

Product datasheet for **KN215433**

PIK3CB Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	PIK3CB
Locus ID:	5291
Components:	<p>KN215433G1, PIK3CB gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CATCCTTGACATCTGGGCGG</p> <p>KN215433G2, PIK3CB gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ATCTGATGGCTCCATACCTG</p> <p>KN215433D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet

```
TCTCAAAAAA AAAAAAATT GTCCTTGTAG AGAAAGGGCC CTCTTGATTG CAAATTGTTC TTGTTGAGAG
AGGGCCCTCT TGATTGTCAT TTTTCATTGGA ATTTGCAGAG AAAAAGCTCAG CCTAAGAAGC TAATATTTTC
TAAATAAAGT TTGGAGAAAA ATCACCTGTC AAGTGCTGGT TAACTAAATT TCTTAGGACC CTGTAATCCT
TAAGCATGCA GTTTATTCAG ATGTCAAATA TCTATGTTGA ATTTGAATCA ATGTGGTGTG TGTGTGTGTA
CATATGTATG TGTATATATT TTTATTTATA TGTATATAAG AATAATTTTT TTCCTTTAGT TGGTGGTATG
GATTGGATAA TGTACATATA TATAATTTGT GAAGTGATAA AAGTGATTTT AAATAATTTA TTTCTGCTGA
CTTACTCTTG GTTTTTAAAA TATCACATTA TTTAATTGGC CTCCTGTTAC ATTATTGGCT ATATTGAAAT
CTAAGGACTA ATTGTAGATT AGTGGTCTTT ATCATATCTT GGTATAAAAT TTGGCTGATG GTTGTTTTGC
TATGTTTTAA TTAAGTATTT CTAGGGCCCC GTGGTTATGA GGGATTTATA TCCAGTTGGA GGTACCTCGG
GAAGCTACCA TTTCTTATAT TAAGCAGGTA TGTTAATAGG TATAATTTCT ATGTGTTTGT CACTACTGTG
CACTTGGGGG AAATATCATT CTATAATAGA AAATGTTAAT GTAAATTATA TGTGATAATG ATAGTAATGA
AGTGATGGTA ATTAAGAAAA ATTAGTTTAT GTTAGCTAGT TTGAAATGTT TGTTTGGGTT ATTAAGACTG
TCAAGAAGAT TTTCTTTTGA GTTCGTCTTT GAAATTACTG TCTTTGAGCT TGTACACTT TAAAAAATGT
GATTTTTTGT TCATTTTCTC TTCTCTCCTT TTTCTTCTCT TCCCCTTTC CTGACTCTT GGGGAAGAA
AGACTTTTCT GCTGTTACC AGATATTTT CCCTCAGCAG GCTTGCCTTT TCTGTTGCAT TAGTTTTTAA
AGTAAATTGA TGAGCACCGT TGATTTGTAA AAACCAGCAT ATACATGAAC TTGTTTTTCT AAACTTTCTT
TCTAATGTTT TTCAAAAAGC TGAACCAAT GTGAATATCA GGAGTTACGG TATTTTTAAG AAAACATATT
TATGATATAC
```

GE100003, scramble sequence in pCas-Guide vector



[View online »](#)

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: [NM_001256045](#), [NM_006219](#)

UniProt ID: [P42338](#)

Synonyms: P110BETA; PI3K; PI3KBETA; PIK3C1

Summary: This gene encodes an isoform of the catalytic subunit of phosphoinositide 3-kinase (PI3K). These kinases are important in signaling pathways involving receptors on the outer membrane of eukaryotic cells and are named for their catalytic subunit. The encoded protein is the catalytic subunit for PI3Kbeta (PI3KB). PI3KB has been shown to be part of the activation pathway in neutrophils which have bound immune complexes at sites of injury or infection. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2011]

Product images:

