

## Product datasheet for **SC323601**

### **YES1 (NM\_005433) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	YES1 (NM_005433) Human Untagged Clone
Tag:	Tag Free
Symbol:	YES1
Synonyms:	c-yes; HsT441; P61-YES; Yes
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_005433, the custom clone sequence may differ by one or more nucleotides

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ATGGGCTGCATTAAGTAAAGAAAACAAAAGTCCAGCCATTAATACAGACCTGAAAATACTCCAGAGC
CTGTCAGTACAAGTGTGAGCCATTATGGAGCAGAACCCTACAGTGTCCACATGTCGTCATCTTCAGC
AAAGGGAACAGCAGTTAATTTCCAGCAGTCTTTCCATGACACCATTGGAGGATCCTCAGGGGTAACGCCT
TTTGGAGGTGCATCTTCCATTTTCAGTGGTGCACAAAGTTCATATCCTGCTGGTTTAAACAGGTGGTGTTA
CTATATTTGTGGCCTTATATGATTATGAAGCTAGAAGTACAGAAGACCTTTCATTTAAGAAGGGTGAAAAG
ATTTCAAATAATTAACAATACGGAAGGAGATTGGTGGGAAGCAAGATCAATCGCTACAGGAAAGAATGGT
TATATCCCAGCAATTATGTAGCGCCTGCAGATTCCATTCAGGCAGAAGAATGGTATTTTGGCAAAATGG
GGAGAAAAGATGCTGAAAGATTACTTTTGAATCCTGGAATCAACGAGGTATTTTCTTAGTAAGAGAGAG
TGAACAACAACTAAAGGTGCTTATCCCTTCTATTCTGATTGGGATGAGATAAGGGGTGACAATGTGAAA
CACTACAAAATTAGGAACTTGACAATGGTGGATACTATATCACAAACCAGAGCACAATTTGATACTCTGC
AGAAATTTGGTGAACACTACACAGAATGCTGATGGTTTATGCCACAAGTTGACAACCTGTGTGCCAAC
TGTGAAACCTCAGACTCAAGGTCTAGCAAAAGATGCTTGGGAAATCCCTCGAGAATCTTTGCGACTAGAG
GTTAAACTAGGACAAGGATGTTTCGGCGAAGTGTGGATGGGAACATGGAATGGAACCACGAAAGTAGCAA
TCAAAACACTAAAACCAGGTACAATGATGCCAGAAGCTTTCTTCAAGAAGCTCAGATAATGAAAAAATT
AAGACATGATAAACTTGTCCACTATAATGCTGTTGTTTCTGAAGAACCAATTTACATTGTCACTGAATTT
ATGTCAAAAGGAAGCTTATTAGATTTCCCTAAGGAAGGAGATGGAAAGTATTTGAAGCTTCCACAGCTGG
TTGATATGGCTGCTCAGATTGCTGATGGTATGGCATATATTGAAAGAATGAACTATATCCACCGAGATCT
TCGGGCTGCTAATTTCTGTAGGAGAAAATCTGTGTGCAAAAATAGCAGACTTTGGTTTAGCAAGGTTA
ATTGAAGACAATGAATACACAGCAAGACAAGGTGCAAAAATTTCCAATCAAATGGACAGCTCCTGAACTG
CACTGTATGGTCCGTTTACAATAAAGTCTGATGTCTGGTCAATTTGGAATCTGCAAAACAGAACTAGTAAC
AAAGGGCCGAGTGCCATATCCAGGTATGGTGAACCGTGAAGTACTAGAACAAGTGGAGCGAGGATACAGG
ATGCCGTGCCCTCAGGGCTGTCCAGAATCCCTCCATGAATTGATGAATCTGTGTTGGAAGAAGGACCCTG
ATGAAAGACCAACATTTGAATATATTCAGTCTTCTTGGAAAGACTACTTCACTGCTACAGAGCCACAGTA
CCAGCCAGGAGAAAATTTATAA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for mutant NM\_005433 unedited

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CCGCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAAC
CGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGAAAGTGACACGGACC
GGTCGCCTATCCTGACCACAGCAAAGCGGCCCGGAGCCCGCGGAGGGGACCTGACGGGGCGTAGGGCC
GGAAGGCTGGGGGCCCGGAGCCGGGCCGCGCGCCGAGTTCCGGTGAAGCGGACGGCGCGCCGCGCAG
ATTTGATAATGGGCTGCATTAAGTAAAGAAAACAAAAGTCCAGCCATTAATACAGACCTGAAAATAC
TCCCAGAGCCCTGTCAGTACAAGTGTGAGCCATTATGGGAGCAGACCCCACTACAGTTGTCCACCATGT
CCCGTCATCCTTACGAAAGGGGAACAGCAGTTTAATTTTCAGCAGTTCTTTCCATGACCACCATTTTG
GGAGGATCCTTACAGGGTACCGCCTTTTGGGAGGGTGCATTCTTCTCATTTTTTTCAGGTGGGTGCAAGT
TTCTATATCCTCGTGGTTTAAACCAGGTGGTGTACCATATTTTGGCCCTAAATGATATATGAGCTAGAAC
CTACGAGAGACTTTTCTTGAAGGGAAGATTTCCATATATTAACATCCGGAAGGAGATGGGGAACCGA
TCTACTCGCTAGGAAAATGGTATTCCAGACATTGTGACGCTCGCAATCCTTCGGCAAATGTTTGGCCAA
TGGAAAATGTCGAAATCTGAATCCGGATCCAGGAATTCTGATAGAAAAGTGAACATAAGCCCTATCCTA
TACCCAGTGTGAATATGGGTTTACGTGAGAAAACACAATATGAGAT
    
```

**Kinase Domain Sequence:**

>SC323601 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

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CTGCATCCTCGAGATCTTTGCGACTAGAGGTTAACTAGGACAAGGATGTTTCGGCGAAGTGTGGATGGG
AACATGGAATGGAACCACGAAAGTAGCAATCATGACACTAAAACCAGGTACAATGATGCCAGAAGCTTTC
CTTCAAGAAGCTCAGATAATGAAAAAATTAAGACATGATAAACTTGTCCACTATATGCTGTTGTTTCTG
AGAACCAATTTACATTGCTCACTGAATTTATGTCAAAAGGAAGCT
    
```

<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_005433
<b>Insert Size:</b>	4230 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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." <a href="#">Cell. 2008 May p536-548.</a>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005433.3</a> , <a href="#">NP_005424.1</a>
<b>RefSeq Size:</b>	4685 bp
<b>RefSeq ORF:</b>	1632 bp
<b>Locus ID:</b>	7525
<b>UniProt ID:</b>	<a href="#">P07947</a>
<b>Cytogenetics:</b>	18p11.32
<b>Domains:</b>	pkinase, SH2, TyrKc, SH3, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Adherens junction, Tight junction
<b>Gene Summary:</b>	This gene is the cellular homolog of the Yamaguchi sarcoma virus oncogene. The encoded protein has tyrosine kinase activity and belongs to the src family of proteins. This gene lies in close proximity to thymidylate synthase gene on chromosome 18, and a corresponding pseudogene has been found on chromosome 22. [provided by RefSeq, Jul 2008]