

Product datasheet for **SC113544**

PI 4 Kinase type 2 beta (PI4K2B) (NM_018323) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	PI 4 Kinase type 2 beta
Synonyms:	PI4K1IB; PIK42B
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF:

>OriGene ORF within SC113544 sequence for NM_018323 edited (data generated by NextGen Sequencing)

ATGGAGGATCCCTCCGAGCCCCACCGGTTGGCGTCCGCGGACGGCGGGAGCCCCGAGGAG
GAGGAGGATGGGGAGCGGGAGCCGCTGCTACCGCGGATCGCCTGGGCCACCCCGGAGAG
GGCGCCCCAGGCAGCGCGTGAGGCTGCTGGACGCTGCCGGGAGGAGGCGAGGCCGCGC
GACGAGGAGCTGCCCTCCCGCCGGGGACGTGGGGTCTCCCGGAGTTCGCCCGCGAG
CTGGACCGGAGCCCCCGGTTTCAGTAACATTGGTACTTCAGAGATGAATGCATTTC
TTGGATGACCCAGAATTTGCTGATATTATGCTGAGAGCAGAGCAAGCAATAGAAGTTGGA
ATTTTCCAGAAAGATCTCTCAAGGTTCAAGTGGAAGTTACTTTGTGAAGGATCCTAAG
AGGAAATATTGGTGTGTTTAAACCCAAATCAGAAGAGCCTTATGGTCAACTCAATCCA
AAATGGACCAATATGTCCATAAGGTCTGCTGCCCTTGCTGCTTTGGCCGAGGCTGCCTG
ATTCCCTAATCAGGGGTACCTTTCCGAAGCGGGTGCCTATCTTGTGGACAACAAGCTTCAT
CTGAGCATTGTACCTAAACAAAGGTGGTTTGGCTTGTCACTGAGACATTTAACTATAAT
GCGATTGACCGTCAAAATCAAGAGGCAAAAAGTATGCTTTAGAAAAAGTGCCAAAAGTG
GGTAGAAAGTTTCATAGGATAGGACTCCCTCCTAAGATTGGTTCCTTTCAGTTATTTGTT
GAAGGTTACAAGGAGGCTGAATATTGGCTTAGGAAATTTGAAGCTGACCTTTTGCCTGAG
AATATTAGAAAACAATTTCACTCACAATTTGAAAGATTAGTTATTTGGATTACATCATC
AGAAATACAGACAGGGGCAATGATAATTGGTTAGTCAGATACGAAAAGCAGAAATGTGAA
AAGGAAATGACCATAAGGAATCAAAATGGATTGATGATGAAGAATTCCTTATTTAAATA
GCTGCAATTGATAATGGTCTAGCATTTCCTTTTAAACATCCTGATGAATGGAGAGCATAT
CCATTTCACTGGGCTTGGCTTCTCAAGCAAAAGTTCCCTTTTCTGAAGAAATAAGAAAT
TTGATTCTACCATATATTTCTGACATGAACTTTGTGCAAGATTTATGTGAAGATCTCTAT
GAACTTTTTAAGACTGACAAAGGATTGACAAAGCCACTTTTGAAAGTCAGATGTCTGTG
ATGAGGGGTGAGATCTTAAACCTTACTCAGGCATTGAGAGACGGGAAGAGTCCTTTCCAG
CTAGTACAGATACCTTGTGTGATTGTGGAACGAGTCAAGGTGGAAGTCAGGGTCGGATT
GTCCACCTGAGCAATTCCTTTACCCAGACTGTCAATTGCAGGAAGCCATTTTTTCTCTCC
TGGTAG

Clone variation with respect to NM_018323.3
232 t=>c;321 c=>t

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_018323 unedited

TAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGGCGTCCGTTCTACCCGG
TCGCTCCCGTTCCGCGCCATGCAGAGCCAGTCTCTGGCACCTGGCTGCTGATCTGGT
CTCAGCGCGGAGGGAGCAGAGGGAGTCCATGGAGGATCCCTCCGAGCCCGACCGTTGGC
GTCCGCGGACGGCGGGAGCCCCGAGGAGGAGGAGGATGGGAGCGGGAGCCGCTGCTACC
GCGGATCGCCTGGGCCACCCGCGAGAGGCGCCCAAGGACGCGCGTGAGGCTGCTGGA
CGCTGCCGGGAGGAGGCGAGGCCGGCGACGAGGAGCTGCCCTCCCGCCCGGGGACGT
GGGGGTCTCCCGGAGTTTCGCCCGCCGAGCTGGACCGGAGCCGCCCGCGGTTTCAGTAAC
TATTGGTACTTCAGAGATGAATGCATTCTTGGATGACCCAGAATTTGCTGATATTATGCT
GAGAGCAGAGCAAGCAATAGAAGTTGGAATTTTCCAGAAAGAATCTCTCAAGGTTCAAG
TGGAAGTTACTTTGTGAAGGATCCTAAGAGGAAAATTATTGGGTGTGTTTAAACCCAAAT
CAGAAGAGCCTTATGGTCAACTCAATCCAAAATGGACCAATATGTCCATAAGGTCTGCT
GCCCTTGTGCTTTGGCCGAGGCTGCCTGATTCTAATCAGGGGTACCTTTCCGAAGCGG
GTGCCTATCTTGTGACACAAGCTTATCTGAGCATTGTCTAAACAAAGGTGGGGTTGGC
TTTCAGTGAACATTTACTTAATGCGATTGACCGTGCAATCAAAGGCAAGATGCTTAN
AAAAGGCCAAAGTGTTNAAAGTCATAGAAAGACTCTTAAGATGTCCTTCANTATNGGG
GAGGTACAGAGCTGATATGCTTAGAAATGAGCGACCTTGCTA

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018323 unedited <pre> CCTTTGATATTCGAGTTATGATAGTTTGGCATCATTTATAGTAAATGTGTTCAAAACAT TCTAAATATTCAAACACGTACATACAGGAAGAACATAATCTTAAGACAATGATTTTAT TACCTTTAGTCTACCACATTTGTCATATAAATATACTTATTGAAAAAACCATACTAT TTAAATAAGAATTCAGTTCATGAAAGTTTACAAAATACAACCAATGTACTCTGACTTG GTTATATCTTAACATCTCAACTGTACTTTCTGGTATGGCCAGACCTTTGCAAAATATT ACCATGGTATTTTAAATTTATGATATAAACAGTAGCAATTTATTAAGTTTTCATTATA AAAATTAATATGGCAATTCTCAAAATACTGAAAAAAGTGTATGAAAGCAGTACCCAC ATCACTGCAACGATTTTCTTTCTCTAGAAAACATCTTCAAAAGGCACATTTTAATTAC TAGTGTATATCTAAAGATAGTAGTTTGAGTTTGAATTTCCAGTCAATTTCCATTAT CTCAAAATTGAGCTAATGGAGGGTTGGAAGAGGTAGGAGAACGCAGGTTTCCAATGAAC CCCTCAGGGCAGCAGAATCCTCATTCTCGTCCATGAAGACCAAAAGGAAGATATAAG GGAAAAAGGAATGGCAGATCTGTTTGCATCCTAATTTAACCTTCTACACAAAATACTTC ATTAAGNCAATAAACAAACACAAGATAGTAAGCTTAGAAAACANAAGGCCTAGACCAC AAATTTACCCAGTTAGCCCAAGTGGTGACATTGGTTTAAAGCCTCAAGAAATGAACTCC TGCTTCTGTAATCACATCTCAATGGATTTAATACTTATGCATTACATGTTCAAAATN CATATGTCGACTTGGTGATTTCAAATAAGTCAAAATCTTCAAATCATTTAAGACTTTG TTTCTGCTGCTCCCTTAT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_018323
Insert Size:	3510 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_018323.2 , NP_060793.1
RefSeq Size:	3458 bp
RefSeq ORF:	1446 bp
Locus ID:	55300

UniProt ID: Q8TCG2

Cytogenetics: 4p15.2

Domains: PI3_PI4_kinase

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the type II PI4 kinase protein family. The encoded protein is primarily cytosolic and contributes to overall PI4-kinase activity along with other protein family members. This protein is involved in early T cell activation. [provided by RefSeq, Dec 2016]
 Transcript Variant: This variant (1) represents the shorter transcript and encodes the functional protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.