

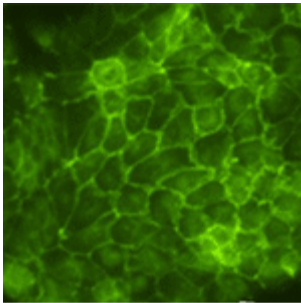
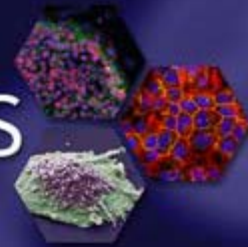


August 2017

Share:



cell passages



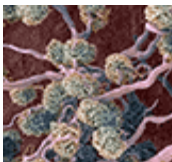
Looking for anion/cation transporter expression? You'll find it here.

Organic anion transporter 1 (OAT1) and organic cation transporter 2 (OCT2) are renal soluble transporters that play key roles in the kidney's clearance of drugs and endogenous compounds. ATCC provides researchers with the ideal *in vitro* models of this critical kidney function by offering RPTEC/TERT1-OAT1 ([ATCC® CRL-4031-OAT1™](#)) and RPTEC/TERT1-OCT2 ([ATCC® CRL-4031-](#)

[OCT2™](#)).

[Start screening>>](#)

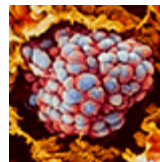
- *In vivo*-like OAT1 and OCT2 membrane expression
- Primary cells immortalized for lot-to-lot consistency
- Validated for organic anion transport
- Transport assay protocol available



Reliable RPTEC growth and consistent physiological function

The use of human telomerase reverse transcriptase-immortalized renal proximal tubule epithelial cells (hTERT-RPTECs) in renal studies is spreading due to their continuous nature and *in vivo*-like characteristics.

To support hTERT-RPTEC growth and differentiation, ATCC now offers a specially



Disease Primary Airway Cells

ATCC now offers a growing portfolio of human disease primary airway cells that represent a variety of cell types and airway locations. These cells are useful in applications such as microbial infection and pathogenesis; airway inflammation and wound healing; toxicology or other testing of pharmaceuticals.

[Order Disease Primary Airway Cells>>](#)

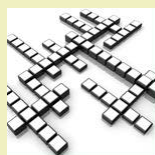
Available disease states:

formulated RPTEC Growth Kit ([ATCC® ACS-4007™](#)). Simply add the kit to your growth medium.

[Improve your RPTEC growth>>](#)

- Consistent and reliable results
- Physiological, renal dome-structures
- Optimal tight junction, microvilli, and primary cilium formation
- Increased PTH response
- Stabilized trans-epithelial electrical resistance (TEER)

- Consistent and reliable results
- Asthma
- Chronic obstruct pulmonary disease
- Cystic fibrosis
- Fibrosis (TEER)



ATCC Puzzle

Try this [month's crossword puzzle](#). The solution will appear in next month's issue.

For the solution to last month's puzzle [click here](#).

Resources

- [Application Note: Establishment and characterization of a kidney-drug interaction model by stably expressing hOAT1 in HEK 293T/17 cells](#)
- [Webinar: Genetically Modified Human Renal Proximal Tubule Epithelial Cells - A New Model for Drug Toxicity Studies](#)
- [Toxicology Tools](#)



Frequently Asked Questions

Q: Do the [RPTEC/TERT1-OAT1](#) and [RPTEC/TERT1-OCT2](#) cells respond appropriately to OAT1 or OCT2 inhibitors?

A: RPTEC/TERT1-OAT1 cells respond to inhibitors of OAT 1 including novobiocin and probenecid, as assayed by 5-CF and 6-CF uptake. RPTEC/TERT1-OCT2 cells respond to inhibitors of OCT2 including quinitin and cimetidine, as assayed by Asp+ and EAM-1 uptake.

[Have more questions?](#)

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ATCC - 10801 University Boulevard, Manassas, VA 20110

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