

**Table S4. Nephron segment-specific localized genes with kidney specificity.**

Gene name	Description	Category RNA	FPKM	Public database (mRNA level)		Public database (protein level)		Public database (Urine proteome)	Farrah (1)	Literature
				Database	Nephron segment	Database	Nephron segment			
<b>a. Glomeruli elevated genes</b>										
PODXL	podocalyxin-like	Enhanced	126,7	KUPKB	g	KUPKB	g	KUPKB, UEPD	k/u/pl	k, g (2)
TSPAN33	tetraspanin 33	Enhanced	98,3	KUPKB	p					
FGF1	fibroblast growth factor 1 (acidic)	Enhanced	68,5	KUPKB	g,p	KUPKB	g		k	k, g, d (3)
NPHS2	nephrosis 2, idiopathic, (podocin)	Highly enriched	68,2	KUPKB	g	KUPKB	g	UEPD	k/u	k, g (4)
SLC5A3	solute carrier family 5, member 3	Enhanced	28,2	KUPKB	k (n.s)					k, g (5)
PTH2R	parathyroid hormone 2 receptor	Enhanced	23,3							k, g (6)
GPR110	G protein-coupled receptor 110	Enhanced	22,8							k, (7)
TRIM6	tripartite motif containing 6	Enhanced	20,8	KUPKB	p					
NPHS1	nephrosis 1, congenital, Finnish type (nephrin)	Group enriched	20,6	KUPKB	g	KUPKB, HKUPP	g	KUPKB, UEPD	k	k, g (8)
PTPRO	protein tyrosine phosphatase, receptor type, O	Enhanced	19,3	KUPKB	g	KUPKB, HKUPP	g	KUPKB, UEPD	k/u	k, g (9)
SLC25A48	solute carrier family 25, member 48	Enhanced	12,8	KUPKB	p,d,c					
CRB2	crumbs homolog 2 (Drosophila)	Enhanced	5,1	KUPKB	p	KUPKB, HKUPP	g	KUPKB, UEPD	k/u/pl	k, (10)
<b>b. Proximal tubuli elevated genes</b>										
ALDOB	aldolase B, fructose-bisphosphate	Group enriched	1867	KUPKB	p,d,c	KUPKB, HKUPP	g	KUPKB	k/u/pl	k, (11)
GATM	glycine amidinotransferase	Group enriched	974,2	KUPKB	p,d,c	KUPKB, HKUPP	g	KUPKB	k/u/pl	k, p (12)
PDZK1IP1	PDZK1 interacting protein 1	Enhanced	751,5	KUPKB	g,p,d,c	KUPKB, HKUPP	g	KUPKB, UEPD	k/u	k, p (13)
ASS1	argininosuccinate synthase 1	Group enriched	730,4	KUPKB	g,p,d,c	KUPKB, HKUPP	g	KUPKB, UEPD	k/u/pl	k, p (14)
MIOX	myo-inositol oxygenase	Highly enriched	624,9	KUPKB	p,d,c				k/u	k, p (15)
PAH	phenylalanine hydroxylase	Enhanced	570,5	KUPKB	g	KUPKB	k			k, p (16)
BHMT	betaine--homocysteine S-methyltransferase	Group enriched	559,7	KUPKB	g,p,d,c	KUPKB, HKUPP	g	KUPKB	k/u/pl	k, p (17)
NAT8	N-acetyltransferase 8 (GCN5-related, putative)	Moderately enriched	527,5	KUPKB	p,d,c					k, (18)
PCK1	phosphoenolpyruvate carboxykinase 1 (soluble)	Enhanced	493,6	KUPKB	p,d,c	KUPKB, HKUPP	g	KUPKB, UEPD	k/u	k, p (19)
C19orf77	chromosome 19 open reading frame 77	Enhanced	442,6	KUPKB	p			KUPKB, UEPD	k/u	
GSTA2	glutathione S-transferase alpha 2	Enhanced	393,7	KUPKB	k (n.s)	KUPKB, HKUPP	g	KUPKB	k/u/pl	k, p (20)
PDZK1	PDZ domain containing 1	Enhanced	390,4	KUPKB	p,d,c	KUPKB, HKUPP	g	KUPKB, UEPD	k/u/pl	k, p (21)
ACY1	aminoacylase 1	Group enriched	346,8	KUPKB	p,d,c	KUPKB, HKUPP	g	KUPKB, UEPD	k/u/pl	k, p (22)
BHMT2	betaine--homocysteine S-methyltransferase 2	Group enriched	331,9			KUPKB	k	KUPKB, UEPD	k/u/pl	k, (23)
ACSM2B	acyl-CoA synthetase medium-chain member 2B	Group enriched	319,5			KUPKB	g		k/u	
PEPD	peptidase D	Enhanced	314,8	KUPKB	p,d,c	KUPKB, HKUPP	g	KUPKB, UEPD	k/u/pl	
SLC3A1	solute carrier family 3, member 1	Enhanced	314,1	KUPKB	p,d,c			UEPD	u	k, p (24)
HPD	4-hydroxyphenylpyruvate dioxygenase	Group enriched	306,1	KUPKB	p			KUPKB, UEPD	k/u/pl	k, (25)
SLC13A3	solute carrier family 13, member 3	Moderately enriched	304,5	KUPKB	p, d	KUPKB, HKUPP	g	UEPD		k, p (26)
HRSP12	heat-responsive protein 12	Group enriched	297,7	KUPKB	g,p	KUPKB, HKUPP	g	KUPKB, UEPD	k/u/pl	k, (27)
ACSM2A	acyl-CoA synthetase medium-chain member 2A	Group enriched	281,6			KUPKB, HKUPP	g		k/u	

Proximal tubuli elevated genes (continued)										
KNR1	kininogen 1	Group enriched	271,2	KUPKB	p, d	KUPKB, HKUPP	g	KUPKB, UEPD	k/u/pl	k, (28)
SLC22A8	solute carrier family 22, member 8	Highly enriched	268,6	KUPKB	p, d			UEPD	k	k, p (29)
GLYAT	glycine-N-acyltransferase	Group enriched	268	KUPKB	p	KUPKB, HKUPP	g		k	k, (30)
C11orf54	chromosome 11 open reading frame 54	Enhanced	265,4	KUPKB	p,d,c	KUPKB, HKUPP	g	UEPD	k/u/pl	k, (31)
BBOX1	butyrobetaine2-oxoglutarate dioxygenase 1	Enhanced	255,6	KUPKB	p,d,c			UEPD	k/u	k, (32)
DPEP1	dipeptidase 1 (renal)	Enhanced	249,4	KUPKB	p,d,c	KUPKB, HKUPP	g	KUPKB, UEPD	k/u/pl	k, p (33)
CMBL	carboxymethylenebutenolidase	Enhanced	246,8	KUPKB	p,d,c	KUPKB, HKUPP	g	UEPD	k/u/pl	k, (34)
GLYATL1	glycine-N-acyltransferase-like 1	Group enriched	239,9			KUPKB, HKUPP	g		k	k, (35)
DDC	dopa decarboxylase	Enhanced	223,9	KUPKB	p	KUPKB, HKUPP	g	KUPKB, UEPD	k/u/pl	k, p (36)
KHK	ketoheksokinase (fructokinase)	Group enriched	208	KUPKB	p, d	KUPKB, HKUPP	g	UEPD	k/u/pl	k, p (37)
SLC7A7	solute carrier family 7, member 7	Enhanced	201,7	KUPKB	k (n.s)					k, (38)
FMO1	flavin containing monooxygenase 1	Moderately enriched	184,8	KUPKB	p				k	k, p (39)
SHMT1	serine hydroxymethyltransferase 1 (soluble)	Enhanced	184,7	KUPKB	p,d,c	KUPKB	k	KUPKB, UEPD	k/u/pl	k, p (40)
DHRS4	dehydrogenase/reductase member 4	Enhanced	184	KUPKB	p,d,c	KUPKB, HKUPP	g		k	
DPYS	dihydropyrimidinase	Group enriched	177,5	KUPKB	p, d	HKUPP	g	KUPKB, UEPD	k/u	k, (41)
PBLD	phenazine biosynthesis-like protein domain	Enhanced	177,1	KUPKB	g,p,d,c	KUPKB, HKUPP	g	KUPKB, UEPD	k/u/pl	
SLC34A1	solute carrier family 34, member 1	Highly enriched	175,6	KUPKB	g,p, d				u	k, p (42)
PCK2	Phosphoenolpyruvate carboxykinase 2	Group enriched	169	KUPKB	p,d,c	KUPKB, HKUPP	g		k/u/pl	k, (43)
FAM151A	family with sequence similarity 151, member A	Group enriched	168,2					KUPKB	k/u	
SLC7A8	solute carrier family 7, member 8	Enhanced	158,7						u	k, (44)
FTCD	formiminotransferase cyclodeaminase	Group enriched	148,1	KUPKB	p,c	KUPKB, HKUPP	g	UEPD	k/u	k, (45)
XPNPEP2	X-prolyl aminopeptidase (aminopeptidase P) 2,	Group enriched	134,3	KUPKB				KUPKB, UEPD	k/u/pl	
AGMAT	agmatine ureohydrolase (agmatinase)	Enhanced	130,2			KUPKB, HKUPP	g		k/pl	k, (46)
DMGDH	dimethylglycine dehydrogenase	Group enriched	130			KUPKB, HKUPP	g		k/pl	k, p (47)
AK4	adenylate kinase 4	Enhanced	127,9	KUPKB	k (n.s)	KUPKB, HKUPP	g		k/u/pl	k, p (48)
GGT1	gamma-glutamyltransferase 1	Enhanced	126,9	KUPKB	p,d,c	KUPKB, HKUPP	g	KUPKB	k/u/pl	k, p (49)
KL	klotho	Group enriched	120,6	KUPKB	p			UEPD	u	k, p (50)
CUBN	cubilin (intrinsic factor-cobalamin receptor)	Group enriched	120,6	KUPKB	k (n.s)	KUPKB, HKUPP	g	KUPKB, UEPD	k/u/pl	k, p (51)
EHHADH	enoyl-CoA,hydrataseCoA dehydrogenase	Group enriched	116,5	KUPKB	g,p, d	KUPKB, HKUPP	g		k	k, p (52)
AGXT2	alanine--glyoxylate aminotransferase 2	Group enriched	114			KUPKB	k			k, (53)
NOX4	NADPH oxidase 4	Moderately enriched	113,8			KUPKB, HKUPP	g			k, d (54)
APOM	apolipoprotein M	Group enriched	109,8	KUPKB	p, c				k/u/pl	k, p (55)
SLC16A4	solute carrier family 16, member 4	Enhanced	109,4	KUPKB	p,d,c					k, p (56)
SLC22A12	solute carrier family 22, member 12	Highly enriched	108,4					UEPD	k/u	k, p (57)
QPRT	quinolinate phosphoribosyltransferase	Enhanced	108,2	KUPKB	g,p,d,c			KUPKB	k/u/pl	k, (58)
SLC16A9	solute carrier family 16, member 9	Enhanced	106,4							k, (59)
SLC4A4	solute carrier family 4, , member 4	Enhanced	104	KUPKB	p,d,c			UEPD		k, p (60)
SORD	sorbitol dehydrogenase	Group enriched	103,8	KUPKB	p			KUPKB, UEPD	k/u/pl	k, (61)
CRYAA	crystallin, alpha A	Moderately enriched	102,7	KUPKB	k (n.s)			KUPKB	k	
SLC17A3	solute carrier family 17, member 3	Group enriched	101,7	KUPKB	p,d,c					k, p (62)
TMEM174	transmembrane protein 174	Highly enriched	97,2							k, (63)
SLC6A19	solute carrier family 6, member 19	Group enriched	94,9					KUPKB, UEPD	k/u	k, p (64)
SLC27A2	solute carrier family 27, member 2	Group enriched	93,3	KUPKB	p	KUPKB	k	UEPD	k/u	k, (65)
ACMSD	Aminocarboxymuconate decarboxylase	Group enriched	85,9	KUPKB	p					k, (66)
BPHL	biphenyl hydrolase-like (serine hydrolase)	Enhanced	79,9	KUPKB	k (n.s)	KUPKB, HKUPP	g		k	k, (67)

Proximal tubuli elevated genes (continued)										
LRP2	low density lipoprotein receptor protein 2	Group enriched	74,4	KUPKB	k (n.s)	KUPKB, HKUPP	g	KUPKB, UEPD	k/u	k, p (68)
SLC13A1	solute carrier family 13, member 1	Enhanced	72,8	KUPKB	g,p,d,c					k, p (69)
ALDH8A1	aldehyde dehydrogenase 8 family, member A1	Group enriched	70,7			KUPKB	k	KUPKB		k, (70)
SLC36A2	solute carrier family 36, member 2	Highly enriched	63,9					KUPKB, UEPD	k/u	k, p (71)
SLC16A12	solute carrier family 16, member 12	Moderately enriched	61,7	KUPKB	p					k, p (72)
DAO	D-amino-acid oxidase	Group enriched	58,8			KUPKB, HKUPP	g		k	k, p (73)
RGN	regucalcin (senescence marker protein-30)	Group enriched	56,5	KUPKB	k (n.s)				k/u	k, p (74)
SLC7A9	solute carrier family 7, member 9	Group enriched	52,2							k, p (75)
SFXN2	sideroflexin 2	Enhanced	52						k	
SLC5A2	solute carrier family 5, member 2	Moderately enriched	49,5	KUPKB	k (n.s)			UEPD	k/u	k, p (76)
SLC5A10	solute carrier family 5, member 10	Moderately enriched	48					UEPD	k/u	k, (77)
ACY3	aspartoacylase (aminocyclase) 3	Enhanced	47,7					KUPKB, UEPD	k/u	k, (78)
SLC22A7	solute carrier family 22, member 7	Group enriched	47,4	KUPKB	p, d					k, p (79)
CHDH	choline dehydrogenase	Enhanced	47,2			KUPKB	k		k	k, p (80)
SLC22A11	solute carrier family 22, member 11	Group enriched	45,1					UEPD	k/u	k, p (81)
SLC2A9	solute carrier family 2, member 9	Enhanced	44,8							k, p (82)
CYP4F2	cytochrome P450 superfamily	Group enriched	44,6						k	k, p (83)
SLC23A1	solute carrier family 23, member 1	Enhanced	44,3					UEPD	k/u	k, p (84)
IL17RB	interleukin 17 receptor B	Enhanced	40,8	KUPKB	g,p,d,c					k, (85)
SLC13A2	solute carrier family 13, member 2	Group enriched	40,1	KUPKB	p			UEPD	u	k, p (86)
C7orf10	chromosome 7 open reading frame 10	Enhanced	38,8	KUPKB	p					
MAPT	microtubule-associated protein tau	Group enriched	38,4			KUPKB, HKUPP	g		k	
PAQR5	progesterin and adipoQ receptor family V	Enhanced	38							
UGT3A1	UDP glycosyltransferase 3, polypeptide A1	Enhanced	36,7							k, (87)
PAX2	paired box 2	Moderately enriched	36							k, p (88)
ASPA	aspartoacylase	Enhanced	34,4	KUPKB	k (n.s)	KUPKB, HKUPP	g		k/u	k, (89)
SLC28A1	solute carrier family 28, member 1	Group enriched	34,3						u	k, g+p (90)
PKLR	pyruvate kinase, liver and RBC	Enhanced	30,5			KUPKB, HKUPP	g	UEPD	k/u/pl	k, p (91)
MYOM3	myomesin family, member 3	Group enriched	30,3						pl	
ASPDH	aspartate dehydrogenase domain containing	Group enriched	30,2						k/u/pl	k, (92)
KMO	kynurenine 3-monooxygenase	Enhanced	29	KUPKB	p				k	k, (93)
REN	renin	Group enriched	25,3							k, g+p (94)
ENPP6	ectonucleotide pyrophosphatase/PDE 6	Enhanced	24,5	KUPKB	p			UEPD	u/pl	k, (95)
SLC6A12	solute carrier family 6, member 12	Group enriched	24	KUPKB	p					k, c (96)
PALM3	paralemmin 3	Enhanced	23,7							k, p+d (97)
CDH6	cadherin 6, type 2, K-cadherin	Enhanced	19,5	KUPKB	p			KUPKB	u/pl	k, (98)
SLC34A3	solute carrier family 34, member 3	Group enriched	18,1	KUPKB	p,d,c					k, p (99)
ABCC2	ATP-binding cassette, sub-family C, member 2	Group enriched	16	KUPKB	k (n.s)					k, p (100)
SLC10A2	solute carrier family 10, member 2	Group enriched	12,3							k, p (101)
SLC22A13	solute carrier family 22, member 13	Highly enriched	11,7					UEPD		k, p (102)
LYG1	lysozyme G-like 1	Group enriched	10,6	KUPKB	p					
SLC6A18	solute carrier family 6, member 18	Highly enriched	10,6							k, p (103)
MNS1	meiosis-specific nuclear structural 1	Group enriched	9,8							k, (104)
RP11-407N17.3	Cutaneous T-cell lymphoma-related antigen 5	Enhanced	9,6							
RNF183	ring finger protein 183	Enhanced	8,3							

<b>Proximal tubuli elevated genes (continued)</b>										
ABCA4	ATP-binding cassette, sub-family A, member 4	Enhanced	7,4							
ARSF	arylsulfatase F	Enhanced	5,9					KUPKB, UEPD	u	
SLC5A11	solute carrier family 5, member 11	Group enriched	5,8							k, p (105)
FAM131C	family with sequence similarity 131, member C	Enhanced	3,3	KUPKB	p					
PNMA6A	paraneoplastic Ma antigen family member 6A	Enhanced	3,2	KUPKB	p					
C9orf135	chromosome 9 open reading frame 135	Group enriched	3,1							
RIPPLY1	rippy1 homolog (zebrafish)	Group enriched	2,5							
CALCR	calcitonin receptor	Enhanced	1,6							k, (106)
INSRR	insulin receptor-related receptor	Enhanced	1,5							k, p+d (107)
<b>c. distal tubuli elevated genes</b>										
UMOD	uromodulin	Highly enriched	1420,8	KUPKB	g,p,d,c	KUPKB, HKUPP	g	KUPKB, UEPD	k/u/pl	k, d (108)
SLC12A1	solute carrier family 12, member 1	Highly enriched	406,1	KUPKB	p,d,c			KUPKB, UEPD	k/u	k, d (109)
CALB1	calbindin 1, 28kDa	Moderately enriched	229,6	KUPKB	g,p,d,c	KUPKB, HKUPP	g	KUPKB, UEPD	k/u	k, d (110)
KCNJ1	potassium channel, subfamily J, member 1	Highly enriched	132	KUPKB	k (n.s)					k, d (111)
SLC12A3	solute carrier family 12, member 3	Highly enriched	129,3	KUPKB	p,d,c			KUPKB, UEPD	k/u	k, d (112)
CLDN8	claudin 8	Enhanced	56,9	KUPKB	p,d,c					k, d (113)
CASR	calcium-sensing receptor	Enhanced	21,1	KUPKB	k (n.s)					k, d (114)
GLTPD2	glycolipid transfer protein domain containing 2	Enhanced	12,5						pl	k, (115)
TFAP2B	transcription factor AP-2 beta	Group enriched	8,5						k	k, d+c (116)
<b>d. Collecting duct elevated genes (* only intercalated cells)</b>										
AQP2	aquaporin 2 (collecting duct)	Highly enriched	314,7	KUPKB	g,p,d,c			KUPKB, UEPD	u	k, c (117)
HPN *	hepsin	Enhanced	91,6	KUPKB	p					k, (118)
TMEM213*	transmembrane protein 213	Group enriched	65,3							
ATP6V0D2 *	ATPase, H <sup>+</sup> transporting, V0 subunit d2	Moderately enriched	40,6			KUPKB, HKUPP	g			k, (119)
PVALB *	parvalbumin	Moderately enriched	40	KUPKB	k (n.s)			KUPKB		k, d (120)
RHBG	Rh family, B glycoprotein (gene/pseudogene)	Group enriched	15,3	KUPKB	p,d,c					k, d+c (121)
SLC4A9	solute carrier family 4, member 9	Moderately enriched	11,3	KUPKB	p,d,c					k, c (122)
CLNK *	cytokine-dependent hematopoietic cell linker	Enhanced	3,6							

\* indicates proteins that are only found in the subsegment of intercalated cells of collecting duct.

Farrah (1) – Report of compiled MS datasets for blood, urine and kidney tissue. Farah T. *et al* (J Proteome Res. 2014 Jan 3;13(1):60-75)

‘literature’ – Previous publication that has characterised the protein in kidney cells or tissue.

Abbreviations:

K; kidney, g; glomeruli, p; proximal tubuli, d; distal tubuli, c; collecting duct; pl:plasma; u: urine

KUPKB; Kidney and Urinary Pathway Knowledge base (<http://www.kupkb.org/>). Omics datasets that have been extracted from scientific publications and other related renal databases.

HKUPP; Human Kidney and Urinary Proteome Project (<http://www.hkupp.org/>). Datasets of identified proteins localized in isolated human glomeruli using 2D SDS-PAGE and LC-MS/MS.

UEPD; Urinary Exosome Protein database (<http://dir.nhlbi.nih.gov/papers/lkem/exosome/>). Datasets of human urinary exosome proteins based on published and unpublished protein mass spectrometry data from the NHLBI Laboratory of Kidney and Electrolyte Metabolism.

## Supplementary Table S4 - References

No	Title	URL	Description	Details	ShortDetails	Resource	Type	Identifiers	Db	EntrezUID	Properties
1	State of the human proteome in 2013 as viewed through PeptideAtlas: comparing the kidney, urine, and plasma proteomes for the biology- and disease-driven Human Proteome Project.	/pubmed/24261998	Farrah T, Deutsch EW, Omenn GS, Sun Z, Watts JD, Yamamoto T, Shteynberg D, Harris MM, Moritz RL. J Proteome Res. 2014 Jan 3;13(1):60-75. doi: 10.1021/pr4010037. Epub 2013 Dec 6. J Proteome Res. 2014 PubMed citation PMID:24261998   PMCID:PMC3951210	pubmed	24261998	create date:2013/11/23   first author:Farrah T					
2	Sulfate contributes to the negative charge of podocalyxin, the major sialoglycoprotein of the glomerular filtration slits.	/pubmed/2052617	Dekan G, Gabel C, Farquhar MG. Proc Natl Acad Sci U S A. 1991 Jun 15;88(12):5398-402. Proc Natl Acad Sci U S A. 1991 PubMed citation PMID:2052617   PMCID:PMC51880	pubmed	2052617	create date:1991/06/15   first author:Dekan G					
3	FGF-1 in normal and regenerating kidney: expression in mononuclear, interstitial, and regenerating epithelial cells.	/pubmed/7503231	Ichimura T, Maier JA, Maciag T, Zhang G, Stevens JL. Am J Physiol. 1995 Nov;269(5 Pt 2):F653-62. Am J Physiol. 1995 PubMed citation PMID:7503231	pubmed	7503231	create date:1995/11/01   first author:Ichimura T					
4	Podocin localizes in the kidney to the slit diaphragm area.	/pubmed/11786407	Roselli S, Gribouval O, Boute N, Sich M, Benessy F, Atti T, Gubler MC, Antignac C. Am J Pathol. 2002 Jan;160(1):131-9. Am J Pathol. 2002 PubMed citation PMID:11786407   PMCID:PMC1867125	pubmed	11786407	create date:2002/01/12   first author:Roselli S					
5	Novel expression of sodium/myo-inositol co-transporter in podocytes in puromycin aminonucleoside nephrosis.	/pubmed/15031335	Watanabe Y, Kobayashi T, Yaoita E, Kawachi H, Yamauchi A, Inoue T, Shimizu F, Yoshida Y, El-Shemi AG, Okada H, Suzuki H, Yamamoto T. Nephrol Dial Transplant. 2004 Apr;19(4):817-22. Nephrol Dial Transplant. 2004 PubMed citation PMID:15031335	pubmed	15031335	create date:2004/03/20   first author:Watanabe Y					
6	Distribution of parathyroid hormone-2 receptor messenger ribonucleic acid in rat.	/pubmed/8828488	Usdin TB, Bonner TI, Harta G, Mezey E. Endocrinology. 1996 Oct;137(10):4285-97. Endocrinology. 1996 PubMed citation PMID:8828488	pubmed	8828488	create date:1996/10/01   first author:Usdin TB					
7	Orphan receptor GPR110, an oncogene overexpressed in lung and prostate cancer.	/pubmed/20149256	Lum AM, Wang BB, Beck-Engeser GB, Li L, Channa N, Wabl M. BMC Cancer. 2010 Feb 11;10:40. doi: 10.1186/1471-2407-10-40. BMC Cancer. 2010 PubMed citation PMID:20149256   PMCID:PMC2830182	pubmed	20149256	create date:2010/02/13   first author:Lum AM					
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