

PAX6 Knockout cell line (HEK293)

Catalog Number: KO36199

Product Information	
Product Name	PAX6 Knockout cell line (HEK293)
specification	1*10 ⁶
Storage and transportation	Dry ice preservation/T25 live cell transportation.
Cell morphology	Epithelioid, adherent cell
Passage ratio	1:3~1:6
species	Human
Gene	PAX6
Gene ID	5080
Build method	Electric rotation method / virus method
Mycoplasma testing	Negative
Cultivation system	90%DMEM+10% FBS
Parental Cell Line	HEK293
Quality Control	Genotype: PAX6 Knockout cell line (HEK293) >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	paired box 6 provided by HGNC
Also known as	AN; AN1; AN2; FVH1; MGDA; WAGR; ASGD5; D11S812E
Gene Description	This gene encodes paired box protein Pax-6, one of many human homologs of the <i>Drosophila melanogaster</i> gene <i>prd</i>. In addition to a conserved paired box domain, a hallmark feature of this gene family, the encoded protein also contains a homeobox domain. Both domains are known to bind DNA and function as regulators of gene transcription. Activity of this protein is key in the development of neural tissues, particularly the eye. This gene is regulated by multiple enhancers located up to hundreds of kilobases distant from this locus. Mutations in this gene or in the enhancer regions can cause ocular disorders such as aniridia and Peter's anomaly. Use of alternate promoters and alternative splicing results in multiple transcript variants encoding different isoforms. Interestingly, inclusion of a particular alternate coding exon has been shown to increase the length of the paired box domain and alter its DNA binding specificity. Consequently, isoforms that carry the shorter paired box domain regulate a different set of genes compared to the isoforms carrying the

	longer paired box domain. [provided by RefSeq, Mar 2019]
Expression	Broad expression in brain (RPKM 3.5), stomach (RPKM 2.6) and 15 other tissues See more