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Product datasheet for SC109929

DYRK2 (NM_006482) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYRK2 (NM_006482) Human Untagged Clone
Tag:	Tag Free
Symbol:	DYRK2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF sequence for NM_006482 edited
ATGTTAACCAGGAAACCTTCGGCCGCCGCTCCCGCCGCCTACCCGACCGGCCGAGGTGGG
GACAGCGCCGTTCGTCAGCTTCAGGCTTCCCCGGGGCTCGGTGCAGGGGCCACCCGGAGC
GGAGTGGGGACTGGCCCGCCCTCCCCCATCGCCCTGCCGCCTCTCCGGGCCAGCAACGCT
GCCGCCGCAGCCCACACGATTGGCGGCAGTAAGCACACAATGAATGATCACCTGCATGTC
GGCAGCCACGCTCACGGACAGATCCAGGTTCAACAGTTGTTTGAGGATAACAGTAACAAG
CGGACAGTGCTCACGACACAACCAAATGGGCTTACAACAGTGGGCAAAACGGGCTTGCCA
GTGGTGCCAGAGCGGCAGCTGGACAGCATTCATAGACGGCAGGGGAGCTCCACCTCTCTA
AAGTCCATGGAAGGCATGGGGAAGGTGAAAGCCACCCCCATGACACCTGAACAAGCAATG
AAGCAATACATGCAAAAACTCACAGCCTTCGAACACCATGAGATTTTCAGCTACCCTGAA
ATATATTTCTTGGGTCTAAATGCTAAGAAGCGCCAGGGCATGACAGGTGGGCCCAACAAT
GGTGGCTATGATGATGACCAGGGATCATATGTGCAGGTGCCCCACGATCACGTGGCTTAC
AGGTATGAGGTCCTCAAGGTCATTGGGAAGGGGAGCTTTGGGCAGGTGGTCAAGGCCTAC
GATCACAAAGTCCACCAGCACGTGGCCCTAAAGATGGTGCGGAATGAGAAGCGCTTCCAC
CGGCAAGCAGCGGAGGAGATCCGAATCCTGGAACACCTGCGGAAGCAGGACAAGGATAAC
ACAATGAATGTCATCCATATGCTGGAGAATTTCACCTTCCGCAACCACATCTGCATGACG
TTTGAGCTGCTGAGCATGAACCTCTATGAGCTCATCAAGAAGAATAAATTCCAGGGCTTC
AGTCTGCCTTTGGTTCGCAAGTTTGCCCACTCGATTCTGCAGTGCTTGGATGCTTTGCAC
AAAAACAGAATAATTCACTGTGACCTTAAGCCCGAGAACATTTTGTTAAAGCAGCAGGGT
AGAAGCGGTATTAAAGTAATTGATTTTGGCTCCAGTTGTTACGAGCATCAGCGTGTCTAC
ACGTACATCCAGTCGCGTTTTTACCGGGCTCCAGAAGTGATCCTTGGGGCCAGGTATGGC
ATGCCCATTGATATGTGGAGCCTGGGCTGCATTTTAGCAGAGCTCCTGACGGGTTACCCC
CTCTTGCCTGGGGAAGATGAAGGGGACCAGCTGGCCTGTATGATTGAACTGTTGGGCATG
CCCTCACAGAAACTGCTGGATGCATCCAAACGAGCCAAAAATTTTGTGAGCTCCAAGGGT
TATCCCCGTTACTGCACTGTCACGACTCTCTCAGATGGCTCTGTGGTCCTAAACGGAGGC
CGTTCCCGGAGGGGGAAACTGAGGGGCCCACCGGAGAGCAGAGAGTGGGGGAACGCGCTG
AAGGGGTGTGATGATCCCCTTTTCCTTGACTTCTTAAAACAGTGTTTAGAGTGGGATCCT
GCAGTGCGCATGACCCCAGGCCAGGCTTTGCGGCACCCCTGGCTGAGGAGGCGGTTGCCA
AAGCCTCCCACCGGGGAGAAAACGTCAGTGAAAAGGATAACTGAGAGCACCGGTGCTATC
ACATCTATATCCAAGTTACCTCCACCTTCTAGCTCAGCTTCCAAACTGAGGACTAATTTG
GCGCAGATGACAGATGCCAATGGGAATATTCAGCAGAGGACAGTGTTGCCAAAACTTGTT
AGCTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006482 unedited
CTTTTGTATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGGAGAGCGGGGGG
CTCGCGGCGGCGGGCCCCGGCCGAGGGGATGCAGTGGACTGTGTGTGTCTGGCTGTAGCA
GACGCGAGGCGGCGACGAGGCGCCGGGGACCCGCGCGAGGGGCGGCCGGGAGGCGGCGGC
GGCGGCCGCCAGAAGTAGCAGCAGGACCGGCGGCGGCGACGGCAGCCCTGAAATGCATTT
TCCTCTCCAGCGGCCATGTTAACCAGGAAACCTTCGGCCGCCGCTCCCGCCGCCTACCCG
ACCGGCCGAGGTGGGGACAGCGCCGTTCGTCAGCTTCAGGCTTCCCCGGGGCTCGGTGCA
GGGGCCACCCGGAGCGGAGTGGGGACTGGCCCGCCCTCCCCCATCGCCCTGCCGCCTCTC
CGGGCCAGCAACGCTGCCGCCGCAGCCCACACGATTGGCGGCAGTAAGCACACAATGAAT
GATCACCTGCATGTCGGCAGCCACGCTCACGGACAGATCCAGGTTCAACAGTTGTTTGAG
GATAACAGTAACAAGCGGACAGTGCTCACGACACAACCAAATGGGCTTACAACAGTGGGC
AAAACGGGCTTGCCAGTGGTGCCAGAGCGGCAGCTGGACAGCATTCATAGACGGCAGGGG
AGCTCCACCTCTCTAAAGTCCATGGAAGGCATGGNNGAAGGTGAAAGCCACCCCCATGAC
ACCTGAACAAGCAATGAAGCAATACATGCANAAACTCACAGCCTTCGAACACCATGAGAT
TTTCAGCTACCCTGAAATATATTTTCTTGGNGTCTAATGCNTAGAAGCGCCAGGGCATGA
CAGGTGGGCCCCAACATGGTGGCTATGATGATGACCAGNGATCATATGTGCANGTGCCCC
ACGATCACGTGGCTTACAGNNNATGANGTCCCTCAGGTCATTGGGAANGGGGAGCTTTGG
NNCAGTGGTCAGGGCCTCGATCACAAGTCACCAGCCGTGGCCTTAGAGN

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_006482 unedited
CCGCTTTTAGAGTCGAGAAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTAAAAAACTTAAAGCATTGCCCTCATGTTTTTTATAAAAACAAAATGAACAACTTTCT
TACCTTAAAATTAAGGGCTGAAAAGATACAAATGAGTAGAGTTATTGAGCAAATAAAAAC
AGGGCTGAGCTACTCCTTTTCAACCCAGTAAGGCTCAACAATGGCGTATCTTTCAGGTTA
CCAGCATCAGGGGACGGGAGCTCAGCTAACAAGTTTTGGCAACACTGGCCTCTGGTGAAT
ATTCCCATTGGCATCTGTCATCTGCGCCAAATTAATCCTCATTTTGGAAGCTGAGCTAAA
AGGGGGAGGGAACTTGGATATAAATGGGATAGCACCGGGGCTCTCAGTTATCCTTTTCAC
TGACGTTTTCTCCCCGGGGGGAGGCTTTGGCAACCGCCTCCTCAGCCAGGGGTGCCGAAA
AGCCTGGCCTGGGGTCATGCCCACTGCAGGATCCCACTCTAAACACTGTTTTAAGAAGTC
AAGGAAAAGGGGATCATCACACCCCTTAAGCGCGTTCCCCCACTCTTTGCTCTCCGGTGG
GCCCCTTATTTTCCCCCTCCAGTAACGGCCTCCGTTTAAGACCACAGAGCCCTCTGAGAG
AGTCGTGACAGTGCAGTAACGGAGATAACCCCTGGGACCTCACAAATATTTTTGGCTCCG
TTAGGATGCCTCCACACAGTTCCTGGGGAGGGCATGCCCCAACATGTTTAATCATACAGG
GCCAGTGTGGTTCCCCTTTCATCCTCCCCCAGGCAGAAGGGGNGTACCCCGTCAAGAAGC
TCGGCTATAAAGCACCCCAAGCCTCCCAATATAAATGGGCCTGCCATTCCCTGGCCCCGA
AGATCACTTTTGGGACCCCGTAAATACGCGAACGGAAGTACCTGTAAACACCCGGAGCTC
GGACAACGGGAGCCAAATACATTCTCTTATACCGTTCTACCTGTTGTCTTAACATTGTCN
CAGGCTTAAGCCCAAG
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Restriction Sites: NotI-NotI

ACCN: NM_006482

Insert Size: 2250 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).

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:
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_006482.1, NP_006473.1

RefSeq Size: 3615 bp

RefSeq ORF: 1806 bp

Locus ID: 8445

UniProt ID: Q92630

Cytogenetics: 12q15

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: 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]
Transcript Variant: This variant (2) includes the 149 bp insert in the 5' end of the transcript and thus results in a longer amino-terminal protein.