

Product datasheet for **SC323533**

PFTK2 (BC038807) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PFTK2 (BC038807) Human Untagged Clone
Tag:	Tag Free
Symbol:	PFTK2
Synonyms:	ALS2CR7; amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 7; PFTAIRE protein kinase 2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for BC038807, the custom clone sequence may differ by one or more nucleotides

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ATGACTTCATTTACCCCAGGGACTTCAAGCTGCCCGTCCCAAGTTCAAGAGTAAAAGGCCACGGA  
GTAACAGTGATTGTTTTAGGAAGAGGATCTGAGGCAGGGTTTTAGTGGAGGAAGAGCCTCCCTTTTGG  
GGCAGCCTCATCTTACTTGAAGTTGGAGAAGCTGGGTGAAGGCTTTATGCGACAGTTTACAAGGGGATT  
AGCAGAATAAATGGACAAGTGGCTTTAAAAGTCATCAGCATGAATGCAGAGGAAGGAGTCCCATTTA  
CAGCTATCCGAGAAGCTTCTCCTGAAGGTTTAAAACATGCCAATATTGTGCTCCTGCATGACATAAT  
CCACACCAAGAGACTGACATTCGTTTTTGAATACATGCACACAGACCTGGCCAGTATATGTCTCAG  
CATCCAGGAGGGCTTCATCCTCATAATGCAGACTTTTCATGTTTCAACTTTTGGGGGCTGGCGTACA  
TCCACCACCAACACGTTCTTACAGGGACCTGAAACCTCAGAATTACTCATCAGTCACCTGGGAGAGCT  
CAAAGTGGCTGATTTTGGTCTTGGCCGGCCAAGTCCATTCAGCCAGACATACTTTCAGAAGTCGTG  
ACCCTCTGGTACCGGCCCTGATGCTTTGCTGGGAGCCACTGAATATTCCTCTGAGCTGGACATATGGG  
GTGCAGGCTGCATCTTTATTGAAATGTTCCAGGGTCAACCTTTGTTTCTGGGGTTTCCAACATCCTTGA  
ACAGCTGGAGAAAATCTGGGAGGTGCTGGGAGTCCCTACAGAGGATACTTGGCCGGGAGTCTCCAAGCTA  
CCTAACTACAATCCAGAATGGTTCCTACGCCTCGAAGCCTTCATGTTGTCTGGAACAGGCTGG  
GCAGGGTTCCTGAAGCTGAAGACCTGGCCTCCAGATGCTAAAAGGCTTTCCAGAGACCGCTCTCCGC  
CCAGGAAGCACTGTTTCATGATTATTTACAGCGCCTGCCATCTCAGCTGTACCAGCTTCTGATGAGTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant BC038807 unedited ACCGCCGTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGCAATCCCAGGATGGGAAAGGTTCAAGTG CGGTTTTCTCCTTGAACCTAGAAGATTATGGGTCAAGAGCTGTGTGCAAAGACTGTACAGCCTGGATGC AGCTGCTACCATTGTTTACAGAGGGAGGCGAGGCACACAGCTGTGCGAGGAGTCAGCCTGAGACCACGGAGG CTGCGTTCAAGCTAACAGACCTAAAAGAAGCATCATGTTCCATGACTTTCATTTACCCCCAGGGGACTTCA AGCTGCCCGTGCCGAGAAGTTCAAGAGTAAAAGGCCACGGAGTAACAGTTGATTTGTTTTTCAGGAAGA AGGATTCTGAGGCAGTTTTTTCAGTGGAAGGAAGAACCCTCCCCTTTTGGGGGCGCCTTCTTCTTACTT TGAAACTGGGGGAAGCTTGGTTGAGGGCCCTTAATGCGCCAGTTTACAAGGGGGATAAGCCGAAATAAAA TGGCCATTTGGGGCTTTAAGGTCCTACACCTTGATGCCAGAGGGAAGAGATTCCAATTACAGCATTCCA GAAACCTTCTCTCCGAGAGGGGTTTGAACCAGCCATATTTTGTCTCCGCGTGTGATATATCCCCAGAG ACACTGCACTTTGTTTTGTGAATACTGCCAGAGACCTGCCATATATGTCTCATCTCGAGAGGCTTCTCC TAAGTGAATTTCTGTGTAATTTGGGGCGCTGGCTACTCCACCACAGTTTTAGAGGCTGACTGAATTTAC TATAATCTGGAACATCAAGCGTAATTGGTTCGCGACCCTTACCACGACCCTTCATATGCACTTGCAG CCGAGTAGTCTGGGA
Kinase Domain Sequence:	>SC323533 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation ATKATGMCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGT CAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGCAATCCCAGGATGGGAAAGGTTCAAGTGCGGG TTTTCTCCTTGAACCTAGAAGATTATGGGTCAAGAGCTGTGTGCAAAGACTGTACAGCCTGGATGCAGCT GCTACCATTGTTTCAAGGGAGGGCAGGCACACAGCTGTGCGGAGGA
Restriction Sites:	Please inquire
ACCN:	BC038807
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).
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell , 2008 May p536-548.
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:	<ol style="list-style-type: none"> 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.
RefSeq:	BC038807.1 , AAH38807.1
RefSeq Size:	2305 bp

RefSeq ORF:	1050 bp
Locus ID:	65061
Cytogenetics:	2q33.1
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	Serine/threonine-protein kinase that acts like an antiapoptotic protein that counters TRAIL/TNFSF10-induced apoptosis by inducing phosphorylation of BIRC5 at 'Thr-34'. [UniProtKB/Swiss-Prot Function]