

## Product datasheet for **KN211551BN**

### PTCH1 Human Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control
Donor DNA:	mBFP-Neo
Symbol:	PTCH1
Locus ID:	5727
Components:	<b>KN211551G1</b> , PTCH1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN211551G2</b> , PTCH1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN211551BND</b> , donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. <b>GE100003</b> , scramble sequence in pCas-Guide vector
Disclaimer:	These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.
RefSeq:	<a href="#">NM_000264</a> , <a href="#">NM_001083602</a> , <a href="#">NM_001083603</a> , <a href="#">NM_001083604</a> , <a href="#">NM_001083605</a> , <a href="#">NM_001083606</a> , <a href="#">NM_001083607</a> , <a href="#">NM_001354918</a> , <a href="#">NM_001354919</a> , <a href="#">NR_149061</a>
UniProt ID:	<a href="#">Q13635</a>
Synonyms:	BCNS; HPE7; NBCCS; PTC; PTC1; PTCH; PTCH11
Summary:	This gene encodes a member of the patched family of proteins and a component of the hedgehog signaling pathway. Hedgehog signaling is important in embryonic development and tumorigenesis. The encoded protein is the receptor for the secreted hedgehog ligands, which include sonic hedgehog, indian hedgehog and desert hedgehog. Following binding by one of the hedgehog ligands, the encoded protein is trafficked away from the primary cilium, relieving inhibition of the G-protein-coupled receptor smoothed, which results in activation of downstream signaling. Mutations of this gene have been associated with basal cell nevus syndrome and holoprosencephaly. [provided by RefSeq, Aug 2017]



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Product images:

