

TS28 urinary and reproductive systems (P4 - Adult)

EMAP:27551 mouse
 EMAP:27553 └ organ system
 EMAP:27555 └ visceral organ
 EMAP:27559 └ urinary system
 EMAP:29477 └ mesentery
 EMAP:29617 └ rest of mesentery
 EMAP:29478 └ urogenital mesentery
 EMAP:29491 └ metanephros (syn: kidney)
 EMAP:29598 └ renal capsule
 EMAP:29561 └ nephrogenic zone
 EMAP:29564 └ nephrogenic interstitium (syn: peripheral blastema)
 EMAP:29562 └ cap mesenchyme (syn: condensed mesenchyme)
 EMAP:29565 └ pretubular aggregate (syn: pretubular condensate)
 EMAP:29563 └ ureteric tip (syn: ureteric ampulla)
 EMAP:31053 └ ureteric tree terminal branch excluding tip itself
 EMAP:29492 └ renal cortex
 EMAP:29525 └ mature renal corpuscle (syn: Malpighian corpuscle)
 EMAP:29529 └ glomerular tuft (syn: glomerulus)
 EMAP:29533 └ glomerular capillary system
 EMAP:29530 └ glomerular mesangium
 EMAP:29532 └ glomerular basement membrane
 EMAP:29531 └ visceral epithelium of mature renal corpuscle (syn: podocyte layer)
 EMAP:29526 └ Bowman's capsule (syn: glomerular capsule)
 EMAP:29528 └ parietal epithelium
 EMAP:29527 └ urinary space of renal corpuscle (syn: Bowman's space)
 EMAP:29536 └ afferent arteriole
 EMAP:29537 └ part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)
 EMAP:29538 └ rest of afferent arteriole
 EMAP:29535 └ efferent arteriole
 EMAP:29534 └ extraglomerular mesangium
 EMAP:29499 └ cortical renal tubule
 EMAP:29500 └ renal proximal tubule
 EMAP:29502 └ renal proximal convoluted tubule (syn: first convoluted tubule)
 EMAP:29658 └ segment 1 of proximal tubule
 EMAP:29660 └ segment 2 of proximal tubule
 EMAP:29662 └ renal proximal straight tubule (syn: pars recta; segment 3 of proximal tubule)
 EMAP:29503 └ renal distal tubule
 EMAP:29508 └ distal convoluted tubule (syn: second convoluted tubule)
 EMAP:29505 └ distal straight tubule (syn: thick ascending limb)
 EMAP:31383 └ premacula segment of distal straight tubule
 EMAP:29507 └ macula densa
 EMAP:29506 └ postmacula segment of distal straight tubule
 EMAP:29509 └ renal connecting tubule
 EMAP:29520 └ cortical collecting duct
 EMAP:29521 └ renal cortical interstitium (syn: cortical stroma)
 EMAP:31295 └ renal cortical fibroblasts
 EMAP:31427 └ perirarterial fibroblasts of cortex
 EMAP:31425 └ peritubular fibroblasts of cortex
 EMAP:31303 └ resident macrophages of the cortex (syn: renal monocytes of the cortex)
 EMAP:31311 └ rest of renal cortical interstitium
 EMAP:29549 └ renal cortical vasculature
 EMAP:29550 └ renal cortical arterial system
 EMAP:29552 └ interlobular artery
 EMAP:29551 └ arcuate artery
 EMAP:29553 └ renal cortical venous system
 EMAP:29554 └ interlobular vein
 EMAP:29555 └ arcuate vein
 EMAP:30042 └ renal cortical capillary
 EMAP:31318 └ renal cortical lymphatics
 EMAP:31325 └ renal cortical nerves
 EMAP:29566 └ renal medulla
 EMAP:29567 └ outer medulla
 EMAP:31490 └ loop of Henle, outer medullary portion
 EMAP:31492 └ thin descending limb
 EMAP:31493 └ thin ascending limb (syn: ascending thin limb)
 EMAP:31491 └ proximal straight tubule (syn: pars recta; segment 3 of proximal tubule)
 EMAP:31494 └ premacula segment of distal straight tubule (syn: thick ascending limb)
 EMAP:29982 └ outer medullary interstitium
 EMAP:31388 └ outer medullary fibroblast
 EMAP:31431 └ perirarterial fibroblasts of outer medulla

EMAP:31429				peritubular fibroblasts of outer medulla
EMAP:31393				resident macrophage of the outer medulla (syn: renal monocytes of the outer medulla)
EMAP:31398				rest of outer medullary interstitium
EMAP:29664			-	outer stripe of outer medulla
EMAP:29666				loop of Henle
EMAP:29670				proximal straight tubule (syn: pars recta; segment 3 of proximal tubule)
EMAP:29672				distal straight tubule (syn: thick ascending limb)
EMAP:29678			-	inner stripe of outer medulla
EMAP:29680				loop of Henle
EMAP:29682				thin descending limb
EMAP:29684				premacula segment of distal straight tubule (syn: thick ascending limb)
EMAP:29983				outer medullary collecting duct
EMAP:29581			-	inner medulla (syn: papilla)
EMAP:29583				loop of Henle, inner medullary portion
EMAP:29584				thin descending limb
EMAP:29586				bend (syn: U-turn)
EMAP:29585				thin ascending limb (syn: ascending thin limb)
EMAP:29582			-	inner medullary interstitium (syn: papillary interstitium)
EMAP:31403				inner medullary fibroblast
EMAP:31435				periarterial fibroblasts of inner medulla
EMAP:31433				peritubular fibroblasts of inner medulla
EMAP:31408				resident macrophage of the inner medulla (syn: renal monocytes of the inner medulla)
EMAP:32570				rest of inner medullary interstitium
EMAP:29587				inner medullary collecting duct (syn: papillary collecting duct)
EMAP:29589			-	renal medullary vasculature
EMAP:29590				renal medullary arterial system
EMAP:29591				renal medullary venous system
EMAP:30048				renal medullary capillary (syn: vasa recta)
EMAP:31353			-	renal medullary lymphatics
EMAP:31360				renal medullary nerves
EMAP:29595			-	calyx
EMAP:29597				major
EMAP:29596				minor
EMAP:29557			-	pelvis
EMAP:29559				pelvic urothelial lining (syn: pelvic urothelium)
EMAP:29560				pelvic smooth muscle
EMAP:29558				perihilar interstitium
EMAP:31366				perihilar fibroblast
EMAP:31372				resident macrophage of the perihilar interstitium (syn: renal monocytes of the perihilar interstitium)
EMAP:31378				rest of perihilar interstitium
EMAP:29442			-	renal artery
EMAP:29981				endothelial layer of renal artery
EMAP:30002				endothelium of renal artery
EMAP:30010				smooth muscle layer of renal artery
EMAP:29441			-	renal vein
EMAP:29969				endothelial layer of renal vein
EMAP:30018				endothelium of renal vein
EMAP:30026				smooth muscle layer of renal vein
EMAP:29692			-	renal nerve
EMAP:29479			-	ureter
EMAP:29482				urothelium of ureter (syn: transitional epithelium)
EMAP:29483				superficial cell layer of ureter (syn: umbrella cell)
EMAP:29485				intermediate cell layer of ureter
EMAP:29486				basal cell layer of ureter
EMAP:29481			-	lamina propria
EMAP:29488				ureteral smooth muscle layer
EMAP:29634				inner longitudinal muscle
EMAP:29636				outer circular muscle
EMAP:29489				interstitium (syn: Cajal cell)
EMAP:29480			-	adventitia of ureter
EMAP:30859				ureteral vasculature
EMAP:29638			-	median umbilical ligament
EMAP:29457			-	bladder
EMAP:29462				urothelium of bladder (syn: epithelium of bladder)
EMAP:32381				superficial cell layer of bladder
EMAP:32388				basal cell layer of bladder
EMAP:29463				urothelium of fundus
EMAP:29464				urothelium of trigone
EMAP:30087				urothelium of neck
EMAP:30094			-	lamina propria of bladder
EMAP:30108				lamina propria of fundus

EMAP:30115		lamina propria of trigone
EMAP:30122		lamina propria of neck
EMAP:29459		muscularis mucosa of bladder
EMAP:29460		muscularis mucosa of fundus
EMAP:29461		muscularis mucosa of trigone
EMAP:30143		muscularis mucosa of neck
EMAP:32395		submucosa of bladder
EMAP:32409		submucosa of fundus
EMAP:32508		submucosa of trigone
EMAP:32402		submucosa of neck
EMAP:29468		detrusor muscle of bladder
EMAP:29470		detrusor muscle of fundus
EMAP:29469		detrusor muscle of trigone
EMAP:30129		detrusor muscle of neck
EMAP:29471		serosa of bladder
EMAP:29473		serosa of fundus
EMAP:29472		serosa of trigone
EMAP:30136		serosa of neck
EMAP:29465		adventitia of bladder
EMAP:29467		adventitia of fundus
EMAP:29466		adventitia of trigone
EMAP:30149		adventitia of neck
EMAP:29474		vasculature of bladder (syn: blood vessel of bladder)
EMAP:31660		nerve of bladder
EMAP:29600		urachus
EMAP:29443		urethra of female
EMAP:30961		pelvic urethra of female
EMAP:30963		urothelium of pelvic urethra of female
EMAP:32351		urothelium of dorsal pelvic urethra of female
EMAP:32358		superficial cell layer of dorsal pelvic urethra of female
EMAP:32520		intermediate cell layer of dorsal pelvic urethra of female
EMAP:32364		basal cell layer of dorsal pelvic urethra of female
EMAP:32425		urothelium of ventral pelvic urethra of female
EMAP:32461		superficial cell layer of ventral pelvic urethra of female
EMAP:32514		intermediate cell layer of ventral pelvic urethra of female
EMAP:32467		basal cell layer of ventral pelvic urethra of female
EMAP:30964		mesenchymal layer of pelvic urethra of female
EMAP:32581		mesenchymal layer of dorsal pelvic urethra of female
EMAP:32483		lamina propria of dorsal pelvic urethra of female (syn: peri-epithelial mesenchymal layer of dorsal pelvic urethra of female; sub-epithelial mesenchymal layer of dorsal pelvic urethra of female)
EMAP:32479		muscularis mucosa of dorsal pelvic urethra of female
EMAP:32550		submucosa of dorsal pelvic urethra of female
EMAP:32578		mesenchymal layer of ventral pelvic urethra of female
EMAP:32538		lamina propria of ventral pelvic urethra of female (syn: peri-epithelial mesenchymal layer of ventral pelvic urethra of female; sub-epithelial mesenchymal layer of ventral pelvic urethra of female)
EMAP:32534		muscularis mucosa of ventral pelvic urethra of female
EMAP:32530		submucosa of ventral pelvic urethra of female
EMAP:30962		muscle layer of pelvic urethra of female
EMAP:32429		vasculature of pelvic urethra of female
EMAP:31800		nerve of pelvic urethra of female
EMAP:30923		phallic urethra of female (syn: external urethra of female)
EMAP:30958		urothelium of phallic urethra of female
EMAP:30959		mesenchymal layer of phallic urethra of female
EMAP:30960		muscle layer of phallic urethra of female
EMAP:31741		nerve of phallic urethra of female
EMAP:29654		female urethral gland
EMAP:29448		urethra of male
EMAP:29449		pelvic urethra of male
EMAP:29450		urothelium of pelvic urethra of male
EMAP:32498		urothelium of dorsal pelvic urethra of male
EMAP:32345		superficial cell layer of dorsal pelvic urethra of male
EMAP:32526		intermediate cell layer of dorsal pelvic urethra of male
EMAP:32329		basal cell layer of dorsal pelvic urethra of male
EMAP:32320		urothelium of ventral pelvic urethra of male
EMAP:32435		superficial cell layer of ventral pelvic urethra of male
EMAP:32556		intermediate cell layer of ventral pelvic urethra of male
EMAP:32335		basal cell layer of ventral pelvic urethra of male
EMAP:29451		mesenchymal layer of pelvic urethra of male
EMAP:32575		mesenchymal layer of dorsal pelvic urethra of male
EMAP:32542		lamina propria of dorsal pelvic urethra of male (syn: peri-epithelial mesenchymal layer of dorsal pelvic urethra of male; sub-epithelial mesenchymal layer of dorsal pelvic urethra of male)
EMAP:32546		muscularis mucosa of dorsal pelvic urethra of male

EMAP:32471				└ submucosa of dorsal pelvic urethra of male
EMAP:32584				└ mesenchymal layer of ventral pelvic urethra of male
EMAP:32475				└ lamina propria of ventral pelvic urethra of male (syn: peri-epithelial mesenchymal layer of ventral pelvic urethra of male; sub-epithelial mesenchymal layer of ventral pelvic urethra of male)
EMAP:32487				└ muscularis mucosa of ventral pelvic urethra of male
EMAP:32491				└ submucosa of ventral pelvic urethra of male
EMAP:29452				└ muscle layer of pelvic urethra of male
EMAP:32339				└ vasculature of pelvic urethra of male
EMAP:31790				└ nerve of pelvic urethra of male
EMAP:30943				└ prostatic urethra
EMAP:30953				└ urothelium of prostatic urethra
EMAP:32365				└ superficial cell layer of prostatic urethra (syn: superficial epithelial layer of prostatic urethra)
EMAP:32492				└ intermediate cell layer of prostatic urethra
EMAP:32371				└ basal cell layer of prostatic urethra
EMAP:30955				└ mesenchymal layer of prostatic urethra
EMAP:32501				└ lamina propria of prostatic urethra
EMAP:32500				└ muscularis mucosa of prostatic urethra
EMAP:32499				└ submucosa of prostatic urethra
EMAP:30957				└ muscle layer of prostatic urethra
EMAP:32410				└ smooth muscle layer of prostatic urethra
EMAP:32366				└ striated muscle layer of prostatic urethra
EMAP:32352				└ vasculature of prostatic urethra
EMAP:32411				└ nerve of prostatic urethra
EMAP:30945				└ penile urethra
EMAP:30947				└ urothelium of penile urethra
EMAP:30949				└ mesenchymal layer of penile urethra
EMAP:30951				└ muscle layer of penile urethra
EMAP:29640				└ bulbar part of urethra of male
EMAP:29642				└ distal region of urethra of male
EMAP:29646				└ male urethral gland
EMAP:29475				└ urorectal septum
EMAP:31649				└ pelvic ganglion
EMAP:29601				└ reproductive system
EMAP:29348				└ male reproductive system
EMAP:29352				└ testis
EMAP:29358				└ rete testis
EMAP:29359				└ interstitium of the testis (syn: interstitial tissue)
EMAP:29656				└ Leydig cell
EMAP:29361				└ rest of interstitium of the testis (syn: non-specific mesenchyme)
EMAP:29364				└ tunica vaginalis testis
EMAP:31477				└ Seminiferous tubule
EMAP:31479				└ Sertoli cell
EMAP:31483				└ spermatogonium
EMAP:31485				└ spermatocyte
EMAP:31487				└ spermatid
EMAP:31489				└ spermatozoan
EMAP:31481				└ peritubular myoid cell
EMAP:29362				└ mediastinum testis
EMAP:29363				└ tunica albuginea of testis
EMAP:31244				└ surface epithelium of testis
EMAP:29604				└ vasculature of testis
EMAP:29606				└ coelomic vessel
EMAP:29608				└ interstitial vessel
EMAP:29732				└ testicular branch of genital nerve
EMAP:31259				└ cremaster muscle
EMAP:29386				└ cystic vesicular appendage
EMAP:29374				└ inguinal canal
EMAP:29392				└ inguinal ring
EMAP:29393				└ external inguinal ring
EMAP:29394				└ internal inguinal ring
EMAP:29349				└ seminal vesicle (syn: vesicular seminalis)
EMAP:29772				└ epithelial layer of seminal vesicle
EMAP:29774				└ muscle layer of seminal vesicle
EMAP:29776				└ adventitia of seminal vesicle
EMAP:30798				└ vasculature of seminal vesicle
EMAP:29385				└ efferent duct of seminal vesicle (syn: vasa efferentia)
EMAP:29748				└ epithelial layer of efferent duct
EMAP:29750				└ rest of efferent duct
EMAP:29370				└ epididymis
EMAP:29373				└ caput epididymis
EMAP:29762				└ epithelium of caput of epididymis
EMAP:29764				└ muscle layer of caput of epididymis

EMAP:29766		└ adventitia of caput of epididymis
EMAP:29371		└ cauda epididymis
EMAP:29694		└ epithelium of cauda of epididymis
EMAP:29752		└ muscle layer of cauda of epididymis
EMAP:29754		└ adventitia of cauda of epididymis
EMAP:29372		└ corpus epididymis
EMAP:29756		└ epithelium of corpus epididymis
EMAP:29758		└ muscle layer of corpus of epididymis
EMAP:29760		└ adventitia of corpus of epididymis
EMAP:30796		└ vasculature of epididymis
EMAP:29377		└ ductus deferens (syn: vas deferens)
EMAP:29378		└ epithelium of ductus deferens
EMAP:29379		└ muscle layer of ductus deferens
EMAP:30056		└ circular muscle layer of ductus deferens
EMAP:30058		└ longitudinal muscle layer of ductus deferens
EMAP:29768		└ adventitia of ductus deferens
EMAP:30794		└ vasculature of ductus deferens
EMAP:29391		└ appendix epididymis
EMAP:29395		└ appendix testis
EMAP:29387		└ ejaculatory duct
EMAP:29787		└ epithelial layer of ejaculatory duct
EMAP:32450		└ muscle layer of ejaculatory duct
EMAP:30800		└ vasculature of ejaculatory duct
EMAP:29779		└ male accessory gland
EMAP:29782		└ bulbourethral gland (syn: Cowper's gland)
EMAP:29791		└ epithelial component of bulbourethral gland
EMAP:29793		└ interstitium of bulbourethral gland
EMAP:30804		└ vasculature of bulbourethral gland
EMAP:29785		└ prostate gland
EMAP:32455		└ epithelial layer of prostate gland
EMAP:32419		└ peri-prostatic mesenchyme of prostate gland
EMAP:29795		└ anterior prostate gland (syn: coagulating gland)
EMAP:29797		└ anterior prostatic epithelium
EMAP:29799		└ glandular epithelium of anterior prostate (syn: luminal epithelium; secretory epithelium)
EMAP:29801		└ basal epithelium of anterior prostate
EMAP:29803		└ anterior prostatic interstitium
EMAP:29805		└ smooth muscle of anterior prostate
EMAP:29807		└ rest of interstitium of anterior prostate
EMAP:29809		└ dorsal prostate gland
EMAP:29811		└ dorsal prostatic epithelium
EMAP:29813		└ glandular epithelium of dorsal prostate (syn: luminal epithelium; secretory epithelium)
EMAP:29815		└ basal epithelium of dorsal prostate
EMAP:29817		└ dorsal prostatic interstitium
EMAP:29819		└ smooth muscle of dorsal prostate
EMAP:29821		└ rest of interstitium of dorsal prostate
EMAP:29823		└ lateral prostate gland
EMAP:29825		└ lateral prostatic epithelium
EMAP:29827		└ glandular epithelium of lateral prostate (syn: luminal epithelium; secretory epithelium)
EMAP:29829		└ basal epithelium of lateral prostate
EMAP:29831		└ lateral prostatic interstitium
EMAP:29833		└ smooth muscle of lateral prostate
EMAP:29835		└ rest of interstitium of lateral prostate
EMAP:29837		└ ventral prostate gland
EMAP:29839		└ ventral prostatic epithelium
EMAP:29841		└ glandular epithelium of ventral prostate (syn: luminal epithelium; secretory epithelium)
EMAP:29843		└ basal epithelium of ventral prostate
EMAP:29845		└ ventral prostatic interstitium
EMAP:29847		└ smooth muscle of ventral prostate
EMAP:29849		└ rest of interstitium of ventral prostate
EMAP:30806		└ vasculature of prostate gland
EMAP:32436		└ nerve of prostate gland
EMAP:29369		└ gubernaculum (syn: caudal suspensory ligament)
EMAP:30063		└ mesorchium
EMAP:29380		└ penis (syn: genital tubercle of male)
EMAP:29383		└ glans penis
EMAP:29859		└ epithelial layer of glans penis
EMAP:29857		└ corpus spongiosum
EMAP:29861		└ rest of glans penis
EMAP:29381		└ crus penis
EMAP:29770		└ os penis
EMAP:29851		└ corpus spongiosum
EMAP:29853		└ epithelial layer of crus penis

EMAP:29855	L rest of crus penis
EMAP:29382	prepuce of male
EMAP:30808	L vasculature of penis
EMAP:29384	scrotum
EMAP:29734	epidermal layer of scrotum
EMAP:29736	basal layer
EMAP:29738	stratified layer
EMAP:29740	dermal layer of scrotum
EMAP:29742	hair follicle
EMAP:29744	sweat gland
EMAP:29746	septum of scrotum
EMAP:30792	L vasculature of scrotum
EMAP:29396	female reproductive system
EMAP:29419	ovary
EMAP:30527	surface epithelium of ovary (syn: coelomic epithelium)
EMAP:30526	tunica albuginea of ovary (syn: ovarian capsule)
EMAP:29423	mesenchymal stroma of ovary
EMAP:29424	cortical component of mesenchymal stroma
EMAP:29425	medullary component of mesenchymal stroma
EMAP:31034	meiotic oocytes
EMAP:30756	primordial follicle
EMAP:30758	oocyte of primordial follicle
EMAP:31249	follicle cell of primordial follicle (syn: granulosa cell)
EMAP:29427	primary follicle
EMAP:29429	primary oocyte of primary follicle
EMAP:29428	follicle cell of primary follicle (syn: granulosa cell of primary follicle)
EMAP:29863	secondary follicle (syn: antral follicle)
EMAP:29865	oocyte of secondary follicle
EMAP:29867	follicle cell of secondary follicle (syn: granulosa cell of secondary follicle)
EMAP:29869	cumulus of secondary follicle
EMAP:29871	mural of secondary follicle
EMAP:29873	theca of secondary follicle
EMAP:30764	tertiary follicle (syn: antral follicle)
EMAP:30766	oocyte of tertiary follicle
EMAP:30768	follicle cell of tertiary follicle (syn: granulosa cell of tertiary follicle)
EMAP:30774	cumulus of tertiary follicle
EMAP:30776	mural of tertiary follicle
EMAP:30772	antrum of tertiary follicle
EMAP:30770	theca of tertiary follicle
EMAP:30778	Graafian follicle (syn: pre-ovulatory follicle)
EMAP:30780	primary oocyte of mature follicle
EMAP:30782	germinal cell of mature follicle (syn: granulosa)
EMAP:30784	cumulus of mature follicle
EMAP:30786	mural of mature follicle
EMAP:30790	antrum of mature follicle
EMAP:30788	theca of mature follicle
EMAP:29881	ruptured follicle (syn: ovulated follicle)
EMAP:29885	germinal cell of ruptured follicle (syn: granulosa)
EMAP:31263	granulosa of ruptured follicle
EMAP:29883	theca of ruptured follicle
EMAP:29887	corpus luteum
EMAP:29875	atretic follicle
EMAP:29877	oocyte of atretic follicle
EMAP:29879	apoptotic germinal cell (syn: apoptotic granulosa)
EMAP:31261	theca of atretic follicle
EMAP:29896	corpus albicans
EMAP:29422	rete ovarii of ovary
EMAP:29632	L vasculature of the ovary
EMAP:29400	mesovarium
EMAP:29404	cystic vesicular appendage
EMAP:29418	suspensory ligament of ovary
EMAP:29399	Mullerian tubercle
EMAP:29430	oviduct
EMAP:29898	infundibulum
EMAP:29900	epithelial layer of infundibulum
EMAP:31265	muscle layer of infundibulum
EMAP:31269	circular muscle layer of infundibulum
EMAP:31267	longitudinal muscle layer of infundibulum
EMAP:29904	serosa of infundibulum
EMAP:30810	vasculature of oviduct
EMAP:29906	rest of oviduct
EMAP:29908	epithelial layer of rest of oviduct

EMAP:30050	muscle layer of rest of oviduct
EMAP:30054	longitudinal muscle layer of rest of oviduct
EMAP:30052	circular muscle layer of rest of oviduct
EMAP:29914	serosa of rest of oviduct
EMAP:29916	- uterus
EMAP:29918	endometrium
EMAP:29920	uterine gland
EMAP:29922	rest of endometrium
EMAP:29924	- myometrium
EMAP:29926	- adventitia
EMAP:29928	- cervix uteri
EMAP:29930	epithelial layer of cervix uteri
EMAP:29932	muscle layer of cervix uteri
EMAP:29934	adventitia of cervix uteri
EMAP:30812	vasculature of uterus
EMAP:29408	- vagina
EMAP:29409	lower part of vagina (syn: sinus vagina)
EMAP:29410	epithelial layer of lower part of vagina
EMAP:29936	gland of lower vaginal epithelium
EMAP:29938	rest of epithelial layer of lower vagina
EMAP:29411	muscular layer of lower part of vagina
EMAP:29940	adventitia of lower part of vagina
EMAP:29412	- upper part of vagina
EMAP:29413	epithelial layer of upper part of vagina
EMAP:29942	gland of upper vaginal epithelium
EMAP:29944	rest of epithelial layer of upper vagina
EMAP:29414	muscular layer of upper part of vagina
EMAP:29946	adventitia of upper part of vagina
EMAP:30814	vasculature of vagina
EMAP:30820	- clitoris (syn: genital tubercle of female)
EMAP:30822	- crus of clitoris
EMAP:30826	epithelial layer of crus of clitoris
EMAP:30828	mesenchymal layer of crus of clitoris
EMAP:30824	os clitoris
EMAP:30830	- glans clitoris
EMAP:30832	surface epithelium of glans clitoris
EMAP:30834	mesenchymal layer of glans clitoris
EMAP:30836	vasculature of clitoris
EMAP:29434	- inguinal canal
EMAP:30838	- labia
EMAP:30840	epithelial layer of labia
EMAP:30844	gland of labia
EMAP:30842	mesenchymal layer of labia
EMAP:30846	vasculature of labia
EMAP:29415	- inguinal ring
EMAP:29417	internal (syn: deep)
EMAP:29416	external (syn: superficial)

TS28 Groups

'G' : Term is a group.

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EMAP:27551 mouse
EMAP:27553   organ system
EMAP:27555     visceral organ
EMAP:27559     urinary system
EMAP:29491       metanephros (syn: kidney)
EMAP:29492       renal cortex
EMAP:29499         cortical renal tubule
EMAP:31794 G           cortical renal tubule of mature nephron GROUP
EMAP:29508             distal convoluted tubule (syn: second convoluted tubule)
EMAP:29505             distal straight tubule (syn: thick ascending limb)
EMAP:31383               premacula segment of distal straight tubule
EMAP:29507               macula densa
EMAP:29506               postmacula segment of distal straight tubule
EMAP:29502             renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:29658               segment 1 of proximal tubule
EMAP:29660               segment 2 of proximal tubule
EMAP:29493 G           developing capillary loop stage nephron GROUP (syn: stage III nephron)
EMAP:29499         cortical renal tubule
EMAP:29500           renal proximal tubule
EMAP:29502             renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:29658               segment 1 of proximal tubule
EMAP:29660               segment 2 of proximal tubule
EMAP:29662             renal proximal straight tubule (syn: pars recta; segment 3 of proximal tubule)
EMAP:29503           renal distal tubule
EMAP:29508             distal convoluted tubule (syn: second convoluted tubule)
EMAP:29505             distal straight tubule (syn: thick ascending limb)
EMAP:31383               premacula segment of distal straight tubule
EMAP:29507               macula densa
EMAP:29506               postmacula segment of distal straight tubule
EMAP:29509           renal connecting tubule
EMAP:31794             cortical renal tubule of mature nephron GROUP
EMAP:29508               distal convoluted tubule (syn: second convoluted tubule)
EMAP:29505               distal straight tubule (syn: thick ascending limb)
EMAP:31383                 premacula segment of distal straight tubule
EMAP:29507                 macula densa
EMAP:29506                 postmacula segment of distal straight tubule
EMAP:29541 G           maturing nephron (syn: stage IV nephron)
EMAP:29499         cortical renal tubule
EMAP:29500           renal proximal tubule
EMAP:29502             renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:29658               segment 1 of proximal tubule
EMAP:29660               segment 2 of proximal tubule
EMAP:29662             renal proximal straight tubule (syn: pars recta; segment 3 of proximal tubule)
EMAP:29503           renal distal tubule
EMAP:29508             distal convoluted tubule (syn: second convoluted tubule)
EMAP:29505             distal straight tubule (syn: thick ascending limb)
EMAP:31383               premacula segment of distal straight tubule
EMAP:29507               macula densa
EMAP:29506               postmacula segment of distal straight tubule
EMAP:29509           renal connecting tubule
EMAP:31794             cortical renal tubule of mature nephron GROUP
EMAP:29508               distal convoluted tubule (syn: second convoluted tubule)
EMAP:29505               distal straight tubule (syn: thick ascending limb)
EMAP:31383                 premacula segment of distal straight tubule
EMAP:29507                 macula densa
EMAP:29506                 postmacula segment of distal straight tubule
EMAP:29502               renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:29658                 segment 1 of proximal tubule
EMAP:29660                 segment 2 of proximal tubule
EMAP:29556 G           late tubule

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- EMAP:29499
- EMAP:29500
- EMAP:29502
- EMAP:29658
- EMAP:29660
- EMAP:29662
- EMAP:29503
- EMAP:29508
- EMAP:29505
- EMAP:31383
- EMAP:29507
- EMAP:29506
- EMAP:29509
- EMAP:31794
- EMAP:29508
- EMAP:29505
- EMAP:31383
- EMAP:29507
- EMAP:29506
- EMAP:29502
- EMAP:29658
- EMAP:29660
- EMAP:30453 G
- EMAP:29534
- EMAP:29507
- EMAP:29537
- EMAP:29566
- EMAP:31499 G
- EMAP:31490
- EMAP:31492
- EMAP:31493
- EMAP:31491
- EMAP:31494
- EMAP:29583
- EMAP:29584
- EMAP:29586
- EMAP:29585
- EMAP:29594 G
- EMAP:29499
- EMAP:29500
- EMAP:29502
- EMAP:29658
- EMAP:29660
- EMAP:29662
- EMAP:29503
- EMAP:29508
- EMAP:29505
- EMAP:31383
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- EMAP:31794
- EMAP:29508
- EMAP:29505
- EMAP:31383
- EMAP:29507
- EMAP:29506
- EMAP:29509
- EMAP:29525
- EMAP:29529
- EMAP:29533
- EMAP:29530
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- EMAP:29531
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- EMAP:29527
- EMAP:29536
- EMAP:29537
- EMAP:29538

L cortical renal tubule

- | renal proximal tubule
 - | renal proximal convoluted tubule (syn: first convoluted tubule)
 - | segment 1 of proximal tubule
 - | segment 2 of proximal tubule
 - | renal proximal straight tubule (syn: pars recta; segment 3 of proximal tubule)
- | renal distal tubule
 - | distal convoluted tubule (syn: second convoluted tubule)
 - | distal straight tubule (syn: thick ascending limb)
 - | premacula segment of distal straight tubule
 - | macula densa
 - | postmacula segment of distal straight tubule
 - | renal connecting tubule
- | cortical renal tubule of mature nephron GROUP
 - | distal convoluted tubule (syn: second convoluted tubule)
 - | distal straight tubule (syn: thick ascending limb)
 - | premacula segment of distal straight tubule
 - | macula densa
 - | postmacula segment of distal straight tubule
 - | renal proximal convoluted tubule (syn: first convoluted tubule)
 - | segment 1 of proximal tubule
 - | segment 2 of proximal tubule
- | juxtaglomerular complex
 - | extraglomerular mesangium
 - | macula densa
 - | part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)

- renal medulla
- | Loop of Henle group
 - | loop of Henle, outer medullary portion
 - | thin descending limb
 - | thin ascending limb (syn: ascending thin limb)
 - | proximal straight tubule (syn: pars recta; segment 3 of proximal tubule)
 - | premacula segment of distal straight tubule (syn: thick ascending limb)
- | loop of Henle, inner medullary portion
 - | thin descending limb
 - | bend (syn: U-turn)
 - | thin ascending limb (syn: ascending thin limb)
- | early nephron GROUP
- | cortical renal tubule
 - | renal proximal tubule
 - | renal proximal convoluted tubule (syn: first convoluted tubule)
 - | segment 1 of proximal tubule
 - | segment 2 of proximal tubule
 - | renal proximal straight tubule (syn: pars recta; segment 3 of proximal tubule)
 - | renal distal tubule
 - | distal convoluted tubule (syn: second convoluted tubule)
 - | distal straight tubule (syn: thick ascending limb)
 - | premacula segment of distal straight tubule
 - | macula densa
 - | postmacula segment of distal straight tubule
 - | renal connecting tubule
- | cortical renal tubule of mature nephron GROUP
 - | distal convoluted tubule (syn: second convoluted tubule)
 - | distal straight tubule (syn: thick ascending limb)
 - | premacula segment of distal straight tubule
 - | macula densa
 - | postmacula segment of distal straight tubule
 - | renal proximal convoluted tubule (syn: first convoluted tubule)
 - | segment 1 of proximal tubule
 - | segment 2 of proximal tubule
- | mature renal corpuscle (syn: Malpighian corpuscle)
 - | glomerular tuft (syn: glomerulus)
 - | glomerular capillary system
 - | glomerular mesangium
 - | glomerular basement membrane
 - | visceral epithelium of mature renal corpuscle (syn: podocyte layer)
- | Bowman's capsule (syn: glomerular capsule)
 - | parietal epithelium
 - | urinary space of renal corpuscle (syn: Bowman's space)
- | afferent arteriole
 - | part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)
 - | rest of afferent arteriole

EMAP:29535			efferent arteriole
EMAP:29534			extraglomerular mesangium
EMAP:29540 G			mature nephron
EMAP:29499			cortical renal tubule
EMAP:29500			renal proximal tubule
EMAP:29502			renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:29658			segment 1 of proximal tubule
EMAP:29660			segment 2 of proximal tubule
EMAP:29662			renal proximal straight tubule (syn: pars recta; segment 3 of proximal tubule)
EMAP:29503			renal distal tubule
EMAP:29508			distal convoluted tubule (syn: second convoluted tubule)
EMAP:29505			distal straight tubule (syn: thick ascending limb)
EMAP:31383			premacula segment of distal straight tubule
EMAP:29507			macula densa
EMAP:29506			postmacula segment of distal straight tubule
EMAP:29509			renal connecting tubule
EMAP:31794			cortical renal tubule of mature nephron GROUP
EMAP:29508			distal convoluted tubule (syn: second convoluted tubule)
EMAP:29505			distal straight tubule (syn: thick ascending limb)
EMAP:31383			premacula segment of distal straight tubule
EMAP:29507			macula densa
EMAP:29506			postmacula segment of distal straight tubule
EMAP:29502			renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:29658			segment 1 of proximal tubule
EMAP:29660			segment 2 of proximal tubule
EMAP:31499			Loop of Henle group
EMAP:31490			loop of Henle, outer medullary portion
EMAP:31492			thin descending limb
EMAP:31493			thin ascending limb (syn: ascending thin limb)
EMAP:31491			proximal straight tubule (syn: pars recta; segment 3 of proximal tubule)
EMAP:31494			premacula segment of distal straight tubule (syn: thick ascending limb)
EMAP:29583			loop of Henle, inner medullary portion
EMAP:29584			thin descending limb
EMAP:29586			bend (syn: U-turn)
EMAP:29585			thin ascending limb (syn: ascending thin limb)
EMAP:29525			mature renal corpuscle (syn: Malpighian corpuscle)
EMAP:29529			glomerular tuft (syn: glomerulus)
EMAP:29533			glomerular capillary system
EMAP:29530			glomerular mesangium
EMAP:29532			glomerular basement membrane
EMAP:29531			visceral epithelium of mature renal corpuscle (syn: podocyte layer)
EMAP:29526			Bowman's capsule (syn: glomerular capsule)
EMAP:29528			parietal epithelium
EMAP:29527			urinary space of renal corpuscle (syn: Bowman's space)
EMAP:29536			afferent arteriole
EMAP:29537			part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)
EMAP:29538			rest of afferent arteriole
EMAP:29535			efferent arteriole
EMAP:29534			extraglomerular mesangium
EMAP:29592 G			collecting duct (syn: ureteric tree)
EMAP:29563			ureteric tip (syn: ureteric ampulla)
EMAP:31053			ureteric tree terminal branch excluding tip itself
EMAP:29599			ureteric trunk
EMAP:29520			cortical collecting duct
EMAP:29983			outer medullary collecting duct
EMAP:29587			inner medullary collecting duct (syn: papillary collecting duct)
EMAP:29599 G			ureteric trunk
EMAP:29520			cortical collecting duct
EMAP:29983			outer medullary collecting duct
EMAP:29587			inner medullary collecting duct (syn: papillary collecting duct)
EMAP:29593 G			renal interstitium group
EMAP:29564			nephrogenic interstitium (syn: peripheral blastema)
EMAP:29530			glomerular mesangium
EMAP:29534			extraglomerular mesangium
EMAP:29521			renal cortical interstitium (syn: cortical stroma)
EMAP:31295			renal cortical fibroblasts
EMAP:31427			periarterial fibroblasts of cortex
EMAP:31425			peritubular fibroblasts of cortex
EMAP:31303			resident macrophages of the cortex (syn: renal monocytes of the cortex)
EMAP:31311			rest of renal cortical interstitium
EMAP:29982			outer medullary interstitium
EMAP:31388			outer medullary fibroblast

EMAP:31431				- periarterial fibroblasts of outer medulla
EMAP:31429				- peritubular fibroblasts of outer medulla
EMAP:31393				- resident macrophage of the outer medulla (syn: renal monocytes of the outer medulla)
EMAP:31398				- rest of outer medullary interstitium
EMAP:29582				- inner medullary interstitium (syn: papillary interstitium)
EMAP:31403				- inner medullary fibroblast
EMAP:31435				- periarterial fibroblasts of inner medulla
EMAP:31433				- peritubular fibroblasts of inner medulla
EMAP:31408				- resident macrophage of the inner medulla (syn: renal monocytes of the inner medulla)
EMAP:32570				- rest of inner medullary interstitium
EMAP:29558				- perihilar interstitium
EMAP:31366				- perihilar fibroblast
EMAP:31372				- resident macrophage of the perihilar interstitium (syn: renal monocytes of the perihilar interstitium)
interstitium)				- rest of perihilar interstitium
EMAP:31378				- small blood vessels
EMAP:31475 G				- renal cortical capillary
EMAP:30042				- efferent arteriole
EMAP:29535				- renal medullary arterial system
EMAP:29590				- afferent arteriole
EMAP:29536				- part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)
EMAP:29537				- rest of afferent arteriole
EMAP:29538				- glomerular capillary system
EMAP:29533				- renal medullary capillary (syn: vasa recta)
EMAP:30048				- renal medullary venous system
EMAP:29591				- renal capillaries
EMAP:31449 G				- glomerular capillary system
EMAP:29533				- renal cortical capillary
EMAP:30042				- renal medullary capillary (syn: vasa recta)
EMAP:30048				- developing vasculature of urinary system GROUP
EMAP:31776 G				- renal vasculature
EMAP:29435				- glomerular capillary system
EMAP:29533				- renal artery
EMAP:29442				- endothelial layer of renal artery
EMAP:29981				- endothelium of renal artery
EMAP:30002				- smooth muscle layer of renal artery
EMAP:30010				- renal vein
EMAP:29441				- endothelial layer of renal vein
EMAP:29969				- endothelium of renal vein
EMAP:30018				- smooth muscle layer of renal vein
EMAP:30026				- renal medullary capillary (syn: vasa recta)
EMAP:30048				- interlobular artery
EMAP:29552				- arcuate artery
EMAP:29551				- afferent arteriole
EMAP:29536				- part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)
EMAP:29537				- rest of afferent arteriole
EMAP:29538				- interlobular vein
EMAP:29554				- arcuate vein
EMAP:29555				- ureteral vasculature
EMAP:30859				- renal vasculature
EMAP:29435 G				- glomerular capillary system
EMAP:29533				- renal artery
EMAP:29442				- endothelial layer of renal artery
EMAP:29981				- endothelium of renal artery
EMAP:30002				- smooth muscle layer of renal artery
EMAP:30010				- renal vein
EMAP:29441				- endothelial layer of renal vein
EMAP:29969				- endothelium of renal vein
EMAP:30018				- smooth muscle layer of renal vein
EMAP:30026				- renal medullary capillary (syn: vasa recta)
EMAP:30048				- interlobular artery
EMAP:29552				- arcuate artery
EMAP:29551				- afferent arteriole
EMAP:29536				- part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)
EMAP:29537				- rest of afferent arteriole
EMAP:29538				- interlobular vein
EMAP:29554				- arcuate vein
EMAP:29555				- renal arterial system
EMAP:31442 G				- renal artery
EMAP:29442				- endothelial layer of renal artery
EMAP:29981				- endothelium of renal artery
EMAP:30002				- smooth muscle layer of renal artery
EMAP:30010				

EMAP:29552		interlobular artery
EMAP:29551		arcuate artery
EMAP:29590		renal medullary arterial system
EMAP:31456 G		- renal venous system
EMAP:29441		renal vein
EMAP:29969		endothelial layer of renal vein
EMAP:30018		endothelium of renal vein
EMAP:30026		smooth muscle layer of renal vein
EMAP:29554		interlobular vein
EMAP:29555		arcuate vein
EMAP:29536		afferent arteriole
EMAP:29537		part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)
EMAP:29538		rest of afferent arteriole
EMAP:29535		efferent arteriole
EMAP:29591		renal medullary venous system
EMAP:31812 G		- nerves of urethra GROUP
EMAP:31800		nerve of pelvic urethra of female
EMAP:31790		nerve of pelvic urethra of male
EMAP:31741		nerve of phallic urethra of female
EMAP:29601		- reproductive system
EMAP:29348		male reproductive system
EMAP:29370		epididymis
EMAP:30446 G		epithelium of epididymis
EMAP:29762		epithelium of caput of epididymis
EMAP:29756		epithelium of corpus epididymis
EMAP:29694		epithelium of cauda of epididymis
EMAP:30448 G		muscle layer of epididymis
EMAP:29764		muscle layer of caput of epididymis
EMAP:29758		muscle layer of corpus of epididymis
EMAP:29752		muscle layer of cauda of epididymis
EMAP:30444 G		adventitia of epididymis
EMAP:29766		adventitia of caput of epididymis
EMAP:29760		adventitia of corpus of epididymis
EMAP:29754		adventitia of cauda of epididymis
EMAP:30983 G		- male external genitalia
EMAP:29380		penis (syn: genital tubercle of male)
EMAP:29383		glans penis
EMAP:29859		epithelial layer of glans penis
EMAP:29857		corpus spongiosum
EMAP:29861		rest of glans penis
EMAP:29381		crus penis
EMAP:29770		os penis
EMAP:29851		corpus spongiosum
EMAP:29853		epithelial layer of crus penis
EMAP:29855		rest of crus penis
EMAP:29382		prepuce of male
EMAP:30808		vasculature of penis
EMAP:29384		scrotum
EMAP:29734		epidermal layer of scrotum
EMAP:29736		basal layer
EMAP:29738		stratified layer
EMAP:29740		dermal layer of scrotum
EMAP:29742		hair follicle
EMAP:29744		sweat gland
EMAP:29746		septum of scrotum
EMAP:30792		vasculature of scrotum
EMAP:29396		- female reproductive system
EMAP:29419		ovary
EMAP:31063 G		ovigerous cord
EMAP:31034		meiotic oocytes
EMAP:29408		vagina
EMAP:30996 G		epithelium of vagina
EMAP:29410		epithelial layer of lower part of vagina
EMAP:29936		gland of lower vaginal epithelium
EMAP:29938		rest of epithelial layer of lower vagina
EMAP:29413		epithelial layer of upper part of vagina
EMAP:29942		gland of upper vaginal epithelium
EMAP:29944		rest of epithelial layer of upper vagina
EMAP:31002 G		muscular layer of vagina
EMAP:29411		muscular layer of lower part of vagina
EMAP:29414		muscular layer of upper part of vagina
EMAP:31004 G		adventitia of vagina

EMAP:29940 EMAP:29946 EMAP:30990 G EMAP:30820 EMAP:30822 EMAP:30826 EMAP:30828 EMAP:30824 EMAP:30830 EMAP:30832 EMAP:30834 EMAP:30836 EMAP:30838 EMAP:30840 EMAP:30844 EMAP:30842 EMAP:30846 EMAP:31468 G EMAP:29551 EMAP:29555 EMAP:29552 EMAP:29554	<ul style="list-style-type: none"> adventitia of lower part of vagina adventitia of upper part of vagina female external genitalia<ul style="list-style-type: none"> clitoris (syn: genital tubercle of female) crus of clitoris<ul style="list-style-type: none"> epithelial layer of crus of clitoris mesenchymal layer of crus of clitoris os clitoris glans clitoris<ul style="list-style-type: none"> surface epithelium of glans clitoris mesenchymal layer of glans clitoris vasculature of clitoris labia<ul style="list-style-type: none"> epithelial layer of labia gland of labia mesenchymal layer of labia vasculature of labia large blood vessels<ul style="list-style-type: none"> arcuate artery arcuate vein interlobular artery interlobular vein
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