

Supplemental Material:

Supplemental Table 1 – Buffer composition for CCV isolation protocol

Supplemental Table 2 – Podocyte CCV LC-MS results and comparison to the published HeLa cell CCV proteome

Supplemental Figure 1 - Validation of enriched DTR-podocytes

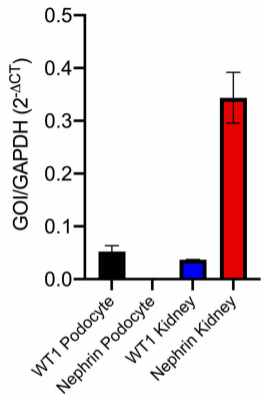
Supplemental Table 1. Buffer composition for CCV isolation protocol. Composition of Buffer A 10x, 1x, protease inhibitor cocktail, and D₂O sucrose solution.

Solution	Chemicals	Amount
Buffer A 10x	<ul style="list-style-type: none"> ▪ 2-(N-morpholino)ethanesulfonic acid (MES; 1M final) ▪ Ethylene glycol bis(β-aminoethylether)-N,N,N',N'-tetraacetic acid (EGTA) (200 mM) ▪ MgCl₂ (2 M) ▪ NaOH (10 M) ▪ dH₂O 	<ul style="list-style-type: none"> ▪ 19.52 g (1M final) ▪ 5 ml (10 mM final) ▪ 0.25 ml (5 mM final) ▪ Adjust to pH 6.5 ▪ Start with 80 ml, add to 100 ml total
Buffer A 1x	<ul style="list-style-type: none"> ▪ Buffer A 10x ▪ NaOH (1 M) ▪ dH₂O 	<ul style="list-style-type: none"> ▪ 50 ml ▪ Adjust to pH 6.5 ▪ Start with 400 ml, add to 500 ml total
complete protease inhibitor cocktail 25x	<ul style="list-style-type: none"> ▪ complete (Roche) ▪ ddH₂O 	<ul style="list-style-type: none"> ▪ 1 tablet ▪ 2 ml
D₂O-sucrose solution	<ul style="list-style-type: none"> ▪ D₂O ▪ Sucrose ▪ Buffer A 10x 	<ul style="list-style-type: none"> ▪ Start with 5 ml, add to 10 ml total ▪ 0.8 g (8% w/v final) ▪ 1ml

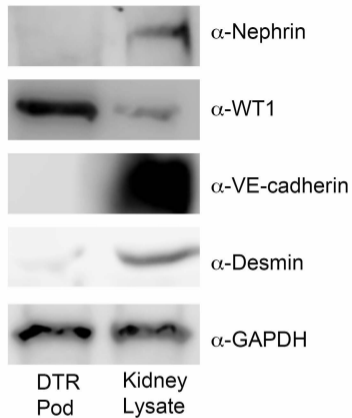
Supplemental Table 2. Podocyte CCV LC-MS results and comparison to the published HeLa cell CCV proteome. Sheet 1: Raw LC-MS readout of the podocyte CCV fraction ranked by Mascot score. Sheet 2: Top 520 proteins ranked by emPAI. Sheet 3: MS Dataset of HeLa cell CCVs from Borner et al.(15). Sheet 4: Proteins in podocyte CCVs not mentioned in HeLa dataset. Sheet 5: Proteins mentioned in both datasets. Sheet 6: Proteins mentioned in both datasets with a control/mock ratio of >1.46. Sheet 7: Overview over 36 survivors.

Supplemental Figure 1. Validation of enriched DTR-podocytes. (A) qPCR of genes of interest (GOI) for nephrin, WT1, and GAPDH in DTR podocytes and whole kidney lysates. (B) Representative immunoblots of nephrin, desmin, ve-cadherin, WT1, and GAPDH.

A



B



Supplemental Figure 1