

Product datasheet for SC109928

DYRK2 (NM_003583) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYRK2 (NM_003583) Human Untagged Clone
Tag:	Tag Free
Symbol:	DYRK2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_003583 edited

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ATGAATGATCACCTGCATGTCGGCAGCCACGCTCACGGACAGATCCAGGTTCAACAGTTG
TTTGAGGATAACAGTAACAAGCGGACAGTGCTCACGACACAACCAATGGGCTTACAACA
GTGGGCAAAACGGGCTTGCCAGTGGTGCCAGAGCGGCAGCTGGACAGCATTTCATAGACGG
CAGGGGAGCTCCACCTCTCTAAAGTCCATGGAAGGCATGGGGAAGGTGAAAGCCACCCCC
ATGACACCTGAACAAGCAATGAAGCAATACATGCAAAAACCTCACAGCCTTCGAACACCAT
GAGATTTTCAGCTACCCTGAAATATATTTCTTGGGTCTAAATGCTAAGAAGCGCCAGGGC
ATGACAGGTGGGCCCAACAATGGTGGCTATGATGATGACCAGGGATCATATGTGCAGGTG
CCCCACGATCACGTGGCTTACAGGTATGAGGTCTCAAGGTCATTGGGAAGGGGAGCTTT
GGGCAGTGGTCAAGGCCTACGATCACAAAGTCCACCAGCACGTGGCCCTAAAGATGGTG
CGGAATGAGAAGCGCTTCCACCGCAAGCAGCGGAGGAGATCCGAATCCTGGAACACCTG
CGGAAGCAGGACAAGGATAACACAATGAATGTCATCCATATGCTGGAGAATTTACCTTTC
CGCAACCACATCTGCATGACGTTTGAGCTGCTGAGCATGAACCTCTATGAGCTCATCAAG
AAGAATAAATTCAGGGCTTCAGTCTGCCTTTGGTTTCGCAAGTTTGCCCACTCGATTCTG
CAGTGCTTGGATGCTTTGCACAAAAACAGAATAATTCAGTGTGACCTTAAGCCGAGAAC
ATTTTGTAAAGCAGCAGGGTAGAAGCGGTATTAAGTAATTGATTTGGCTCCAGTTGT
TACGAGCATCAGCGTGTCTACACGTACATCCAGTCGCGTTTTTACCGGGCTCCAGAAGTG
ATCCTTGGGGCCAGGTATGGCATGCCATTGATATGTGGAGCCTGGGCTGCATTTTAGCA
GAGCTCCTGACGGTTACCCCTCTGCCTGGGGAAGATGAAGGGGACCAGCTGGCTGT
ATGATTGAACTGTTGGGCATGCCCTCACAGAACTGCTGGATGCATCCAACGAGCCAAA
AATTTTGTGAGCTCCAAGGGTTATCCCGTTACTGCACTGTCACGACTCTCTCAGATGGC
TCTGTGGTCTAAACGGAGGCCGTTCCCGGAGGGGAACTGAGGGGCCACCGGAGAGC
AGAGAGTGGGGTAACGCGCTGAAGGGGTGTGATGATCCCTTTTCTTGACTTCTTAAAA
CAGTGTTAGAGTGGGATCCTGCAGTGCAGTACACCCAGGCCAGGCTTTGCGGCACCCC
TGGCTGAGGAGCGGTTGCCAAAGCCTCCACCGGGGAGAAAACGTCAGTGAAAAGGATA
ACTGAGAGCACCGGTGCTATCACATCTATATCCAAGTTACCTCCACCTTCTAGCTCAGCT
TCCAAACTGAGGACTAATTTGGCGCAGATGACAGATGCCAATGGGAATATTCAGCAGAGG
ACAGTGTTGCCAAAACCTGTTAGCTGA

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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003583 unedited GTTCACATTTTGTAAATACGACTCACTATTAGGGCGGCCGGAATTCGCACGAGGGCGGGC CGCAGGGGAGGGCGAGGCATGTGCACGGGCCGAGGGTGTGCAGCCGCCGAGGAAGAG GAGGACGGCGGCAGGAGGAGAGCGGGGGCTCGCGGCCGGGGCCCCGGCCGAGGGGAT GCAGTGGACTGTGTGTCTGGCTGTAGCAGACGCGAGGCGGCGACGAGGCGCCGGGGAC CCGCGCGAGGGGCGCCGGGAGGCGGCGGCCGCCAGAAGTAGCAGCAGGACCGG CGGCGGCAGCGCAGCCCTGAAATGCATTTTCTCTCCAGCGGCCATGTTAACCAAGAAA CCTTCGGNCGCCCTCCCGCCGCTACCCGACCGATTGGCGGCAGTAAGCACACAATGAA TGATCACCTGCATGTCGGCAGCCACGCTCACGGACAGATCCAAGTTCAACAGNTGTGTTG AGGATACAGTAACCAGCGGACAGTGCTCACGACACAACCAATGGGGCTACCACAGTGGGG CAAACCGCTTGCCACTGGTGGCAGAACGGCAGCTTGACCGCATTATAGACCGGAAGGG AGCTTCACCTCTATAGTCCATCTGAAGCATTGGGAANGTAAAAGCCCCCCCCCTGAC ACCTGGACCAGCCATGGAGCCATACATGCGCAAACCTCCAGGCTTTTGGACCCATGAG AATTTTAGCTATCTGGAATATATTTTCTTGGGGCTTAATGCTAAAAACGCCCGGCT TACACGGTGGGCCCAACAATTGTGGCTTTGTAGATGAGCCAAGATACTATTTGCCAGGG CCCCCCAACTTGGGTTAACGGTTAAAGGCCTCTAGGGCTTTGGGAAAGGGAGCCTT TGGCAATGTGAAGCGTCTATATCAACAATCCCCACCTTGCC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_003583
Insert Size:	5880 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>
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_003583.2 , NP_003574.1
RefSeq Size:	3466 bp

RefSeq ORF:	1587 bp
Locus ID:	8445
UniProt ID:	Q92630
Cytogenetics:	12q15
Domains:	ptkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>DYRK2 belongs to a family of protein kinases whose members are presumed to be involved in cellular growth and/or development. The family is defined by structural similarity of their kinase domains and their capability to autophosphorylate on tyrosine residues. DYRK2 has demonstrated tyrosine autophosphorylation and catalyzed phosphorylation of histones H3 and H2B in vitro. Two isoforms of DYRK2 have been isolated. The predominant isoform, isoform 1, lacks a 5' terminal insert. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) does not include the 149 bp insert in the 5' end of the transcript and thus results in a shorter amino-terminal protein.</p>