

## Product datasheet for **SC323632**

### **DYRK1B (NM\_004714) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DYRK1B (NM_004714) Human Untagged Clone
Tag:	Tag Free
Symbol:	DYRK1B
Synonyms:	AOMS3; MIRK
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: >OriGene ORF within SC323632 sequence for NM\_004714 edited (data generated by NextGen Sequencing)

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ATGGCCGTCCCACCGGGCCATGGTCCCTTCTCTGGCTTCCCAGGGCCCCAGGAGCACACG
CAGGTATTGCCTGATGTGCGGCTACTGCCTCGGAGGCTGCCCCCTGGCCTTCCGGGATGCA
ACCTCAGCCCCGCTGCGTAAGCTCTCTGTGGACCTCATCAAGACCTACAAGCACATCAAT
GAGGTATACTATGCGAAGAAGAAGGTCCTGAACCATGGTTATGATGACGACAACCATGACTACATC
AACAAAGAAGGAGAAGAAGGTCTGAACCATGGTTATGATGACGACAACCATGACTACATC
GTGCGCAGTGGCGAGCGCTGGCTGGAGCGCTACGAAATTGACTCGCTCATTGGCAAAGGC
TCCTTTGGCCAGGTGGTGAAGCCTATGATCATCAGACCCAGGAGCTTGTGGCCATCATG
ATCATCAAGAACAAAAGGCTTTCTGAACCAGGCCAGATTGAGCTGCGGCTGTGGAG
CTGATGAACCAGCATGACACGGAGATGAAGTACTATATAGTACACCTGAAGCGGCACTTC
ATGTTCCGGAACCACTGTGCCTGGTATTTGAGCTGCTGTCTACAACCTGTACGACCTC
CTGCGCAACACCACTTCCGCGGCTCTCGCTGAACCTGACCCGGAAGCTGGCGCAGCAG
CTCTGCACGGCACTGCTTTTCTGGCCACGCTGAGCTCAGCATCATTCACTGCGACCTC
AAGCCCCAAAACATCTTGCTGTGAACCCCAAGCGCAGCGCCATCAAGATTGTGGACTTC
GGCAGCTCCTGCCAGCTTGGCCAGAGGATCTACAGTATATCCAGAGCCGCTTCTACCGC
TCACCTGAGGTGCTCCTGGGCACACCCTACGACCTGGCCATTGACATGTGGTCCCTGGGC
TGCATCCTTGTGGAGATGCACACCGGAGAGCCCCTTTCAGTGGCTCCAATGAGGTGCAG
CAGATGAACCGCATTGTGGAGGTGCTGGGCATCCCACCGCCGCCATGCTGGACCAGGGC
CCCAAGGCTCGCAAGTACTTTGAACGGCTGCCTGGGGGTGGTGGACCCTACGAAGGACG
AAAGAACTCAGGAAGGATTACCAGGGCCCCGGGACACGGCGGCTGCAGGAGGTGCTGGGC
GTGCAGACGGGCGGGCCCGGGGGCCGGCGGGGGAGCCGGGCCACAGCCCCGCGGAC
TACCTCCGCTTCCAGACCTGGTCTGCGCATGCTGGAGTATGAGCCCCGCGCCCGCATC
AGCCCCCTGGGGCTCTGCAGCACGGCTTCTTCCGCCGCACGGCCGACGAGGCCACCAAC
ACGGGCCCGGCAGGCAGCAGTGCCTCCACCTCGCCCGCGCCCCTCGACACCTGCCCTCT
TCCAGCACCGCCAGTCCATCTCCAGTTCTGGAGGCTCCAGTGGCTCCTCCAGTGACAAC
CGGACCTACCGCTACAGCAACCGATATTGTGGGGCCCTGGGCCCCCTATCACAGACTGT
GAGATGAACAGCCCCAGGTCCCACCTCCCAGCCGCTGCGGCCCTGGGCAGGGGGTGAT
GTGCCCCACAAGACACATCAAGCCCTGCCTCTGCCTCGTCACTGCCTGGGACCGGGGCC
CAGTTACCCCCCAGCCCGATACCTTGGTCGTCCCCATCACC AACCTCACCACCACC
CCGGAGCTGATGGATGTGAGCCTGGTGGGCGGCCCTGCTGACTGCTCCCCACCTACCCA
GCGCCTGCCCCCAGCACCCGGCTGCCTCAGCCCTCCGGACTCGGATGACTGGAGGTCGT
CCACCCCTCCCGCTCCTGATGACCCTGCCACTCTGGGGCTCACCTGGGCCTCCGTGGT
GTACCCAGAGCACAGCAGCCAGCTCGTGA
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Clone variation with respect to NM\_004714.1  
419 a=>t

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for mutant NM_004714 unedited GCGCCCGTTTGTAGCAATTGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTG AACCGTCAGAATTTTGTAAACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGCCAGGGCGTGGG GGGGCCGGTTTGTGTGGTCGCCATTTTCTGTTGCTTACTGGGTAATCGGGGCCCTGGCTTGCCGCG TCCGCCGATACCTCAGCCAGTGGCAGGTCTGAGCTCGGGCTCCCCGAGCAGTTTGTAGTCCCCTTGC CGTCCCTCAGGTCTCAGCGCGGTGGCAGCCGAGGTGCAGGGATGCAAGAAGCGCCCCCGGGCCGGC TCCCGCTCAGGCTCGCTCCCCTGCGGCCCTCTGAGCCCAACCCATTGCCCGTCCCCACCCGGCAAT TGTTCCCTTTCTGCTCCCGAGGCCAGGAACCCCGGATTTTGCCTGATGTGCGGCTACGG CCTCGAAGGCTGCCCTGCCCTTCGGGTTCCAACCTCGCCCCGTTCCGTAGCCTTCTGGGGACCTTAT CGACCTTACGCCACATCTGAGAGTGTACTCTGCGCAAAAAAACCCGGGCCCGCGGGCCCCACCCCG ATTTTCGCCCCACGGGAGGGAGAGAGGGCCGGAATGGGTTTTATGAGGACAACACGAGATATCTTGC CAGTGCACCCGCTTCTGAACCTAAAAATTGCTCTCTTGTGAAAGGCTTTTTCGCGAGGTGGAAGACT CTATATTCTACCAGAGCTGTGGCTCTGATGTTATAACACAGCGTCTCATAACGCCATAATCGCCGCT GCTGGCGCTGACTGCACGCAGTGAAGACTTCTGTAGCTTAACAGCGCTATGTGGACACCTGCCGCG ATTGATAGCGTCGCACATGTGAGACTCGGCGAACCACTTC
<b>Kinase Domain Sequence:</b>	>SC323632 kinase domain raw sequence. By performing <a href="#">BLASTX</a> analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation AGGCGRCGCTGGCTGGRCGCTACGAAATTGACTCGCTCATTGGCAAAGGCTCCTTTGGCCAGGTGGTGAA AGCCTATGATCATCAGACCCAGGAGCTTGTGGCCATCATGATCATCAAGAACAAAAAGGCTTTTCTGAAC CAGGCCAGATTGAGCTGCGGCTGCTGGAGCTGATGAACCAGCATGACACGGAGATGAAGTACTATATAG TACACCTGAAGCGCACTTCATGTTCCGGAACCACTGTGCCTGG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_004714
<b>Insert Size:</b>	2487 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_004714.1</a> , <a href="#">NP_004705.1</a>

RefSeq Size: 2540 bp

RefSeq ORF: 1890 bp

Locus ID: 9149

UniProt ID: [Q9Y463](#)

Cytogenetics: 19q13.2

Protein Families: Druggable Genome, Protein Kinase, Transcription Factors

**Gene Summary:** This gene encodes a member of a family of nuclear-localized protein kinases. The encoded protein participates in the regulation of the cell cycle. Expression of this gene may be altered in tumor cells, and mutations in this gene were found to cause abdominal obesity-metabolic syndrome 3. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2014]

Transcript Variant: This variant (1, also known as 'a') represents the longest transcript and encodes the longest isoform (p69, also known as isoform a).