LOF results in significant hypotrophy and underlying loss of stable MTs. (A) Loss of individual CCT subunits results in significant decreases in TDL from WT controls. (B) Homozygous CCT4 MARCM mutant clones show significantly decreased TDL from control. (C) Representative images of CCT4 homozygous MARCM mutant CIV clones vs. control CIV MARCM clones (40A empty FRT). (**D**) Number of Sholl intersections mapped by color at increasing radial distances from soma (µm). White dashed line references the maximum Sholl intersections in WT neurons. Significant changes in Sholl maximum intersections are indicated by an asterisk. Arrows indicate genotypes where

the radius of maximum intersections has shifted significantly from WT. (E) RNAi of CCT4 or CCT5 788 lead to a significant reduction in CCT5 fluorescence relative to WT as obtained through IHC. 789 790 Combined knockdown of both CCT4 and CCT5 significantly reduces CCT5 expression from either 791 knockdown alone. (F) TDL of neurons at 24, 48, 72, and 96 hours after egg lay (AEL) reveal 792 significant decreases from WT in both CCT5-IR and CCT3-IR starting at 72 hours AEL. (G) 793 Overexpression of individual CCT subunits (CCT2, CCT4, or CCT5) does not significantly alter TDL from their relevant control. In all panels * = p < 0.05, see **Supplementary Table S2** for detailed 794 795 statistics.



796

797 Figure S2: Evidence for RNAi efficacy and CCT and Cullin1 regulate the TORC1 pathway *in vivo*.

798 (A) Heat map showing percent change in Raptor fluorescence of CCT5-IR or Raptor-IR

799 knockdowns, as well as Raptor OE as compared to controls. (B) S6k fluorescence is significantly

reduced in *S6k-IR* conditions as compared to WT. (C) P-Akt fluorescence is significantly reduced

in Akt-IR conditions. (D) Cullin1 fluorescence is significantly reduced in Cullin1-IR conditions as

so compared to WT. (E) Heat map showing percent change in β -tubulin IIA for each genetic

- 803 manipulation. Each experimental condition was compared to WT control and appropriate
- statistical comparisons were performed. In all panels * = p < 0.05, see **Supplementary Table S2**

805 for detailed statistics.



806 Figure S3: mHTT aggregates are not affected by genetic combinations despite high co-

807 expression of CCT1 and HTT. (A) TDL is significantly reduced from control in neurons expressing

808 mHTT93 or mHTT120 CAG repeats. (B) Representative images of CIV neurons expressing mHTT

- 809 polyQ repeat transgenes reveal repeat-length dependent dendritic hypotrophy. Scale bars =
- $100 \ \mu m.$ (C) Fluorescent levels of Futsch are significantly reduced in mHTTQ96 conditions and
- are not significantly changed by additional *CCT5-IR* expression. (**D**) WT HTT fluorescence is
- significantly reduced in CCT5 LOF conditions. (E) Representative images of WT HTT distribution
- 813 in mHTT120HA suppressed (Gal4 "off") and mHTT120HA distribution in Gal4 "on" conditions.
- Aggregate IB indicated by arrow in dendrite. Scale bar = $3 \mu m$. (F) Mander's M2 coefficient is
- significantly increased for co-expression of CCT1 and mHTT120HA as compared to CCT1 and WT
- 816 HTT in dendrites. (G) Expression of mHTT25-Cerulean or mHTT96-Cerulean both result in
- significant increases in HTT fluorescence from WT. (H) Number of mHTT aggregate IBs does not
- change due to *CCT5* or *Cullin1* LOF. (I) mHTT aggregates in mHTTQ96Cerulean conditions do not
- change in average area due to *CCT5* or *Cullin1* LOF. In all panels * = p < 0.05, see
- 820 **Supplementary Table S2** for detailed statistics.

821

822 Supplementary Genetics Table S1

Shorthand	Full Genotype
WT	Oregon R (ORR) (B5)
CCT3-IR	UAS-CCT3-IR (v106093)
CCT5-IR	UAS-CCT5-IR (B41818)
Raptor-IR	UAS-Raptor-IR (B34814)
S6k-IR	UAS-S6k-IR (B57016) and (B41702)
Akt-IR	UAS-Akt-IR (B8191)
Cullin1-IR	UAS-Cullin1-IR (B36601)
S6k-OE	UAS-S6k (B6910)
Akt-OE	UAS-Akt1 (B8191)
Raptor OE	UAS-Raptor-HA (B53726)
Raptor-OE;CCT5-IR	UAS-Raptor-HA;UAS-CCT5-IR
S6k-OE;CCT5-IR	UAS-S6k;UAS-CCT5-IR
CCT3-IR;Cul1-IR	UAS-CCT3-IR;UAS-Cullin1-IR
HTTQ20	UAS-human HTTQ20 (B68412)
HTTQ50	UAS-human HTTQ50 (B68413)
HTTQ93	UAS-human HTTQ93 (B68418)
HTTQ120	UAS-human HTTQ120 (B76352)
HTTQ25/HTTQ25Cer	UAS-human HTTQ25-Cerulean (B58360)
HTTQ96/HTTQ96Cer	UAS-human HTTQ96-Cerulean (B56771)
HTTQ25;Cul1-IR	UAS-human HTTQ25-Cerulean;UAS-Cullin1-IR
HTTQ96;CCT5-IR	UAS-human HTTQ96-Cerulean;UAS-CCT5-IR
HTTQ25;CCT5-IR	UAS-human HTTQ25-Cerulean; UAS-CCT5-IR
mHTTQ120HA	UAS-HTTQ120-HA (B68431)
CCT1-IR	UAS-CCT1-IR (B32854)
CCT2-IR	UAS-CCT2-IR (B34711)
CCT4-IR	UAS-CCT4-IR (v22154)
CCT6-IR	UAS-CCT6-IR (B43146)
CCT7-IR	UAS-CCT7-IR (B34931)
CCT8-IR	UAS-CCT8-IR (v103905)
40A empty FRT	P{Car20y}25F;P{neoFRT}40A (B1816)
CCT4 ^{KG09280}	ey-FLP1 FRT ^{40A} CG5525 ^{KG09280} , (DGRC 111690)
CCT4-IR;CCT5-IR	UAS-CCT4-IR (v106099);UAS-CCT5-IR
CCT2-OE	UAS-CCT2-EGFP (B53755)
*drosCCT4	UAS-Drosophila CCT4 (k10379)
CCT5 TOE	CCT5 (guide RNA) snRNA;U6:96Aa, snRNA:U6:96Ac (B78122)
Source Abbreviations	Full Center Name
В	Bloomington Drosophila Stock Center
V	Vienna Drosophila Resource Center
DRGC	Kyoto Drosophila Stock Center

823 *Gift of Dr. Kwang-Wook Choi, KAIST, South Korea

- Fly lines were crossed to *GAL4*⁴⁷⁷;*ppk-GAL4*::*GFP*, with the following exceptions:
- 826 In *mCherry:Jupiter* experiments (Figs 3B-C, 4C-D) lines were crossed to UAS-GMA::GFP;GAL4⁴⁷⁷;UAS 827 *mCherry::Jupiter*.
- In *tsG80* experiments (Figs 4E-F, S3E-F), as described in Methods, ORR and mHTTQ120HA were crossed
 to *ppk::EGFP;tsGAL80;GAL4^{ppk}*
- 830 For MARCM analysis (Fig S1B-C), CCT4^{KG09280} and the 40A empty FRT control were crossed to MARCM
- 40A FLP (*GAL⁵⁻⁴⁰UAS-Venus:pm SOP-FLP#42;tubP-GAL80FRT40A* [2L MARCM] DRGC 109947) as described
 in the Methods.
- 833 For developmental morphological analysis (Fig S1F), UAS-CCT3-IR;ppk-GAL4 and GAL4⁴⁷⁷;UAS-CCT5-IR
- 834 were crossed to *nanos-GAL4;ppk-hCD4-tdTOMATO* and compared to *+;ppk-GAL4* and *GAL4*⁴⁷⁷;+ crossed
- to *nanos-GAL4;ppk-hCD4-tdTOMATO* as controls, respectively.
- 836 CRISPR-mediated overexpression line UAS-CCT5-TOE was crossed to dcas9;ppk-GAL4::GFP and
- compared to *ORR* crossed to *dcas9;ppk-GAL4::GFP* as control (Fig S1G)

838

839 Supplementary Statistics Table S2

Comparison	Passed	Statistical test used	Sig	p-value	Number
	Shapiro-Wilk			-	of
	Normality				neurons
	Test				(N)
Fig 1C (TDL)		One-way ANOVA &			
		Dunnett's			
WT vs. CCT3-IR	Yes		****	<0.0001	13, 11
WT vs. CCT5-IR	Yes		****	<0.0001	13, 12
WT vs. Raptor-IR	Yes		***	0.0002	13, 10
WT vs. S6k-IR	Yes		****	<0.0001	13, 13
WT vs. Akt-IR	Yes		****	<0.0001	13, 10
WT vs. Cul1-IR	Yes		***	0.0003	13, 13
WT vs. S6k-OE	Yes		****	<0.0001	13, 10
WT vs. Akt-OE	Yes		****	<0.0001	13, 11
Fig ID (Sholl Maximum)		One-way ANOVA & Dunnett's			
WT vs. CCT3-IR	Yes		*	0.0219	9.11
WT vs. CCT5-IR	Yes		ns	>0.9999	9, 14
WT vs. S6k-IR	Yes		ns	0.2517	9, 14
WT vs. Akt-IR	Yes		****	< 0.0001	9, 10
WT vs. Akt-OE	Yes		**	0.0012	9, 11
WT vs. S6k-OE	Yes		****	< 0.0001	9,10
WT vs. Cul1-IR	Yes		**	0.0027	9,12
Fig 1D (Sholl Radius)		One-way ANOVA & Dunnett's			
WT vs. CCT3-IR	Yes		ns	0.0522	9, 11
WT vs. CCT5-IR	Yes		****	< 0.0001	9, 14
WT vs. S6k-IR	Yes		ns	0.9261	9, 14
WT vs. Akt-IR	Yes		ns	0.7088	9, 10
WT vs. Akt-OE	Yes		*	0.0126	9, 11
WT vs. S6k-OE	Yes		****	<0.0001	9,10
WT vs. Cul1-IR	Yes		ns	0.9965	9,12
Fig 2A (P-S6k IHC)					
WT vs. S6k-IR	No	Mann-Whitney test	****	<0.0001	14, 12
WT vs. CCT5-IR	Yes	One-way ANOVA & Tukey's	***	0.0008	9, 9
WT vs. Raptor-IR	Yes	One-way ANOVA & Dunnett's	**	0.0099	14, 9
WT vs. Raptor-OE	Yes	One-way ANOVA & Dunnett's	ns	0.9612	14, 16
WT vs. Cullin1-IR	Yes	Unpaired t-test	*	0.0454	14, 13

Fig 2B (Baptor IHC)		Kruskal-Wallis &			
		Dunn's			
Raptor-OE vs. CCT5-IR	Yes		****	<0.0001	17, 13
Raptor-OE vs. Raptor-OE:CCT5-	Yes		***	0.0002	17.10
IR					
CCT5-IR vs. Raptor-OE;CCT5-IR	No		ns	>0.9999	15, 10
WT vs. CCT5-IR	Yes		*	0.0355	15, 13
WT vs. Raptor-OE;CCT5-IR	Yes		ns	0.2341	15, 10
Fig 2C (P-S6k IHC)		Kruskal-Wallis &			
		Dunn's			
WT vs. CCT5-IR	No		****	<0.0001	13, 10
WT vs. S6k-OE;CCT5-IR	Yes		****	<0.0001	13, 11
CCT5-IR vs. S6k-OE;CCT5-IR	No				10, 11
			ns	0.9773	
Fig 2E (TDL)		One-way ANOVA & Šídák's			
CCT3-IR vs. CCT3-IR;Cul1-IR	Yes		ns	0.9534	10, 10
Cullin1-IR vs. S6k-OE;Cul1-IR	Yes		ns	0.7985	13, 7
S6k-OE;Cul1-IR vs. S6k-OE	Yes		ns	0.3506	7, 10
S6k-OE;CCT5-IR vs. CCT5-IR	Yes		ns	0.0608	10, 12
Fig 3A (IHC acet tub)					
WT vs. CCT3-IR	Yes	One-way ANOVA & Dunnett's	****	<0.0001	14, 11
WT vs. CCT5-IR	Yes	One-way ANOVA & Dunnett's	**	<0.0001	14, 13
WT vs. Raptor-IR	No	One-way ANOVA &			14, 9
		Dunnett's	***	0.0006	
WT vs. S6k-IR	No	Mann-Whitney	***	0.0008	14, 12
WT vs. Akt-IR	Yes	One-way ANOVA & Dunnett's	*	0.0148	16, 14
WT vs. Cullin1-IR	Yes	Unpaired t-test	ns	0.2324	14, 13
WT vs. S6k-OE	Yes	One-way ANOVA &			10, 9
		Dunnett's	ns	0.9584	
WT vs. Akt-OE	Yes	One-way ANOVA & Dunnett's	ns	0.6653	16, 12
Fig 3A (IHC Futsch)					
WT vs. CCT3-IR	Yes	Unpaired t-test	***	0.0002	13, 12
WT vs. CCT5-IR	Yes	Unpaired t-test	*	0.0398	9, 5
WT vs. Raptor-IR	Yes	Unpaired t-test	**	0.0089	14, 11
WT vs. S6k-IR	Yes	Unpaired t-test	*	0.0427	13, 13

WT vs. Akt-IR	Yes	One-way ANOVA & Dunnett's	***	0.0002	14, 13
WT vs. Cullin1-IR	Yes	Unpaired t-test	ns	0.0767	10, 13
WT vs. S6k-OE	Yes	One-way ANOVA &			16, 15
		Dunnett's	***	0.0004	
WT vs. Akt-OE	Yes	Unpaired t-test	**	0.0013	10, 13
Fig 3C (mCherry::Jupiter)		Two-Way ANOVA &			
20 µm: WT vs. CCT3-IR			****	<0.0001	12.10
20 µm: WT vs. CCT5-IR			****	< 0.0001	12.10
20 µm: WT vs. Raptor-IR			****	< 0.0001	12.10
20 µm: WT vs. S6k-IR			**	0.0035	12.11
20 µm: WT vs. Akt-IR			**	0.0040	, 12, 10
20 μm: WT vs. Cullin1-IR			****	< 0.0001	12, 11
20 μm: WT vs. S6k-OE			ns	0.8037	12, 10
20 µm: WT vs. Akt-OE			ns	>0.9999	12, 10
40 μm: WT vs. CCT3-IR			****	< 0.0001	12, 10
40 µm: WT vs. CCT5-IR			****	< 0.0001	12.10
40 µm: WT vs. Raptor-IR			****	< 0.0001	12.10
40 µm: WT vs. S6k-IR			**	0.0035	12.11
40 um: WT vs. Akt-IR			**	0.0040	12.10
40 µm: WT vs. Cullin1-IR			****	< 0.0001	12.11
40 µm: WT vs. S6k-OE			ns	0.8037	12.10
40 µm: WT vs. Akt-OE			ns	>0.9999	12.10
60 μm: WT vs. CCT3-IR			****	< 0.0001	12, 10
60 μm: WT vs. CCT5-IR			****	< 0.0001	12, 10
60 μm: WT vs. Raptor-IR			****	< 0.0001	12, 10
60 μm: WT vs. S6k-IR			**	0.0035	, 12, 11
60 μm: WT vs. Akt-IR			**	0.0040	12, 10
60 μm: WT vs. Cullin1-IR			****	< 0.0001	12, 11
60 μm: WT vs. S6k-OE			ns	0.8037	12, 10
60 μm: WT vs. Akt-OE			ns	>0.9999	12, 10
80 μm: WT vs. CCT3-IR			****	< 0.0001	12, 10
80 μm: WT vs. CCT5-IR			****	< 0.0001	12, 10
80 μm: WT vs. Raptor-IR			****	< 0.0001	12, 10
80 μm: WT vs. S6k-IR			**	0.0035	12, 11
80 μm: WT vs. Akt-IR			**	0.0040	12, 10
80 μm: WT vs. Cullin1-IR			****	< 0.0001	12, 11
80 μm: WT vs. S6k-OE			ns	0.8037	12, 10
80 μm: WT vs. Akt-OE			ns	>0.9999	12, 10
100 μm: WT vs. CCT3-IR			****	< 0.0001	12, 10
100 μm: WT vs.CCT5-IR			****	< 0.0001	12, 10
100 μm: WT vs. Raptor-IR			****	< 0.0001	12, 10
100 μm: WT vs. S6k-IR			**	0.0035	12, 11

100 µm: WT vs. Akt-IR *** 0.0040 12, 10 100 µm: WT vs. Cullin1-IR **** <0.0001 12, 11 100 µm: WT vs. S6k-OE ns >0.0337 12, 10 120 µm: WT vs. Ct73-IR **** <0.0001 12, 10 120 µm: WT vs. Ct73-IR **** <0.0001 12, 10 120 µm: WT vs. Ct73-IR **** <0.001 12, 10 120 µm: WT vs. Ct73-IR **** <0.0035 12, 11 120 µm: WT vs. S6k-IR **** <0.0040 12, 10 120 µm: WT vs. S6k-IR **** <0.0001 12, 11 120 µm: WT vs. S6k-OE ns >0.8037 12, 10 120 µm: WT vs. S6k-OE ns >0.001 12, 10 140 µm: WT vs. Ct73-IR **** <0.0001 12, 10 140 µm: WT vs. S6k-IR **** <0.001 12, 10 140 µm: WT vs. S6k-IR **** <0.001 12, 10 140 µm: WT vs. Cullin1-IR **** <0.001 12, 10 140 µm: WT vs. S6k-IR **** <0.0001 12		 r		
100 µm: WT vs. S6k-OE ns 0.8037 12, 11 100 µm: WT vs. S6k-OE ns 0.8037 12, 10 120 µm: WT vs. S6k-OE ns >0.9999 12, 10 120 µm: WT vs. CCT3-IR **** <0.0001	100 μm: WT vs. Akt-IR	**	0.0040	12, 10
100 µm: WT vs. S6k-OE ns 0.8037 12, 10 100 µm: WT vs. Akt-OE ns >0.9999 12, 10 120 µm: WT vs. CCT3-IR **** <0.0001	100 μm: WT vs. Cullin1-IR	****	<0.0001	12, 11
100 µm: WT vs. Akt-OE ns >0.9999 12, 10 120 µm: WT vs. CCT3-IR **** <0.0001	100 μm: WT vs. S6k-OE	ns	0.8037	12, 10
120 μm: WT vs. CCT3-IR **** <0.0001	100 μm: WT vs. Akt-OE	ns	>0.9999	12, 10
120 μm: WT vs. CCT5-IR **** <0.0001	120 μm: WT vs. CCT3-IR	****	< 0.0001	12, 10
120 μm: WT vs. Raptor-IR **** <0.0001	120 μm: WT vs. CCT5-IR	****	< 0.0001	12, 10
120 μm: WT vs. S6k-IR ** 0.0035 12, 11 120 μm: WT vs. Att-IR ** 0.0001 12, 10 120 μm: WT vs. S6k-OE ns 0.8037 12, 10 120 μm: WT vs. S6k-OE ns >0.9999 12, 10 140 μm: WT vs. Cullin1-IR **** <0.0001	120 μm: WT vs. Raptor-IR	****	< 0.0001	12, 10
120 µm: WT vs. Akt-IR ** 0.0040 12, 10 120 µm: WT vs. S6k-OE ns 0.8037 12, 10 120 µm: WT vs. S6k-OE ns 0.8037 12, 10 120 µm: WT vs. Akt-OE ns >0.9999 12, 10 140 µm: WT vs. CCT3-IR **** <0.0001	120 μm: WT vs. S6k-IR	**	0.0035	12, 11
120 µm: WT vs. Cullin1-IR **** <0.0001	120 μm: WT vs. Akt-IR	**	0.0040	12, 10
120 μm: WT vs. S6k-OE ns 0.8037 12, 10 120 μm: WT vs. Akt-OE ns >0.8037 12, 10 140 μm: WT vs. CCT3-IR ***** <0.0001	120 μm: WT vs. Cullin1-IR	****	< 0.0001	12, 11
120 µm: WT vs. Akt-OE ns >0.9999 12, 10 140 µm: WT vs. CCT3-IR **** <0.0001	120 µm: WT vs. S6k-OE	ns	0.8037	12, 10
140 µm: WT vs. CCT3-IR **** <0.0001	120 μm: WT vs. Akt-OE	ns	>0.9999	12, 10
140 µm: WT vs. Raptor-IR ***** <0.0001	140 μm: WT vs. CCT3-IR	****	< 0.0001	12, 10
140 μm: WT vs. Raptor-IR **** <0.0001	140 µm: WT vs. CCT5-IR	****	< 0.0001	12, 10
140 μm: WT vs. S6k-IR ** 0.0035 12, 11 140 μm: WT vs. Cullin1-IR ** 0.0040 12, 10 140 μm: WT vs. Cullin1-IR **** <0.0001	140 µm: WT vs. Raptor-IR	****	< 0.0001	12, 10
140 µm: WT vs. Akt-IR ** 0.0040 12, 10 140 µm: WT vs. Cullin1-IR **** <0.0001	140 μm: WT vs. S6k-IR	**	0.0035	12, 11
140 µm: WT vs. Cullin1-IR **** <0.0001	140 μm: WT vs. Akt-IR	**	0.0040	12, 10
140 µm: WT vs. S6k-OE ns 0.8037 12, 10 140 µm: WT vs. Akt-OE ns >0.9999 12, 10 160 µm: WT vs. CCT3-IR ***** <0.0001	140 μm: WT vs. Cullin1-IR	****	< 0.0001	12, 11
140 µm: WT vs. Akt-OE ns >0.9999 12, 10 160 µm: WT vs. CCT3-IR ***** <0.0001	140 μm: WT vs. S6k-OE	ns	0.8037	12, 10
160 µm: WT vs. CCT3-IR **** <0.0001	140 μm: WT vs. Akt-OE	ns	>0.9999	12, 10
160 µm: WT vs. CCT5-IR **** <0.0001	160 μm: WT vs. CCT3-IR	****	< 0.0001	12, 10
160 µm: WT vs. Raptor-IR ***** <0.0001	160 μm: WT vs. CCT5-IR	****	< 0.0001	12, 10
160 µm: WT vs. S6k-IR ** 0.0035 12, 11 160 µm: WT vs. Akt-IR ** 0.0040 12, 10 160 µm: WT vs. Cullin1-IR **** 0.0001 12, 11 160 µm: WT vs. S6k-OE ns 0.8037 12, 10 160 µm: WT vs. S6k-OE ns 0.8037 12, 10 160 µm: WT vs. S6k-OE ns 0.8037 12, 10 180 µm: WT vs. CCT3-IR ***** <0.0001	160 μm: WT vs. Raptor-IR	****	< 0.0001	12, 10
160 µm: WT vs. Akt-IR ** 0.0040 12, 10 160 µm: WT vs. Cullin1-IR **** <0.0001	160 μm: WT vs. S6k-IR	**	0.0035	12, 11
160 µm: WT vs. Cullin1-IR **** <0.0001	160 μm: WT vs. Akt-IR	**	0.0040	12, 10
160 µm: WT vs. S6k-OE ns 0.8037 12, 10 160 µm: WT vs. Akt-OE ns >0.9999 12, 10 180 µm: WT vs. CCT3-IR **** <0.0001	160 μm: WT vs. Cullin1-IR	****	<0.0001	12, 11
160 µm: WT vs. Akt-OE ns >0.9999 12, 10 180 µm: WT vs. CCT3-IR ***** <0.0001	160 μm: WT vs. S6k-OE	ns	0.8037	12, 10
180 µm: WT vs. CCT3-IR **** <0.0001	160 μm: WT vs. Akt-OE	ns	>0.9999	12, 10
180 µm: WT vs. CCT5-IR **** <0.0001	180 μm: WT vs. CCT3-IR	****	< 0.0001	12, 10
180 µm: WT vs. Raptor-IR****<0.000112, 10180 µm: WT vs. S6k-IR**0.003512, 11180 µm: WT vs. Akt-IR**0.004012, 10180 µm: WT vs. Cullin1-IR****<0.0001	180 μm: WT vs. CCT5-IR	****	< 0.0001	12, 10
180 µm: WT vs. S6k-IR**0.003512, 11180 µm: WT vs. Akt-IR**0.004012, 10180 µm: WT vs. Cullin1-IR****<0.0001	180 μm: WT vs. Raptor-IR	****	< 0.0001	12, 10
180 μm: WT vs. Akt-IR**0.004012, 10180 μm: WT vs. Cullin1-IR****<0.0001	180 μm: WT vs. S6k-IR	**	0.0035	12, 11
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	180 μm: WT vs. Akt-IR	**	0.0040	12, 10
180 μm: WT vs. S6k-OEns0.803712, 10180 μm: WT vs. Akt-OEns>0.999912, 10200 μm: WT vs. CCT3-IR****<0.0001	180 μm: WT vs. Cullin1-IR	****	< 0.0001	12, 11
180 µm: WT vs. Akt-OEns>0.999912, 10200 µm: WT vs. CCT3-IR****<0.0001	180 μm: WT vs. S6k-OE	ns	0.8037	12, 10
200 μm: WT vs. CCT3-IR****<0.000112, 10200 μm: WT vs. CCT5-IR****<0.0001	180 μm: WT vs. Akt-OE	ns	>0.9999	12, 10
200 µm: WT vs. CCT5-IR****<0.000112, 10200 µm: WT vs. Raptor-IR****<0.0001	200 μm: WT vs. CCT3-IR	****	< 0.0001	12, 10
200 µm: WT vs. Raptor-IR **** <0.0001	200 μm: WT vs. CCT5-IR	****	< 0.0001	12, 10
200 μm: WT vs. S6k-IR**0.003512, 11200 μm: WT vs. Akt-IR**0.004012, 10200 μm: WT vs. Cullin1-IR****<0.0001	200 μm: WT vs. Raptor-IR	****	< 0.0001	12, 10
200 μm: WT vs. Akt-IR ** 0.0040 12, 10 200 μm: WT vs. Cullin1-IR **** <0.0001	200 µm: WT vs. S6k-IR	**	0.0035	12, 11
200 μm: WT vs. Cullin1-IR **** <0.0001	200 μm: WT vs. Akt-IR	**	0.0040	12, 10
200 μm: WT vs. S6k-OE ns 0.8037 12, 10 200 μm: WT vs. Akt-OE ns >0.9999 12, 10 220 μm: WT vs. CCT3-IR **** <0.0001	200 µm: WT vs. Cullin1-IR	****	< 0.0001	12, 11
200 μm: WT vs. Akt-OE ns >0.9999 12, 10 220 μm: WT vs. CCT3-IR **** <0.0001	200 µm: WT vs. S6k-OE	ns	0.8037	12, 10
220 μm: WT vs. CCT3-IR **** <0.0001 12, 10 220 μm: WT vs. CCT5-IR **** <0.0001	200 µm: WT vs. Akt-OE	ns	>0.9999	12, 10
220 μm: WT vs. CCT5-IR **** <0.0001 12, 10	220 μm: WT vs. CCT3-IR	****	< 0.0001	12, 10
	220 μm: WT vs. CCT5-IR	****	< 0.0001	12, 10

		r	
220 μm: WT vs. Raptor-IR	****	< 0.0001	12, 10
220 μm: WT vs. S6k-IR	**	0.0035	12, 11
220 μm: WT vs. Akt-IR	**	0.0040	12, 10
220 μm: WT vs. Cullin1-IR	****	<0.0001	12, 11
220 μm: WT vs. S6k-OE	ns	0.8037	12, 10
220 μm: WT vs. Akt-OE	ns	>0.9999	12, 10
240 μm: WT vs. CCT3-IR	****	<0.0001	12, 10
240 μm: WT vs. CCT5-IR	****	< 0.0001	12, 10
240 μm: WT vs. Raptor-IR	****	<0.0001	12, 10
240 μm: WT vs. S6k-IR	**	0.0035	12, 11
240 μm: WT vs. Akt-IR	**	0.0040	12, 10
240 μm: WT vs. Cullin1-IR	****	<0.0001	12, 11
240 μm: WT vs. S6k-OE	ns	0.8037	12, 10
240 μm: WT vs. Akt-OE	ns	>0.9999	12, 10
260 μm: WT vs. CCT3-IR	****	< 0.0001	12, 10
260 μm: WT vs. CCT5-IR	****	< 0.0001	12, 10
260 μm: WT vs. Raptor-IR	****	< 0.0001	12, 10
260 µm: WT vs. S6k-IR	**	0.0035	12, 11
260 μm: WT vs. Akt-IR	**	0.0040	12, 10
260 μm: WT vs. Cullin1-IR	****	< 0.0001	12, 11
260 µm: WT vs. S6k-OE	ns	0.8037	12, 10
260 μm: WT vs. Akt-OE	ns	>0.9999	12, 10
280 µm: WT vs. CCT3-IR	****	< 0.0001	12, 10
280 µm: WT vs. CCT5-IR	****	< 0.0001	12, 10
280 µm: WT vs. Raptor-IR	****	< 0.0001	12, 10
280 µm: WT vs. S6k-IR	**	0.0035	12, 11
280 µm: WT vs. Akt-IR	**	0.0040	12, 10
280 μm: WT vs. Cullin1-IR	****	< 0.0001	12, 11
280 µm: WT vs. S6k-OE	ns	0.8037	12, 10
280 µm: WT vs. Akt-OE	ns	>0.9999	12, 10
300 µm: WT vs. CCT3-IR	****	< 0.0001	12, 10
300 µm: WT vs. CCT5-IR	****	< 0.0001	12, 10
300 µm: WT vs. Raptor-IR	****	< 0.0001	12.10
300 µm: WT vs. S6k-IR	**	0.0035	12.11
300 µm: WT vs. Akt-IR	**	0.0040	12.10
300 um: WT vs. Cullin1-IR	****	< 0.0001	12.11
300 µm: WT vs. S6k-OE	ns	0.8037	12.10
300 µm: WT vs. Akt-OE	ns	>0.9999	12.10
320 µm: WT vs. CCT3-IR	****	< 0.0001	12.10
320 µm: WT vs. CCT5-IR	****	<0.0001	12.10
320 um: WT vs. Raptor-IR	****	<0.0001	12.10
320 um: WT vs. S6k-IR	**	0.0035	12.11
320 um: WT vs. Akt-IR	**	0.0040	12.10
320 um: WT vs. Cullin1-IR	****	<0.0001	12, 11
320 µm: WT vs. S6k-OF	ns	0.8037	12,10
320 µm: WT vs. Akt-OF	nc	>0 9999	12 10
520 µm. WT V3. ANL OL	115	20.0000	12, 10

340 µm: WT vs. CCT3-IR ***** <0.0001 12, 10 340 µm: WT vs. CCT3-IR ***** <0.0001 12, 10 340 µm: WT vs. Sch-IR **** <0.0001 12, 10 340 µm: WT vs. Sch-IR **** <0.001 12, 10 340 µm: WT vs. Sch-IR **** <0.0040 12, 10 340 µm: WT vs. Sch-IR **** <0.001 12, 11 340 µm: WT vs. Sch-OE ns >0.8037 12, 10 340 µm: WT vs. Cullin1-IR **** <0.0001 12, 10 360 µm: WT vs. CrT3-IR **** <0.0001 12, 10 360 µm: WT vs. Sch-IR **** <0.0001 12, 10 360 µm: WT vs. Sch-IR **** <0.0001 12, 10 360 µm: WT vs. Sch-IR **** <0.0001 12, 10 360 µm: WT vs. Sch-IR **** <0.0001 12, 10 360 µm: WT vs. Sch-OE ns >0.8037 12, 10 380 µm: WT vs. Sch-OE ns >0.8037 12, 10 380 µm: WT vs. CrT3-IR **** <0.0001 12, 10 380 µm: WT vs. CrT3-IR **** <0.0001		1		1	
340 µm: WT vs. CGT5-IR **** <0.0001	340 μm: WT vs. CCT3-IR		****	<0.0001	12, 10
340 µm: WT vs. Sabtor-IR **** <0.0035	340 μm: WT vs. CCT5-IR		****	<0.0001	12, 10
340 µm: WT vs. Sch-IR *** 0.0035 12, 11 340 µm: WT vs. Cullin1-IR *** 0.0040 12, 10 340 µm: WT vs. Cullin1-IR **** 0.0001 12, 11 340 µm: WT vs. Cullin1-IR ns 0.8037 12, 10 340 µm: WT vs. Cullin1-IR ns 0.0001 12, 10 360 µm: WT vs. CCT5-IR **** <0.0001	340 μm: WT vs. Raptor-IR		****	<0.0001	12, 10
340 µm: WT vs. Akt-IR ** 0.0040 12, 10 340 µm: WT vs. S6k-OE ns 0.8037 12, 10 340 µm: WT vs. S6k-OE ns >0.9999 12, 10 360 µm: WT vs. CT3-IR ***** <0.0001	340 μm: WT vs. S6k-IR		**	0.0035	12, 11
340 µm: WT vs. S6k-0E ns 0.8037 12, 10 340 µm: WT vs. S6k-0E ns 0.8037 12, 10 360 µm: WT vs. Akt-0E ns >0.9999 12, 10 360 µm: WT vs. CCT3-IR **** <0.0001	340 μm: WT vs. Akt-IR		**	0.0040	12, 10
340 µm: WT vs. Sch-OE ns 0.8037 12, 10 340 µm: WT vs. Akt-OE ns >0.9091 12, 10 360 µm: WT vs. CCT3-IR ***** <0.0001	340 μm: WT vs. Cullin1-IR		****	<0.0001	12, 11
340 µm: WT vs. Akt-OE ns >0.9999 12, 10 360 µm: WT vs. CCT3-IR **** <0.0001	340 μm: WT vs. S6k-OE		ns	0.8037	12, 10
360 µm: WT vs. CCT3-IR **** <0.0001	340 μm: WT vs. Akt-OE		ns	>0.9999	12, 10
360 µm: WT vs. CCTS-IR **** <0.0001	360 μm: WT vs. CCT3-IR		****	<0.0001	12, 10
360 μm: WT vs. Raptor-IR **** <0.0001	360 μm: WT vs. CCT5-IR		****	<0.0001	12, 10
360 µm: WT vs. S6k-IR ** 0.0035 12, 11 360 µm: WT vs. S4k-IR ** 0.0040 12, 10 360 µm: WT vs. Cullin1-IR ***** <0.0001	360 μm: WT vs. Raptor-IR		****	<0.0001	12, 10
360 µm: WT vs. Akt-IR ** 0.0040 12, 10 360 µm: WT vs. Cullin1-IR **** 0.0010 12, 11 360 µm: WT vs. Sek-OE ns 0.8037 12, 10 360 µm: WT vs. Akt-OE ns >0.9999 12, 10 380 µm: WT vs. CCT3-IR **** <0.0001	360 μm: WT vs. S6k-IR		**	0.0035	12, 11
360 µm: WT vs. Cullin1-IR **** <0.0001 12, 11 360 µm: WT vs. SGk-OE ns 0.8037 12, 10 360 µm: WT vs. CCT3-IR **** <0.0001	360 μm: WT vs. Akt-IR		**	0.0040	12, 10
360 µm: WT vs. S6k-OE ns 0.8037 12, 10 360 µm: WT vs. Akt-OE ns >0.9999 12, 10 380 µm: WT vs. CCT3-IR **** <0.0001	360 μm: WT vs. Cullin1-IR		****	< 0.0001	12, 11
360 µm: WT vs. Akt-OE ns >0.9999 12, 10 380 µm: WT vs. CCT3-IR ***** <0.0001	360 μm: WT vs. S6k-OE		ns	0.8037	12, 10
380 µm: WT vs. CCT3-IR ***** <0.0001	360 μm: WT vs. Akt-OE		ns	>0.9999	12, 10
380 µm: WT vs. CCT5-IR **** <0.0001	380 μm: WT vs. CCT3-IR		****	< 0.0001	12, 10
380 µm: WT vs. Raptor-IR **** <0.0001	380 µm: WT vs. CCT5-IR		****	< 0.0001	12, 10
380 µm: WT vs. S6k-IR ** 0.0035 12, 11 380 µm: WT vs. Akt-IR ** 0.0040 12, 10 380 µm: WT vs. Cullin1-IR **** 0.0001 12, 11 380 µm: WT vs. S6k-OE ns 0.8037 12, 10 380 µm: WT vs. Akt-OE ns 0.8037 12, 10 400 µm: WT vs. Akt-OE ns >0.9999 12, 10 400 µm: WT vs. CCT3-IR **** <0.0001	380 µm: WT vs. Raptor-IR		****	< 0.0001	12, 10
380 µm: WT vs. Akt-IR *** 0.0040 12, 10 380 µm: WT vs. Cullin1-IR **** <0.0001	380 μm: WT vs. S6k-IR		**	0.0035	12, 11
380 µm: WT vs. Cullin1-IR **** <0.0001	380 µm: WT vs. Akt-IR		**	0.0040	12, 10
380 µm: WT vs. S6k-OE ns 0.8037 12, 10 380 µm: WT vs. Akt-OE ns >0.9999 12, 10 400 µm: WT vs. CCT3-IR ***** <0.0001	380 µm: WT vs. Cullin1-IR		****	< 0.0001	12, 11
380 µm: WT vs. Akt-OE ns >0.9999 12, 10 400 µm: WT vs. CCT3-IR ***** <0.0001	380 µm: WT vs. S6k-OE		ns	0.8037	12, 10
400 µm: WT vs. CCT3-IR **** <0.0001	380 µm: WT vs. Akt-OE		ns	>0.9999	12, 10
400 µm: WT vs. CCT5-IR **** <0.0001	400 μm: WT vs. CCT3-IR		****	<0.0001	12, 10
400 µm: WT vs. Raptor-IR **** <0.0001	400 μm: WT vs. CCT5-IR		****	< 0.0001	12, 10
400 µm: WT vs. S6k-IR ** 0.0035 12, 11 400 µm: WT vs. Akt-IR ** 0.0040 12, 10 400 µm: WT vs. Cullin1-IR **** <0.0001	400 μm: WT vs. Raptor-IR		****	< 0.0001	12, 10
400 µm: WT vs. Akt-IR**0.004012, 10400 µm: WT vs. Cullin1-IR****<0.0001	400 μm: WT vs. S6k-IR		**	0.0035	12, 11
400 µm: WT vs. Cullin1-IR **** <0.0001	400 μm: WT vs. Akt-IR		**	0.0040	12, 10
400 µm: WT vs. S6k-OE ns 0.8037 12, 10 400 µm: WT vs. Akt-OE ns >0.9999 12, 10 420 µm: WT vs. CCT3-IR ***** <0.0001	400 μm: WT vs. Cullin1-IR		****	< 0.0001	12, 11
$400 \ \mum: WT \ vs. \ Akt-OE$ ns>0.999912, 10 $420 \ \mum: WT \ vs. \ CCT3-IR$ ****<0.0001	400 μm: WT vs. S6k-OE		ns	0.8037	12, 10
$420 \ \mum: WT \ vs. \ CCT3-IR$ ****<0.000112, 10 $420 \ \mum: WT \ vs. \ CCT5-IR$ ****<0.0001	400 μm: WT vs. Akt-OE		ns	>0.9999	12, 10
$420 \ \mu\text{m}: \text{WT vs. CCT5-IR}$ ****<0.000112, 10 $420 \ \mu\text{m}: \text{WT vs. Raptor-IR}$ ****<0.0001	420 μm: WT vs. CCT3-IR		****	< 0.0001	12, 10
$420 \ \mum: WT vs. Raptor-IR$ ***<0.000112, 10 $420 \ \mum: WT vs. S6k-IR$ **0.003512, 11 $420 \ \mum: WT vs. Akt-IR$ **0.004012, 10 $420 \ \mum: WT vs. Akt-IR$ ***<0.0001	420 μm: WT vs. CCT5-IR		****	< 0.0001	12, 10
420 μm: WT vs. S6k-IR**0.003512, 11420 μm: WT vs. Akt-IR**0.004012, 10420 μm: WT vs. Cullin1-IR****<0.0001	420 μm: WT vs. Raptor-IR		****	< 0.0001	12, 10
420 μm: WT vs. Akt-IR**0.004012, 10420 μm: WT vs. Cullin1-IR****<0.0001	420 μm: WT vs. S6k-IR		**	0.0035	12, 11
420 μm: WT vs. Cullin1-IR **** <0.0001	420 μm: WT vs. Akt-IR		**	0.0040	12, 10
420 μm: WT vs. S6k-OE ns 0.8037 12, 10 420 μm: WT vs. Akt-OE ns >0.9999 12, 10 440 μm: WT vs. CCT3-IR **** <0.0001	420 μm: WT vs. Cullin1-IR		****	< 0.0001	12, 11
420 μm: WT vs. Akt-OE ns >0.9999 12, 10 440 μm: WT vs. CCT3-IR **** <0.0001	420 μm: WT vs. S6k-OE		ns	0.8037	12, 10
440 μm: WT vs. CCT3-IR **** <0.0001	420 μm: WT vs. Akt-OE		ns	>0.9999	12, 10
440 µm: WT vs. CCT5-IR **** <0.0001	440 μm: WT vs. CCT3-IR		****	<0.0001	12, 10
440 μm: WT vs. Raptor-IR **** <0.0001	440 μm: WT vs. CCT5-IR		****	<0.0001	12, 10
440 μm: WT vs. S6k-IR ** 0.0035 12, 11 440 μm: WT vs. Akt-IR ** 0.0040 12, 10 440 μm: WT vs. Cullin1-IR *** <0.0001	440 μm: WT vs. Raptor-IR		****	<0.0001	12, 10
440 μm: WT vs. Akt-IR ** 0.0040 12, 10 440 μm: WT vs. Cullin1-IR **** <0.0001	440 μm: WT vs. S6k-IR		**	0.0035	12, 11
440 μm: WT vs. Cullin1-IR **** <0.0001 12, 11	440 μm: WT vs. Akt-IR		**	0.0040	12, 10
	440 μm: WT vs. Cullin1-IR		****	< 0.0001	12, 11

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440 μm: WT vs. S6k-OE			ns	0.8037	12, 10
440 μm: WT vs. Akt-OE			ns	>0.9999	12, 10
460 μm: WT vs. CCT3-IR			****	<0.0001	12, 10
460 μm: WT vs. Raptor-IR			****	<0.0001	12, 10
460 μm: WT vs. Akt-IR			**	0.0040	12, 10
460 μm: WT vs. Cullin1-IR			****	<0.0001	12, 11
460 μm: WT vs. S6k-OE			ns	0.8037	12, 11
460 μm: WT vs. Akt-OE			ns	>0.9999	12, 10
480 μm: WT vs. Akt-IR			**	0.0040	12, 10
480 μm: WT vs. Cullin1-IR			****	<0.0001	12, 11
480 μm: WT vs. S6k-OE			ns	0.8037	12, 11
480 μm: WT vs. Akt-OE			ns	>0.9999	12, 10
500 μm: WT vs. Akt-IR			**	0.0040	12, 10
500 μm: WT vs. Cullin1-IR			****	< 0.0001	12, 11
500 μm: WT vs. S6k-OE			ns	0.8037	12, 11
500 μm: WT vs. Akt-OE			ns	>0.9999	12, 10
Fig 4D (HTT mCherry::Jupiter)		Two-Way ANOVA &			
		Tukey's			
40 μm: HTT20 vs. HTT50		· · ·	ns	0.9996	10,9
40 μm: HTT20 vs. HTT93			****	< 0.0001	10,11
80 μm: HTT20 vs. HTT50			ns	0.9996	10,9
80 μm: HTT20 vs. HTT93			****	< 0.0001	10,11
120 μm: HTT20 vs. HTT50			ns	0.9996	10,9
120 μm: HTT20 vs. HTT93			****	< 0.0001	10,11
160 μm: HTT20 vs. HTT50			ns	0.9996	10,9
160 μm: HTT20 vs. HTT93			****	< 0.0001	10,11
200 μm: HTT20 vs. HTT50			ns	0.9996	10,9
200 μm: HTT20 vs. HTT93			****	< 0.0001	10,11
240 μm: HTT20 vs. HTT50			ns	0.9996	10,9
240 μm: HTT20 vs. HTT93			****	< 0.0001	10,11
280 μm: HTT20 vs. HTT50			ns	0.9996	10,9
280 μm: HTT20 vs. HTT93			****	< 0.0001	10,11
320 μm: HTT20 vs. HTT50			ns	0.9996	10,9
320 μm: HTT20 vs. HTT93			****	< 0.0001	10,11
360 μm: HTT20 vs. HTT50			ns	0.9996	10,9
360 μm: HTT20 vs. HTT93			****	< 0.0001	10,11
400 μm: HTT20 vs. HTT50			ns	0.9996	10,9
400 μm: HTT20 vs. HTT93			****	< 0.0001	10,11
440 μm: HTT20 vs. HTT50			ns	0.9996	10,9
440 μm: HTT20 vs. HTT93			****	<0.0001	10,11
Fig 4E (Pearson's)		One-way ANOVA &			
		SIGAK'S		0.0007	11.0
WI (HA) GAL4 "off" vs. HTT120	Yes		ns	0.9965	11, 9
(HA) GAL4 "Off"					

	Maria			0.4664	44.40
WI control (HA) GAL4 "off" vs.	Yes		ns	0.4664	11, 10
HII120 WI HII GAL4 "off"					
HTT120 (HA) GAL4 "off" vs.	Yes		**	0.0045	9, 11
HTT120 (HA) GAL4 "on"					
HTT120 WT HTT GAL4 "off" vs.	Yes		ns	0.5580	10, 11
HTT120 (HA) GAL4 "on"					
Fig 4F (Manders Soma)					
WT HTT v HTT120HA 48 hr	No	Mann-Whitney	***	0.0007	10, 11
Fig 4G (HTT TDL)		One-way ANOVA & Šídák's			
WT vs. HTTQ25	Yes		**	0.0042	11, 11
WT vs. HTT96	Yes		*	0.0211	11.16
WT vs. HTTQ96:CCT5-iR	Yes		****	< 0.0001	11.16
WT vs. HTTO96:Cul1-IR	Yes		ns	0.8400	11.9
WT vs. HTT25:CCT5-IR	Yes		****	<0.0001	11.9
WT vs HTTO25:Cul1-IR	Yes		*	0.0383	11 9
HTTO25 vs HTTO25 CCT5-IR	Ves		****	<0.0000	11 9
HTTO25 vs. HTTO25:Cul1_IP	Vos		nc		11, 5
	Vos		***	20.3333	16 16
	Vec		***	0.0004	16, 10
	Yes			0.0002	16,9
	res		n c	0.0002	16, 9
	No		ns	0.9993	0.0
HTTQ96;Cult-IR VS.	Yes			0.0000	9,9
HTTQ25;CUI1-IR			ns	0.8662	
Fig S1A (CCT TDL)		One-way ANOVA &			
		Dunnett's			
WT vs. CCT1-IR	Yes		****	<0.0001	13, 10
WT vs. CCT2-IR	Yes		ns	0.1586	13, 10
WT vs. CCT4-IR	Yes		ns	0.6527	13, 10
WT vs. CCT6-IR	Yes		****	<0.0001	13, 10
WT vs. CCT7-IR	Yes		*	0.0388	13, 10
WT vs. CCT8-IR	Yes		****	<0.0001	13, 11
Fig S1B (CCT4 TDL)					
40A FRT vs. CCT4 ^{KG09280}	No	Mann-Whitney Test	***	0.0003	11, 8
Fig S1D (CCT Sholl Max)		One-way ANOVA & Dunnett's			
WT vs. CCT1-IR	Yes		**	0.0025	9, 10
WT vs. CCT2-IR	Yes		ns	0.9665	9, 10
WT vs. CCT4-IR	Yes	ĺ	ns	0.5974	9, 11
WT vs. CCT6-IR	Yes		*	0.0153	9, 10
WT vs CCT7-IB	Yes		ns	0.3998	9.10

WT vs. CCT8-IR	Yes		*	0.0471	9, 11
Fig S1D (CCT Sholl Radius)		One-way ANOVA & Dunnett's			
WT vs. CCT1-IR	Yes		***	0.0001	9, 10
WT vs. CCT2-IR	Yes		ns	0.2714	9, 10
WT vs. CCT4-IR	Yes		ns	0.3769	9, 11
WT vs. CCT6-IR	Yes		***	0.0007	9, 10
WT vs. CCT7-IR	Yes		ns	>0.9999	9, 10
WT vs. CCT8-IR	Yes		ns	0.1483	9, 11
Fig S1E (CCT5 IHC)		One-way ANOVA & Šídák's			
WT vs. CCT4-IR	Yes		****	< 0.0001	29, 23
WT vs. CCT5-IR	Yes		***	0.0002	29, 16
WT vs. CCT4-IR;CCT5-IR	Yes		****	<0.0001	29, 18
CCT4-IR vs. CCT4-IR;CCT5-IR	Yes		**	0.0021	23, 18
CCT5-IR vs. CCT4-IR;CCT5-IR	Yes		***	0.0004	16, 18
Fig S1F (AEL TDL)		One-way ANOVA & Šídák's			
24 hr: mean of genetic controls vs. CCT3-IR	Yes		ns	0.4890	17, 15
24 hr: mean of genetic controls vs. CCT5-IR	Yes		ns	0.4424	12, 13
48 hr: mean of genetic controls vs. CCT3-IR	Yes		ns	0.1891	18, 12
48 hr: mean of genetic controls vs. CCT5-IR	Yes		ns	0.6169	10, 12
72 hr: mean of genetic controls vs. CCT3-IR	Yes		***	0.0004	11, 14
72 hr: mean of genetic controls vs. CCT5-IR	Yes		*	0.0104	10, 12
96 hr: mean of genetic controls vs. CCT3-IR	Yes		****	<0.0001	10, 10
96 hr: mean of genetic controls vs. CCT5-IR	Yes		****	<0.0001	12, 12
72 hr CCT3-IR vs. 96 hr CCT3-IR	Yes		ns	0.6523	14, 10
72 hr CCT5-IR vs. 96 hr CCT5-IR	Yes		ns	0.5468	12, 12
Fig S1G (CCT OE TDL)		One-way ANOVA & Šídák's			
WT vs. CCT2-OE	Yes		ns	0.9917	13, 10
WT vs. drosCCT4	Yes		ns	0.6067	13, 10
dcas9 vs. CCT5 TOE	Yes		ns	0.2882	13, 11

Fig S2A (Raptor fluorescence					
WT vs. CCT5-IR	Yes	One-way ANOVA & Dunnett's	****	<0.0001	11, 14
WT vs. Raptor-IR	Yes	One-way ANOVA & Dunnett's	****	<0.0001	16, 16
WT vs. Raptor-OE	Yes	One-way ANOVA & Dunnett's	***	0.0005	16, 14
Fig S2B (S6k IHC)		Unnaired t-test			
WT vs. S6k-IR	Yes		**	0.0071	9.8
				0.0071	5,0
Fig S2C (P-Akt IHC)		Unpaired t-test			
WT vs. Akt-IR	Yes	•	****	<0.0001	11, 12
Fig S2D (Cullin1 IHC)		Unpaired t-test			
WT vs. Cullin1-IR	Yes		**	0.0013	15, 14
Fig S2E (BtubIIA fluorescence)					
WT vs. CCT3-IR	Yes	One-way ANOVA & Dunnett's	****	<0.0001	14, 11
WT vs. CCT5-IR	Yes	One-way ANOVA & Dunnett's	***	<0.0001	14, 15
WT vs. S6k-IR	Yes	Unpaired t-test	*	0.0339	13, 13
WT vs. Raptor-IR	Yes	Unpaired t-test	**	0.0078	14, 11
WT vs. Akt-IR	Yes	One-way ANOVA & Dunnett's	**	0.0055	16, 14
WT vs. Akt-OE	Yes	One-way ANOVA & Dunnett's	ns	0.4915	16, 12
WT vs. Cullin1-IR	Yes	Unpaired t-test	*	0.0105	10, 13
Fig S3A (HTT TDL)		One-way ANOVA & Šídák's			
WT vs. HTTQ20	Yes		ns	>0.9999	11, 15
WT vs. HTTQ50	Yes		ns	0.8793	11, 13
WT vs. HTTQ93	Yes		****	<0.0001	11, 18
WT vs. HTTQ120	Yes		****	<0.0001	11, 15
Fig S3C (HTT Futsch)		One-way ANOVA & Tukey's			
WT vs. HTT96	Yes		****	<0.0001	11, 11
WT vs. HTT96;CCT5-IR	Yes		****	<0.0001	11, 9
HTT96 vs. HTT96;CCT5-IR	Yes		ns	>0.9999	11, 9
Fig S3D (WT HTT)					
WT vs. CCT5-IR	Yes	Unpaired t-test	***	0.0002	11, 10

Fig S3F (M2 Dendrites)					
WT HTT v HTT120HA 48 hr	Yes	Unpaired t-test	* * * *	<0.0001	11, 9
Fig S3G (WT HTT IHC)		One-way ANOVA &			
		Tukey's			
WT vs. HTT25-Cer	Yes		*	0.0117	11, 11
WT vs. HTT96-Cer	Yes		* * * *	<0.0001	11, 11
Fig S3H (# mHTT IB)		Kruskal-Wallis &			
		Dunn's			
HTT96 vs. HTT96;CCT5-IR	No		ns	>0.9999	15, 14
HTT96 vs. HTT96;Cul1-IR	No		ns	0.7909	15, 14
Fig S3I (area mHTT IB)		Kruskal-Wallis &			
		Dunn's			
HTT96 vs. HTT96;CCT5-IR	No		ns	0.1699	16, 16
HTT96 vs. HTT96;Cul1-IR	No		ns	>0.9999	16, 15

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