CYP2D6 Knockout cell line (BEAS-2B)

Catalog Number: KOA31754

Product Information	
Product Name	CYP2D6 Knockout cell line (BEAS-2B)
specification	1*10^6
Storage and transportation	Shipped on dry ice; Store in liquid nitrogen
Cell morphology	Epithelial-like, adherent
Passage ratio	1:3~1:4
species	Human
Gene	CYP2D6
Gene ID	1565
Build method	Electroporation/Lentivirus
Mycoplasma testing	negative
Cultivation system	90% DMEM+10% FBS
Price (USD)	Inquiry
Parental Cell Line	BEAS-2B
Quality Control	Genotype: CYP2D6 Knockout cell line (BEAS-2B)>95% viability before freezing. All cells were tested and found to be free of bacterial, viruses,mycoplasma and other toxins.

Gene Information	
Gene Official Full Name	cytochrome P450 family 2 subfamily D member 6 (gene/pseudogene)provided by HGNC
Also known as	CPD6; CYP2D; CYP2DL1; CYPIID6; P450C2D; P450DB1; CYP2D7AP; CYP2D7BP; CYP2D7P2; CYP2D8P2; P450-DB1
Gene Description	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and is known to metabolize as many as 25% of commonly prescribed drugs. Its substrates include antidepressants, antipsychotics, analgesics and antitussives, beta adrenergic blocking agents, antiarrythmics and antiemetics. The gene is highly polymorphic in the human population; certain alleles result in the poor metabolizer phenotype, characterized by a decreased ability to metabolize the enzyme's substrates. Some individuals with the poor metabolizer phenotype have no functional protein since they carry 2 null alleles whereas in other individuals the gene is absent. This gene can

	vary in copy number and individuals with the ultrarapid metabolizer phenotype can have 3 or more active copies of the gene. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]
Expression	Biased expression in liver (RPKM 40.1), small intestine (RPKM 14.6) and 2 other tissues See more