

Product datasheet for **SC323410**

YANK2 (STK32B) (NM_018401) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	YANK2 (STK32B) (NM_018401) Human Untagged Clone
Tag:	Tag Free
Symbol:	YANK2
Synonyms:	HSA250839; STK32; STKG6; YANK2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC323410 sequence for NM_018401 edited (data generated by NextGen Sequencing)

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ATGGGCGGGAACCACTCCACAAGCCCCCGTGTTTGACGAGAATGAGGAAGTCAACTTT
GACCATTTTCAGATTCTGCGGGCCATTGGTAAAGGGAGTTTTGGAAAGGTATGCATCGTG
CAGAAGCGAGACACTAAGAAAATGTATGCAATGATGTACATGAACAAGCAGAAAGTGCATC
GAGAGGGATGAGGTTCCGAATGTTTTCCGGGAGCTGCAGATCATGCAAGGGCTGGAGCAC
CCCTTCTGGTCAATCTGTGGTACTCCTCCAGGATGAGGAGGACATGTTTCATGGTGGTG
GACCTGCTCCTGGGAGGCGACCTGCGCTACCATCTGCAGCAGAATGTGCATTTACAGAG
GGGACTGTGAACTCTACATCTGTGAGCTGGCACTGGCCCTGGAGTATCTTCAGAGGTAC
CACATCATCCACAGAGACATCAAGCCAGACAATATCCTGCTGGATGAACACGGACATGTT
CACATTACAGACTTCAACATAGCGACGGTAGTAAAGGAGCAGAAAGGGCTTCTCCATG
GCTGGCACCAAGCCCTACATGGCTCCAGAAGTATTCAGGTGTACATGGACAGAGGCCCC
GGATACTCGTACCCTGTGCGACTGGTGGTCCCTGGGCATCACAGCCTATGAGCTGTGCGG
GGCTGGAGGCCGTACGAAATCCACTCGGTACGCCCATCGATGAAATCCTCAACATGTTT
AAGGTGGAGCGTGTCCACTACTCCTCCACGTGGTGAAGGGGATGGTGGCCCTGTGAGG
AAGCTCCTGACCAAGGATCCTGAGAGCCGCGTGTCCAGCCTTCATGACATACAGAGCGTG
CCCTACTTGGCCGACATGAACTGGGACGCGGTGTTCAAGAAGGCACTGATGCCCGGCTTT
GTGCCAATAAAGGGAGGTTGAACTGCGATCCCACATTTGAGCTTGAAGAGATGATTCTA
GAATCCAAGCCACTTACAAAAAGAAGAAGCGATTGGCAAAGAAGCAGATCCAGGGATGGC
ACAAAGGACAGCTGCCCGCTGAATGGACACCTGCAGCACTGTTTGGAGACTGTCCGGGAG
GAATTCATCATATTCAACAGAGAGAAGCTCAGGAGGCAGAGGGCAGGGCAGCCAGCTC
TTGGACACCGACAGCCGAGGGGGAGGCCAGGCCAAAGCAAGCTCCAGGACGGGTGCAAC
AACAACTCCTCACCCACACCTGCACCCGTGGCTGCAGCAGCTGA

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Clone variation with respect to NM_018401.1
155 a=>t



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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_018401 unedited ACCGCCGTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGTAAATACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGGGGGACGCCGTCC CCGCCCCGTCACGGTCTCGGCCCTCGGGCTCCGCGCGCGGCTACAACCCGGACTGGGCGGCCCCCG GCATCCCGCATCTCTGCGCGCTCCCACATCCCGCATCCGGCATCCCAGCGGCCGGGCATGTAGCAGCGG CAGCAACGGCGGAATATGGGCGGAACCACTCCACAAGCCCCCGTGTGGACGAGAATGAGGAAGTC AACTTTGACATTTTCAGATTCTGCGGGCATTGGTAAAGGGAGTTTTGGAAAGGTATGCATCGTGCAGA AGCGAGACACTAAGAAAATGTATGCAATGATGTACATGACAAGCAGAGTGCATCGAGAGGGATGAGTTCG GATGTTTTCCGGAGCTGCAGATCATGCAGGCTGAGCCACCCTCTGTCATCCTGTGTACTCTCAGATGA GAGCCATTGTCCATGGTGGTGGAACTTGTCTGGAGGCCGACTGGCGCTAACATCTGCAAGCGAAAAGGTG CCATGCACAAGGGAACGTGTAACCTCACTCGTGTAGACTCTGACTTGGCCCTTGAAGTTATCTCCT CAAGGTTACCATCTCCTCAAGAGCACTTAAGGCCGAGCACAATCTGTCTGATGAGACGGCACTGTGTC ATTACGACGTCTCACTATCGACCGTGGTGAAGGCCAAGGGCTCTCATAGTGTGAGACCAAGCGC TCATGGGTCTCAGATCTACGGTCTTGTGACAAGCGGATCTGAACTGCACTGTGTCCTGGTTCATCATT CGCTGCAGCGTGAGAGCTACTGATC
Kinase Domain Sequence:	>SC323410 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 CCTTGMGCATGGGCGGTAGGCKGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAG AATTTTGTAAATACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGGGGGACGCCGTCCCCGCCCC TGCACGGTCTCGGCCCTCGGGCTCCGCGCGCGGCTACAACCCGGACTGGGCGGCCCCCGGCATCCC GCATCTCTGCGCGCTCCACATCCCGCATCCGGCATCCCAGCGG
Restriction Sites:	Please inquire
ACCN:	NM_018401
Insert Size:	3900 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_018401.1 , NP_060871.1

RefSeq Size: 3224 bp

RefSeq ORF: 1245 bp

Locus ID: 55351

UniProt ID: [Q9NY57](#)

Cytogenetics: 4p16.2

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene encodes a serine-threonine protein kinase. Serine-threonine kinases transfer phosphate molecules to the oxygen atoms of serine and threonine. A genomic deletion affecting this gene has been associated with Ellis-van Creveld syndrome, an autosomal recessive skeletal dysplasia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]