

## QuantiGene Plex panels—pathway guide

QuantiGene Plex pathway panels	Human	Mouse	Rat
<b>Apoptosis and autophagy</b>			
Apoptosis	•	•	•
Autophagy	•	•	
Unfolded protein response	•	•	
<b>Cancer signaling</b>			
Angiogenesis	•	•	•
Angiogenic growth factors and angiogenesis inhibitors	•	•	•
Breast cancer and estrogen receptor signaling	•	•	•
Cancer pathway	•	•	•
Cancer drug resistance and metabolism	•	•	
Cell cycle	•	•	•
Epithelial to mesenchymal transition (EMT)	•	•	
Extracellular matrix and adhesion molecules	•	•	•
Oncogenes and tumor suppressor genes	•	•	
Tumor metastasis	•	•	•
<b>Cardiology and bone biology</b>			
Atherosclerosis	•	•	
Osteogenesis	•	•	•
Skeletal muscle—myogenesis and myopathy	•	•	•
<b>Epigenetics</b>			
Epigenetic chromatin modification enzymes	•	•	
Epigenetic chromatin remodeling factors	•	•	
Polycomb group (PcG) genes and DNA methylation	•	•	
Transcription factors	•	•	•
<b>Inflammation and immunology</b>			
Cell surface markers	•		
Chemokines and receptors	•	•	•
Cytokines	•	•	•
Cytoskeleton regulators	•	•	
Dendritic and antigen-presenting cell	•	•	
HIV infection and host response	•		
Inflammation	•	•	
Inflammasomes	•	•	•
Inflammatory cytokines and receptors	•	•	•
Inflammatory response and autoimmunity	•	•	•
Innate and adaptive immune responses	•	•	
Interferon $\alpha$ and $\beta$ response	•	•	
Interferon and receptor	•		
Interferon (IFN) and receptor mouse	•		
T cell and B cell activation	•	•	•
T cell activation	•	•	
T cell anergy and immune tolerance	•	•	
Th1-Th2-Th17	•	•	•
Th17 for autoimmunity and inflammation	•	•	•
T helper cell differentiation	•	•	
Toll-like receptor signaling pathway	•	•	•
Tumor necrosis factor (TNF) ligand and receptor	•	•	

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<b>Metabolism and endocrinology</b>			
Adipogenesis	•	•	•
Fatty acid metabolism	•	•	
Glucose metabolism	•	•	•
Diabetes	•	•	•
Glycosylation	•	•	
Insulin signaling pathway	•	•	•
Mitochondria	•	•	•
Mitochondrial energy metabolism	•	•	
Hypertension	•	•	•
Obesity	•	•	•
<b>Neuroscience</b>			
Neurogenesis and neural stem cell	•	•	•
Neuroscience ion channels and transporters	•	•	•
Neurotransmitter receptors and regulators	•	•	•
Neurotrophin and receptors	•	•	•
<b>Stem cells</b>			
Embryonic stem cells	•	•	
Endothelial cell biology	•	•	•
Hematopoietic stem cells and hematopoiesis	•	•	
Mesenchymal stem cell	•	•	
Stem cell	•	•	•
Stem cell signaling	•	•	•
Terminal differentiation markers	•	•	
<b>Toxicity and drug metabolism</b>			
Cardiotoxicity	•	•	•
Drug metabolism	•	•	•
Drug metabolism phase I enzymes	•		•
Drug metabolism phase II enzymes	•		•
Drug transporters	•	•	•
Hepatotoxicity	•	•	•
Lipoprotein signaling and cholesterol metabolism	•	•	•
Nephrotoxicity	•	•	•
Neurotoxicity	•	•	•
Stress and toxicity	•	•	•
Toxicity	•		
<b>Housekeeping genes</b>			
Housekeeping genes	•	•	•
<b>Custom</b>			
Any gene for any model organism	•	•	•