

Transporter	Gene name	Species	Substrates	Inhibitors	Test substrate	Transport ratio
ABCA1	ABCA1	human	Cholesterol		Cholesterol	
ABCG1	ABCG1	human	Cholesterol		Cholesterol	
GLUT1	SLC2A1	human	D-Glucose		Deoxy-D-Glucose	
GLUT2	SLC2A2	human	D-Glucose		Deoxy-D-Glucose	>3
GLUT5	SLC2A5	human	D-Glucose		Deoxy-D-Glucose	>3
SGLT1	SLC5A1	human	D-Glucose		AMG	>20
SGLT2	SLC5A2	human	D-glucose		AMG	
SGLT1	SLC5A1	dog	D-glucose		AMG	
DAT, Dopamine transporter	SLC6A3	human	Dopamine, Serotonin, ao		Dopamine	
SERT, Serotonin transporter	SLC6A4	human	Serotonin, Dopamine, ao		Serotonin	
LAT2	SLC7A8 (optional in combination with 4F2)	human			L-Alanine	
NTCP	SLC10A1	human	Taurocholate, bile salts, DHEAS, Rosuvastatin, atorvastatin, pitavastatin, fluvastatin		Taurocholate (TCA)	
PEPT1	SLC15A1	human			Gly-Sar (Glycyl- sarcosine)	>20
PEPT2	SLC15A2	human			Gly-Sar (Glycyl- sarcosine)	
Oct1	SLC22A1	human	Acyclovir, Amiloride, Fenoterol, Furamide, Ganciclovir, Glycopyrrolate, Ipratropium, Metformin, N- methylpyridinium, Prostaglandin E2, Ranitidine, Tetraethylammonium, ao	MDMA, Atropine, Cimetidine, Clonidine, Diphenhydramine, Ketamine, Midazolam, Quinidine, Verapamil, ao	Metformin	>3
Oct2	SLC22A2	human	ASP+, Amiloride, Cimetidine, Dopamine, Epinephrine, Metformin, N- methylpyridinium, Prostaglandin E2, Serotonin, Tetraethylammonium, ao	MDMA, Atropine, Berberine, Cimetidine, Flurazepam, Imipramine, Quinine, Verapamil, ao	Metformin	>4
Oct3	SLC22A3	human	Berberine, Epinephrine, Etilefrine, Histamine, Metformin, N- methylpyridinium, Norepinephrine, ao	MDMA, Atropine, Berberine, Imipramine, Phenoxy-benzamine, Quinidine, Tetraethylammonium, ao	Metformin	>7
OCTN1	SLC22A4	human			L-Carnitine	>2
OCTN2	SLC22A5	human			L-Carnitine	>40
OAT1	SLC22A6	human	6-carboxyfluorescein, Adefovir, Cidofovir, Olmesartan, Para- aminohippurate, Prostaglandin E2, Uric acid	Acetaminophen, Adefovir, Betamipron, Chlorothiazide, Diclofenac, Furosemide, Ibuprofen, Indomethacin, Probenecid, ao	CDCF	

OAT2	SLC22A7	human	Bumetanide, Cefoperazone, Cephalothin, Chlorothiazide, Diclofenac, Furosemide, Ibuprofen, Indomethacin, Ketoprofen, Mefenamic acid, Naproxen, Phenacetin, Piroxicam, Probenecid, Sulindac, ao	MDMA, Atropine, Cimetidine, Clonidine, Decynium-22, Diphenhydramine, Furamide, Memantine, Phencyclidine, Phenformin, Quinidine, Repaglinide, Verapamil, ao	PAH	
OAT3	SLC22A8	human	Bumetanide, Cefaclor, Cimetidine, Cortisol, Estrone-3-sulfate, Furosemide, Methotrexate, Pravastatin, Prostaglandin E2, Rosuvastatin, Tetracycline, Uric acid, ao	Bumetanide, Candesartan, Ethacrynic acid, Furosemide, Ibuprofen, Naproxen, Olmesartan, Pratosartan, Quinapril, Sulindac, Valsartan, ao	Estrone sulfate	
OAT4	SLC22A11	human				
OAT5	SLC22A10	human				
URAT1	SLC22A12	human	Oxypurinol, Uric acid	Benzbromarone, Fenofibric acid, Losartan, Morin, Pratosartan, Probenecid, Sulfinpyrazone, Telmisartan	Uric acid	
ENT4	SLC29A4	human				
MATE1	SLC47A1	human	Cimetidine, Estrone sulfate, Ganciclovir, Metformin, Paraquat, Tetraethylammonium (TEA), ao	Chloroquine, Cimetidine, Mixantrone, Pyrimethamine, Quinidine, Verapamil, oa	Metformin	
MATE2K	SLC47A2	human	Cimetidine, Estrone sulfate, Ganciclovir, Metformin, Tetraethylammonium (TEA), Topotecan, ao	Cimetidine, Pyrimethamine, Quinidine, Verapamil, oa	Metformin	
OATP1A2	SLCO1A1	human	Taurocholic acid, Ursodeoxycholic acid, cholic acid, DHEAS, ao	Statins, Ouabain, Imatinib, Fexofenadine, Atenolol, Testosterone, Naloxone, Quinidine, Rifampicin, ao	Estrone sulfate	
OATP1B1	SLCO1B1 available *1B, *4, *5, *15	human	Atorvastatin, Bilirubin, Bosentan, Bromsulphthalein (BSP), Cholate, Cholyl-glycylamido-fluorescein (CGamF), Cholyl taurine, Dehydroepiandrosterone sulfate, Estradiol-17beta-glucuronide, Estrone 3-sulfate, Fluo-3, Fluvastatin, Methotrexate, Olmesartan, Pravastatin, Rifampicin, Rosuvastatin, Tauroursodeoxycholate, Valsartan, ao	Cyclosporine, Digoxin, Fenofibrate, Gemfibrozil, Lopinavir, MK-571, Troglitazone, ao	17b-Estradiol-D-17b-Glucuronide	

OATP1B3	SLCO1B3	human	Amantinin, Bilirubin, Bosentan, Bromsulphthalein (BSP), Cholecystokinin, Cholylglycylamido-fluorescein (CGamF), Digoxin, Estradiol-17beta-glucuronide, Estrone 3-sulfate, Fexofenadine, Fluo-3, Fluvastatin, Glycoursodeoxycholate, Methotrexate, Olmesartan, Paclitaxel, Rifampicin, Rosuvastatin, Taurocholate, Tauroursodeoxycholate, Telmisartan, Triiodothyronine, Valsartan, ao	Cyclosporine, Darunavir, Lithocholate, Lopinavir, Mifepristone, MK-571, Paclitaxel, Penicillin G, Probenecid, Rifampicin, Ritonavir, ao	17b-Estradiol-D-17b-Glucuronide, TCA	
OATP2B1	SLCO2B1	human	Atorvastatin, Bosentan, Bromsulphthalein (BSP), Estrone 3-sulfate, Fexofenadine, Fluvastatin, Glyburide, Pitavastatin, Pravastatin, Rosuvastatin, Taurocholate, Telmisartan glucuronide, ao	Cerivastatin, Cyclosporine, Estrone, Gemfibrozil, Indinavir, MK-571, Montelukast, Paclitaxel, Repaglinide, Rifampicin, Rifamycin SV, Ritonavir, Rosiglitazone, Saquinavir, Silibinin dihemisuccinate, Simvastatin, ao	DHEAS	>10