**LungMAP\_Mouse\_Anatomy\_v2.9 2019-05-13**

**LMMA\_00210 lower respiratory tract – E16.5 (canalicular stage of mouse lung development)**

**LMMA\_00361 trachea**

LMMA\_00362 ┣ trachea bifurcation

LMMA\_00365 ┣ trachea lumen

LMMA\_00366 ┣ trachea wallp4

LMMA\_00415 ┃ ┣ tracheal mucosa

LMMA\_00414 ┃ ┃ ┣ tracheal epithelium

LMMA\_00089 ┃ ┃ ┃ ┣ basement membrane

LMMA\_00590 ┃ ┃ ┃ ┣ tracheal epithelial cell

LMMA\_00087 ┃ ┃ ┃ ┃ ┣ basal cell

LMMA\_00476 ┃ ┃ ┃ ┃ ┣ ciliated cell precursor

LMMA\_00142 ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00184 ┃ ┃ ┃ ┃ ┣ immature club cell (syn: immature Clara cell)

LMMA\_00526 ┃ ┃ ┃ ┃ ┣ intermediate airway progenitor cell

LMMA\_00238 ┃ ┃ ┃ ┃ ┣ mucus cell (syn: mucous cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00340 ┃ ┃ ┃ ┃ ┣ serous cell

LMMA\_00384 ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell

LMMA\_00483 ┃ ┃ ┣ tracheal lamina propria

LMMA\_00136 ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00416 ┃ ┣ tracheal submucosa

LMMA\_00606 ┃ ┃ ┣ tracheal cartilaginous ring

LMMA\_00592 ┃ ┃ ┃ ┣ annular ligament

LMMA\_00183 ┃ ┃ ┃ ┣ hyaline cartilage

LMMA\_00141 ┃ ┃ ┃ ┃ ┣ chondrocyte

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00370 ┃ ┃ ┃ ┣ trachealis muscle (syn: membranous trachea)

LMMA\_00343 ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00410 ┃ ┃ ┃ ┣ fibroelastic membrane (syn: fibroelastic tissue; fibroelastic connective tissue)

LMMA\_00412 ┃ ┃ ┃ ┣ perichondrium

LMMA\_00136 ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00367 ┃ ┣ tracheal adventitia

LMMA\_00055 ┃ ┃ ┣ adipose tissue

LMMA\_00054 ┃ ┃ ┃ ┣ adipocyte

LMMA\_00136 ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┣ proteoglycan

**LMMA\_00120 bronchus**

**LMMA\_00527 ┣ main bronchus (syn: primary bronchus; mainstem bronchus)**

LMMA\_00205 ┃ ┣ left lung main bronchus (syn: left lung primary bronchus; left lung mainstem bronchus)

LMMA\_00329 ┃ ┣ right lung main bronchus (syn: right lung primary bronchus; right lung mainstem bronchus)

**LMMA\_00528 ┣ lobar bronchus (syn: secondary bronchus)**

LMMA\_00333 ┃ ┣ right lung upper lobar bronchus (syn: right cranial lobar bronchus; right apical lobar bromchus

LMMA\_00331 ┃ ┣ right lung middle lobar bronchus (syn: right cardiac lobar bronchus)

LMMA\_00325 ┃ ┣ right lung lower lobar bronchus (syn: right caudal lobar bronchus; right diaphragmatic lobar bronchus)

LMMA\_00323 ┃ ┣ right lung accessory lobar bronchus (syn: right post-caval lobar bronchus; right infra-cardiac lobar

bronchus; right intermediate lobar bronchus)

**Note: The classification scheme for each bronchus above is the same, as follows:**

LMMA\_00123 ┃ ┃ ┣ bronchus lumen

LMMA\_00124 ┃ ┃ ┣ bronchus wall

LMMA\_00418 ┃ ┃ ┃ ┣ bronchial mucosa

LMMA\_00101 ┃ ┃ ┃ ┃ ┣ bronchial epithelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00591 ┃ ┃ ┃ ┃ ┃ ┣ bronchial epithelial cell

LMMA\_00087 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basal cell

LMMA\_00476 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell precursor

LMMA\_00142 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00184 ┃ ┃ ┃ ┃ ┃ ┃ ┣ immature club cell (syn: immature Clara cell)

LMMA\_00526 ┃ ┃ ┃ ┃ ┃ ┃ ┣ intermediate airway progenitor cell

LMMA\_00238 ┃ ┃ ┃ ┃ ┃ ┃ ┣ mucus cell (syn: mucous cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00340 ┃ ┃ ┃ ┃ ┃ ┃ ┣ serous cell

LMMA\_00384 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell

LMMA\_00481 ┃ ┃ ┃ ┃ ┣ bronchial lamina propria

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00482 ┃ ┃ ┃ ┃ ┣ bronchial smooth muscle (syn: peribronchial smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00419 ┃ ┃ ┃ ┣ bronchial submucosa

LMMA\_00133 ┃ ┃ ┃ ┃ ┣ bronchial cartilaginous ring (syn: cartilage)

LMMA\_00482 ┃ ┃ ┃ ┃ ┃ ┣ bronchial smooth muscle (syn: peribronchial smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00183 ┃ ┃ ┃ ┃ ┃ ┣ hyaline cartilage

LMMA\_00141 ┃ ┃ ┃ ┃ ┃ ┃ ┣ chondrocyte

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00410 ┃ ┃ ┃ ┃ ┃ ┣ fibroelastic membrane (syn: fibroelastic tissue; fibroelastic connective tissue)

LMMA\_00412 ┃ ┃ ┃ ┃ ┃ ┣ perichondrium

LMMA\_00592 ┃ ┃ ┃ ┃ ┃ ┣ annular ligament

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00094 ┃ ┃ ┃ ┣ bronchial adventitia

LMMA\_00055 ┃ ┃ ┃ ┃ ┣ adipose tissue

LMMA\_00054 ┃ ┃ ┃ ┃ ┃ ┣ adipocyte

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00211 lung**

**LMMA\_00199 ┣ left lung**

**LMMA\_00326 ┣ right lung**

LMMA\_00332 ┃ ┣ right lung upper lobe (syn: right cranial lobe; right apical lobe)

LMMA\_00330 ┃ ┣ right lung middle lobe (syn: right cardiac lobe)

LMMA\_00324 ┃ ┣ right lung lower lobe (syn: right caudal lobe; right diaphragmatic lobe)

LMMA\_00322 ┃ ┣ right lung accessory lobe (syn: right post-caval lobe; right infra-cardiac lobe; right intermediate lobe)

**Note: The classification scheme for the left lung and right lung middle, lower, and accessory lobes is the same as for the right lung upper lobe below:**

LMMA\_00332 ┃ ┣ right lung upper lobe

LMMA\_00605 ┃ ┃ ┣ right lung upper lobe hilum

LMMA\_00039 ┃ ┃ ┣ right upper lobe bronchiole

**LMMA\_00140 ┃ ┃ ┃ ┣ central bronchiole** (syn: proximal bronchiole; primary bronchiole)

LMMA\_00138 ┃ ┃ ┃ ┃ ┣ central bronchiolar lumen

LMMA\_00139 ┃ ┃ ┃ ┃ ┣ central bronchiolar wall

LMMA\_00286 ┃ ┃ ┃ ┃ ┃ ┣ central bronchiolar epithelium (syn: proximal bronchiolar epithelium)

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00582 ┃ ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar epithelial cell

LMMA\_00476 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell precursor

LMMA\_00142 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00184 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ immature club cell (syn: immature Clara cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00253 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroepithelial body

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00599 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative epithelial cell (syn: proliferating epithelial cell)

LMMA\_00384 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell (syn: general epithelial cell; nonspecific epithelial cell)

LMMA\_00525 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar connective tissue (syn: peribronchiolar connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00240 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar smooth muscle (syn: peribronchiolar smooth muscle)

LMMA\_00655 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative proliferative smooth muscle cell

**LMMA\_00198 ┃ ┃ ┃ ┣ lateral bronchiole** (syn: distal bronchiole; secondary bronchiole)

LMMA\_00196 ┃ ┃ ┃ ┃ ┣ lateral bronchiolar lumen

LMMA\_00197 ┃ ┃ ┃ ┃ ┣ lateral bronchiolar wall

LMMA\_00433 ┃ ┃ ┃ ┃ ┃ ┣ lateral bronchiolar epithelium (syn: distal bronchiolar epithelium)

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00582 ┃ ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar epithelial cell

LMMA\_00476 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell precursor

LMMA\_00142 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00184 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ immature club cell (syn: immature Clara cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00253 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroepithelial body

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00599 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative epithelial cell (syn: proliferating epithelial cell)

LMMA\_00384 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell (syn: general epithelial cell; nonspecific epithelial cell)

LMMA\_00525 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar connective tissue (syn: peribronchiolar connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00240 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar smooth muscle (syn: peribronchiolar smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

**LMMA\_00359 ┃ ┃ ┃ ┣ terminal bronchiole**

LMMA\_00357 ┃ ┃ ┃ ┃ ┣ terminal bronchiolar lumen

LMMA\_00358 ┃ ┃ ┃ ┃ ┣ terminal bronchiolar wall

LMMA\_00457 ┃ ┃ ┃ ┃ ┃ ┣ terminal bronchiolar epithelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00582 ┃ ┃ ┃ ┃ ┃ ┃ ┣bronchiolar epithelial cell

LMMA\_00476 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell precursor

LMMA\_00142 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00184 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ immature club cell (syn: immature Clara cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00253 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroepithelial body

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00599 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative epithelial cell (syn: proliferating epithelial cell)

LMMA\_00384 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell (syn: general epithelial cell; nonspecific epithelial cell)

LMMA\_00525 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar connective tissue (syn: peribronchiolar connective tissue))

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00240 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar smooth muscle (syn: peribronchiolar smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

**LMMA\_00044 ┃ ┃ ┣ right upper lobe pre-alveolar parenchyma**

LMMA\_00001 ┃ ┃ ┃ ┣ pre-alveolar acinar tubule (syn: acinar tubule)

LMMA\_00009 ┃ ┃ ┃ ┃ ┣ proximal acinar tubule

LMMA\_00284 ┃ ┃ ┃ ┃ ┃ ┣ proximal acinar tubule epithelium (syn: epithelium, proximal acinar tubule)

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00573 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proximal acinar tubule epithelial cell (syn: proximal acinar epithelial cell)

LMMA\_00187 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ intermediate pneumocyte (syn: intermediate alveolar epithelial cell;

intermediate pneumocyte)

LMMA\_00380 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ immature type I pneumocyte (syn: pre-type I pneumocyte)

LMMA\_00382 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ immature type II pneumocyte (syn: pre-type II pneumocyte)

LMMA\_00599 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative epithelial cell (syn: proliferating epithelial cell)

LMMA\_00003 ┃ ┃ ┃ ┃ ┣ distal acinar tubule bud (syn: peripheral acinar tubule bud; acinar bud; distal acinar bud;

distal acinar tubule; peripheral acinar tubule sprout)

LMMA\_00423 ┃ ┃ ┃ ┃ ┃ ┣ distal acinar tubule epithelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00572 ┃ ┃ ┃ ┃ ┃ ┃ ┣ distal acinar tubule epithelial cell (syn: distal acinar epithelial cell)

LMMA\_00380 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ immature type I pneumocyte (syn: pre-type I pneumocyte)

LMMA\_00382 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ immature type II pneumocyte (syn: pre-type II pneumocyte)

LMMA\_00599 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative epithelial cell (syn: proliferating epithelial cell)

LMMA\_00008 ┃ ┃ ┃ ┣ pre-alveolar interstitial tissue (syn: pre-alveolar mesenchyme; pre-alveolar connective

tissue; pre-alveolar stroma)

LMMA\_00137 ┃ ┃ ┃ ┃ ┣ pre-alveolar interstitial cell (syn: pre-alveolar connective tissue cell; pre-alveolar

mesenchymal cell; pre-alveolar stromal cell)

LMMA\_00007 ┃ ┃ ┃ ┃ ┃ ┣ matrix fibroblast (syn: matrix synthesizing fibroblast)

LMMA\_00243 ┃ ┃ ┃ ┃ ┃ ┣ myofibroblast

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00607 ┃ ┃ ┃ ┃ ┃ ┣ proliferative fibroblast

LMMA\_00608 ┃ ┃ ┃ ┃ ┃ ┣ proliferative myofibroblast

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00442 ┃ ┃ ┃ ┃ ┣ pre-alveolar interstitial blood vessel

LMMA\_00583 ┃ ┃ ┃ ┃ ┃ ┣ pre-alveolar capillary bed (syn: pre-alveolar capillary network)

LMMA\_00129 ┃ ┃ ┃ ┃ ┃ ┃ ┣pre-alveolar capillary endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00617 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative endothelial cell (syn: proliferating endothelial cell)

**LMMA\_00046 ┃ ┃ ┣ right upper lobe visceral pleura**

LMMA\_00405 ┃ ┃ ┃ ┣ visceral connective tissue

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00368 ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00406 ┃ ┃ ┃ ┣ visceral mesothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00231 ┃ ┃ ┃ ┃ ┣ mesothelial cell

**LMMA\_00520 respiratory autonomic nervous system (syn: autonomic respiratory nervous system)**

LMMA\_00641 ┣ pulmonary autonomic nerve

LMMA\_00257 ┃ ┣ non-adrenergic and non-cholinergic nerve (syn: sensory nerve)

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00270 ┃ ┣ postganglionic parasympathetic nerve (syn: cholinenergic innervation)

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00352 ┃ ┣postganglionic sympathetic nerve (syn: adrenergic innervation)

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00642 ┃ ┣preganglionic parasympathetic nerve

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00634 ┣ pulmonary autonomic ganglion (syn: nerve cell cluster)

LMMA\_00521 ┃ ┣ autonomic neuron (syn: autonomic ganglion cell; autonomic ganglion neuron)

LMMA\_00338 ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00633 ┣ pulmonary nerve plexus

LMMA\_00635 ┃ ┣ left pulmonary nerve plexus

LMMA\_00636 ┃ ┃ ┣ left anterior pulmonary nerve plexus

LMMA\_00637 ┃ ┃ ┣ left posterior pulmonary nerve plexus

LMMA\_00638 ┃ ┣ right pulmonary nerve plexus

LMMA\_00639 ┃ ┃ ┣ right anterior pulmonary nerve plexus

LMMA\_00640 ┃ ┃ ┣ right posterior pulmonary nerve plexus

LMMA\_00643 ┣ general visceral nervous system

LMMA\_00644 ┃ ┣ general visceral afferent nerve (syn: sensory nerve)

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00645 ┃ ┃ ┣ visceral afferent sensory nerve terminal (syn: visceral afferent sensory nerve receptor)

**LMMA\_00522 respiratory immune system**

**LMMA\_00185 ┣ immune cell**

LMMA\_00614 ┃ ┣ lymphoid cell

LMMA\_00241 ┃ ┣ myeloid cell

LMMA\_00477 ┃ ┃ ┣ fetal macrophage

LMMA\_00665 ┃ ┃ ┣ mature myeloid cell

LMMA\_00613 ┃ ┃ ┣ megakaryocyte

LMMA\_00664 ┃ ┃ ┣ proliferative myeloid cell

**LMMA\_00626 ┣ lymphoid tissue**

LMMA\_00475     ┃ ┣ bronchus associated lymphoid tissue

**LMMA\_00523 respiratory vascular system**

**LMMA\_00692 ┣ blood cell**

LMMA\_00619 ┃ ┣ erythrocyte

LMMA\_00819 ┃ ┣ peripheral blood lymphocyte

**LMMA\_00104 ┣ bronchial blood vessel**

**LMMA\_00098 ┃ ┣ bronchial artery**

**LMMA\_00095 ┃ ┣ bronchial arteriole**

**LMMA\_00105 ┃ ┣ bronchial vein**

**LMMA\_00109 ┃ ┣ bronchial venule**

**LMMA\_00519 ┃ ┣ bronchial capillary**

LMMA\_00293 ┃ ┃ ┣ capillary tunica intima

LMMA\_00378 ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00292 ┃ ┃ ┣ capillary tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**Note: the classification schema for “bronchial blood vessel” is as follows:**

**• The classification scheme for the “bronchial artery” is the same as for the “pulmonary muscular artery” below**

**• The classification scheme for the “bronchial arteriole” is the same as for the “pulmonary distal arteriole” below**

**• The classification scheme for the “bronchial venule” is the same as for the “pulmonary vein” (does not include the**

**“vasa vasorum”) below**

**• The classification scheme for the “bronchial artery” is the same as for the “pulmonary distal venule” below**

**LMMA\_00315 ┣ pulmonary blood vessel**

**LMMA\_00632 ┃ ┣ intra-parenchymal blood vessel**

**LMMA\_00291 ┃ ┣ pulmonary artery**

LMMA\_00293 ┃ ┃ ┣ pulmonary artery tunica intima

LMMA\_00081 ┃ ┃ ┃ ┣ artery endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00616 ┃ ┃ ┃ ┃ ┣ arterial endothelial cell

LMMA\_00191 ┃ ┃ ┃ ┣ internal elastic membrane

LMMA\_00378 ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00294 ┃ ┃ ┣ pulmonary artery tunica media

LMMA\_00167 ┃ ┃ ┃ ┣ external elastic membrane

LMMA\_00393 ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00292 ┃ ┃ ┣ pulmonary artery tunica adventitia

LMMA\_00395 ┃ ┃ ┃ ┣ vasa vasorum

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00290 ┃ ┣ pulmonary arteriole**

**LMMA\_00304 ┃ ┃ ┣ pulmonary muscular arteriole**

LMMA\_00488 ┃ ┃ ┃ ┣ pulmonary muscular arteriole tunica intima

LMMA\_00078 ┃ ┃ ┃ ┃ ┣ arteriole endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00617 ┃ ┃ ┃ ┃ ┃ ┃ ┣proliferative endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00489 ┃ ┃ ┃ ┣ pulmonary muscular arteriole tunica media

LMMA\_00393 ┃ ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00655 ┃ ┃ ┃ ┃ ┃ ┣proliferative smooth muscle cell

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00486 ┃ ┃ ┃ ┣ pulmonary muscular arteriole tunica adventitia

LMMA\_00395 ┃ ┃ ┃ ┃ ┣ vasa vasorum

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00297 ┃ ┃ ┣ pulmonary distal arteriole**

LMMA\_00299 ┃ ┃ ┃ ┣ pulmonary distal arteriole tunica intima

LMMA\_00078 ┃ ┃ ┃ ┃ ┣ arteriole endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00300 ┃ ┃ ┃ ┣ pulmonary distal arteriole tunica media

LMMA\_00393 ┃ ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00298 ┃ ┃ ┃ ┣ pulmonary distal arteriole tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00305 ┃ ┣ pulmonary vein**

LMMA\_00307 ┃ ┃ ┣ pulmonary vein tunica intima

LMMA\_00378 ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00397 ┃ ┃ ┃ ┣ vein endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00507 ┃ ┃ ┃ ┃ ┣ venous endothelial cell

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00308 ┃ ┃ ┣ pulmonary vein tunica media

LMMA\_00393 ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00655 ┃ ┃ ┃ ┃ ┣ proliferative smooth muscle cell

LMMA\_00399 ┃ ┃ ┃ ┣ venous cardiac muscle (syn: cardiac muscle)

LMMA\_00132 ┃ ┃ ┃ ┃ ┣cardiomyocyte (syn: cardiac myocyte)

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00306 ┃ ┃ ┣ pulmonary vein tunica adventitia

LMMA\_00395 ┃ ┃ ┃ ┣ vasa vasorum

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00316 ┃ ┣ pulmonary venule**

**LMMA\_00309 ┃ ┃ ┣ pulmonary muscular venule**

LMMA\_00311 ┃ ┃ ┃ ┣ pulmonary muscular venule tunica intima

LMMA\_00403 ┃ ┃ ┃ ┃ ┣ venule endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00617 ┃ ┃ ┃ ┃ ┃ ┃ ┣proliferative endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00312 ┃ ┃ ┃ ┣ pulmonary muscular venule tunica media

LMMA\_00393 ┃ ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00399 ┃ ┃ ┃ ┃ ┣ venous cardiac muscle (syn: cardiac muscle)

LMMA\_00132 ┃ ┃ ┃ ┃ ┃ ┣ cardiomyocyte (syn cardiac myocyte)

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00310 ┃ ┃ ┃ ┣ pulmonary muscular venule tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00301 ┃ ┃ ┣ pulmonary distal venule**

LMMA\_00303 ┃ ┃ ┃ ┣ pulmonary distal venule tunica intima

LMMA\_00403 ┃ ┃ ┃ ┃ ┣ venule endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00302 ┃ ┃ ┃ ┣ pulmonary distal venule tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00447 ┃ ┣ pulmonary lymphatic vessel**

LMMA\_00221 ┃ ┃ ┣ lymphatic vessel tunica intima

LMMA\_00422 ┃ ┃ ┃ ┣ lymphatic endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00216 ┃ ┃ ┃ ┃ ┣ lymphatic endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00222 ┃ ┃ ┣ lymphatic vessel tunica media

LMMA\_00217 ┃ ┃ ┃ ┣ lymphatic smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00220 ┃ ┃ ┣ lymphatic vessel tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00210 lower respiratory tract – E18.5 (early saccular stage of mouse lung development)**

**LMMA\_00361 trachea**

LMMA\_00362 ┣ trachea bifurcation

LMMA\_00365 ┣ trachea lumen

LMMA\_00366 ┣ trachea wall

LMMA\_00415 ┃ ┣ tracheal mucosa

LMMA\_00414 ┃ ┃ ┣ tracheal epithelium

LMMA\_00089 ┃ ┃ ┃ ┣ basement membrane

LMMA\_00590 ┃ ┃ ┃ ┣ tracheal epithelial cell

LMMA\_00087 ┃ ┃ ┃ ┃ ┣ basal cell

LMMA\_00142 ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00184 ┃ ┃ ┃ ┃ ┣ immature club cell (syn: immature Clara cell)

LMMA\_00526 ┃ ┃ ┃ ┃ ┣ intermediate airway progenitor cell

LMMA\_00238 ┃ ┃ ┃ ┃ ┣ mucus cell (syn: mucous cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00340 ┃ ┃ ┃ ┃ ┣ serous cell

LMMA\_00384 ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell

LMMA\_00483 ┃ ┃ ┣ tracheal lamina propria

LMMA\_00136 ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00416 ┃ ┣ tracheal submucosa

LMMA\_00606 ┃ ┃ ┣ tracheal cartilaginous ring

LMMA\_00592 ┃ ┃ ┃ ┣ annular ligament

LMMA\_00183 ┃ ┃ ┃ ┣ hyaline cartilage

LMMA\_00141 ┃ ┃ ┃ ┃ ┣ chondrocyte

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00370 ┃ ┃ ┃ ┣ trachealis muscle (syn: membranous trachea)

LMMA\_00343 ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00410 ┃ ┃ ┃ ┣ fibroelastic membrane (syn: fibroelastic tissue; fibroelastic connective tissue)

LMMA\_00412 ┃ ┃ ┃ ┣ perichondrium

LMMA\_00136 ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃┃┣ reticular cell

LMMA\_00356 ┃ ┃┃┣ telocyte

LMMA\_00386 ┃ ┃┃┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃┃ ┣ ground substance

LMMA\_00529 ┃ ┃┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃┃ ┣ reticular fiber

LMMA\_00367 ┃ ┣ tracheal adventitia

LMMA\_00055 ┃ ┃ ┣ adipose tissue

LMMA\_00054 ┃ ┃ ┃ ┣ adipocyte

LMMA\_00136 ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┣ proteoglycan

**LMMA\_00120 bronchus**

**LMMA\_00527 ┣ main bronchus (syn: primary bronchus; mainstem bronchus)**

LMMA\_00205 ┃ ┣ left lung main bronchus (syn: left lung primary bronchus; left lung mainstem bronchus)

LMMA\_00329 ┃ ┣ right lung main bronchus (syn: right lung primary bronchus; right lung mainstem bronchus)

**LMMA\_00528 ┣ lobar bronchus (syn: secondary bronchus)**

LMMA\_00333 ┃ ┣ right lung upper lobar bronchus (syn: right cranial lobar bronchus; right apical lobar bromchus

LMMA\_00331 ┃ ┣ right lung middle lobar bronchus (syn: right cardiac lobar bronchus)

LMMA\_00325 ┃ ┣ right lung lower lobar bronchus (syn: right caudal lobar bronchus; right diaphragmatic lobar bronchus)

LMMA\_00323 ┃ ┣ right lung accessory lobar bronchus (syn: right post-caval lobar bronchus; right infra-cardiac lobar bronchus; right intermediate lobar bronchus)

**Note: The classification scheme for each bronchus above is the same, as follows:**

LMMA\_00123 ┃ ┃ ┣ bronchus lumen

LMMA\_00124 ┃ ┃ ┣ bronchus wall

LMMA\_00418 ┃ ┃ ┃ ┣ bronchial mucosa

LMMA\_00101 ┃ ┃ ┃ ┃ ┣ bronchial epithelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00591 ┃ ┃ ┃ ┃ ┃ ┣ bronchial epithelial cell

LMMA\_00087 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basal cell

LMMA\_00142 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00184 ┃ ┃ ┃ ┃ ┃ ┃ ┣ immature club cell (syn: immature Clara cell)

LMMA\_00526 ┃ ┃ ┃ ┃ ┃ ┃ ┣ intermediate airway progenitor cell

LMMA\_00238 ┃ ┃ ┃ ┃ ┃ ┃ ┣ mucus cell (syn: mucous cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00340 ┃ ┃ ┃ ┃ ┃ ┃ ┣ serous cell

LMMA\_00384 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell

LMMA\_00481 ┃ ┃ ┃ ┃ ┣ bronchial lamina propria

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00482 ┃ ┃ ┃ ┃ ┣ bronchial smooth muscle (syn: peribronchial smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00419 ┃ ┃ ┃ ┣ bronchial submucosa

LMMA\_00133 ┃ ┃ ┃ ┃ ┣ bronchial cartilaginous ring (syn: cartilage ring; cartilage; cartilaginous ring)

LMMA\_00482 ┃ ┃ ┃ ┃ ┃ ┣ bronchial smooth muscle (syn: peribronchial smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00183 ┃ ┃ ┃ ┃ ┃ ┣ hyaline cartilage

LMMA\_00141 ┃ ┃ ┃ ┃ ┃ ┃ ┣ chondrocyte

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00410 ┃ ┃ ┃ ┃ ┃ ┣ fibroelastic membrane (syn: fibroelastic tissue; fibroelastic connective tissue)

LMMA\_00412 ┃ ┃ ┃ ┃ ┃ ┣ perichondrium

LMMA\_00592 ┃ ┃ ┃ ┃ ┃ ┣ annular ligament

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00094 ┃ ┃ ┃ ┣ bronchial adventitia

LMMA\_00055 ┃ ┃ ┃ ┃ ┣ adipose tissue

LMMA\_00054 ┃ ┃ ┃ ┃ ┃ ┣ adipocyte

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00211 lung**

**LMMA\_00199 ┣ left lung**

**LMMA\_00326 ┣ right lung**

LMMA\_00332 ┃ ┣ right lung upper lobe (syn: right cranial lobe; right apical lobe)

LMMA\_00330 ┃ ┣ right lung middle lobe (syn: right cardiac lobe)

LMMA\_00324 ┃ ┣ right lung lower lobe (syn: right caudal lobe; right diaphragmatic lobe)

LMMA\_00322 ┃ ┣ right lung accessory lobe (syn: right post-caval lobe; right infra-cardiac lobe; right intermediate lobe)

**Note: The classification scheme for the left lung and right lung middle, lower, and accessory lobes is the same as for the right lung upper lobe below:**

LMMA\_00332 ┃ ┣ right lung upper lobe

LMMA\_00605 ┃ ┃ ┣ right lung upper lobe hilum

LMMA\_00039 ┃ ┃ ┣ right upper lobe bronchiole

**LMMA\_00140 ┃ ┃ ┃ ┣ central bronchiole** (syn: proximal bronchiole; primary bronchiole)

LMMA\_00138 ┃ ┃ ┃ ┃ ┣ central bronchiolar lumen

LMMA\_00139 ┃ ┃ ┃ ┃ ┣ central bronchiolar wall

LMMA\_00286 ┃ ┃ ┃ ┃ ┃ ┣ central bronchiolar epithelium (syn: proximal bronchiolar epithelium)

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00582 ┃ ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar epithelial cell

LMMA\_00142 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00184 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ immature club cell (syn: immature Clara cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00253 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroepithelial body

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00384 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell (syn: general epithelial cell; nonspecific epithelial cell)

LMMA\_00525 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar connective tissue (syn: peribronchiolar connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00240 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar smooth muscle (syn: peribronchiolar smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

**LMMA\_00198 ┃ ┃ ┃ ┣ lateral bronchiole** (syn: distal bronchiole; secondary bronchiole)

LMMA\_00196 ┃ ┃ ┃ ┃ ┣ lateral bronchiolar lumen

LMMA\_00197 ┃ ┃ ┃ ┃ ┣ lateral bronchiolar wall

LMMA\_00433 ┃ ┃ ┃ ┃ ┃ ┣ lateral bronchiolar epithelium (syn: distal bronchiolar epithelium)

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00582 ┃ ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar epithelial cell

LMMA\_00142 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00184 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ immature club cell (syn: immature Clara cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00253 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroepithelial body

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00384 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell (syn: general epithelial cell; nonspecific epithelial cell)

LMMA\_00525 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar connective tissue (syn: peribronchiolar connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00240 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar smooth muscle (syn: peribronchiolar smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

**LMMA\_00359 ┃ ┃ ┃ ┣ terminal bronchiole**

LMMA\_00357 ┃ ┃ ┃ ┃ ┣ terminal bronchiolar lumen

LMMA\_00358 ┃ ┃ ┃ ┃ ┣ terminal bronchiolar wall

LMMA\_00457 ┃ ┃ ┃ ┃ ┃ ┣ terminal bronchiolar epithelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00582 ┃ ┃ ┃ ┃ ┃ ┃ ┣bronchiolar epithelial cell

LMMA\_00142 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00184 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ immature club cell (syn: immature Clara cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00253 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroepithelial body

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00384 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell (syn: general epithelial cell; nonspecific epithelial cell)

LMMA\_00525 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar connective tissue (syn: peribronchiolar connective tissue))

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00240 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar smooth muscle (syn: peribronchiolar smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

**LMMA\_00044 ┃ ┃ ┣ right upper lobe pre-alveolar parenchyma**

LMMA\_00610 ┃ ┃ ┃ ┣ pre-alveolar transitory duct (syn: smooth-walled channel; transitory duct)

LMMA\_00611 ┃ ┃ ┃ ┃ ┣ transitory duct epithelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00612 ┃ ┃ ┃ ┃ ┃ ┣ transitory duct epithelial cell

LMMA\_00187 ┃ ┃ ┃ ┃ ┃ ┃ ┣ intermediate pneumocyte (syn: intermediate alveolar epithelial cell;

intermediate pneumocyte)

LMMA\_00379 ┃ ┃ ┃ ┃ ┃ ┃ ┣ type I pneumocyte (syn: alveolar epithelial type I cell; AT1 cell; AEC1)

LMMA\_00381 ┃ ┃ ┃ ┃ ┃ ┃ ┣ type II pneumocyte (syn: alveolar epithelial type II cell; AT2 cell; AEC2)

LMMA\_00380 ┃ ┃ ┃ ┃ ┃ ┃ ┣ immature type I pneumocyte (syn: pre-type I pneumocyte)

LMMA\_00382 ┃ ┃ ┃ ┃ ┃ ┃ ┣ immature type II pneumocyte (syn: pre-type II pneumocyte)

LMMA\_00485 ┃ ┃ ┃ ┣ pre-alveolar terminal saccule (syn: distal terminal saccule; lung saccule; pre-alveolar primary

saccule; pre-alveolar primitive saccule; proximal terminal saccule;

smooth-walled saccule; terminal air sac; terminal lung saccule)

LMMA\_00424 ┃ ┃ ┃ ┃ ┣ terminal saccule epithelium (syn: epithelium, distal saccule; primary saccule; transitory saccule)

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00576 ┃ ┃ ┃ ┃ ┃ ┣ terminal saccule epithelial cell

LMMA\_00187 ┃ ┃ ┃ ┃ ┃ ┃ ┣ intermediate pneumocyte (syn: intermediate alveolar epithelial cell;

intermediate pneumocyte)

LMMA\_00379 ┃ ┃ ┃ ┃ ┃ ┃ ┣ type I pneumocyte (syn: alveolar epithelial type I cell; AT1 cell; AEC1)

LMMA\_00381 ┃ ┃ ┃ ┃ ┃ ┃ ┣ type II pneumocyte (syn: alveolar epithelial type II cell; AT2 cell; AEC2)

LMMA\_00585 ┃ ┃ ┃ ┣ pre-alveolar saccule interstitial tissue (syn: interstitial tissue; pre-alveolar saccular mesenchyme)

LMMA\_00587 ┃ ┃ ┃ ┃ ┣ pre-alveolar saccule interstitial cell (syn: interstitial tissue cell; pre-alveolar saccule mesenchymal

cell; pre-alveolar saccule stromal cell)

LMMA\_00007 ┃ ┃ ┃ ┃ ┃ ┣ matrix fibroblast (syn: matrix synthesizing fibroblast)

LMMA\_00243 ┃ ┃ ┃ ┃ ┃ ┣ myofibroblast

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00607 ┃ ┃ ┃ ┃ ┃ ┣ proliferative fibroblast

LMMA\_00608 ┃ ┃ ┃ ┃ ┃ ┣ proliferative myofibroblast

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00442 ┃ ┃ ┃ ┃ ┣ pre-alveolar interstitial blood vessel (syn: interstitial blood vessel)

LMMA\_00583 ┃ ┃ ┃ ┃ ┃ ┣ pre-alveolar capillary bed (pre-alveolar capillary network)

LMMA\_00129 ┃ ┃ ┃ ┃ ┃ ┃ ┣pre-alveolar capillary endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00617 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative endothelial cell (syn: proliferating endothelial cell)

**LMMA\_00046 ┃ ┃ ┣ right upper lobe visceral pleura**

LMMA\_00405 ┃ ┃ ┃ ┣ visceral connective tissue

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00386 ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00406 ┃ ┃ ┃ ┣ visceral mesothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00231 ┃ ┃ ┃ ┃ ┣ mesothelial cell

**LMMA\_00520 respiratory autonomic nervous system (syn: autonomic respiratory nervous system)**

LMMA\_00641 ┣ pulmonary autonomic nerve

LMMA\_00257 ┃ ┣ non-adrenergic and non-cholinergic nerve (syn: sensory nerve)

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00270 ┃ ┣ postganglionic parasympathetic nerve (syn: cholinenergic innervation)

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00352 ┃ ┣postganglionic sympathetic nerve (syn: adrenergic innervation)

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00642 ┃ ┣preganglionic parasympathetic nerve

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00634 ┣ pulmonary autonomic ganglion (syn: nerve cell cluster)

LMMA\_00521 ┃ ┣ autonomic neuron (syn: autonomic ganglion cell; autonomic ganglion neuron))

LMMA\_00338 ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00633 ┣ pulmonary nerve plexus

LMMA\_00635 ┃ ┣ left pulmonary nerve plexus

LMMA\_00636 ┃ ┃ ┣ left anterior pulmonary nerve plexus

LMMA\_00637 ┃ ┃ ┣ left posterior pulmonary nerve plexus

LMMA\_00638 ┃ ┣ right pulmonary nerve plexus

LMMA\_00639 ┃ ┃ ┣ right anterior pulmonary nerve plexus

LMMA\_00640 ┃ ┃ ┣ right posterior pulmonary nerve plexus

LMMA\_00643 ┣ general visceral nervous system

LMMA\_00644 ┃ ┣ general visceral afferent nerve (syn: sensory nerve)

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00645 ┃ ┃ ┣ visceral afferent sensory nerve terminal (syn: visceral afferent sensory nerve receptor)

**LMMA\_00522 respiratory immune system**

**LMMA\_00185 ┣ immune cell**

LMMA\_00614 ┃ ┣ lymphoid cell

LMMA\_00241 ┃ ┣ myeloid cell

LMMA\_00182 ┃ ┃ ┣ macrophage

LMMA\_00609 ┃ ┃ ┃ ┣ immature macrophage (syn: fetal macrophage; immature alveolar macrophage)

LMMA\_00213 ┃ ┃ ┃ ┣ interstitial macrophage (syn: lung tissue macrophage; pulmonary interstitial macrophage)

LMMA\_00613 ┃ ┃ ┣ megakaryocyte

LMMA\_00668 ┃ ┃ ┃ ┣ platelet

**LMMA\_00626 ┣ lymphoid tissue**

LMMA\_00475     ┃ ┣ bronchus associated lymphoid tissue

**LMMA\_00523 respiratory vascular system**

**LMMA\_00692 ┣ blood cell**

LMMA\_00619 ┃ ┣ erythrocyte

LMMA\_00819 ┃ ┣ peripheral blood lymphocyte

**LMMA\_00104 ┣ bronchial blood vessel**

**LMMA\_00098 ┃ ┣ bronchial artery**

**LMMA\_00095 ┃ ┣ bronchial arteriole**

**LMMA\_00105 ┃ ┣ bronchial vein**

**LMMA\_00109 ┃ ┣ bronchial venule**

**LMMA\_00519 ┃ ┣ bronchial capillary**

LMMA\_00293 ┃ ┃ ┣ capillary tunica intima

LMMA\_00378 ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00292 ┃ ┃ ┣ capillary tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**Note: the classification schema for “bronchial blood vessel” is as follows:**

**• The classification scheme for the “bronchial artery” is the same as for the “pulmonary muscular artery” below**

**• The classification scheme for the “bronchial arteriole” is the same as for the “pulmonary distal arteriole” below**

**• The classification scheme for the “bronchial venule” is the same as for the “pulmonary vein” (does not include the**

**“vasa vasorum”) below**

**• The classification scheme for the “bronchial artery” is the same as for the “pulmonary distal venule” below**

**LMMA\_00315 ┣ pulmonary blood vessel**

**LMMA\_00632 ┃ ┣ intra-parenchymal blood vessel**

**LMMA\_00291 ┃ ┣ pulmonary artery**

LMMA\_00293 ┃ ┃ ┣ pulmonary artery tunica intima

LMMA\_00081 ┃ ┃ ┃ ┣ artery endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00616 ┃ ┃ ┃ ┃ ┣ arterial endothelial cell

LMMA\_00191 ┃ ┃ ┃ ┣ internal elastic membrane

LMMA\_00378 ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00294 ┃ ┃ ┣ pulmonary artery tunica media

LMMA\_00167 ┃ ┃ ┃ ┣ external elastic membrane

LMMA\_00393 ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00292 ┃ ┃ ┣ pulmonary artery tunica adventitia

LMMA\_00395 ┃ ┃ ┃ ┣ vasa vasorum

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00290 ┃ ┣ pulmonary arteriole**

**LMMA\_00304 ┃ ┃ ┣ pulmonary muscular arteriole**

LMMA\_00488 ┃ ┃ ┃ ┣ pulmonary muscular arteriole tunica intima

LMMA\_00078 ┃ ┃ ┃ ┃ ┣ arteriole endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00617 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00489 ┃ ┃ ┃ ┣ pulmonary muscular arteriole tunica media

LMMA\_00393 ┃ ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00486 ┃ ┃ ┃ ┣ pulmonary muscular arteriole tunica adventitia

LMMA\_00395 ┃ ┃ ┃ ┃ ┣ vasa vasorum

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00297 ┃ ┃ ┣ pulmonary distal arteriole**

LMMA\_00299 ┃ ┃ ┃ ┣ pulmonary distal arteriole tunica intima

LMMA\_00078 ┃ ┃ ┃ ┃ ┣ arteriole endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00617 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00300 ┃ ┃ ┃ ┣ pulmonary distal arteriole tunica media

LMMA\_00393 ┃ ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00298 ┃ ┃ ┃ ┣ pulmonary distal arteriole tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00305 ┃ ┣ pulmonary vein**

LMMA\_00307 ┃ ┃ ┣ pulmonary vein tunica intima

LMMA\_00378 ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00397 ┃ ┃ ┃ ┣ vein endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00507 ┃ ┃ ┃ ┃ ┣ venous endothelial cell

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00308 ┃ ┃ ┣ pulmonary vein tunica media

LMMA\_00393 ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00399 ┃ ┃ ┃ ┣ venous cardiac muscle

LMMA\_00132 ┃ ┃ ┃ ┃ ┣cardiomyocyte (syn: cardiac myocyte)

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00306 ┃ ┃ ┣ pulmonary vein tunica adventitia

LMMA\_00395 ┃ ┃ ┃ ┣ vasa vasorum

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00316 ┃ ┣ pulmonary venule**

**LMMA\_00309 ┃ ┃ ┣ pulmonary muscular venule**

LMMA\_00311 ┃ ┃ ┃ ┣ pulmonary muscular venule tunica intima

LMMA\_00403 ┃ ┃ ┃ ┃ ┣ venule endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00312 ┃ ┃ ┃ ┣ pulmonary muscular venule tunica media

LMMA\_00393 ┃ ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00399 ┃ ┃ ┃ ┃ ┣ venous cardiac muscle

LMMA\_00132 ┃ ┃ ┃ ┃ ┃ ┣ cardiomyocyte (syn: cardiac myocyte)

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00310 ┃ ┃ ┃ ┣ pulmonary muscular venule tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00301 ┃ ┃ ┣ pulmonary distal venule**

LMMA\_00303 ┃ ┃ ┃ ┣ pulmonary distal venule tunica intima

LMMA\_00403 ┃ ┃ ┃ ┃ ┣ venule endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00617 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00302 ┃ ┃ ┃ ┣ pulmonary distal venule tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00447 ┃ ┣ pulmonary lymphatic vessel**

LMMA\_00221 ┃ ┃ ┣ lymphatic vessel tunica intima

LMMA\_00422 ┃ ┃ ┃ ┣ lymphatic endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00216 ┃ ┃ ┃ ┃ ┣ lymphatic endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00222 ┃ ┃ ┣ lymphatic vessel tunica media

LMMA\_00217 ┃ ┃ ┃ ┣ lymphatic smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00220 ┃ ┃ ┣ lymphatic vessel tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00210 lower respiratory tract – P0 to P03 (mid-to-late saccular stage of mouse lung development)**

**LMMA\_00361 trachea**

LMMA\_00362 ┣ trachea bifurcation

LMMA\_00365 ┣ trachea lumen

LMMA\_00366 ┣ trachea wall

LMMA\_00415 ┃ ┣ tracheal mucosa

LMMA\_00414 ┃ ┃ ┣ tracheal epithelium

LMMA\_00089 ┃ ┃ ┃ ┣ basement membrane

LMMA\_00590 ┃ ┃ ┃ ┣ tracheal epithelial cell

LMMA\_00087 ┃ ┃ ┃ ┃ ┣ basal cell

LMMA\_00125 ┃ ┃ ┃ ┃ ┣ chemosensory cell (syn: brush cell)

LMMA\_00142 ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00143 ┃ ┃ ┃ ┃ ┣ club cell (syn: Clara cell; nonciliated secretory cell; bronchiolar exocrine cell)

LMMA\_00184 ┃ ┃ ┃ ┃ ┣ immature club cell (syn: immature Clara cell)

LMMA\_00526 ┃ ┃ ┃ ┃ ┣ intermediate airway progenitor cell

LMMA\_00238 ┃ ┃ ┃ ┃ ┣ mucus cell (syn: mucous cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00340 ┃ ┃ ┃ ┃ ┣ serous cell

LMMA\_00384 ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell

LMMA\_00483 ┃ ┃ ┣ tracheal lamina propria

LMMA\_00136 ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00416 ┃ ┣ tracheal submucosa

LMMA\_00047 ┃ ┃ ┣ submucosal gland

LMMA\_00351 ┃ ┃ ┃ ┣ submucosal gland epithelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00694 ┃ ┃ ┃ ┃ ┣ submucosal gland epithelial cell

LMMA\_00238 ┃ ┃ ┃ ┃ ┃ ┣ mucus cell (syn: mucous cell)

LMMA\_00340 ┃ ┃ ┃ ┃ ┃ ┣ serous cell

LMMA\_00242 ┃ ┃ ┃ ┃ ┃ ┣ myoepithelial cell

LMMA\_00455 ┃ ┃ ┃ ┣ submucosal gland duct epithelium

LMMA\_00087 ┃ ┃ ┃ ┃ ┣ basal cell

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00693 ┃ ┃ ┃ ┃ ┣ submucosal gland duct epithelial cell

LMMA\_00087 ┃ ┃ ┃ ┃ ┃ ┣ basal cell

LMMA\_00125 ┃ ┃ ┃ ┃ ┃┣ chemosensory cell (syn: brush cell)

LMMA\_00142 ┃ ┃ ┃ ┃ ┃┣ ciliated cell

LMMA\_00146 ┃ ┃ ┃ ┃ ┃┣ collecting duct cell

LMMA\_00606 ┃ ┃ ┣ tracheal cartilaginous ring

LMMA\_00592 ┃ ┃ ┃ ┣ annular ligament

LMMA\_00183 ┃ ┃ ┃ ┣ hyaline cartilage

LMMA\_00141 ┃ ┃ ┃ ┃ ┣ chondrocyte

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00370 ┃ ┃ ┃ ┣ trachealis muscle (syn: membranous trachea)

LMMA\_00343 ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00410 ┃ ┃ ┃ ┣ fibroelastic membrane (syn: fibroelastic tissue; fibroelastic connective tissue)

LMMA\_00412 ┃ ┃ ┃ ┣ perichondrium

LMMA\_00136 ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00367 ┃ ┣ tracheal adventitia

LMMA\_00055 ┃ ┃ ┣ adipose tissue

LMMA\_00054 ┃ ┃ ┃ ┣ adipocyte

LMMA\_00136 ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┣ proteoglycan

**LMMA\_00120 bronchus**

**LMMA\_00527 ┣ main bronchus** (syn: primary bronchus; mainstem bronchus**)**

LMMA\_00205 ┃ ┣ left lung main bronchus (syn: left lung mainstem bronchus; left lung primary bronchus)

LMMA\_00329 ┃ ┣ right lung main bronchus(syn: right lung primary bronchus; right lung mainstem bronchus)

**LMMA\_00528 ┣ lobar bronchus** (syn: secondary bronchus)

LMMA\_00333 ┃ ┣ right lung upper lobar bronchus (syn: right cranial lobar bronchus; right apical lobar bromchus)

LMMA\_00331 ┃ ┣ right lung middle lobar bronchus (syn: right cardiac lobar bronchus)

LMMA\_00325 ┃ ┣ right lung lower lobar bronchus (syn: right caudal lobar bronchus; right diaphragmatic lobar bronchus)

LMMA\_00323 ┃ ┣ right lung accessory lobar bronchus (syn: right post-caval lobar bronchus; right infra-cardiac lobar bronchus; right intermediate lobar bronchus)

**Note: The classification scheme for each bronchus above is the same as below.**

**LMMA\_00123 ┃ ┃ ┣ bronchus lumen**

**LMMA\_00124 ┃ ┃ ┣ bronchus wall**

**LMMA\_00418 ┃ ┃ ┃ ┣ bronchial mucosa**

LMMA\_00101 ┃ ┃ ┃ ┃ ┣ bronchial epithelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00591 ┃ ┃ ┃ ┃ ┃ ┣ bronchial epithelial cell

LMMA\_00087 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basal cell

LMMA\_00125 ┃ ┃ ┃ ┃ ┃ ┃ ┣ chemosensory cell (syn: brush cell)

LMMA\_00142 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00143 ┃ ┃ ┃ ┃ ┃ ┃ ┣ club cell (syn: Clara cell; nonciliated secretory cell; bronchiolar exocrine cell)

LMMA\_00184 ┃ ┃ ┃ ┃ ┃ ┃ ┣ immature club cell (syn: immature Clara cell)

LMMA\_00526 ┃ ┃ ┃ ┃ ┃ ┃ ┣ intermediate airway progenitor cell

LMMA\_00238 ┃ ┃ ┃ ┃ ┃ ┃ ┣ mucus cell (syn: mucous cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00340 ┃ ┃ ┃ ┃ ┃ ┃ ┣ serous cell

LMMA\_00384 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell

LMMA\_00481 ┃ ┃ ┃ ┃ ┣ bronchial lamina propria

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00482 ┃ ┃ ┃ ┃ ┣ bronchial smooth muscle (syn: peribronchial smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

**LMMA\_00419 ┃ ┃ ┃ ┣ bronchial submucosa**

LMMA\_00133 ┃ ┃ ┃ ┃ ┣ bronchial cartilaginous ring (syn: cartilage ring; cartilage; cartilaginous ring)

LMMA\_00482 ┃ ┃ ┃ ┃ ┃ ┣ bronchial smooth muscle (syn: peribronchial smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00183 ┃ ┃ ┃ ┃ ┃ ┣ hyaline cartilage

LMMA\_00141 ┃ ┃ ┃ ┃ ┃ ┃ ┣ chondrocyte

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00410 ┃ ┃ ┃ ┃ ┃ ┣ fibroelastic membrane (syn: fibroelastic tissue; fibroelastic connective tissue)

LMMA\_00412 ┃ ┃ ┃ ┃ ┃ ┣ perichondrium

LMMA\_00592 ┃ ┃ ┃ ┃ ┃ ┣ annular ligament

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00094 ┃ ┃ ┃ ┣ bronchial adventitia**

LMMA\_00055 ┃ ┃ ┃ ┃ ┣ adipose tissue

LMMA\_00054 ┃ ┃ ┃ ┃ ┃ ┣ adipocyte

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00211 lung**

**LMMA\_00199 ┣ left lung**

**LMMA\_00326 ┣ right lung**

LMMA\_00332 ┃ ┣ right lung upper lobe (syn: right cranial lobe; right apical lobe)

LMMA\_00330 ┃ ┣ right lung middle lobe (syn: right cardiac lobe)

LMMA\_00324 ┃ ┣ right lung lower lobe (syn: right caudal lobe; right diaphragmatic lobe)

LMMA\_00322 ┃ ┣ right lung accessory lobe (syn: right post-caval lobe; right infra-cardiac lobe; right intermediate lobe)

**Note: The classification scheme for the left lung and right lung middle, lower, and accessory lobes is the same as for the right lung upper lobe below:**

LMMA\_00332 ┃ ┣ right lung upper lobe

LMMA\_00605 ┃ ┃ ┣ right lung upper lobe hilum

LMMA\_00039 ┃ ┃ ┣ right upper lobe bronchiole

**LMMA\_00140 ┃ ┃ ┃ ┣ central bronchiole** (syn: proximal bronchiole; primary bronchiole)

LMMA\_00138 ┃ ┃ ┃ ┃ ┣ central bronchiolar lumen

LMMA\_00139 ┃ ┃ ┃ ┃ ┣ central bronchiolar wall

LMMA\_00286 ┃ ┃ ┃ ┃ ┃ ┣ central bronchiolar epithelium (syn: proximal bronchiolar epithelium)

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00582 ┃ ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar epithelial cell

LMMA\_00142 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00184 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ immature club cell (syn: immature Clara cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00253 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroepithelial body

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00384 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell (syn: general epithelial cell; nonspecific epithelial cell)

LMMA\_00525 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar connective tissue (syn: peribronchiolar connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00240 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar smooth muscle (syn: peribronchiolar smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

**LMMA\_00198 ┃ ┃ ┃ ┣ lateral bronchiole** (syn: distal bronchiole; secondary bronchiole)

LMMA\_00196 ┃ ┃ ┃ ┃ ┣ lateral bronchiolar lumen

LMMA\_00197 ┃ ┃ ┃ ┃ ┣ lateral bronchiolar wall

LMMA\_00433 ┃ ┃ ┃ ┃ ┃ ┣ lateral bronchiolar epithelium (syn: distal bronchiolar epithelium)

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00582 ┃ ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar epithelial cell

LMMA\_00142 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00184 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ immature club cell (syn: immature Clara cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00253 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroepithelial body

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00384 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell (syn: general epithelial cell; nonspecific epithelial cell)

LMMA\_00525 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar connective tissue (syn: peribronchiolar connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00240 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar smooth muscle (syn: peribronchiolar smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

**LMMA\_00359 ┃ ┃ ┃ ┣ terminal bronchiole**

LMMA\_00357 ┃ ┃ ┃ ┃ ┣ terminal bronchiolar lumen

LMMA\_00358 ┃ ┃ ┃ ┃ ┣ terminal bronchiolar wall

LMMA\_00457 ┃ ┃ ┃ ┃ ┃ ┣ terminal bronchiolar epithelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00582 ┃ ┃ ┃ ┃ ┃ ┃ ┣bronchiolar epithelial cell

LMMA\_00142 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00184 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ immature club cell (syn: immature Clara cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00253 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroepithelial body

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00384 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell (syn: general epithelial cell; nonspecific epithelial cell)

LMMA\_00525 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar connective tissue (syn: peribronchiolar connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00240 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar smooth muscle (syn: peribronchiolar smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00119 ┃ ┃ ┃ ┃ ┣ bronchioalveolar duct junction

LMMA\_00470 ┃ ┃ ┃ ┃ ┃┣ bronchioalveolar stem cell

LMMA\_00252 ┃ ┃ ┃ ┃ ┃┣ neuroendocrine cell

**LMMA\_00038 ┃ ┃ ┣ right upper lobe alveolar parenchyma**

**LMMA\_00062 ┃ ┃ ┃ ┣ pulmonary alveolar duct**

LMMA\_00063 ┃ ┃ ┃ ┃ ┣ alveolar duct lumen

LMMA\_00215 ┃ ┃ ┃ ┃ ┃ ┣ pulmonary surfactant (syn: lung surfactant)

LMMA\_00226 ┃ ┃ ┃ ┃ ┃ ┣ alveolar macrophage

LMMA\_00064 ┃ ┃ ┃ ┃ ┣ alveolar duct wall

LMMA\_00065 ┃ ┃ ┃ ┃ ┃ ┣ alveolar epithelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00574 ┃ ┃ ┃ ┃ ┃ ┃ ┣ alveolar epithelial cell

LMMA\_00187 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ intermediate pneumocyte (syn: bi-potential pneumocyte)

LMMA\_00379 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ type I pneumocyte (syn: alveolar epithelial type I cell; AT1 cell; AEC1)

LMMA\_00381 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ type II pneumocyte (syn: alveolar epithelial type II cell; AT2 cell; AEC2)

LMMA\_00060 ┃ ┃ ┃ ┃ ┃ ┣ alveolar capillary bed (syn: alveolar capillary network)

LMMA\_00061 ┃ ┃ ┃ ┃ ┃ ┃ ┣ alveolar capillary endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00067 ┃ ┃ ┃ ┃ ┃ ┣ alveolar interstitial tissue (syn: alveolar interstitium; alveolar connective tissue;

alveolar stroma; alveolar mesenchyme)

LMMA\_00066 ┃ ┃ ┃ ┃ ┃ ┃ ┣ alveolar interstitial cell (syn: alveolar stromal cell; alveolar connective tissue cell)

LMMA\_00209 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ lipofibroblast

LMMA\_00007 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ matrix fibroblast

LMMA\_00243 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ myofibroblast (syn: matrix synthesizing fibroblast)

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00607 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative fibroblast

LMMA\_00598 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative interstitial cell

LMMA\_00465 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified alveolar interstitial cell

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00817 ┃ ┃ ┃ ┣ alveolar sac**

LMMA\_00818 ┃ ┃ ┃ ┃ ┣ alveolar sac lumen

LMMA\_00215 ┃ ┃ ┃ ┃ ┃ ┣ pulmonary surfactant (syn: lung surfactant)

LMMA\_00226 ┃ ┃ ┃ ┃ ┃ ┣ alveolar macrophage

**LMMA\_00072 ┃ ┃ ┃ ┣ alveolus of lung**

LMMA\_00068 ┃ ┃ ┃ ┃ ┣ alveolar lumen

LMMA\_00215 ┃ ┃ ┃ ┃ ┃ ┣ pulmonary surfactant (syn: lung surfactant)

LMMA\_00226 ┃ ┃ ┃ ┃ ┃ ┣ alveolar macrophage

**LMMA\_00002 ┃ ┃ ┃ ┃┣ alveolar septum (syn: alveolar wall, inter-alveolar septum)**

**LMMA\_00279 ┃ ┃ ┃ ┃ ┃ ┣ primary alveolar septum (syn: primary alveolar saccule; primary septum)**

**NOTE: there are NO alveolar septal crests/ridges yet or secondary alveoli or alveolar speta**

LMMA\_00065 ┃ ┃ ┃ ┃ ┃ ┃ ┣ alveolar epithelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00574 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ alveolar epithelial cell

LMMA\_00187 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃┣ intermediate pneumocyte (syn: bi-potential pneumocyte)

LMMA\_00379 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃┣ type I pneumocyte (syn: alveolar epithelial type I cell; AT1 cell; AEC1)

LMMA\_00381 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ type II pneumocyte (syn: alveolar epithelial type II cell; AT2 cell; AEC2)

LMMA\_00060 ┃ ┃ ┃ ┃ ┃ ┃ ┣ alveolar capillary bed (syn: alveolar capillary network)

LMMA\_00061 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ alveolar capillary endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00067 ┃ ┃ ┃ ┃ ┃ ┣ alveolar interstitial tissue (syn: alveolar interstitium; alveolar connective tissue;

alveolar stroma; alveolar mesenchyme)

LMMA\_00066 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ alveolar interstitial cell (syn stromal or connective tissue cell)

LMMA\_00209 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ lipofibroblast

LMMA\_00007 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ matrix fibroblast (syn: matrix synthesizing fibroblast)

LMMA\_00243 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ myofibroblast

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00607 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative fibroblast

LMMA\_00598 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative interstitial cell

LMMA\_00465 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified alveolar interstitial cell

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00046 ┃ ┃ ┣ right upper lobe visceral pleura**

LMMA\_00405 ┃ ┃ ┃ ┣ visceral connective tissue

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00386 ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00406 ┃ ┃ ┃ ┣ visceral mesothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00231 ┃ ┃ ┃ ┃ ┣ mesothelial cell

**LMMA\_00520 respiratory autonomic nervous system (syn: autonomic respiratory nervous system)**

LMMA\_00641 ┣ pulmonary autonomic nerve

LMMA\_00257 ┃ ┣ non-adrenergic and non-cholinergic nerve (syn: sensory nerve)

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00270 ┃ ┣ postganglionic parasympathetic nerve (syn: cholinenergic innervation)

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00352 ┃ ┣postganglionic sympathetic nerve (syn: adrenergic innervation)

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00642 ┃ ┣preganglionic parasympathetic nerve

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00634 ┣ pulmonary autonomic ganglion (syn: nerve cell cluster)

LMMA\_00521 ┃ ┣ autonomic neuron (syn: autonomic ganglion cell; autonomic ganglion neuron))

LMMA\_00338 ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00633 ┣ pulmonary nerve plexus

LMMA\_00635 ┃ ┣ left pulmonary nerve plexus

LMMA\_00636 ┃ ┃ ┣ left anterior pulmonary nerve plexus

LMMA\_00637 ┃ ┃ ┣ left posterior pulmonary nerve plexus

LMMA\_00638 ┃ ┣ right pulmonary nerve plexus

LMMA\_00639 ┃ ┃ ┣ right anterior pulmonary nerve plexus

LMMA\_00640 ┃ ┃ ┣ right posterior pulmonary nerve plexus

LMMA\_00643 ┣ general visceral nervous system

LMMA\_00644 ┃ ┣ general visceral afferent nerve (syn: sensory nerve)

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00645 ┃ ┃ ┣ visceral afferent sensory nerve terminal (syn: visceral afferent sensory nerve receptor)

**LMMA\_00522 respiratory immune system**

LMMA\_00185 ┣ immune cell

LMMA\_00150 ┃ ┣ dendritic cell

LMMA\_00676 ┃ ┃ ┣ Langerhans cell

LMMA\_00241 ┃ ┣ myeloid cell

LMMA\_00179 ┃ ┃ ┣ granulocyte

LMMA\_00090 ┃ ┃ ┃ ┣ basophil (syn: basophilic leukocyte; basophilic granulocyte)

LMMA\_00163 ┃ ┃ ┃ ┣ eosinophil

LMMA\_00256 ┃ ┃ ┃ ┣ neutrophil

LMMA\_00182 ┃ ┃ ┣ macrophage (syn: histiocyte)

LMMA\_00226 ┃ ┃ ┃ ┣ alveolar macrophage

LMMA\_00213 ┃ ┃ ┃ ┣ interstitial macrophage (syn: lung tissue macrophage; pulmonary interstitial macrophage)

LMMA\_00698 ┃ ┃ ┃ ┣ lymph node macrophage

LMMA\_00227 ┃ ┃ ┣ mast cell

LMMA\_00613 ┃ ┃ ┣ megakaryocyte

LMMA\_00668 ┃ ┃ ┃ ┣ platelet

LMMA\_00233 ┃ ┃ ┣ monocyte

LMMA\_00742 ┃ ┃ ┣ neutrophil, Lgals3-negative myeloid

LMMA\_00614 ┃ ┣ lymphoid cell

LMMA\_00620 ┃ ┃ ┣ innate lymphoid cell

LMMA\_00245 ┃ ┃ ┃ ┣ natural killer cell (syn: non-T, non-B lymphocyte; large granular lymphocyte)

LMMA\_00437 ┃ ┃ ┃ ┣ nuocyte

LMMA\_00223 ┃ ┃ ┣ lymphocyte

LMMA\_00086 ┃ ┃ ┃ ┣ B Lymphocyte (syn: B cell)

LMMA\_00677┃ ┃ ┃ ┃ ┣ plasma cell (syn: mature B lymphocyte)

LMMA\_00354 ┃ ┃ ┃ ┣ T Lymphocyte (syn: T cell)

LMMA\_00816 ┃ ┃ ┃ ┣ peripheral blood lymphocytes

LMMA\_00626 ┣ lymphoid tissue

LMMA\_00475     ┃ ┣ bronchus associated lymphoid tissue

LMMA\_00086 ┃ ┃ ┣ B Lymphocyte (syn: B cell)

LMMA\_00677 ┃ ┃ ┃┣ plasma cell (syn: mature B lymphocyte)

LMMA\_00354 ┃ ┃ ┣ T Lymphocyte (syn: T cell)

LMMA\_00224 ┃ ┣lymph node

LMMA\_00678    ┃ ┃ ┣ connective tissue capsule

LMMA\_00679     ┃ ┃ ┃ ┣ trabecula

LMMA\_00680     ┃ ┃ ┣ cortex

LMMA\_00681     ┃ ┃ ┃ ┣ primary lymphoid follicle

LMMA\_00699 ┃ ┃ ┃ ┃ ┣ germinal center (syn: central zone of follicle; reactive center of follicle)

LMMA\_00086     ┃ ┃ ┃ ┃ ┃ ┣ B Lymphocyte (syn: B cell)

LMMA\_00677     ┃ ┃ ┃ ┃ ┃ ┃ ┣ plasma cell (syn: mature B lymphocyte)

LMMA\_00686    ┃ ┃ ┣ endothelial sinus

LMMA\_00687    ┃ ┃ ┃ ┣ cortical sinus

LMMA\_00688    ┃ ┃ ┃ ┣ medullary sinus

LMMA\_00689    ┃ ┃ ┃ ┣ paratrabecular sinus (syn: trabecular sinus)

LMMA\_00690 ┃ ┃ ┃ ┣ subcapsular sinus

LMMA\_00223 ┃ ┃ ┣ lymphocyte

LMMA\_00086 ┃ ┃ ┃ ┣ B Lymphocyte (syn: B cell)

LMMA\_00677┃ ┃ ┃ ┃ ┣ plasma cell (syn: mature B lymphocyte)

LMMA\_00354 ┃ ┃ ┃ ┣ T Lymphocyte (syn: T cell)

LMMA\_00816 ┃ ┃ ┃ ┣ peripheral blood lymphocytes

LMMA\_00682    ┃ ┃ ┣ medulla

LMMA\_00683    ┃ ┃ ┃ ┣ medullary cord

LMMA\_00086    ┃ ┃ ┃ ┃ ┣ B Lymphocyte (syn: B cell)

LMMA\_00677    ┃ ┃ ┃ ┃ ┃ ┣ plasma cell (syn: mature B lymphocyte)

LMMA\_00698    ┃ ┃ ┃ ┃ ┣ lymphoid macrophage

LMMA\_00684    ┃ ┃ ┣ paracortex (syn: subcortical zone, interfollicular area of the lymph node)

LMMA\_00685    ┃ ┃ ┃ ┣ reticular cell

LMMA\_00354   ┃ ┃ ┃ ┣ T Lymphocyte (syn: T cell)

**LMMA\_00523 respiratory vascular system** (syn: vascular system; vasculature)

**LMMA\_00692 ┣ blood cell**

LMMA\_00619 ┃ ┣ erythrocyte

LMMA\_00179 ┃ ┣ granulocyte

LMMA\_00090 ┃ ┃ ┣ basophil (syn: basophilic leukocyte; basophilic granulocyte)

LMMA\_00163 ┃ ┃ ┣ eosinophil

LMMA\_00256 ┃ ┃ ┣ neutrophil

LMMA\_00233 ┃ ┣ monocyte

LMMA\_00819 ┃ ┣ peripheral blood lymphocyte

**LMMA\_00104 ┣ bronchial blood vessel**

**LMMA\_00098 ┃ ┣ bronchial artery**

**LMMA\_00095 ┃ ┣ bronchial arteriole**

**LMMA\_00105 ┃ ┣ bronchial vein**

**LMMA\_00109 ┃ ┣ bronchial venule**

**LMMA\_00519 ┃ ┣ bronchial capillary**

LMMA\_00293 ┃ ┃ ┣ capillary tunica intima

LMMA\_00378 ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00292 ┃ ┃ ┣ capillary tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**Note: the classification schema for “bronchial blood vessel” is as follows:**

**• The classification scheme for the “bronchial artery” is the same as for the “pulmonary muscular artery” below**

**• The classification scheme for the “bronchial arteriole” is the same as for the “pulmonary distal arteriole” below**

**• The classification scheme for the “bronchial venule” is the same as for the “pulmonary vein” (does not include the**

**“vasa vasorum”) below**

**• The classification scheme for the “bronchial artery” is the same as for the “pulmonary distal venule” below**

**LMMA\_00315 ┣ pulmonary blood vessel**

**LMMA\_00632 ┃ ┣ intra-parenchymal blood vessel**

**LMMA\_00291 ┃ ┣ pulmonary artery**

LMMA\_00293 ┃ ┃ ┣ pulmonary artery tunica intima

LMMA\_00081 ┃ ┃ ┃ ┣ artery endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00616 ┃ ┃ ┃ ┃ ┣ arterial endothelial cell

LMMA\_00191 ┃ ┃ ┃ ┣ internal elastic membrane

LMMA\_00378 ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00294 ┃ ┃ ┣ pulmonary artery tunica media

LMMA\_00167 ┃ ┃ ┃ ┣ external elastic membrane

LMMA\_00393 ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00292 ┃ ┃ ┣ pulmonary artery tunica adventitia

LMMA\_00395 ┃ ┃ ┃ ┣ vasa vasorum

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00290 ┃ ┣ pulmonary arteriole**

**LMMA\_00304 ┃ ┃ ┣ pulmonary muscular arteriole**

LMMA\_00488 ┃ ┃ ┃ ┣ pulmonary muscular arteriole tunica intima

LMMA\_00078 ┃ ┃ ┃ ┃ ┣ arteriole endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00489 ┃ ┃ ┃ ┣ pulmonary muscular arteriole tunica media

LMMA\_00393 ┃ ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00486 ┃ ┃ ┃ ┣ pulmonary muscular arteriole tunica adventitia

LMMA\_00395 ┃ ┃ ┃ ┃ ┣ vasa vasorum

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00297 ┃ ┃ ┣ pulmonary distal arteriole**

LMMA\_00299 ┃ ┃ ┃ ┣ pulmonary distal arteriole tunica intima

LMMA\_00078 ┃ ┃ ┃ ┃ ┣ arteriole endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00300 ┃ ┃ ┃ ┣ pulmonary distal arteriole tunica media

LMMA\_00393 ┃ ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00298 ┃ ┃ ┃ ┣ pulmonary distal arteriole tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00305 ┃ ┣ pulmonary vein**

LMMA\_00307 ┃ ┃ ┣ pulmonary vein tunica intima

LMMA\_00378 ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00397 ┃ ┃ ┃ ┣ vein endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00507 ┃ ┃ ┃ ┃ ┣ venous endothelial cell

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00308 ┃ ┃ ┣ pulmonary vein tunica media

LMMA\_00393 ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00399 ┃ ┃ ┃ ┣ venous cardiac muscle

LMMA\_00132 ┃ ┃ ┃ ┃ ┣cardiomyocyte (syn: cardiac myocyte)

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00306 ┃ ┃ ┣ pulmonary vein tunica adventitia

LMMA\_00395 ┃ ┃ ┃ ┣ vasa vasorum

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00316 ┃ ┣ pulmonary venule**

**LMMA\_00309 ┃ ┃ ┣ pulmonary muscular venule**

LMMA\_00311 ┃ ┃ ┃ ┣ pulmonary muscular venule tunica intima

LMMA\_00403 ┃ ┃ ┃ ┃ ┣ venule endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00312 ┃ ┃ ┃ ┣ pulmonary muscular venule tunica media

LMMA\_00393 ┃ ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00399 ┃ ┃ ┃ ┃ ┣ venous cardiac muscle

LMMA\_00132 ┃ ┃ ┃ ┃ ┃ ┣ cardiomyocyte (syn: cardiac myocyte)

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00310 ┃ ┃ ┃ ┣ pulmonary muscular venule tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00301 ┃ ┃ ┣ pulmonary distal venule**

LMMA\_00303 ┃ ┃ ┃ ┣ pulmonary distal venule tunica intima

LMMA\_00403 ┃ ┃ ┃ ┃ ┣ venule endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00302 ┃ ┃ ┃ ┣ pulmonary distal venule tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00447 ┃ ┣ pulmonary lymphatic vessel**

LMMA\_00221 ┃ ┃ ┣ lymphatic vessel tunica intima

LMMA\_00422 ┃ ┃ ┃ ┣ lymphatic endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00216 ┃ ┃ ┃ ┃ ┣ lymphatic endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00222 ┃ ┃ ┣ lymphatic vessel tunica media

LMMA\_00217 ┃ ┃ ┃ ┣ lymphatic smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00220 ┃ ┃ ┣ lymphatic vessel tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00210 lower respiratory tract – P04-P30 (alveolar stage of mouse lung development)**

**LMMA\_00361 trachea**

LMMA\_00362 ┣ trachea bifurcation

LMMA\_00365 ┣ trachea lumen

LMMA\_00366 ┣ trachea wall

**LMMA\_00415 ┃ ┣ tracheal mucosa**

LMMA\_00414 ┃ ┃ ┣ tracheal epithelium

LMMA\_00089 ┃ ┃ ┃ ┣ basement membrane

LMMA\_00590 ┃ ┃ ┃ ┣ tracheal epithelial cell

LMMA\_00087 ┃ ┃ ┃ ┃ ┣ basal cell

LMMA\_00125 ┃ ┃ ┃ ┃ ┣ chemosensory cell (syn: brush cell)

LMMA\_00142 ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00143 ┃ ┃ ┃ ┃ ┣ club cell (syn: Clara cell; nonciliated secretory cell; bronchiolar exocrine cell)

LMMA\_00526 ┃ ┃ ┃ ┃ ┣ intermediate airway progenitor cell

LMMA\_00238 ┃ ┃ ┃ ┃ ┣ mucus cell (syn: mucous cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00340 ┃ ┃ ┃ ┃ ┣ serous cell

LMMA\_00384 ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell

LMMA\_00483 ┃ ┃ ┣ tracheal lamina propria

LMMA\_00136 ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00416 ┃ ┣ tracheal submucosa**

LMMA\_00047 ┃ ┃ ┣ submucosal gland

LMMA\_00351 ┃ ┃ ┃ ┣ submucosal gland epithelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00694 ┃ ┃ ┃ ┃ ┣ submucosal gland epithelial cell

LMMA\_00238 ┃ ┃ ┃ ┃ ┃ ┣ mucus cell (syn: mucous cell)

LMMA\_00340 ┃ ┃ ┃ ┃ ┃ ┣ serous cell

LMMA\_00242 ┃ ┃ ┃ ┃ ┃ ┣ myoepithelial cell

LMMA\_00455 ┃ ┃ ┃ ┣ submucosal gland duct epithelium

LMMA\_00087 ┃ ┃ ┃ ┃ ┣ basal cell

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00693 ┃ ┃ ┃ ┃ ┣ submucosal gland duct epithelial cell

LMMA\_00087 ┃ ┃ ┃ ┃ ┃ ┣ basal cell

LMMA\_00125 ┃ ┃ ┃ ┃ ┃┣ chemosensory cell (syn: brush cell)

LMMA\_00142 ┃ ┃ ┃ ┃ ┃┣ ciliated cell

LMMA\_00146 ┃ ┃ ┃ ┃ ┃┣ collecting duct cellf

LMMA\_00606 ┃ ┃ ┣ tracheal cartilaginous ring

LMMA\_00592 ┃ ┃ ┃ ┣ annular ligament

LMMA\_00183 ┃ ┃ ┃ ┣ hyaline cartilage

LMMA\_00141 ┃ ┃ ┃ ┃ ┣ chondrocyte

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00370 ┃ ┃ ┃ ┣ trachealis muscle (syn: membranous trachea)

LMMA\_00343 ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00410 ┃ ┃ ┃ ┣ fibroelastic membrane (syn: fibroelastic tissue; fibroelastic connective tissue)

LMMA\_00412 ┃ ┃ ┃ ┣ perichondrium

LMMA\_00136 ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00367 ┃ ┣ tracheal adventitia**

LMMA\_00055 ┃ ┃ ┣ adipose tissue

LMMA\_00054 ┃ ┃ ┃ ┣ adipocyte

LMMA\_00136 ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┣ proteoglycan

**LMMA\_00120 bronchus**

**LMMA\_00527 ┣ main bronchus** (syn: primary bronchus; mainstem bronchus**)**

LMMA\_00205 ┃ ┣ left lung main bronchus (syn: left lung mainstem bronchus; left lung primary bronchus)

LMMA\_00329 ┃ ┣ right lung main bronchus(syn: right lung primary bronchus; right lung mainstem bronchus)

**LMMA\_00528 ┣ lobar bronchus** (syn: secondary bronchus)

LMMA\_00333 ┃ ┣ right lung upper lobar bronchus (syn: right cranial lobar bronchus; right apical lobar bromchus)

LMMA\_00331 ┃ ┣ right lung middle lobar bronchus (syn: right cardiac lobar bronchus)

LMMA\_00325 ┃ ┣ right lung lower lobar bronchus (syn: right caudal lobar bronchus; right diaphragmatic lobar bronchus)

LMMA\_00323 ┃ ┣ right lung accessory lobar bronchus (syn: right post-caval lobar bronchus; right infra-cardiac lobar

bronchus; right intermediate lobar bronchus)

**Note: The classification scheme for each bronchus above is the same as below.**

LMMA\_00123 ┃ ┃ ┣ bronchus lumen

LMMA\_00124 ┃ ┃ ┣ bronchus wall

LMMA\_00418 ┃ ┃ ┃ ┣ bronchial mucosa

LMMA\_00101 ┃ ┃ ┃ ┃ ┣ bronchial epithelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00591 ┃ ┃ ┃ ┃ ┃ ┣ bronchial epithelial cell

LMMA\_00087 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basal cell

LMMA\_00125 ┃ ┃ ┃ ┃ ┃ ┃ ┣ chemosensory cell (syn: brush cell)

LMMA\_00142 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00143 ┃ ┃ ┃ ┃ ┃ ┃ ┣ club cell (syn: Clara cell; nonciliated secretory cell; bronchiolar exocrine cell)

LMMA\_00526 ┃ ┃ ┃ ┃ ┃ ┃ ┣ intermediate airway progenitor cell

LMMA\_00238 ┃ ┃ ┃ ┃ ┃ ┃ ┣ mucus cell (syn: mucous cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00340 ┃ ┃ ┃ ┃ ┃ ┃ ┣ serous cell

LMMA\_00384 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell

LMMA\_00481 ┃ ┃ ┃ ┃ ┣ bronchial lamina propria

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00482 ┃ ┃ ┃ ┃ ┣ bronchial smooth muscle (syn: peribronchial smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00419 ┃ ┃ ┃ ┣ bronchial submucosa

LMMA\_00133 ┃ ┃ ┃ ┃ ┣ bronchial cartilaginous ring (syn: cartilage ring; cartilage; cartilaginous ring)

LMMA\_00482 ┃ ┃ ┃ ┃ ┃ ┣ bronchial smooth muscle (syn: peribronchial smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00183 ┃ ┃ ┃ ┃ ┃ ┣ hyaline cartilage

LMMA\_00141 ┃ ┃ ┃ ┃ ┃ ┃ ┣ chondrocyte

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00410 ┃ ┃ ┃ ┃ ┃ ┣ fibroelastic membrane (syn: fibroelastic tissue; fibroelastic connective tissue)

LMMA\_00412 ┃ ┃ ┃ ┃ ┃ ┣ perichondrium

LMMA\_00592 ┃ ┃ ┃ ┃ ┃ ┣ annular ligament

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00094 ┃ ┃ ┃ ┣ bronchial adventitia

LMMA\_00055 ┃ ┃ ┃ ┃ ┣ adipose tissue

LMMA\_00054 ┃ ┃ ┃ ┃ ┃ ┣ adipocyte

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00211 lung**

**LMMA\_00199 ┣ left lung**

**LMMA\_00326 ┣ right lung**

LMMA\_00332 ┃ ┣ right lung upper lobe (syn: right cranial lobe; right apical lobe)

LMMA\_00330 ┃ ┣ right lung middle lobe (syn: right cardiac lobe)

LMMA\_00324 ┃ ┣ right lung lower lobe (syn: right caudal lobe; right diaphragmatic lobe)

LMMA\_00322 ┃ ┣ right lung accessory lobe (syn: right post-caval lobe; right infra-cardiac lobe; right intermediate lobe)

**Note: The classification scheme for the left lung and right lung middle, lower, and accessory lobes is the same as for the right lung upper lobe below:**

LMMA\_00332 ┃ ┣ right lung upper lobe

LMMA\_00605 ┃ ┃ ┣ right lung upper lobe hilum

LMMA\_00039 ┃ ┃ ┣ right upper lobe bronchiole

**LMMA\_00140 ┃ ┃ ┃ ┣ central bronchiole** (syn: proximal bronchiole; primary bronchiole)

LMMA\_00138 ┃ ┃ ┃ ┃ ┣ central bronchiolar lumen

LMMA\_00139 ┃ ┃ ┃ ┃ ┣ central bronchiolar wall

LMMA\_00286 ┃ ┃ ┃ ┃ ┃ ┣ central bronchiolar epithelium (syn: proximal bronchiolar epithelium)

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00582 ┃ ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar epithelial cell

LMMA\_00142 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00143 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ club cell (syn: Clara cell; nonciliated secretory cell; bronchiolar exocrine cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00253 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroepithelial body

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00384 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell (syn: general epithelial cell; nonspecific epithelial cell)

LMMA\_00525 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar connective tissue (syn: peribronchiolar connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00240 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar smooth muscle (syn: peribronchiolar smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

**LMMA\_00198 ┃ ┃ ┃ ┣ lateral bronchiole** (syn: distal bronchiole; secondary bronchiole)

LMMA\_00196 ┃ ┃ ┃ ┃ ┣ lateral bronchiolar lumen

LMMA\_00197 ┃ ┃ ┃ ┃ ┣ lateral bronchiolar wall

LMMA\_00433 ┃ ┃ ┃ ┃ ┃ ┣ lateral bronchiolar epithelium (syn: distal bronchiolar epithelium)

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00582 ┃ ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar epithelial cell

LMMA\_00142 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00143 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ club cell (syn: Clara cell; nonciliated secretory cell; bronchiolar exocrine cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00253 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroepithelial body

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00384 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell (syn: general epithelial cell; nonspecific epithelial cell)

LMMA\_00525 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar connective tissue (syn: peribronchiolar connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00240 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar smooth muscle (syn: peribronchiolar smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

**LMMA\_00359 ┃ ┃ ┃ ┣ terminal bronchiole**

LMMA\_00357 ┃ ┃ ┃ ┃ ┣ terminal bronchiolar lumen

LMMA\_00358 ┃ ┃ ┃ ┃ ┣ terminal bronchiolar wall

LMMA\_00457 ┃ ┃ ┃ ┃ ┃ ┣ terminal bronchiolar epithelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00582 ┃ ┃ ┃ ┃ ┃ ┃ ┣bronchiolar epithelial cell

LMMA\_00142 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ciliated cell

LMMA\_00143 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ club cell (syn: Clara cell; nonciliated secretory cell; bronchiolar exocrine cell)

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00253 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroepithelial body

LMMA\_00252 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ neuroendocrine cell

LMMA\_00384 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified epithelial cell (syn: general epithelial cell; nonspecific epithelial cell)

LMMA\_00525 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar connective tissue (syn: peribronchiolar connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00240 ┃ ┃ ┃ ┃ ┃ ┣ bronchiolar smooth muscle (syn: peribronchiolar smooth muscle)

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00119 ┃ ┃ ┃ ┃ ┣ bronchioalveolar duct junction

LMMA\_00470 ┃ ┃ ┃ ┃ ┃┣ bronchioalveolar stem cell

LMMA\_00252 ┃ ┃ ┃ ┃ ┃┣ neuroendocrine cell

**LMMA\_00038 ┃ ┃ ┣ right upper lobe alveolar parenchyma**

**LMMA\_00062 ┃ ┃ ┃ ┣ pulmonary alveolar duct**

LMMA\_00063 ┃ ┃ ┃ ┃ ┣ alveolar duct lumen

LMMA\_00215 ┃ ┃ ┃ ┃ ┃ ┣ pulmonary surfactant (syn: lung surfactant)

LMMA\_00226 ┃ ┃ ┃ ┃ ┃ ┣ alveolar macrophage

LMMA\_00064 ┃ ┃ ┃ ┃ ┣ alveolar duct wall

LMMA\_00065 ┃ ┃ ┃ ┃ ┃ ┣ alveolar epithelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00574 ┃ ┃ ┃ ┃ ┃ ┃ ┣ alveolar epithelial cell

LMMA\_00379 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ type I pneumocyte (syn: alveolar epithelial type I cell; AT1 cell; AEC1)

LMMA\_00381 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ type II pneumocyte (syn: alveolar epithelial type II cell; AT2 cell; AEC2)

LMMA\_00060 ┃ ┃ ┃ ┃ ┃ ┣ alveolar capillary bed (syn: alveolar capillary network)

LMMA\_00061 ┃ ┃ ┃ ┃ ┃ ┃ ┣ alveolar capillary endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00067 ┃ ┃ ┃ ┃ ┃ ┣ alveolar interstitial tissue (syn: alveolar interstitium; alveolar connective tissue;

alveolar stroma; alveolar mesenchyme)

LMMA\_00066 ┃ ┃ ┃ ┃ ┃ ┃ ┣ alveolar interstitial cell (syn: alveolar stromal cell; alveolar connective tissue cell)

LMMA\_00209 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ lipofibroblast

LMMA\_00007 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ matrix fibroblast

LMMA\_00243 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ myofibroblast (syn: matrix synthesizing fibroblast)

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00607 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative fibroblast

LMMA\_00598 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative interstitial cell

LMMA\_00465 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified alveolar interstitial cell

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00817 ┃ ┃ ┃ ┣ alveolar sac**

LMMA\_00818 ┃ ┃ ┃ ┃ ┣ alveolar sac lumen

LMMA\_00215 ┃ ┃ ┃ ┃ ┃ ┣ pulmonary surfactant (syn: lung surfactant)

LMMA\_00226 ┃ ┃ ┃ ┃ ┃ ┣ alveolar macrophage

**LMMA\_00072 ┃ ┃ ┃ ┣ alveolus of lung**

LMMA\_00068 ┃ ┃ ┃ ┃ ┣ alveolar lumen

LMMA\_00215 ┃ ┃ ┃ ┃ ┃ ┣ pulmonary surfactant (syn: lung surfactant)

LMMA\_00226 ┃ ┃ ┃ ┃ ┃ ┣ alveolar macrophage

**LMMA\_00002 ┃ ┃ ┃ ┃┣ alveolar septum (syn: alveolar wall, inter-alveolar septum)**

**LMMA\_00279 ┃ ┃ ┃ ┃ ┃ ┣ primary alveolar septum (syn: primary septum)**

**LMMA\_00071 ┃ ┃ ┃ ┃ ┃ ┣ alveolar septal crest (syn: alveolar septal ridge, secondary septal crest)**

**LMMA\_00339 ┃ ┃ ┃ ┃ ┃ ┣ secondary alveolar septum**

**Note: the classification scheme for “primary alveolar septum”, “alveolar septal crest”, and “secondary alveolar septum” is the same as below.**

LMMA\_00065 ┃ ┃ ┃ ┃ ┃ ┃ ┣ alveolar epithelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00574 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ alveolar epithelial cell

LMMA\_00379 ┃ ┃ ┃ ┃ ┃ ┃ ┃┃┣ type I pneumocyte (syn: alveolar epithelial type I cell; AT1 cell; AEC1)

LMMA\_00381 ┃ ┃ ┃ ┃ ┃ ┃ ┃┃ ┣ type II pneumocyte (syn: alveolar epithelial type II cell; AT2 cell; AEC2)

LMMA\_00060 ┃ ┃ ┃ ┃ ┃ ┃ ┣ alveolar capillary bed (syn: alveolar capillary network)

LMMA\_00061 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ alveolar capillary endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00067 ┃ ┃ ┃ ┃ ┃ ┣ alveolar interstitial tissue (syn: alveolar interstitium; alveolar connective tissue;

alveolar stroma; alveolar mesenchyme)

LMMA\_00066 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ alveolar interstitial cell (syn stromal or connective tissue cell)

LMMA\_00209 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ lipofibroblast

LMMA\_00007 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ matrix fibroblast (syn: matrix synthesizing fibroblast)

LMMA\_00243 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ myofibroblast

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00607 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative fibroblast

LMMA\_00598 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative interstitial cell

LMMA\_00465 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified alveolar interstitial cell

LMMA\_00697 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proliferative myofibroblast

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00046 ┃ ┃ ┣ right upper lobe visceral pleura**

LMMA\_00405 ┃ ┃ ┃ ┣ visceral connective tissue

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00386 ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00406 ┃ ┃ ┃ ┣ visceral mesothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00231 ┃ ┃ ┃ ┃ ┣ mesothelial cell

**LMMA\_00520 respiratory autonomic nervous system (syn: autonomic respiratory nervous system)**

LMMA\_00641 ┣ pulmonary autonomic nerve

LMMA\_00257 ┃ ┣ non-adrenergic and non-cholinergic nerve (syn: sensory nerve)

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00270 ┃ ┣ postganglionic parasympathetic nerve (syn: cholinenergic innervation)

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00352 ┃ ┣postganglionic sympathetic nerve (syn: adrenergic innervation)

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00642 ┃ ┣preganglionic parasympathetic nerve

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00634 ┣ pulmonary autonomic ganglion (syn: nerve cell cluster)

LMMA\_00521 ┃ ┣ autonomic neuron (syn: autonomic ganglion cell; autonomic ganglion neuron))

LMMA\_00338 ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00633 ┣ pulmonary nerve plexus

LMMA\_00635 ┃ ┣ left pulmonary nerve plexus

LMMA\_00636 ┃ ┃ ┣ left anterior pulmonary nerve plexus

LMMA\_00637 ┃ ┃ ┣ left posterior pulmonary nerve plexus

LMMA\_00638 ┃ ┣ right pulmonary nerve plexus

LMMA\_00639 ┃ ┃ ┣ right anterior pulmonary nerve plexus

LMMA\_00640 ┃ ┃ ┣ right posterior pulmonary nerve plexus

LMMA\_00643 ┣ general visceral nervous system

LMMA\_00644 ┃ ┣ general visceral afferent nerve (syn: sensory nerve)

LMMA\_00247 ┃ ┃ ┣ nerve fiber

LMMA\_00338 ┃ ┃ ┣ glial cell (syn: neuroglial cell; Schwann cell)

LMMA\_00645 ┃ ┃ ┣ visceral afferent sensory nerve terminal (syn: visceral afferent sensory nerve receptor)

**LMMA\_00522 respiratory immune system**

**LMMA\_00185 ┣ immune cell**

LMMA\_00735 ┃ ┣ T cell 1

LMMA\_00736 ┃ ┣ T cell 2

LMMA\_00150 ┃ ┣ dendritic cell

LMMA\_00676 ┃ ┃ ┣ Langerhans cell

LMMA\_00241 ┃ ┣ myeloid cell

LMMA\_00179 ┃ ┃ ┣ granulocyte

LMMA\_00090 ┃ ┃ ┃ ┣ basophil (syn: basophilic leukocyte; basophilic granulocyte)

LMMA\_00163 ┃ ┃ ┃ ┣ eosinophil

LMMA\_00256 ┃ ┃ ┃ ┣ neutrophil

LMMA\_00182 ┃ ┃ ┣ macrophage (syn: histiocyte)

LMMA\_00226 ┃ ┃ ┃ ┣ alveolar macrophage

LMMA\_00213 ┃ ┃ ┃ ┣ interstitial macrophage (syn: lung tissue macrophage; pulmonary interstitial macrophage)

LMMA\_00698 ┃ ┃ ┃ ┣ lymph node macrophage

LMMA\_00227 ┃ ┃ ┣ mast cell

LMMA\_00613 ┃ ┃ ┣ megakaryocyte

LMMA\_00668 ┃ ┃ ┃ ┣ platelet

LMMA\_00233 ┃ ┃ ┣ monocyte

LMMA\_00742 ┃ ┃ ┣ neutrophil, Lgals3-negative myeloid

LMMA\_00614 ┃ ┣ lymphoid cell

LMMA\_00620 ┃ ┃ ┣ innate lymphoid cell

LMMA\_00245 ┃ ┃ ┃ ┣ natural killer cell (syn: non-T, non-B lymphocyte; large granular lymphocyte)

LMMA\_00437 ┃ ┃ ┃ ┣ nuocyte

LMMA\_00223 ┃ ┃ ┣ lymphocyte

LMMA\_00086 ┃ ┃ ┃ ┣ B Lymphocyte (syn: B cell)

LMMA\_00677┃ ┃ ┃ ┃ ┣ plasma cell (syn: mature B lymphocyte)

LMMA\_00354 ┃ ┃ ┃ ┣ T Lymphocyte (syn: T cell)

LMMA\_00816 ┃ ┃ ┃ ┣ peripheral blood lymphocytes

**LMMA\_00626 ┣ lymphoid tissue**

LMMA\_00475     ┃ ┣ bronchus associated lymphoid tissue

LMMA\_00086 ┃ ┃ ┣ B Lymphocyte (syn: B cell)

LMMA\_00677┃ ┃ ┃┣ plasma cell (syn: mature B lymphocyte)

LMMA\_00354 ┃ ┃ ┣ T Lymphocyte (syn: T cell)

LMMA\_00224 ┃ ┣ lymph node

LMMA\_00678    ┃ ┃ ┣ connective tissue capsule

LMMA\_00679     ┃ ┃ ┃ ┣ trabecula

LMMA\_00680     ┃ ┃ ┣ cortex

LMMA\_00681     ┃ ┃ ┃ ┣ primary lymphoid follicle

LMMA\_00699 ┃ ┃ ┃ ┃ ┣ germinal center (syn: central zone of follicle; reactive center of follicle)

LMMA\_00086     ┃ ┃ ┃ ┃ ┃ ┣ B Lymphocyte (syn: B cell)

LMMA\_00677     ┃ ┃ ┃ ┃ ┃ ┃ ┣ plasma cell (syn: mature B lymphocyte)

LMMA\_00686    ┃ ┃ ┣ endothelial sinus

LMMA\_00687    ┃ ┃ ┃ ┣ cortical sinus

LMMA\_00688    ┃ ┃ ┃ ┣ medullary sinus

LMMA\_00689    ┃ ┃ ┃ ┣ paratrabecular sinus (syn: trabecular sinus)

LMMA\_00690 ┃ ┃ ┃ ┣ subcapsular sinus

LMMA\_00223 ┃ ┃ ┣ lymphocyte

LMMA\_00086 ┃ ┃ ┃ ┣ B Lymphocyte (syn: B cell)

LMMA\_00677┃ ┃ ┃ ┃ ┣ plasma cell (syn: mature B lymphocyte)

LMMA\_00354 ┃ ┃ ┃ ┣ T Lymphocyte (syn: T cell)

LMMA\_00816 ┃ ┃ ┃ ┣ peripheral blood lymphocytes

LMMA\_00682    ┃ ┃ ┣ medulla

LMMA\_00683    ┃ ┃ ┃ ┣ medullary cord

LMMA\_00086    ┃ ┃ ┃ ┃ ┣ B Lymphocyte (syn: B cell)

LMMA\_00677    ┃ ┃ ┃ ┃ ┃ ┣ plasma cell (syn: mature B lymphocyte)

LMMA\_00698    ┃ ┃ ┃ ┃ ┣ lymphoid macrophage

LMMA\_00684    ┃ ┃ ┣ paracortex (syn: subcortical zone, interfollicular area of the lymph node)

LMMA\_00685    ┃ ┃ ┃ ┣ reticular cell

LMMA\_00354   ┃ ┃ ┃ ┣ T Lymphocyte (syn: T cell)

**LMMA\_00523 respiratory vascular system** (syn: vascular system; vasculature)

**LMMA\_00692 ┣ blood cell**

LMMA\_00619 ┃ ┣ erythrocyte

LMMA\_00179 ┃ ┣ granulocyte

LMMA\_00090 ┃ ┃ ┣ basophil (syn: basophilic leukocyte; basophilic granulocyte)

LMMA\_00163 ┃ ┃ ┣ eosinophil

LMMA\_00256 ┃ ┃ ┣ neutrophil

LMMA\_00233 ┃ ┣ monocyte

LMMA\_00819 ┃ ┣ peripheral blood lymphocyte

**LMMA\_00104 ┣ bronchial blood vessel**

**LMMA\_00098 ┃ ┣ bronchial artery**

**LMMA\_00095 ┃ ┣ bronchial arteriole**

**LMMA\_00105 ┃ ┣ bronchial vein**

**LMMA\_00109 ┃ ┣ bronchial venule**

**LMMA\_00519 ┃ ┣ bronchial capillary**

LMMA\_00293 ┃ ┃ ┣ capillary tunica intima

LMMA\_00378 ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00292 ┃ ┃ ┣ capillary tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**Note: the classification schema for “bronchial blood vessel” is as follows:**

**• The classification scheme for the “bronchial artery” is the same as for the “pulmonary muscular artery” below**

**• The classification scheme for the “bronchial arteriole” is the same as for the “pulmonary distal arteriole” below**

**• The classification scheme for the “bronchial venule” is the same as for the “pulmonary vein” (does not include the**

**“vasa vasorum”) below**

**• The classification scheme for the “bronchial artery” is the same as for the “pulmonary distal venule” below**

**LMMA\_00315 ┣ pulmonary blood vessel**

**LMMA\_00632 ┃ ┣ intra-parenchymal blood vessel**

**LMMA\_00291 ┃ ┣ pulmonary artery**

LMMA\_00293 ┃ ┃ ┣ pulmonary artery tunica intima

LMMA\_00081 ┃ ┃ ┃ ┣ artery endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00616 ┃ ┃ ┃ ┃ ┣ arterial endothelial cell

LMMA\_00191 ┃ ┃ ┃ ┣ internal elastic membrane

LMMA\_00378 ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00294 ┃ ┃ ┣ pulmonary artery tunica media

LMMA\_00167 ┃ ┃ ┃ ┣ external elastic membrane

LMMA\_00393 ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00292 ┃ ┃ ┣ pulmonary artery tunica adventitia

LMMA\_00395 ┃ ┃ ┃ ┣ vasa vasorum

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00290 ┃ ┣ pulmonary arteriole**

**LMMA\_00304 ┃ ┃ ┣ pulmonary muscular arteriole**

LMMA\_00488 ┃ ┃ ┃ ┣ pulmonary muscular arteriole tunica intima

LMMA\_00078 ┃ ┃ ┃ ┃ ┣ arteriole endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00489 ┃ ┃ ┃ ┣ pulmonary muscular arteriole tunica media

LMMA\_00393 ┃ ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00486 ┃ ┃ ┃ ┣ pulmonary muscular arteriole tunica adventitia

LMMA\_00395 ┃ ┃ ┃ ┃ ┣ vasa vasorum

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00297 ┃ ┃ ┣ pulmonary distal arteriole**

LMMA\_00299 ┃ ┃ ┃ ┣ pulmonary distal arteriole tunica intima

LMMA\_00078 ┃ ┃ ┃ ┃ ┣ arteriole endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00300 ┃ ┃ ┃ ┣ pulmonary distal arteriole tunica media

LMMA\_00393 ┃ ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00298 ┃ ┃ ┃ ┣ pulmonary distal arteriole tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00305 ┃ ┣ pulmonary vein**

LMMA\_00307 ┃ ┃ ┣ pulmonary vein tunica intima

LMMA\_00378 ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00397 ┃ ┃ ┃ ┣ vein endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00507 ┃ ┃ ┃ ┃ ┣ venous endothelial cell

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00308 ┃ ┃ ┣ pulmonary vein tunica media

LMMA\_00393 ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00399 ┃ ┃ ┃ ┣ venous cardiac muscle

LMMA\_00132 ┃ ┃ ┃ ┃ ┣cardiomyocyte (syn: cardiac myocyte)

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00306 ┃ ┃ ┣ pulmonary vein tunica adventitia

LMMA\_00395 ┃ ┃ ┃ ┣ vasa vasorum

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00316 ┃ ┣ pulmonary venule**

**LMMA\_00309 ┃ ┃ ┣ pulmonary muscular venule**

LMMA\_00311 ┃ ┃ ┃ ┣ pulmonary muscular venule tunica intima

LMMA\_00403 ┃ ┃ ┃ ┃ ┣ venule endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00312 ┃ ┃ ┃ ┣ pulmonary muscular venule tunica media

LMMA\_00393 ┃ ┃ ┃ ┃ ┣ vascular smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00399 ┃ ┃ ┃ ┃ ┣ venous cardiac muscle

LMMA\_00132 ┃ ┃ ┃ ┃ ┃ ┣ cardiomyocyte (syn: cardiac myocyte)

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00310 ┃ ┃ ┃ ┣ pulmonary muscular venule tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00301 ┃ ┃ ┣ pulmonary distal venule**

LMMA\_00303 ┃ ┃ ┃ ┣ pulmonary distal venule tunica intima

LMMA\_00403 ┃ ┃ ┃ ┃ ┣ venule endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00392 ┃ ┃ ┃ ┃ ┃ ┣ vascular endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00302 ┃ ┃ ┃ ┣ pulmonary distal venule tunica adventitia

LMMA\_00440 ┃ ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

**LMMA\_00447 ┃ ┣ pulmonary lymphatic vessel**

LMMA\_00221 ┃ ┃ ┣ lymphatic vessel tunica intima

LMMA\_00422 ┃ ┃ ┃ ┣ lymphatic endothelium

LMMA\_00089 ┃ ┃ ┃ ┃ ┣ basement membrane

LMMA\_00216 ┃ ┃ ┃ ┃ ┣ lymphatic endothelial cell

LMMA\_00378 ┃ ┃ ┃ ┣ subendothelial connective tissue cell

LMMA\_00273 ┃ ┃ ┃ ┃ ┣ pericyte

LMMA\_00356 ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

LMMA\_00529 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycosaminoglycan

LMMA\_00178 ┃ ┃ ┃ ┃ ┃ ┃ ┣ glycoprotein

LMMA\_00283 ┃ ┃ ┃ ┃ ┃ ┃ ┣ proteoglycan

LMMA\_00320 ┃ ┃ ┃ ┃ ┃ ┣ reticular fiber

LMMA\_00222 ┃ ┃ ┣ lymphatic vessel tunica media

LMMA\_00217 ┃ ┃ ┃ ┣ lymphatic smooth muscle

LMMA\_00343 ┃ ┃ ┃ ┃ ┣ smooth muscle cell

LMMA\_00440 ┃ ┃ ┃ ┣ vascular connective tissue (syn: perivascular connective tissue)

LMMA\_00136 ┃ ┃ ┃ ┃ ┣ connective tissue cell

LMMA\_00685 ┃ ┃ ┃ ┃ ┃ ┣ reticular cell

LMMA\_00356 ┃ ┃ ┃ ┃ ┃ ┣ telocyte

LMMA\_00386 ┃ ┃ ┃ ┃ ┃ ┣ unclassified fibroblast

LMMA\_00168 ┃ ┃ ┃ ┃ ┣ extracellular matrix

LMMA\_00145 ┃ ┃ ┃ ┃ ┃ ┣ collagen fiber

LMMA\_00158 ┃ ┃ ┃ ┃ ┃ ┣ elastic fiber

LMMA\_00180 ┃ ┃ ┃ ┃ ┃ ┣ ground substance

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