

Product datasheet for **SC323370**

IKBKE (NM_014002) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKBKE (NM_014002) Human Untagged Clone
Tag:	Tag Free
Symbol:	IKBKE
Synonyms:	IKK-E; IKK-i; IKKE; IKKI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC323370 sequence for NM_014002 edited (data generated by NextGen Sequencing)

```

ATGCAGAGCACAGCCAATTACCTGTGGCACACAGATGACCTGCTGGGGCAGGGGGCCACT
GCCAGTGTGTACAAGGCCCGCAACAAGAAATCCGGAGAGCTGGTTGCTGTGATGGTCTTC
AACACTACCAGCTACCTGCGGCCCGCGAGGTGCAGGTGAGGGAGTTTGAGGTCTGCGG
AAGCTGAACCACCAGAACATCGTCAAGCTCTTTGCGGTGGAGGATACGGCGGAAGCCGG
CAGAAGGTACTGGTGATGGAGTACTGCTCCAGTGGGAGCCTGCTGAGTGTGCTGGAGAGC
CCTGAGAATGCCTTTGGGCTGCCTGAGGATGAGTTCTGGTGGTGTGCTGCGCTGTGTGGTG
GCCGGCATGAACCACCTGCGGGAGAACGGCATTGTGCATCGCGACATCAAGCCGGGGAAC
ATCATGCGCCTCGTAGGGGAGGAGGGGCAGAGCATCTACAAGCTGACAGACTTCGGCGCT
GCCCCGGAGCTGGATGATGATGAGAAGTTCGTCTCGGTCTATGGGACTGAGGAGTACCTG
CATCCCGACATGTATGAGCGGGCGGTGCTTCGAAAGCCCCAGCAAAAAGCGTTCGGGGTG
ACTGTGGATCTCTGGAGCATTGGAGTGACCTTGTACCATGCAGCCACTGGCAGCCTGCC
TTCATCCCCTTTGGTGGGCCACGGCGGAACAAGGAGATCATGTACCGGATCACCACGGAG
AAGCCGGCTGGGGCCATTGCAGGTGCCAGAGGCGGGAGAACGGGCCCTGGAGTGGAGC
TACACCCTCCCCATCACCTGCCAGCTGTACTGGGGCTGCAGAGCCAGCTGGTGCCCATC
CTGGCCAACATCCTGGAGGTGGAGCAGGCCAAGTGTGGGGCTTCGACCAGTTCTTTGCG
GAGACCACTGACATCCTGCAGCGAGTTGTCTGTCATGTCTTCTCCCTGTCCCAGGCACTC
CTGCACCACATCTATATCCATGCCACACAACACGATAGCCATTTTCCAGGAGGCCGTGCAC
AAGCAGACCAGTGTGGCCCCCGACACCAGGAGTACCTCTTTGAGGGTCACCTCTGTGTC
CTCGAGCCCAGCGTCTCAGCACAGCACATCGCCACACGACGGCAAGCAGCCCCCTGACC
CTCTTCAGCACAGCCATCCCTAAGGGGCTGGCCTTCAGGGACCCTGCTCTGGACGTCCCC
AAGTTCGTCCCCAAAGTGGACCTGCAGGCGGATTACAACACTGCCAAGGGCGTGTGGGGC
GCCGGCTACCAGGCCCTGCGGCTGGCACGGGCCCTGCTGGATGGGCAGGAGCTAATGTTT
CGGGGGCTGCACTGGGTGATGGAGGTGCTCCAGGCCACATGCAGACGGACTCTGGAAGTG
GCAAGGACATCCCTCCTTACCTCAGCAGCAGCCTGGGAAGTGCAGAGTTTGCAGCAGCTG
GCTGGAACGCCTGAGATCCAGGAAGTGAAGGCGGCTGCAGAACTGAGGTCCAGGCTGCGG
ACTCTAGCGGAGGTCTCTCCAGATGCTCCCAAAATATCACGGAGACCCAGGAGAGCCTG
AGCAGCCTGAACCGGGAGCTGGTGAAGAGCCGGGATCAGGTACATGAGGACAGAAGCATC
CAGCAGATTGAGTGTGTTTGGACAAGATGAACTTCATCTACAAACAGTTCAAGAAGTCT
AGGATGAGGCCAGGGCTTGGCTACAACGAGGAGCAGATTACAAGCTGGATAAAGTGAAT
TTCAGTCATTTAGCCAAAAGACTCCTGCAGGTGTTCCAGGAGGAGTGCGTGCAGAAAGTAT
CAAGCGTCCTTAGTCACACACGGCAAGAGGATGAGGGTGGTGCACGAGACCAGGAACAC
CTGCGCCTGGTTGGCTGTTCTGTGGCTGCCTGTAAACAGAAAGCCAGGGGGTCCAGGAG
AGTCTCAGCAAGCTCCTGGAAGAGCTATCTCACCAGCTCCTTCAGGACCGAGCAAGGGG
GCTCAGGCCTCGCCGCTCCCATAGCTCCTTACCCAGCCCTACACGAAAGGACCTGCTT
CTCCACATGCAAGAGCTCTGCGAGGGGATGAAGTGTGTCATCTGACCTCCTGGACAAC
AACCGCATCATCGAACGGCTAAATAGAGTCCCAGCACTTCCTGATGTCTGA

```

Clone variation with respect to NM_014002.3
 113 a=>t;201 t=>c;225 g=>t;2138 c=>t

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for mutant NM_014002 unedited</p> <pre> CCCCCCCCTTCGAGCAACTGGGCGGTAGGCGCTGTACGGTCTGTGGAGGTCTATATAAGCAGAGCTCGTT TAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACCAGAAGAAACC CACTAGTCCCAGTCTCTGGGGTGGCACAGACATTGCAACTGGCCCTGCCTGTGGGTCTAGGGGCCCTTG GCTACCAGGAGGCTAAGAACCTGCTCATGAATGACAGTGAGCCCTGAAAGCTCTGGGGGTGTACCCAG TCCCACAAGCCTGCATCCCCTGCAGTGGAGATGGGCTCAGCTCCTGGACGTGCCACAGACAGAAAGCATA ACATACAGTTTCGCCAGGAGAGCCTTTGCCTGACTCAGGGCAGCTTAAAGTTGGGGGCAGAAAGTACAGCC AGCTCAGGGCAGAAATGCAAAGCCAGCAATTACTGGTGGCAACGATAACTGGCGGGCAGGGGCCCTGCA TTGTGTAAGGCCGCAAAGAAATCGAAAACCTGTTTGTGTATGGTTTAAATACAGCTACTGGGCCCCGA GGGTGAGTGAAGGATTTAAGGCCTGGGAACTAACCCGAACTCTCAGCTTTCGTGAGAGACCGCGAAGC CGCAAAGCTGTGTGAGACTCTCCTGGACCCTGAGTGTGTGAACCGAAGCCTGGTCGACAGATACCTG TGTCGCTGTGGCGCTACACTGGGAACGCTGCTCTGCTAACGGACATGCGTAGAGATGTACTACAAA AAATGCGCGAAGGCGGT </pre>
Kinase Domain Sequence:	<p>>SC323370 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</p> <pre> CKACTGMGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGT CAGAATTTTGAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACCAGAAGAAACCCACTAGTCCCA GCTCCTGGGGTGGCACAGACATTGCAACTGGCCCTGCCTGTGGGTCTAGGGGCCCTTGCTACCAGGAG GCTAAGAACACTGCTCATGAATGACAGTGAGCCCTGAAAGCTCTG </pre>
Restriction Sites:	Please inquire
ACCN:	NM_014002
Insert Size:	4000 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).
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:	NM_014002.2 , NP_054721.1
RefSeq Size:	3263 bp
RefSeq ORF:	2151 bp

Locus ID:	9641
UniProt ID:	Q14164
Cytogenetics:	1q32.1
Domains:	pkinase
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Cytosolic DNA-sensing pathway, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway
Gene Summary:	<p>IKBKE is a noncanonical I-kappa-B (see MIM 164008) kinase (IKK) that is essential for regulating antiviral signaling pathways. IKBKE has also been identified as a breast cancer (MIM 114480) oncogene and is amplified and overexpressed in over 30% of breast carcinomas and breast cancer cell lines (Hutti et al., 2009 [PubMed 19481526]).[supplied by OMIM, Oct 2009]</p> <p>Transcript Variant: This variant (1) is the longest transcript and it encodes the longest protein (isoform 1).</p>