

Product datasheet for **SC116679**

ITK (NM_005546) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITK (NM_005546) Human Untagged Clone
Tag:	Tag Free
Symbol:	ITK
Synonyms:	EMT; LPFS1; LYK; PSCTK2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF sequence for NM_005546 edited
 ATGAACAACCTTTATCCTCCTGGAAGAACAGCTCATCAAGAAATCCCAACAAAAGAGAAGA
 ACTTCTCCCTCGAACTTTAAAGTCCGCTTCTTTGTGTTAACCAAAGCCAGCCTGGCATA
 TTTGAAGATCGTCATGGGAAGAAGCGCACGCTGAAGGGGTCCATTGAGCTCTCCCGAATC
 AAATGTGTTGAGATTGTGAAAAGTGACATCAGCATCCCATGCCACTATAAATACCCGTTT
 CAGGTGGTGCATGACAACCTACCTCTATATGTGTTTGTCCAGATCGTGAGAGCCGGCAG
 CGCTGGGTGCTGGCCCTTAAAGAAGAAACGAGGAATAATAACAGTTTGGTGCCTAAATAT
 CATCCTAATTTCTGGATGGATGGGAAGTGGAGGTGCTGTTCTCAGCTGGAGAAGCTTGCA
 ACAGGCTGTGCCAATATGATCCAACCAAGAATGCTTCAAAGAAGCCTCTTCTCCTACT
 CCTGAAGACAACAGGCGACCACTTTGGGAACCTGAAGAACTGTGGTCATTGCCTTATAT
 GACTACCAAAACCAATGATCCTCAGGAACCTCGCACTGCGGCGCAACGAAGAGTACTGCCTG
 CTGGACAGTTCTGAGATTCACTGGTGGAGAGTCCAGGACAGGAATGGGCATGAAGGATAT
 GTACCAAGCAGTTATCTGGTGGAAAAATCTCAAATAATCTGGAAACCTATGAGTGGTAC
 AATAAGAGTATCAGCCGAGACAAAGCTGAAAACTTCTTTTGGACACAGGCAAAGAAGGA
 GCCTTCATGGTAAGGGATTCCAGGACTGCAGGAACATACACCGTGTCTGTTTTCCACCAAG
 GCTGTTGTAAGTGAGAACAATCCCTGTATAAAGCATTATCACATCAAGGAAACAAATGAC
 AATCCTAAGCGATACTATGTGGCTGAAAAGTATGTGTTTCGATTCCATCCCTCTTCTCATC
 AACTATACCAACATAATGGAGGAGGCCTGGTGACTCGACTCCGGTATCCAGTTTGT
 GGGAGGCAGAAAGCCCGAGTTACAGCAGGGCTGAGATACGGGAAATGGGTGATCGACCC
 TCAGAGCTCACTTTTGTGCAAGAGATTGGCAGTGGGCAATTTGGGTTGGTGCATCTGGGC
 TACTGGCTCAACAAGGACAAGGTGGCTATCAAAACCATTCCGGGAAGGGGCTATGTCAGAA
 GAGGACTTCATAGAGGAGGCTGAAGTAAATGATGAAACTCTCTCATCCAAACTGGTGCAG
 CTGTATGGGGTGTGCCTGGAGCAGGCCCATCTGCCTGGTGTGTTGAGTTCATGGAGCAC
 GGCTGCCTGTGAGATTATCTACGCACCCAGCGGGGACTTTTTGCTGCAGAGACCCTGCTG
 GGCATGTGTCTGGATGTGTGTGAGGGCATGGCCTACCTGGAAGAGGCATGTGTATCCAC
 AGAGACTTGGCTGCCAGAAATTGTTTGGTGGGAGAAAACCAAGTCATCAAGGTGTCTGAC
 TTTGGGATGACAAGGTTCTGTTCTGGATGATCAGTACACCAGTTCCACAGGCACCAAAATC
 CCGGTGAAGTGGGCATCCCAGAGGTTTTCTTTTCAGTCGCTATAGCAGCAAGTCCGAT
 GTGTGGTCATTTGGTGTGCTGATGTGGGAAGTTTTTCAGTGAAGGCAAAATCCCGTATGAA
 AACCGAAGCAACTCAGAGGTGGTGAAGACATCAGTACCGGATTTTCGGTTGTACAAGCCC
 CGGCTGGCCTCCACACAGTCTACCAGATTATGAATCACTGCTGGAAGAGAGACCAGAA
 GATCGGCCAGCCTTCTCCAGACTGCTGCGTCAACTGGCTGAAATTGCAGAATCAGGACTT
 TAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005546 unedited
 GACCGGGTTTNGTAAACCGCACTCATGAGAGGGCGCAACACAATTTCGCACGAGCTTTG
 CCCCAAAACCTTTCTTTGGTTGTGCTAAGAGGTGATGCCCAAGGTGCACCACCTTTCA
 AGAATGGATCATGAACAACCTTTATCCTCCTGGAAGAACAGCTCATCAAGAAATCCCAAC
 AAAAGAGAAGAATTCTCCCTCGAACTTTAAAGTCTCTCNTTGTGTTAACCAAAGCCA
 GCCTGGCATACTTTGAAGATCGTCATGGGAAGAAGCGCACGCTGAAGGGGTCCATTGAGC
 TCTCCCGAATCAAATGTGTTGAGATTGTGAAAAGTGACATCAGCATCCCATGCCACTATA
 AATACCCGTTTTCAGGTGGTGCATGACAACCTACCTCTATATGTGTTTGTCCAGATCGTG
 AGAGCCGGCAGCGCTGGGTGCTGGCCCTTAAAGAAGAAACGAGGAATAATAACAGTTTGG
 TGCCTAAATATCATCCTAATTTCTGGATGGATGGGAAGTGGAGGTGCTGTTCTCAGCTGG
 AGAAGCTTGCAACAGGCTGTGCCAATATGATCCAACCAAGAATGCTTCAAAGAAGCCTC
 TTCTCCTACTCCTGAAGACAACAGGCGACCACTTTGGGAACCTGAAGAACTGTGGTCA
 TTGCCTTATATGACTACCAAAACCAATGATCCTCAGGAACCTCGCACTGCGGCGCAACGAAG
 AGTACTGCCTGCTGGACAGTTCTGAGATCACTGGTGGAGAGTCCAGACAGGAATGGGCA
 TGAAGGATATGTACCAAGCAGTTATCTGGTGGAAAAATCTCAAATAATCTGGAAACCTA
 TGAGTGGTACAATAAGAGTATCAGCCGAGACCAAGGCTGAAAACCTTTTTTGGACACNGC
 CAAGAAGGAGCCTTC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005546 unedited TTTAAATAGCTTGNNACCGCGGCCCAATCTAGNGATCGGTTTTTTTTTTTTTTTTTTTTT TATTTGTAACATTTTTATTTTGAACACTAGCAGTGACTGTACATTAATAAATATGCATCT GATCCAAATATAAATACATAGTCTCAAAAGGTACAAAATGCAAAATCTACGAAATAAAC TAGAACCAAACTCTGTATAAGGGAGTTCTCTACAAACACAGGGGACCATTTAAAAAATG TGAGAAGAGAAAAACCAGGCAGGAAGCCATTTTGCGGGATAGGGCACCAGGAGGTGAAG AATGTACACATGTACAGTTGAGGATTAGATGAATCTGAGCTTGAAAAAGGTAATACCATG CACAGGGGAATTTCTAAACCAACCACAGAGATCAGTCAATTCCAATGTTTTCTTTCTA GACTGAATGTTCCAGAAATCATCTCTAATTAAGGATCCCAAAAAGATAATGTACAAAATTC TAAAAAGTAAACAGAGATAATTTTGGATAAGCTGAGTAAAATCATCTTCTGAATGACAGA GTTTTATCTTGAGGCTCTCCACTTCACAATAATTATAATTAATAAATATGCATCTGAATC TCAAGCCAGTCAAAACGTCACATGATTTAGAAAGAGCCAATTGCAACACCATCCTCTCTT ATATCAGGGAATGTCCCTCCTCATGAAGTGTTCAGAAGACTACAGCTGAAAGTTGGAAT GATAATTAAGGAAGAAGTACTACTTCTACAGAAGAATCTTTAAAGTTGCTTTGAAGCT CGTCTATAAATGGCTTCAAGCAACATGACTGGTTGGTTGTGAAGATTAAGGGTCATTAA CTGAATAACTCCAAAGTCATTAACATGACCCAAGTANGGATACAGAATANNGAAAAGGAA AATCCTATTNCA
Restriction Sites:	NotI-NotI
ACCN:	NM_005546
Insert Size:	4700 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:	<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:	NM_005546.3 , NP_005537.3
RefSeq Size:	4366 bp
RefSeq ORF:	1863 bp
Locus ID:	3702
UniProt ID:	Q08881
Cytogenetics:	5q33.3
Domains:	kinase, SH2, TyrKc, SH3, BTK, PH, S_TKc
Protein Families:	Druggable Genome, Protein Kinase

Protein Pathways: Chemokine signaling pathway, Leukocyte transendothelial migration, T cell receptor signaling pathway

Gene Summary: This gene encodes an intracellular tyrosine kinase expressed in T-cells. The protein contains both SH2 and SH3 domains which are often found in intracellular kinases. It is thought to play a role in T-cell proliferation and differentiation. [provided by RefSeq, Jul 2008]