

Product datasheet for **SC208150**

PIP5K3 (PIKFYVE) (NM_152671) Human 3' UTR Clone

Product data:

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| Product Type: | 3' UTR Clones |
| Product Name: | PIP5K3 (PIKFYVE) (NM_152671) Human 3' UTR Clone |
| Symbol: | PIP5K3 |
| Synonyms: | CFD; FAB1; HEL37; PIP5K; PIP5K3; ZFYVE29 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pMirTarget (PS100062) |
| ACCN: | NM_152671 |
| Insert Size: | 555 bp |
| Insert Sequence: | >SC208150 3'UTR clone of NM_152671 The sequence shown below is from the reference sequence of NM_152671. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site |

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CACCTGCTGACCAAAAAGGTAGGAGGTAGTCACCATCTGGAATCCAAACACAGGCTGGACAGCTGGGC
CATAGGATCTCATGCCAGCCTGTCCTTCTGGCTTCCTCTGTCCCACGTGGCTGAGGGTATTTGGTGTGG
GTTTTGTTCTACCCTTTCTCATTCTCCACACCTCCTCCCATACCTTTTTTGGTTGATTCCTTTTAT
TTCTTGTCTTCTCCCTCAGCACCACCATGCCAGTGTAAGCTTGTAGTCTTTAAAGGAACTACATCT
GACTGCTCTTCCATAATGTGCAACTTCCAAGGTGGCATTCTTTGCATTATAACATGGATGTTCTGC
TCTATTCTTTTCTTTTCTTATTAAACATTTTAAAGCCTATTTGCCTTTGCCGTTACCCAGTAACATA
ATATTTCACTAAACCCATTAAGATGCTTGAAGTGAAGTGGGGGAAAATCATTACACATTCAAAATAT
CTCCATAATAATTCATAATGCTTATTATGTATATTCTATATTTATTAACAATTTCTTCTCTAATGTA
AAA
ACGCGTAAGCGGCCCGGCATCTAGATTCTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
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| Restriction Sites: | Sgfl-MluI |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs). |



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| Components: | The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials. |
| RefSeq: | NM_152671.4 |
| Summary: | Phosphorylated derivatives of phosphatidylinositol (PtdIns) regulate cytoskeletal functions, membrane trafficking, and receptor signaling by recruiting protein complexes to cell- and endosomal-membranes. Humans have multiple PtdIns proteins that differ by the degree and position of phosphorylation of the inositol ring. This gene encodes an enzyme (PIKfyve; also known as phosphatidylinositol-3-phosphate 5-kinase type III or PIPKIII) that phosphorylates the D-5 position in PtdIns and phosphatidylinositol-3-phosphate (PtdIns3P) to make PtdIns5P and PtdIns(3,5)biphosphate. The D-5 position also can be phosphorylated by type I PtdIns4P-5-kinases (PIP5Ks) that are encoded by distinct genes and preferentially phosphorylate D-4 phosphorylated PtdIns. In contrast, PIKfyve preferentially phosphorylates D-3 phosphorylated PtdIns. In addition to being a lipid kinase, PIKfyve also has protein kinase activity. PIKfyve regulates endomembrane homeostasis and plays a role in the biogenesis of endosome carrier vesicles from early endosomes. Mutations in this gene cause corneal fleck dystrophy (CFD); an autosomal dominant disorder characterized by numerous small white flecks present in all layers of the corneal stroma. Histologically, these flecks appear to be keratocytes distended with lipid and mucopolysaccharide filled intracytoplasmic vacuoles. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, May 2010] |
| Locus ID: | 200576 |
| MW: | 21.2 |