

Product datasheet for SC117829

IKAP (IKBKAP) (NM_003640) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKAP (IKBKAP) (NM_003640) Human Untagged Clone
Tag:	Tag Free
Symbol:	IKAP
Synonyms:	DYS; FD; IKAP; IKBKAP; IKI3; TOT1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003640 edited
 ATGCGAAATCTGAAATTATTTCCGACCCTGGAGTTCAGGGATATTCAAGGTCAGGGAAT
 CCTCAGTGCTTCTCTCCGAACCTGAACAGGGGACGGTGCTCATTGGTTCAGAACATGGC
 CTGATAGAAGTAGACCCTGTCTCAAGAGAAGTGAAAAATGAAGTTTCTTTGGTGGCAGAA
 GGCTTTCTCCCAGAGGATGGAAGTGCCGCATTGTTGGTGTTCAGGACTTGCTGGATCAG
 GAGTCTGTGTGTGGCCACAGCCTCTGGAGACGTCACTACTCTGCAGTCTCAGCACACAA
 CAGCTGGAGTGTGTTGGGAGTGTAGCCAGTGGTATCTCTGTTATGAGTTGGAGTCCTGAC
 CAAGAGCTGGTGTCTTGCCACAGGTCAACAGACCCTGATTATGATGACAAAAGATTTT
 GAGCCAATCCTGGAGCAGCAGATCCATCAGGATGATTTTGGTAAAAGCAAGTTTACTCT
 GTTGGATGGGGTAGGAAGGAGACACAGTCCATGGATCAGAAGGCAGACAAGCAGCTTTT
 CAGATGCAAAATGCATGAGTCTGCTTTGCCCTGGGATGACCATAGACCACAAGTTACTGG
 CGGGGGGATGGACAGTTTTTTGCTGTGAGTGTGTTTGGCCAGAAACAGGGGCTCGGAAG
 GTCAGAGTGTGGAACCGAGAGTTTGCTTTGCAGTCAACCAGTGAGCCTGTGGCAGGACTG
 GGACCAGCCCTGGCTTGGAAACCCTCAGGCAGTTTGATTGCATCTACACAAGATAAAACC
 AACCAGCAGGATATTGTGTTTTTTGAGAAAAATGGACTCCTTCATGGACTTTTACACTT
 CCCTTCCTTAAAGATGAGGTTAAGGTAATGACTTGCTCTGGAATGCAGATTCTCTGTG
 CTTGCAGTCTGGCTGGAAGACCTTCAGAGAGAAGAAAGCTCCATCCGAAAACCTGTGTT
 CAGCTCTGGACTGTTGAAAATATCACTGGTATCTCAAGCAAAGTTTATCCTTCAGCACC
 TGTGGGAAGAGCAAGATTGTGTCTGATGTGGGACCCTGTGACCCATACCGGCTGCAT
 GTTCTCTGTGAGGCTGGCATTACCTCGCCTATGATTGGCACTGGACACTGACCGGAGC
 GTGGGAGATAATTCAAGTGAATGTCCAATGTGGCTGTGATTGATGGAACAGGGTGTG
 GTGACAGTCTTCCGGCAGACTGTGGTCCGCTCCCATGTGCACCTACCAACTGCTGTTT
 CCACACCCTGTGAATCAAGTCACATTCTTAGCACACCCTCAAAGAGTAATGACCTTGCT
 GTTCTAGATGCCAGTAACCAGATTTCTGTTTATAAATGTGGTATTGTCCAAGTGTGAC
 CCTACAGTGAAACTGGGAGCTGTGGTGGAAAGTGGATTTAAAGTTTGCCTTAGAACTCCT
 CATTTGAAAAGAGATACAAAATCCAGTTTGAAGAATAATGAAGATCAAGATGTAACCCG
 CTGAAACTAGGCCTTCTCACTTGGATTGAAGAAGACGTCTTCTGCTGTAAGCCACAGT



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GAGTTCAGCCCCGGTCTGTCATTACACATTTGACTGCAGCTTCTCTGAGATGGATGAA
 GAGCATGGACAGCTCAATGTCAGTTCATCTGCAGCGGTGGATGGGGTCATAATCAGTCTA
 TGTTGCAATTCGAAGACCAAGTCAGTAGTATTACAGCTGGCTGATGGCCAGATATTTAAG
 TACCTTTGGGAGTCACCTTCTCTGGCTATTAACCATGGAAGAACTCTGGTGGATTTCT
 GTTCGGTTTCCTATCCATGCACCCAGACCGAATTGGCCATGATTGGAGAAGAGGAATGT
 GTCCTTGGTCTGACTGACAGGTGTCGCTTTTTCATCAATGACATTGAGGTTGCGTCAAA
 ATCAGCTCATTTGCAGTATATGATGAGTTTTTATTGTTGACAACCCATTCCCACCTGC
 CAGTGTTTTTGCCTGAGGGATGCTTCATTTAAAACATTACAGGCCGGCCTGAGCAGCAAT
 CATGTGTCCCATGGGGAAGTTCTGCGGAAAGTGGAGAGGGGTTACCGATTGTCACTGTT
 GTGCCCCAGGACACAAAGCTTGTATTACAGATGCCAAGGGGAACTTAGAAGTTGTTTCAT
 CATCGAGCCCTGGTTTTAGCTCAGATTCGGAAGTGGTTGGACAACTTATGTTTAAAGAG
 GCATTTGAATGCATGAGAAAGCTGAGAATCAATCTCAATCTGATTTATGATCATAACCT
 AAGGTGTTTTCTGGAAATGTGGAACCTTCATTAACAGATAGATTCTGTGAATCATATT
 AACTTGTTTTTACAGAATTGAAAGAAGAAGATGTCACGAAGACCATGTACCCTGCACCA
 GTTACCAGCAGTGTCTACCTGTCCAGGGATCCTGACGGGAATAAAATAGACCTTGTCTGC
 GATGCTATGAGAGCAGTCATGGAGAGCATAAATCCTCATAAATACTGCCTATCCATACTT
 ACATCTCATGTAAGAAGACAACCCAGAACTGGAATTTGACTGCAAAAAGTACACGAG
 CTTCAAGGAAATGCTCCCTCTGATCCTGATGCTGTGAGTCTGAAGAGGCCTTGAATAT
 TTGCTGCATCTGGTAGATGTTAATGAATTATATGATCATTCTCTTGGCACCTATGACTTT
 GATTTGGTCTCATGGTAGCTGAGAAGTACAGAAGGATCCCAAAGAATATCTTCCATTT
 CTTAATACTTAAGAAAATGAAAACCTAATTATCAGCGGTTTACTATAGACAAATACTTG
 AAACGATATGAAAAGCCATTGGCCACCTCAGCAAATGTGGACCTGAGTACTTCCAGAA
 TGCTTAAACTTGATAAAAAGATAAAAACCTGTATAACGAAGCTCTGAAGTTATATTCACCA
 AGCTCACAAACAGTACCAGGATATCAGCATTGCTTATGGGGAGCACCTGATGCAGGAGCAC
 ATGTATGAGCCAGCGGGCTCATGTTTGCCTGTTGCGGTGCCACGAGAAAGCTCTCTCA
 GCCTTTCTCACATGTGGCAACTGGAAGCAAGCCCTCTGTGTGGCAGCCAGCTTAACTTT
 ACCAAAGACCAGCTGGTGGGCTCGGCAGAACTCTGGCAGGAAAGCTGGTTGAGCAGAGG
 AAGCACATTGATGCGGCCATGGTTTTGGAAGAGTGTGCCAGGATTATGAAGAAGCTGTG
 CTCTTGCTGTTAGAAGGAGCTGCCTGGGAAGAAGCTTTGAGGCTGGTATACAAATATAAC
 AGACTGGATATTATAGAAACCAACGTAAGCCCTCCATTTTAGAAGCCCAGAAAAATTAT
 ATGGCATTCTGGACTCTCAGACAGCCACATTCAGTCGCCACAAGAAACGTTTATTGGTA
 GTTCGAGAGCTCAAGGAGCAAGCCAGCAGGAGGCTGGATGATGAGGTACCCACGGG
 CAAGAGTCAGACCTTCTCTGAAACTAGCAGTGTGCGTAGTGGCAGTGAGATGAGTGGC
 AAATACTCCCATAGTAACTCCAGGATATCAGCGAGATCATCCAAGAATCGCCGAAAAGCG
 GAGCGGAAGAAGCACAGCCTCAAAGAAGGCAGTCCGCTGGAGGACCTGGCCCTCTGGAG
 GCACTGAGTGAAGTGGTGCAGAACACTGAAAACCTGAAAGATGAAGTATACCATATTTTA
 AAGGTACTCTTTCTTTGAGTTTGTATGAACAAGGAAGGAATTACAGAAGGCCTTTGAA
 GATACGCTGCAGTTGATGAAAGGTCACCTCCAGAAATTTGGACTTCTACTTACCAGCAG
 AATTCAGCTACCCCGTTCTAGGTCCTCAATCTACTGCAAAATAGTATCATGGCATCTTAT
 CAGCAACAGAAGACTTCGGTTCCTGTTCTTGTGCTGAGCTTTTTATACCACCAAAGATC
 AACAGAAGAACCAGTGAAGCTGAGCCTGCTAGAC

Restriction Sites: NotI-NotI
ACCN: NM_003640
Insert Size: 4400 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_003640.2.
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_003640.2 , NP_003631.2
RefSeq Size:	5917 bp
RefSeq ORF:	3999 bp
Locus ID:	8518
UniProt ID:	O95163
Cytogenetics:	9q31.3
Domains:	IKI3
Protein Families:	Druggable Genome
Gene Summary:	<p>The protein encoded by this gene is a scaffold protein and a regulator for three different kinases involved in proinflammatory signaling. The encoded protein can bind NF-kappa-B-inducing kinase and I-kappa-B kinases through separate domains and assemble them into an active kinase complex. Mutations in this gene have been associated with familial dysautonomia. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2016]</p>