KEY:

Red text: Changes to be made to DB ontology that were unable to be made during last ontology update (for Editorial Office Use Only)

TS27 urinary and reproductive systems (P0 - P3)

```
EMAP:30155
EMAP: 30154
                L organ system
EMAP:30153
                   L visceral organ
EMAP: 30243
                       urinary system
EMAP:30400
                        - mesentery
EMAP:30401
                           - rest of mesentery
EMAP:30402
                            urogenital mesentery
EMAP:30247
                          metanephros (syn: kidney)
EMAP: 30249
                            renal capsule
EMAP:30282
                             nephrogenic zone
                               nephrogenic interstitium (syn: peripheral blastema)
EMAP: 30283
EMAP:30284
                               cap mesenchyme (syn: condensed mesenchyme)
EMAP: 30285
                               pretubular aggregate (syn: pretubular condensate)
                               ureteric tip (syn: ureteric ampulla)
EMAP: 30248
                               ureteric tree terminal branch excluding tip itself
EMAP: 31052
EMAP: 30287
                             renal cortex
                               renal vesicle (syn: epithelial vesicle; stage I nephron)
EMAP: 30316
EMAP: 31699
                                - renal connecting segment of renal vesicle
EMAP:31730
                                  distal renal vesicle
EMAP:31724
                                  proximal renal vesicle
EMAP:30303
                               comma-shaped body
EMAP:30304
                                  upper limb of comma-shaped body (syn: distal limb of comma-shaped body)
EMAP:30305
                                  lower limb of comma-shaped body (syn: proximal limb of comma-shaped body)
                                  renal connecting segment of comma-shaped body
EMAP: 31716
EMAP: 30319
                               s-shaped body (syn: stage II nephron)
EMAP:30324
                                Figure 1 renal connecting tubule of s-shaped body
EMAP:30320
                                  distal segment of s-shaped body (syn: upper limb of s-shaped body)
                                  medial segment of s-shaped body (syn: mid-portion of s-shaped body)
EMAP:30325
                                  proximal segment of s-shaped body (syn: lower limb of s-shaped body)
EMAP:30321
EMAP:30322
                                    visceral epithelium
EMAP:30323
                                    parietal epithelium
                               capillary loop renal corpuscle (syn: renal corpuscle of the stage III nephron)
EMAP:30307
EMAP:30311
                                  associated interstitium of renal corpuscle
                                  parietal epithelium
EMAP: 30312
                                  presumptive endothelium of renal corpuscle
EMAP: 30310
EMAP:30309
                                  presumptive mesangium
EMAP:30308
                                  visceral epithelium (syn: podocyte layer)
                               maturing renal corpuscle (syn: renal corpuscle of Stage IV nephron)
EMAP:30264
EMAP:30268
                                  maturing glomerular tuft (syn: maturing glomerulus)
EMAP:30271
                                    glomerular capillary system of maturing glomerular tuft
EMAP:30270
                                    glomerular mesangium
EMAP:30269
                                    visceral epithelium (syn: podocyte layer)
                                    glomerular basement membrane
EMAP: 30971
EMAP:30272
                                  Bowman's capsule (syn: glomerular capsule)
                                    parietal epithelium
EMAP: 30274
EMAP:30273
                                    urinary space of renal corpuscle (syn: Bowman's space)
                                    glomerular mesangium of Bowman's capsule
EMAP: 30275
                                  juxtaglomerular arteriole
EMAP: 30265
                                    afferent arteriole
EMAP: 30266
                                    efferent arteriole
EMAP: 30267
                               mature renal corpuscle (syn: Malpighian corpuscle)
EMAP: 30289
EMAP: 30291
                                  glomerular tuft (syn: glomerulus)
EMAP: 30294
                                    glomerular capillary system
EMAP:30295
                                    glomerular mesangium
                                    glomerular basement membrane
EMAP: 30293
EMAP:30292
                                    visceral epithelium (syn: podocyte layer)
EMAP:30300
                                  Bowman's capsule (syn: glomerular capsule)
EMAP:30301
                                    parietal epithelium
EMAP:30302
                                    urinary space of renal corpuscle (syn: Bowman's space)
EMAP:30296
                                  afferent arteriole
EMAP:30297
                                    part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)
                                    rest of afferent arteriole
EMAP: 30298
EMAP:30290
                                  efferent arteriole
                                  extraglomerular mesangium
EMAP: 30299
                               cortical renal tubule
EMAP: 30253
```

EMAP:30254	Frenal proximal tubule
EMAP:30255	early proximal tubule
EMAP:31707	early proximal tubule of capillary loop nephron (syn: anlage of proximal tubule)
EMAP:31615	L early proximal tubule of maturing nephron
EMAP:30256	renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:31287	anlage of loop of Henle (syn: primitive loop of Henle)
EMAP:30257	- renal distal tubule
EMAP:30261	- early distal tubule
EMAP:31642	early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP:31621	L early distal tubule of maturing nephron
EMAP:30262	distal convoluted tubule (syn: second convoluted tubule)
EMAP:30258	distal straight tubule (syn: thick ascending limb)
EMAP:31382	premacula segment of distal straight tubule
EMAP:30260	macula densa
EMAP:30259	L postmacula segment
EMAP:30263	renal connecting tubule
EMAP:31627	renal connecting tubule of capillary loop nephron
EMAP:31633	renal connecting tubule of maturing nephron
EMAP:31636	L renal connecting tubule of mature nephron
EMAP:30281	- cortical collecting duct
EMAP:30315	renal cortical interstitium (syn: cortical stroma)
EMAP:31294	renal cortical fibroblasts
EMAP:31302	resident macrophages of the cortex (syn: renal monocytes of the cortex)
EMAP:31310	L rest of renal cortical interstitium
EMAP:30326	- renal cortical vasculature
EMAP:30328	Frenal cortical arterial system
EMAP:30330	- interlobular artery
EMAP:30329	Larcuate artery
EMAP:30331	- renal cortical venous system
EMAP:30333	- interlobular vein
EMAP:30332	Larcuate vein
EMAP: 30327	L renal cortical capillary
EMAP: 31317	
EMAP: 31324	L renal cortical nerves
EMAP: 30334	
EMAP: 31459	
EMAP:31331	
EMAP:31338	L rest of renal medullary interstitium
EMAP:31345 EMAP:30343	
	loop of Henle, outer medullary portion
EMAP:30351 EMAP:30353	thin descending limb
EMAP:30352	thin ascending limb (syn: ascending thin limb)
EMAP:30356	proximal straight tubule (syn: pars recta; segment 3 of proximal tubule)
EMAP:30354	L premacula segment of distal straight tubule (syn: thick ascending limb)
EMAP:30350	outer medullary interstitium
EMAP:31387	outer medulary interstituting
EMAP:31392	resident macrophage of the outer medulla (syn: renal monocytes of the outer medulla)
EMAP:31397	L rest of outer medullary interstitium
EMAP:30349	L outer medullary collecting duct
EMAP:30335	inner medulla (syn: papilla)
	loop of Henle, inner medullary portion
EMAP:30339 EMAP:30341	thin descending limb
EMAP:30341	bend (syn: U-turn)
EMAP:30342	L thin ascending limb (syn: ascending thin limb)
EMAP:30337	inner medullary interstitium (syn: papillary interstitium)
EMAP:31402	inner medullary fibroblast
EMAP:31407	L resident macrophage of the inner medulla (syn: renal monocytes of the inner medulla)
EMAP:30336	Linner medullary collecting duct (syn: papillary collecting duct)
	- Inflet medulary collecting duct (syn. papillary collecting duct)
EMAP:30357	renal medullary arterial system
EMAP:30358 EMAP:30360	renal medullary arterial system
EMAP:30359	L renal medullary capillary (syn: vasa recta)
EMAP:31352	renal medullary lymphatics
EMAP:31352	L renal medullary nerves
EMAP:30250	- calyx
EMAP:30250	major
EMAP:30251	
EMAP:30252	L pelvis
EMAP:30276	- pelvis pelvic urothelial lining (syn: pelvic urothelium)
EMAP:30278	pelvic smooth muscle
EMAP:30277	L perihilar interstitium
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EMAP:31365 EMAP:31371	
interstitium)	
EMAP:31377	rest of perihilar interstitium
EMAP:30244 EMAP:30245	- renal artery - endothelial layer of renal artery
EMAP:30465	- endothelium of renal artery
EMAP:30246	smooth muscle layer of renal artery
EMAP: 30404	- renal vein
EMAP:30405 EMAP:30466	
EMAP:30406	L smooth muscle layer of renal vein
EMAP:30363	- ureter
EMAP:30369	- urothelium (syn: transitional epithelium)
EMAP:30373 EMAP:30370	
EMAP:30371	intermediate cell layer
EMAP:30372	basal cell layer
EMAP:30367	- lamina propria
EMAP:30364 EMAP:30365	
EMAP:30366	Linterstitium (syn: Cajal cell)
EMAP:30368	adventitia of ureter
EMAP:30858	La bladder
EMAP:30374 EMAP:30380	- bladder - epithelium of bladder (syn: urothelium)
EMAP:30382	- epithelium of fundus
EMAP:30381	epithelium of trigone
EMAP:30383	
EMAP:30396 EMAP:30397	
EMAP:30398	Iamina propria of trigone
EMAP:30399	l amina propria of neck
EMAP:30388	- muscularis mucosa of bladder
EMAP:30390 EMAP:30389	
EMAP:30391	L muscularis mucosa of neck
EMAP:30376	detrusor muscle of bladder
EMAP:30378	
EMAP:30377 EMAP:30379	
EMAP:30392	- serosa of bladder
EMAP:30395	serosa of fundus
EMAP:30393	
EMAP:30394 EMAP:30384	- serosa or neck
EMAP:30385	adventitia of fundus
EMAP:30387	adventitia of trigone
EMAP:30386 EMAP:30375	
EMAP:31659	L nerve of bladder
EMAP:30403	- urachus
EMAP:30418	- urethra of female
EMAP:30419 EMAP:30421	
EMAP:30421	mesenchymal layer of pelvic urethra of female
EMAP:30420	muscle layer of pelvic urethra of female
EMAP:31799	Language of female Langu
EMAP:30922 EMAP:30933	^L phallic urethra of female (syn: external urethra of female) - epithelial layer of phallic urethra of female
EMAP:30937	mesenchymal layer of phallic urethra of female
EMAP:30941	muscle layer of phallic urethra of female
EMAP: 31740	l urethre of male
EMAP:30407 EMAP:30412	- urethra of male - pelvic urethra of male
EMAP:30415	- epithelial layer of pelvic urethra of male
EMAP:30414	- mesenchymal layer of pelvic urethra of male
EMAP: 30413	
EMAP:31789 EMAP:30408	^L nerve of pelvic urethra of male ^L phallic urethra of male (syn: external urethra of male)
EMAP:30409	epithelial layer of phallic urethra of male
EMAP:30411	mesenchymal layer of phallic urethra of male
EMAP:30410	muscle layer of phallic urethra of male

EMAP:31805	L nerve of phallic urethra of male
EMAP:30416	- urorectal septum
EMAP:31648	L pelvic ganglion
EMAP:30156	- reproductive system
EMAP:30157	- male reproductive system
EMAP:30171	- testis
EMAP:30185	- rete testis
EMAP:30176	interstitium of the testis (syn: interstitial tissue)
EMAP:30178	- fetal Leydig cell
EMAP:30177	rest of interstitium of the testis (syn: non-specific mesenchyme)
EMAP:30179	Lanica vaginalis testis
EMAP:30181	seminiferous cord (syn: seminiferous tubule)
EMAP:30184	- Sertoli cell
EMAP:30183	- germ cell of testis
EMAP:30182	L peritubular myoid cell
EMAP:30175	- mediastinum testis
EMAP:30172	- developing vasculature of the testis
EMAP:30173	- coelomic vessel
EMAP:30174	L interstitial vessel
EMAP:30174	- tunica albuginea of testis
EMAP:31243	L surface epithelium of testis
EMAP:30186	- cystic vesicular appendage
	- cystic vesticular appendage
EMAP: 30198	- inguinal cartai
EMAP: 30165	
EMAP: 30167	
EMAP: 30166	1 1
EMAP:30188	- seminal vesicle (syn: vesicular seminalis)
EMAP: 30189	- glandular tissue of seminal vesicle
EMAP: 30190	duct of the seminal vesicle
EMAP: 30196	- efferent duct of seminal vesicle (syn: vasa efferentia)
EMAP:30199	- epididymis
EMAP:30200	- caput epididymis
EMAP:30615	epithelium of caput of epididymis
EMAP:30619	- muscle layer of caput of epididymis
EMAP:30623	- adventitia of caput of epididymis
EMAP:31208	developing vasculature of caput epididymis
EMAP:30202	- cauda epididymis
EMAP:30591	- epithelium of cauda of epididymis
EMAP:30595	- muscle layer of cauda of epididymis
EMAP:30599	- adventitia of cauda of epididymis
EMAP:31198	developing vasculature of cauda epididymis
EMAP:30201	- corpus epididymis
EMAP:30603	- epithelium of corpus epididymis
EMAP:30607	- muscle layer of corpus of epididymis
EMAP:30611	adventitia of corpus of epididymis
EMAP:31203	developing vasculature of corpus epididymis
EMAP:31187	developing vasculature of epididymis
EMAP:30168	- ductus deferens (syn: vas deferens)
EMAP:30170	- epithelium of ductus deferens
EMAP:30169	- muscle layer of ductus deferens
EMAP:30753	- outer layer of ductus deferens
EMAP:31193	Language disconsisting and disconsisting description Language description Language disconsisting description Language disconsisting description Language description
EMAP:30158	- appendix epididymis
EMAP:30195	- appendix testis
EMAP:30160	- ejaculatory duct
EMAP: 30192	- male accessory gland
EMAP:30193	bulbourethral gland (syn: Cowper's gland)
EMAP:30194	L prostate gland
EMAP:30187	gubernaculum (syn: caudal suspensory ligament)
EMAP:30159	- mesorchium
EMAP:30161	- penis (syn: genital tubercle of male)
EMAP: 30162	- glans penis
EMAP:30649	- surface epithelium of glans penis
EMAP: 30645	
EMAP:30164	- crus penis
EMAP:30671	- surface epithelium of crus penis
EMAP:30667	L mesenchyme of crus penis
EMAP:30163	L prepuce of male
EMAP:30658	prepuce surface epithelium of male
EMAP:30662	- preputial gland of male
EMAP:30653	L prepuce mesenchyme of male
EMAP:30736	L scrotal fold

	I a sector fold assessment and a
EMAP: 30742	scrotal fold mesenchyme of male
EMAP: 30739	L scrotal fold surface epithelium of male female reproductive system
EMAP: 30203	
EMAP: 30224	 ovary surface epithelium of ovary (syn: coelomic epithelium)
EMAP: 30232	
EMAP:30525 EMAP:30227	 tunica albuginea of ovary (syn: ovarian capsule) mesenchymal stroma of ovary
	cortical component of mesenchymal stroma
EMAP:30228 EMAP:31044	rest of cortical component of mesenchymal stroma of ovary
EMAP:31044 EMAP:31039	
EMAP: 30229	L medullary component of mesenchymal stroma
EMAP:31033	- meiotic oocytes
EMAP: 31245	- primordial follicle
EMAP: 31246	- oocyte of primordial follicle
EMAP: 31248	L follicle cell of primordial follicle (syn: granulosa cell)
EMAP:30231	- developing vasculature of ovary
EMAP:30225	rete ovarii of ovary
EMAP:30208	- mesovarium
EMAP:30219	- cystic vesicular appendage
EMAP:30218	- suspensory ligament of ovary
EMAP:30209	- Müllerian tubercle
EMAP:30214	- oviduct
EMAP:30215	epithelial layer of oviduct
EMAP:30216	muscle layer of oviduct
EMAP:30217	- outer layer of oviduct
EMAP:31218	developing vasculature of oviduct
EMAP:30205	- uterine horn (syn: uterus)
EMAP:30207	epithelium (syn: endometrium)
EMAP:30206	- muscular layer (syn: myometrium)
EMAP:31213	- developing vasculature of uterine horn
EMAP:30679	L outer layer of uterine horn
EMAP:30236	- vagina
EMAP:30237	lower part of vagina
EMAP:30238	epithelial layer of lower part of vagina
EMAP:30239	muscular layer of lower part of vagina
EMAP: 31228	developing vasculature of lower part of vagina
EMAP: 30240	upper part of vagina
EMAP: 30241	 epithelial layer of upper part of vagina muscular layer of upper part of vagina
EMAP:30242 EMAP:31223	developing vasculature of upper part of vagina
	genital tubercle of female (syn: clitoris anlage)
EMAP:30211 EMAP:30213	glans clitoris
EMAP:30723	surface epithelium of glans clitoris
EMAP:30728	L mesenchyme of glans clitoris
EMAP:30212	- crus of clitoris
EMAP:30733	- surface epithelium of crus of clitoris
EMAP:30728	mesenchyme of crus of clitoris
EMAP:30702	repuce of female
EMAP:30710	- prepuce surface epithelium of female
EMAP:30714	- preputial gland of female
EMAP:30706	prepuce mesenchyme of female
EMAP:30204	labial swelling (syn: labia)
EMAP:30442	surface epithelium of labial swelling
EMAP:30437	mesenchymal layer of labial swelling
EMAP:30220	inguinal canal
EMAP:30221	L inguinal ring
EMAP:30223	internal (syn: deep)
EMAP:30222	Lexternal (syn: superficial)

TS27 Groups

'G': Term is a group.

```
EMAP:30155
                mouse
EMAP:30154
                 L organ system
EMAP:30153
                     visceral organ
EMAP:30243
                        urinary system
EMAP:30247
                          metanephros (syn: kidney)
EMAP:30287
                             renal cortex
EMAP:30253
                                cortical renal tubule
EMAP:31824 G
                                  cortical renal tubule of capillary loop nephron GROUP
EMAP:31287
                                     anlage of loop of Henle (syn: primitive loop of Henle)
                                     early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP: 31642
                                     early proximal tubule of capillary loop nephron (syn: anlage of proximal tubule)
EMAP: 31707
                                     renal connecting tubule of capillary loop nephron
EMAP: 31627
                                  cortical renal tubule of maturing nephron GROUP
EMAP:31818 G
                                     early distal tubule of maturing nephron
EMAP: 31621
                                     early proximal tubule of maturing nephron
EMAP: 31615
                                     renal connecting tubule of maturing nephron
EMAP: 31633
EMAP:31793 G
                                  cortical renal tubule of mature nephron GROUP
EMAP: 30262
                                     distal convoluted tubule (syn: second convoluted tubule)
EMAP:30258
                                     distal straight tubule (syn: thick ascending limb)
EMAP:31382
                                       premacula segment of distal straight tubule
EMAP:30260
                                       macula densa
EMAP: 30259
                                       postmacula segment
EMAP:31636
                                     renal connecting tubule of mature nephron
EMAP:30256
                                     renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP: 30318 G
                                early tubule
EMAP:30316
                                  renal vesicle (syn: epithelial vesicle; stage I nephron)
                                    renal connecting segment of renal vesicle
EMAP: 31699
                                     distal renal vesicle
EMAP: 31730
                                     proximal renal vesicle
EMAP: 31724
                                  comma-shaped body
EMAP:30303
EMAP: 30304
                                    upper limb of comma-shaped body (syn: distal limb of comma-shaped body)
EMAP:30305
                                     lower limb of comma-shaped body (syn: proximal limb of comma-shaped body)
EMAP:31716
                                     renal connecting segment of comma-shaped body
EMAP: 30319
                                  s-shaped body (syn: stage II nephron)
                                    renal connecting tubule of s-shaped body
EMAP: 30324
EMAP: 30320
                                     distal segment of s-shaped body (syn: upper limb of s-shaped body)
EMAP: 30325
                                     medial segment of s-shaped body (syn: mid-portion of s-shaped body)
EMAP:30321
                                     proximal segment of s-shaped body (syn: lower limb of s-shaped body)
EMAP:30322
                                       visceral epithelium
EMAP:30323
                                     parietal epithelium
                                developing capillary loop stage nephron GROUP (syn: stage III nephron)
EMAP:30317 G
EMAP:30307
                                  capillary loop renal corpuscle (syn: renal corpuscle of the stage III nephron)
EMAP:30311
                                     associated interstitium of renal corpuscle
EMAP: 30312
                                     parietal epithelium
EMAP:30310
                                     presumptive endothelium of renal corpuscle
                                     presumptive mesangium
EMAP: 30309
                                     visceral epithelium (syn: podocyte layer)
EMAP: 30308
                                  cortical renal tubule
EMAP: 30253
                                     renal proximal tubule
EMAP: 30254
                                       early proximal tubule
EMAP: 30255
                                         early proximal tubule of capillary loop nephron (syn: anlage of proximal tubule)
EMAP: 31707
                                          early proximal tubule of maturing nephron
EMAP: 31615
                                       renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:30256
EMAP:31287
                                     anlage of loop of Henle (syn: primitive loop of Henle)
EMAP:30257
                                     renal distal tubule
EMAP: 30261
                                       early distal tubule
EMAP:31642
                                         early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP:31621
                                          early distal tubule of maturing nephron
EMAP: 30262
                                       distal convoluted tubule (svn: second convoluted tubule)
EMAP:30258
                                       distal straight tubule (syn: thick ascending limb)
EMAP:31382
                                         premacula segment of distal straight tubule
EMAP:30260
                                          macula densa
EMAP: 30259
                                          postmacula segment
EMAP:30263
                                     renal connecting tubule
                                     Frenal connecting tubule of capillary loop nephron
EMAP: 31627
                                       renal connecting tubule of maturing nephron
EMAP:31633
                                       renal connecting tubule of mature nephron
EMAP: 31636
                                     cortical renal tubule of capillary loop nephron GROUP
EMAP: 31824
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EMAP:31287	
EMAP:31642	early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP:31707	early proximal tubule of capillary loop nephron (syn: anlage of proximal tubule)
EMAP:31627	renal connecting tubule of capillary loop nephron
1	
EMAP:31818	cortical renal tubule of maturing nephron GROUP
EMAP:31621	early distal tubule of maturing nephron
EMAP:31615	
EMAP:31633	L renal connecting tubule of maturing nephron
EMAP:31793	cortical renal tubule of mature nephron GROUP
EMAP:30262	distal convoluted tubule (syn: second convoluted tubule)
EMAP:30258	distal straight tubule (syn: thick ascending limb)
EMAP:31382	premacula segment of distal straight tubule
EMAP:30260	
EMAP:30259	L postmacula segment
EMAP:31636	renal connecting tubule of mature nephron
EMAP:30256	renal proximal convoluted tubule (syn: first convoluted tubule)
1	maturing nephron (syn: stage IV nephron)
EMAP:30306 G	
EMAP:30264	maturing renal corpuscle (syn: renal corpuscle of Stage IV nephron)
EMAP:30268	
EMAP:30271	
EMAP:30270	
EMAP:30269	visceral epithelium (syn: podocyte layer)
:	
EMAP:30971	
EMAP:30272	Bowman's capsule (syn: glomerular capsule)
EMAP:30274	
EMAP:30273	
EMAP:30275	L glomerular mesangium of Bowman's capsule
EMAP:30265	juxtaglomerular arteriole
	afferent arteriole
EMAP:30266	
EMAP:30267	L efferent arteriole
EMAP:30253	L cortical renal tubule
EMAP:30254	renal proximal tubule
EMAP:30255	
EMAP:31707	
1	
EMAP:31615	
EMAP:30256	L renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:31287	
EMAP:30257	
EMAP:30261	
EMAP:31642	
:	
EMAP:31621	
EMAP:30262	distal convoluted tubule (syn: second convoluted tubule)
EMAP:30258	L distal straight tubule (syn: thick ascending limb)
EMAP:31382	premacula segment of distal straight tubule
EMAP:30260	macula densa
EMAP:30259	L postmacula segment
1	- renal connecting tubule
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EMAP:31818	cortical renal tubule of maturing nephron GROUP
EMAP:31621	
EMAP:31615	early proximal tubule of maturing nephron
EMAP:31633	L renal connecting tubule of maturing nephron
:	L cortical renal tubule of mature nephron GROUP
EMAP:31793	• • • • • • • • • • • • • • • • • • • •
EMAP:30262	distal convoluted tubule (syn: second convoluted tubule)
EMAP:30258	distal straight tubule (syn: thick ascending limb)
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EMAP:30260	macula densa
EMAP:30259	L postmacula segment
:	
EMAP:31636	renal connecting tubule of mature nephron
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EMAP:30314 G	- late tubule
EMAP:30307	capillary loop renal corpuscle (syn: renal corpuscle of the stage III nephron)
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EMAP:30312	presumptive endothelium of renal corpuscle
TUTT . 303T0	T T T T T Presumptive endotricition of renal corpuscie

EMAP:30309	
EMAP:30308	L visceral epithelium (syn: podocyte layer)
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	glomerular basement membrane
EMAP:30971	
EMAP:30272	Bowman's capsule (syn: glomerular capsule)
EMAP:30274	
EMAP:30273	
EMAP:30275	glomerular mesangium of Bowman's capsule
EMAP:30265	L juxtaglomerular arteriole
EMAP:30266	- afferent arteriole
EMAP:30267	
EMAP:30253	
EMAP:30254	- renal proximal tubule
EMAP:30255	- early proximal tubule
EMAP:31707	early proximal tubule of capillary loop nephron (syn: anlage of proximal tubule)
EMAP:31615	
EMAP:30256	
EMAP:31287	anlage of loop of Henle (syn: primitive loop of Henle)
EMAP:30257	- renal distal tubule
	- early distal tubule
EMAP:30261	
EMAP:31642	early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP:31621	
EMAP:30262	
EMAP:30258	L distal straight tubule (syn: thick ascending limb)
EMAP:31382	premacula segment of distal straight tubule
EMAP:30260	macula densa
EMAP:30259	
EMAP:30263	
EMAP:31627	
EMAP:31633	
EMAP:31636	renal connecting tubule of mature nephron
EMAP:31824	cortical renal tubule of capillary loop nephron GROUP
EMAP:31287	anlage of loop of Henle (syn: primitive loop of Henle)
EMAP:31642	early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP:31707	
EMAP:31627	l L renal connecting tubule of capillary loop nephron
EMAP:31818	cortical renal tubule of maturing nephron GROUP
EMAP:31621	- early distal tubule of maturing nephron
EMAP:31615	early proximal tubule of maturing nephron
EMAP:31633	
EMAP:31793	
EMAP:30262	distal convoluted tubule (syn: second convoluted tubule)
EMAP:30258	distal straight tubule (syn: thick ascending limb)
EMAP:31382	
EMAP:30260	
EMAP:30259	
EMAP:31636	
EMAP:30256	renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:30452 G	Liuxtaglomerular complex
EMAP:30299	
EMAP:30260	macula densa
EMAP:30297	L part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)
EMAP:30334	- renal medulla
EMAP:31498 G	│ │ │ │ └ Loop of Henle group
EMAP:30351	l loop of Henle, outer medullary portion
	thin descending limb
EMAP:30353	
EMAP:30352	thin ascending limb (syn: ascending thin limb)
EMAP:30356	proximal straight tubule (syn: pars recta; segment 3 of proximal tubule)
EMAP:30354	
EMAP:30339	l l l loop of Henle, inner medullary portion
EMAP:30341	thin descending limb
	bend (syn: U-turn)
EMAP:30340	
EMAP:30342	thin ascending limb (syn: ascending thin limb)
EMAP:30361 G	- early nephron GROUP (syn: early tubule)
EMAP:30253	
EMAP:30254	
EMAP:30255	- early proximal tubule
EMAP:31707	
TLTT. • OT 101	Garry proximal tabale of capitally loop neptrion (synt. amage of proximal tubule)

EMAP:31615	
EMAP:30256	
EMAP:31287	
EMAP:30257	
EMAP:30261	│
EMAP:31642	- early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP:31621	Learly distal tubule of maturing nephron
EMAP:30262	- distal convoluted tubule (syn: second convoluted tubule)
EMAP:30258	distal straight tubule (syn: thick ascending limb)
EMAP:31382	
EMAP:30260	
EMAP:30259	postmacula segment
EMAP:30263	renal connecting tubule
EMAP:31627	
EMAP:31633	renal connecting tubule of maturing nephron
EMAP:31636	renal connecting tubule of mature nephron
EMAP:31824	cortical renal tubule of capillary loop nephron GROUP
	anlage of loop of Henle (syn: primitive loop of Henle)
EMAP: 31287	early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP: 31642	
EMAP: 31707	early proximal tubule of capillary loop nephron (syn: anlage of proximal tubule)
EMAP:31627	I I I I I I I I I I I I I I I I I I I
EMAP:31818	cortical renal tubule of maturing nephron GROUP
EMAP: 31621	- early distal tubule of maturing nephron
EMAP:31615	
EMAP:31633	L renal connecting tubule of maturing nephron
EMAP:31793	L cortical renal tubule of mature nephron GROUP
EMAP:30262	distal convoluted tubule (syn: second convoluted tubule)
EMAP:30258	distal straight tubule (syn: thick ascending limb)
EMAP:31382	premacula segment of distal straight tubule
EMAP:30260	macula densa
EMAP:30259	L postmacula segment
EMAP:31636	renal connecting tubule of mature nephron
EMAP:30256	renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:30316	- renal vesicle (syn: epithelial vesicle; stage I nephron)
EMAP:31699	renal connecting segment of renal vesicle
EMAP:31730	distal renal vesicle
EMAP:31724	L proximal renal vesicle
EMAP:30303	
EMAP:30304	upper limb of comma-shaped body (syn: distal limb of comma-shaped body)
EMAP:30304 EMAP:30305	upper limb of comma-shaped body (syn: distal limb of comma-shaped body) lower limb of comma-shaped body (syn: proximal limb of comma-shaped body)
	upper limb of comma-shaped body (syn: distal limb of comma-shaped body) lower limb of comma-shaped body (syn: proximal limb of comma-shaped body) Lorentz connecting segment of comma-shaped body
EMAP:30305	upper limb of comma-shaped body (syn: distal limb of comma-shaped body) lower limb of comma-shaped body (syn: proximal limb of comma-shaped body) crenal connecting segment of comma-shaped body s-shaped body (syn: stage II nephron)
EMAP:30305 EMAP:31716	upper limb of comma-shaped body (syn: distal limb of comma-shaped body) lower limb of comma-shaped body (syn: proximal limb of comma-shaped body) Lorentz connecting segment of comma-shaped body
EMAP:30305 EMAP:31716 EMAP:30319	
EMAP:30305 EMAP:31716 EMAP:30319 EMAP:30324	
EMAP:30305 EMAP:31716 EMAP:30319 EMAP:30324 EMAP:30320	
EMAP:30305 EMAP:31716 EMAP:30319 EMAP:30324 EMAP:30320 EMAP:30325	
EMAP:30305 EMAP:31716 EMAP:30319 EMAP:30324 EMAP:30320 EMAP:30325 EMAP:30321	
EMAP:30305 EMAP:31716 EMAP:30319 EMAP:30324 EMAP:30320 EMAP:30325 EMAP:30321 EMAP:30322	
EMAP:30305 EMAP:31716 EMAP:30319 EMAP:30324 EMAP:30320 EMAP:30325 EMAP:30321 EMAP:30322 EMAP:30323	
EMAP:30305 EMAP:31716 EMAP:30319 EMAP:30324 EMAP:30320 EMAP:30325 EMAP:30321 EMAP:30322 EMAP:30323 EMAP:30307	
EMAP: 30305 EMAP: 31716 EMAP: 30319 EMAP: 30324 EMAP: 30320 EMAP: 30325 EMAP: 30321 EMAP: 30322 EMAP: 30323 EMAP: 30307 EMAP: 30311	
EMAP: 30305 EMAP: 31716 EMAP: 30319 EMAP: 30324 EMAP: 30325 EMAP: 30321 EMAP: 30321 EMAP: 30322 EMAP: 30323 EMAP: 30307 EMAP: 30311 EMAP: 30311	upper limb of comma-shaped body (syn: distal limb of comma-shaped body) lower limb of comma-shaped body (syn: proximal limb of comma-shaped body) renal connecting segment of comma-shaped body s-shaped body (syn: stage II nephron) renal connecting tubule of s-shaped body distal segment of s-shaped body (syn: upper limb of s-shaped body) medial segment of s-shaped body (syn: mid-portion of s-shaped body) proximal segment of s-shaped body (syn: lower limb of s-shaped body) proximal segment of s-shaped body (syn: lower limb of s-shaped body) prisceral epithelium parietal epithelium sassociated interstitium of renal corpuscle of the stage III nephron) associated interstitium of renal corpuscle parietal epithelium
EMAP:30305 EMAP:31716 EMAP:30319 EMAP:30324 EMAP:30325 EMAP:30321 EMAP:30322 EMAP:30323 EMAP:30307 EMAP:30311 EMAP:30311 EMAP:30312 EMAP:30310	
EMAP: 30305 EMAP: 31716 EMAP: 30319 EMAP: 30324 EMAP: 30325 EMAP: 30321 EMAP: 30322 EMAP: 30323 EMAP: 30307 EMAP: 30311 EMAP: 30312 EMAP: 30310 EMAP: 30309	
EMAP: 30305 EMAP: 31716 EMAP: 30319 EMAP: 30324 EMAP: 30325 EMAP: 30321 EMAP: 30322 EMAP: 30323 EMAP: 30307 EMAP: 30311 EMAP: 30312 EMAP: 30310 EMAP: 30309 EMAP: 30308	
EMAP: 30305 EMAP: 31716 EMAP: 30319 EMAP: 30324 EMAP: 30320 EMAP: 30325 EMAP: 30321 EMAP: 30322 EMAP: 30323 EMAP: 30307 EMAP: 30311 EMAP: 30312 EMAP: 30310 EMAP: 30309 EMAP: 30308 EMAP: 30264	
EMAP: 30305 EMAP: 31716 EMAP: 30319 EMAP: 30324 EMAP: 30320 EMAP: 30325 EMAP: 30321 EMAP: 30322 EMAP: 30323 EMAP: 30307 EMAP: 30311 EMAP: 30312 EMAP: 30310 EMAP: 30309 EMAP: 30308 EMAP: 30264 EMAP: 30268	
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EMAP: 30305 EMAP: 31716 EMAP: 30319 EMAP: 30324 EMAP: 30320 EMAP: 30325 EMAP: 30321 EMAP: 30322 EMAP: 30323 EMAP: 30307 EMAP: 30311 EMAP: 30312 EMAP: 30310 EMAP: 30309 EMAP: 30308 EMAP: 30264 EMAP: 30268 EMAP: 30271 EMAP: 30270 EMAP: 30270 EMAP: 30269	
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EMAP: 30305 EMAP: 31716 EMAP: 30319 EMAP: 30324 EMAP: 30320 EMAP: 30325 EMAP: 30321 EMAP: 30322 EMAP: 30323 EMAP: 30307 EMAP: 30311 EMAP: 30312 EMAP: 30310 EMAP: 30309 EMAP: 30308 EMAP: 30264 EMAP: 30264 EMAP: 30268 EMAP: 30271 EMAP: 30270 EMAP: 30270 EMAP: 30269 EMAP: 30971	
EMAP: 30305 EMAP: 31716 EMAP: 30319 EMAP: 30324 EMAP: 30320 EMAP: 30325 EMAP: 30321 EMAP: 30322 EMAP: 30323 EMAP: 30307 EMAP: 30311 EMAP: 30312 EMAP: 30310 EMAP: 30309 EMAP: 30308 EMAP: 30264 EMAP: 30264 EMAP: 30264 EMAP: 30268 EMAP: 30271 EMAP: 30271 EMAP: 30270 EMAP: 30270 EMAP: 30270 EMAP: 30271 EMAP: 30271	
EMAP: 30305 EMAP: 31716 EMAP: 30319 EMAP: 30324 EMAP: 30320 EMAP: 30325 EMAP: 30321 EMAP: 30322 EMAP: 30323 EMAP: 30311 EMAP: 30311 EMAP: 30310 EMAP: 30310 EMAP: 30309 EMAP: 30308 EMAP: 30264 EMAP: 30264 EMAP: 30264 EMAP: 30268 EMAP: 30271 EMAP: 30271 EMAP: 30271 EMAP: 30270 EMAP: 30270 EMAP: 30272 EMAP: 30272 EMAP: 30274	
EMAP: 30305 EMAP: 31716 EMAP: 30319 EMAP: 30324 EMAP: 30320 EMAP: 30325 EMAP: 30321 EMAP: 30322 EMAP: 30323 EMAP: 30307 EMAP: 30311 EMAP: 30312 EMAP: 30310 EMAP: 30309 EMAP: 30309 EMAP: 302064 EMAP: 30264 EMAP: 30271 EMAP: 30271 EMAP: 30271 EMAP: 30271 EMAP: 30272 EMAP: 30272 EMAP: 30274 EMAP: 30274	
EMAP: 30305 EMAP: 31716 EMAP: 30319 EMAP: 30324 EMAP: 30320 EMAP: 30325 EMAP: 30321 EMAP: 30322 EMAP: 30323 EMAP: 30307 EMAP: 30311 EMAP: 30312 EMAP: 30310 EMAP: 30309 EMAP: 30309 EMAP: 30264 EMAP: 30264 EMAP: 30271 EMAP: 30273 EMAP: 30273 EMAP: 30273 EMAP: 30273	
EMAP: 30305 EMAP: 31716 EMAP: 30319 EMAP: 30324 EMAP: 30320 EMAP: 30325 EMAP: 30321 EMAP: 30322 EMAP: 30323 EMAP: 30307 EMAP: 30311 EMAP: 30312 EMAP: 30310 EMAP: 30309 EMAP: 30308 EMAP: 30264 EMAP: 30264 EMAP: 30264 EMAP: 30271 EMAP: 30273 EMAP: 30275 EMAP: 30265 EMAP: 30266	upper limb of comma-shaped body (syn: distal limb of comma-shaped body) lower limb of comma-shaped body (syn: proximal limb of comma-shaped body) renal connecting segment of comma-shaped body s-shaped body (syn: stage II nephron) renal connecting tubule of s-shaped body distal segment of s-shaped body (syn: upper limb of s-shaped body) medial segment of s-shaped body (syn: mid-portion of s-shaped body) proximal segment of s-shaped body (syn: lower limb of s-shaped body) proximal segment of s-shaped body (syn: lower limb of s-shaped body) visceral epithelium parietal epithelium parietal epithelium of renal corpuscle of the stage III nephron) associated interstitium of renal corpuscle parietal epithelium of renal corpuscle presumptive endothelium of renal corpuscle presumptive mesangium visceral epithelium (syn: podocyte layer) maturing renal corpuscle (syn: renal corpuscle of Stage IV nephron) maturing glomerular tuft (syn: maturing glomerular) glomerular capillary system of maturing glomerular tuft glomerular mesangium visceral epithelium (syn: podocyte layer) glomerular basement membrane Bowman's capsule (syn: glomerular capsule) parietal epithelium urinary space of renal corpuscle (syn: Bowman's space) glomerular mesangium of Bowman's capsule juxtaglomerular arteriole afferent arteriole
EMAP: 30305 EMAP: 31716 EMAP: 30319 EMAP: 30324 EMAP: 30320 EMAP: 30325 EMAP: 30321 EMAP: 30322 EMAP: 30323 EMAP: 30307 EMAP: 30311 EMAP: 30312 EMAP: 30310 EMAP: 30309 EMAP: 30309 EMAP: 30264 EMAP: 30264 EMAP: 30264 EMAP: 30271 EMAP: 30271 EMAP: 30271 EMAP: 30271 EMAP: 30270 EMAP: 30271 EMAP: 30270	upper limb of comma-shaped body (syn: distal limb of comma-shaped body) lower limb of comma-shaped body (syn: proximal limb of comma-shaped body) renal connecting segment of comma-shaped body s-shaped body (syn: stage II nephron) renal connecting tubule of s-shaped body distal segment of s-shaped body (syn: upper limb of s-shaped body) medial segment of s-shaped body (syn: mid-portion of s-shaped body) proximal segment of s-shaped body (syn: lower limb of s-shaped body) proximal segment of s-shaped body (syn: lower limb of s-shaped body) proximal segment of s-shaped body (syn: lower limb of s-shaped body) proximal segment of s-shaped body (syn: lower limb of s-shaped body) proximal segment of s-shaped body (syn: lower limb of s-shaped body) proximal segment of s-shaped body (syn: lower limb of s-shaped body) proximal segment of s-shaped body (syn: lower limb of s-shaped body) proximal segment of s-shaped body (syn: mid-portion of s-shaped body) proximal segment of s-shaped body (syn: mid-portion of s-shaped body) proximal segment of s-shaped body (syn: limb of s-shaped body) proximal segment of s-shaped body (syn: mid-portion of s-shaped body) proximal segment of s-shaped body (syn: mid-portion of s-shaped body) proximal segment of s-shaped body (syn: mid-portion of s-shaped body) proximal segment of s-shaped body (syn: mid-portion of s-shaped body) proximal segment of s-shaped body (syn: mid-portion of s-shaped body) proximal segment of s-shaped body (syn: mid-portion of s-shaped body) proximal segment of s-shaped body (syn: mid-portion of s-shaped body) proximal segment of s-shaped body (syn: mid-portion of s-shaped body) proximal segment of s-shaped body (syn: mid-portion of s-shaped body) proximal segment of s-shaped body (syn: mid-portion of s-sha
EMAP: 30305 EMAP: 31716 EMAP: 30319 EMAP: 30324 EMAP: 30320 EMAP: 30325 EMAP: 30321 EMAP: 30322 EMAP: 30323 EMAP: 30307 EMAP: 30311 EMAP: 30312 EMAP: 30310 EMAP: 30309 EMAP: 30309 EMAP: 30264 EMAP: 30264 EMAP: 30264 EMAP: 30271 EMAP: 30271 EMAP: 30271 EMAP: 30270	upper limb of comma-shaped body (syn: distal limb of comma-shaped body) lower limb of comma-shaped body (syn: proximal limb of comma-shaped body) lend connecting segment of comma-shaped body s-shaped body (syn: stage II nephron) lend connecting tubule of s-shaped body distal segment of s-shaped body (syn: upper limb of s-shaped body) medial segment of s-shaped body (syn: mid-portion of s-shaped body) proximal segment of s-shaped body (syn: lower limb of s-shaped body) lend capillary loop renal corpuscle (syn: renal corpuscle of the stage III nephron) associated interstitium of renal corpuscle parietal epithelium presumptive endothelium of renal corpuscle presumptive mesangium lend capillary syn: podocyte layer) maturing renal corpuscle (syn: renal corpuscle of Stage IV nephron) maturing glomerular tuft (syn: maturing glomerular tuft glomerular capillary system of maturing glomerular tuft glomerular mesangium lend capillary system of maturing glomerular tuft glomerular basement membrane Bowman's capsule (syn: glomerular capsule) parietal epithelium urinary space of renal corpuscle (syn: Bowman's space) lend glomerular mesangium of Bowman's capsule lend glomerular arteriole lefferent arteriole lefferent arteriole lefferent arteriole lefferent arteriole lefferent arteriole lefferent arteriole
EMAP: 30305 EMAP: 31716 EMAP: 30319 EMAP: 30324 EMAP: 30320 EMAP: 30325 EMAP: 30321 EMAP: 30322 EMAP: 30323 EMAP: 30307 EMAP: 30311 EMAP: 30312 EMAP: 30310 EMAP: 30309 EMAP: 30309 EMAP: 30264 EMAP: 30264 EMAP: 30268 EMAP: 30271 EMAP: 30271 EMAP: 30271 EMAP: 30270 EMAP: 30271 EMAP: 30270 EMAP: 30271 EMAP: 30272 EMAP: 30272 EMAP: 30273 EMAP: 30273 EMAP: 30275 EMAP: 30266 EMAP: 30267 EMAP: 30289 EMAP: 30289 EMAP: 30291	upper limb of comma-shaped body (syn: distal limb of comma-shaped body) lower limb of comma-shaped body (syn: proximal limb of comma-shaped body) lend connecting segment of comma-shaped body s-shaped body (syn: stage II nephron) lend renal connecting tubule of s-shaped body distal segment of s-shaped body (syn: upper limb of s-shaped body) medial segment of s-shaped body (syn: mid-portion of s-shaped body) lend row
EMAP: 30305 EMAP: 31716 EMAP: 30319 EMAP: 30324 EMAP: 30320 EMAP: 30325 EMAP: 30321 EMAP: 30322 EMAP: 30323 EMAP: 30307 EMAP: 30311 EMAP: 30312 EMAP: 30310 EMAP: 30309 EMAP: 30309 EMAP: 30264 EMAP: 30264 EMAP: 30268 EMAP: 30271 EMAP: 30271 EMAP: 30270 EMAP: 30270	upper limb of comma-shaped body (syn: distal limb of comma-shaped body) lower limb of comma-shaped body (syn: proximal limb of comma-shaped body) lower limb of comma-shaped body (syn: proximal limb of comma-shaped body) lower limb of comma-shaped body (syn: enal connecting segment of comma-shaped body) lower limb of syn: stage II nephron) lower limb of syn: stage II nephron) lower limb of syn: shaped body (syn: upper limb of syn: shaped body) lower limb of syn: shaped body (syn: mid-portion of syn: shaped body) lower limb of syn: post body (syn: lower limb of syn: shaped body) lower limb of syn: lower limb of syn: shaped body) lower limb of syn: lower limb of syn: shaped body) lower limb of syn: lower limb of syn: lower limb of syn: shaped body) lower limb of syn: lower limb
EMAP: 30305 EMAP: 31716 EMAP: 30319 EMAP: 30324 EMAP: 30320 EMAP: 30325 EMAP: 30321 EMAP: 30322 EMAP: 30323 EMAP: 30307 EMAP: 30311 EMAP: 30312 EMAP: 30310 EMAP: 30309 EMAP: 30309 EMAP: 30264 EMAP: 30264 EMAP: 30268 EMAP: 30271 EMAP: 30271 EMAP: 30271 EMAP: 30270 EMAP: 30271 EMAP: 30270 EMAP: 30271 EMAP: 30272 EMAP: 30272 EMAP: 30273 EMAP: 30273 EMAP: 30275 EMAP: 30266 EMAP: 30267 EMAP: 30289 EMAP: 30289 EMAP: 30291	upper limb of comma-shaped body (syn: distal limb of comma-shaped body) lower limb of comma-shaped body (syn: proximal limb of comma-shaped body) lend connecting segment of comma-shaped body s-shaped body (syn: stage II nephron) lend renal connecting tubule of s-shaped body distal segment of s-shaped body (syn: upper limb of s-shaped body) medial segment of s-shaped body (syn: mid-portion of s-shaped body) lend row

EMAP:30292	L visceral epithelium (syn: podocyte layer)
EMAP:30300	
EMAP:30301 EMAP:30302	parietal epithelium urinary space of renal corpuscle (syn: Bowman's space)
EMAP:30296	afferent arteriole
EMAP:30297	
EMAP:30298	rest of afferent arteriole
EMAP:30290	- efferent arteriole
EMAP:30299	L extraglomerular mesangium
EMAP:30288 G	mature nephron
EMAP:30253	cortical renal tubule
EMAP:30254	renal proximal tubule
EMAP:30255	early proximal tubule
EMAP:31707	- early proximal tubule of capillary loop nephron (syn: anlage of proximal tubule)
EMAP: 31615	Learly proximal tubule of maturing nephron Learly proximal convoluted tubule (syn: first convoluted tubule)
EMAP:30256 EMAP:31287	anlage of loop of Henle (syn: primitive loop of Henle)
EMAP: 30257	
EMAP:30261	early distal tubule
EMAP:31642	early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP:31621	Learly distal tubule of maturing nephron
EMAP:30262	distal convoluted tubule (syn: second convoluted tubule)
EMAP:30258	distal straight tubule (syn: thick ascending limb)
EMAP:31382	- premacula segment of distal straight tubule
EMAP:30260	
EMAP:30259	L postmacula segment
EMAP:30263	renal connecting tubule
EMAP:31627	- renal connecting tubule of capillary loop nephron
EMAP:31633	renal connecting tubule of maturing nephron
EMAP:31636 EMAP:31824	
EMAP:31287	anlage of loop of Henle (syn: primitive loop of Henle)
EMAP:31642	early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP:31707	early proximal tubule of capillary loop nephron (syn: anlage of proximal tubule)
EMAP:31627	L renal connecting tubule of capillary loop nephron
EMAP:31818	cortical renal tubule of maturing nephron GROUP
EMAP:31621	early distal tubule of maturing nephron
EMAP:31615	early proximal tubule of maturing nephron
EMAP:31633	L renal connecting tubule of maturing nephron
EMAP:31793	L cortical renal tubule of mature nephron GROUP
EMAP:30262	distal convoluted tubule (syn: second convoluted tubule)
EMAP:30258	distal straight tubule (syn: thick ascending limb)
EMAP:31382	premacula segment of distal straight tubule
EMAP: 30260	macula densa L postmacula segment
EMAP:30259 EMAP:31636	- postriactia segment
EMAP:30256	L renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:31498	- Loop of Henle group
EMAP:30351	loop of Henle, outer medullary portion
EMAP:30353	thin descending limb
EMAP:30352	thin ascending limb (syn: ascending thin limb)
EMAP:30356	proximal straight tubule (syn: pars recta; segment 3 of proximal tubule)
EMAP:30354	premacula segment of distal straight tubule (syn: thick ascending limb)
EMAP:30339	L loop of Henle, inner medullary portion
EMAP:30341	thin descending limb
EMAP:30340	bend (syn: U-turn)
EMAP:30342	L thin ascending limb (syn: ascending thin limb)
EMAP: 30289	Land mature renal corpuscle (syn: Malpighian corpuscle)
EMAP:30291 EMAP:30294	
EMAP:30294	
EMAP:30293	- glomerular mesangidin
EMAP:30292	L visceral epithelium (syn: podocyte layer)
EMAP:30300	Bowman's capsule (syn: glomerular capsule)
EMAP:30301	parietal epithelium
EMAP:30302	urinary space of renal corpuscle (syn: Bowman's space)
EMAP:30296	afferent arteriole
EMAP:30297	part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)
EMAP:30298	L rest of afferent arteriole
EMAP:30290	- efferent arteriole
EMAP:30299	Leadle stign dust (sure unstarie tree)
EMAP:30280 G	collecting duct (syn: ureteric tree)

EMAP:30248	ureteric tip (syn: ureteric ampulla)
EMAP:31052	- ureteric tree terminal branch excluding tip itself
EMAP:30286	L ureteric trunk
EMAP:30281	cortical collecting duct
:	
EMAP:30349	- outer medullary collecting duct
EMAP:30336	inner medullary collecting duct (syn: papillary collecting duct)
EMAP:30286 G	- ureteric trunk
EMAP:30281	cortical collecting duct
EMAP:30349	
EMAP:30336	Linner medullary collecting duct (syn: papillary collecting duct)
EMAP:30362 G	- renal interstitium group
EMAP:30283	nephrogenic interstitium (syn: peripheral blastema)
EMAP:30311	
EMAP:30309	presumptive mesangium
EMAP:30270	- glomerular mesangium
EMAP:30295	- glomerular mesangium
EMAP:30299	- extraglomerular mesangium
EMAP:30315	- renal cortical interstitium (syn: cortical stroma)
EMAP:31294	
:	!!!!!
EMAP:31302	resident macrophages of the cortex (syn: renal monocytes of the cortex)
EMAP:31310	L rest of renal cortical interstitium
EMAP:31459	renal medullary interstitium (syn: medullary stroma)
EMAP:31331	renal medullary fibroblasts
EMAP:31338	resident macrophages of the medulla (syn: renal monocytes of the medulla)
EMAP:31345	
EMAP:30350	
EMAP:31387	
EMAP:31392	resident macrophage of the outer medulla (syn: renal monocytes of the outer medulla)
EMAP:31397	rest of outer medullary interstitium
EMAP:30337	
EMAP:31402	inner medullary fibroblast
EMAP:31407	resident macrophage of the inner medulla (syn: renal monocytes of the inner medulla)
EMAP:30279	perihilar interstitium
EMAP:31365	perihilar fibroblast
EMAP:31371	resident macrophage of the perihilar interstitium (syn: renal monocytes of the perihilar
interstitium)	
EMAP:31377	L rest of perihilar interstitium
EMAP:31474 G	small blood vessels
EMAP:30327	- renal cortical capillary
EMAP:30290	efferent arteriole
EMAP:30358	
EMAP:30296	- afferent arteriole
EMAP:30297	part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)
EMAP:30298	rest of afferent arteriole
EMAP:30294	glomerular capillary system
EMAP:30271	glomerular capillary system of maturing glomerular tuft
EMAP:30359	- renal medullary capillary (syn: vasa recta)
EMAP:30360	L renal medullary venous system
:	L renal capillaries
EMAP:31448 G	- Terial capillaries
EMAP:30294 EMAP:30327	
	renal cortical capillary
EMAP: 30359	Land renail medullary capillary (syn: vasa recta)
EMAP:31775 G	- developing vasculature of urinary system GROUP
EMAP: 30417	- renal vasculature
EMAP:30294	- glomerular capillary system
EMAP: 30271	
EMAP:30265	juxtaglomerular arteriole
EMAP:30266	afferent arteriole
EMAP:30267	L efferent arteriole
EMAP:30310	presumptive endothelium of renal corpuscle
EMAP:30244	Frenal artery
EMAP:30245	- endothelial layer of renal artery
EMAP:30465	endothelium of renal artery
EMAP:30246	L smooth muscle layer of renal artery
EMAP:30404	renal vein
EMAP:30405	endothelial layer of renal vein
EMAP:30466	endothelium of renal vein
EMAP:30406	L smooth muscle layer of renal vein
EMAP:30359	renal medullary capillary (syn: vasa recta)
EMAP:30330	interlobular artery
EMAP:30329	arcuate artery
EMAP:30296	- afferent arteriole
EMAP:30297	part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)

EMAP:30298	
EMAP:30333	- interlobular vein
EMAP:30332	L arcuate vein
	1 1 1
EMAP:30858	ureteral vasculature
EMAP:30417 G	- renal vasculature
EMAP:30294	
EMAP:30271	- glomerular capillary system of maturing glomerular tuft
EMAP:30265	
EMAP:30266	afferent arteriole
	efferent arteriole
EMAP:30267	1 1 1 2
EMAP:30310	presumptive endothelium of renal corpuscle
EMAP:30244	- renal artery
EMAP:30245	
EMAP:30465	
EMAP:30246	smooth muscle layer of renal artery
EMAP:30404	- renal vein
	endothelial layer of renal vein
EMAP:30405	
EMAP:30466	endothelium of renal vein
EMAP:30406	L smooth muscle layer of renal vein
EMAP:30359	- renal medullary capillary (syn: vasa recta)
EMAP:30330	
EMAP:30329	- arcuate artery
EMAP:30296	- afferent arteriole
	part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)
EMAP:30297	
EMAP:30298	rest of afferent arteriole
EMAP:30333	- interlobular vein
EMAP:30332	
EMAP:31441 G	- renal arterial system
EMAP:30244	- renal artery
EMAP:30245	endothelial layer of renal artery
EMAP:30465	
EMAP:30246	Smooth muscle layer of renal artery
EMAP:30330	
EMAP:30329	
EMAP:30358	
EMAP:31455 G	renal venous system
EMAP:30404	l I I - renal vein
EMAP:30405	endothelial layer of renal vein
EMAP:30466	
EMAP:30406	L smooth muscle layer of renal vein
EMAP:30333	- interlobular vein
EMAP:30332	
EMAP:30296	
EMAP:30297	
EMAP:30298	rest of afferent arteriole
	- efferent arteriole
EMAP:30290	!!!!
EMAP:30360	renal medullary venous system
EMAP:31811 G	L nerves of urethra GROUP
EMAP:31799	nerve of pelvic urethra of female
EMAP:31789	
EMAP:31740	- nerve of phallic urethra of female
EMAP:31805	nerve of phallic urethra of male
EMAP:30156	L reproductive system
EMAP:30157	- reproductive system
	, , , , , , , , , , , , , , , , , , ,
EMAP:30199	
EMAP:31008 G	epithelium of epididymis
EMAP:30615	- epithelium of caput of epididymis
EMAP:30603	epithelium of corpus epididymis
EMAP:30591	epithelium of cauda of epididymis
EMAP:31016 G	- muscle layer of epididymis
EMAP:30619	muscle layer of caput of epididymis
EMAP:30607	muscle layer of corpus of epididymis
EMAP:30595	L muscle layer of cauda of epididymis
EMAP:31012 G	adventitia of epididymis
EMAP:30623	- adventitia of caput of epididymis
EMAP:30611	- adventitia of corpus of epididymis
EMAP:30599	adventitia of cauda of epididymis
EMAP:31239 G	developing vasculature system of epididymis
EMAP:31208	developing vasculature of caput epididymis
EMAP:31203	developing vasculature of corpus epididymis
EMAP:31198	developing vasculature of cauda epididymis
EMAP:30982 G	L male external genitalia

EMAP:30161	penis (syn: genital tubercle of male)
EMAP:30162	glans penis
EMAP:30649	surface epithelium of glans penis
EMAP:30645	mesenchyme of glans penis
EMAP:30164	crus penis
EMAP:30671	surface epithelium of crus penis
EMAP:30667	mesenchyme of crus penis
EMAP:30163	prepuce of male
EMAP:30658	prepuce surface epithelium of male
EMAP:30662	preputial gland of male
EMAP:30653	prepuce mesenchyme of male
EMAP:30736	scrotal fold
EMAP:30742	- scrotal fold mesenchyme of male
EMAP:30739	scrotal fold surface epithelium of male
EMAP:30203	female reproductive system
EMAP:30224	ovary
EMAP:31062 G	L ovigerous cord
EMAP:31033	meiotic oocytes
EMAP:31039	pre-granulosa cell
EMAP:30236	vagina
EMAP:30995 G	epithelium of vagina
EMAP:30238	epithelial layer of lower part of vagina
EMAP:30241	L epithelial layer of upper part of vagina
EMAP:31001 G	muscular layer of vagina
EMAP:30239	muscular layer of lower part of vagina
EMAP:30242	muscular layer of upper part of vagina
EMAP:31233 G	developing vasculature of vagina
EMAP:31228	- developing vasculature of lower part of vagina
EMAP:31223	developing vasculature of upper part of vagina
EMAP:30989 G	Legislation Legislation
EMAP:30211	genital tubercle of female (syn: clitoris anlage)
EMAP:30213	- glans clitoris
EMAP:30723	surface epithelium of glans clitoris
EMAP: 30718	L mesenchyme of glans clitoris
EMAP: 30212	crus of clitoris
EMAP: 30733	- surface epithelium of crus of clitoris mesenchyme of crus of clitoris
EMAP:30728 EMAP:30702	
EMAP:30710 EMAP:30714	
EMAP:30714 EMAP:30706	L preputial grand of female
EMAP:30204	Labial swelling (syn: labia)
EMAP:30442	surface epithelium of labial swelling
EMAP:30437	L mesenchymal layer of labial swelling
EMAP:31784 G	developing vasculature of reproductive system GROUP
EMAP:30231	
EMAP:30172	developing vasculature of ovary developing vasculature of the testis coelomic vessel
EMAP:30172	- developing vasculature of the testis
EMAP:30173	L interstitial vessel
EMAP:311467 G	L large blood vessels
EMAP:30329	- arcuate artery
EMAP:30332	- arcuate vein
EMAP:30330	- interlobular artery
EMAP:30333	interlobular vein