

Product datasheet for **SC310235**

DYRK1B (NM_006483) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYRK1B (NM_006483) Human Untagged Clone
Tag:	Tag Free
Symbol:	DYRK1B
Synonyms:	AOMS3; MIRK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC310235 representing NM_006483.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCCGTCCCACGGGCCATGGTCCCTTCTCTGGCTTCCCAGGGCCCCAGGAGCACACGCAGGTATTG
CCTGATGTGCGGCTACTGCCTCGGAGGCTGCCCTGGCTTCCGGGATGCAACCTCAGCCCCGCTGCCT
AAGCTCTCTGTGGACCTCATCAAGACCTACAAGCACATCAATGAGGTATACTATGCGAAGAAGAAGCGG
CGGGCCCAGCAGGCGCCACCCAGGATTCGAGCAACAAGAAGGAGAAGAAGGTCCTGAACCATGGTTAT
GATGACGACAACCATGACTACATCGTGCGCAGTGGCGAGCGCTGGCTGGAGCGCTACGAAATTGACTCG
CTCATTGGCAAAGGCTCCTTTGGCCAGGTGGTAAAGCCTATGATCATCAGACCCAGGAGCTTGTGGCC
ATCAAGATCATCAAGAACA AAAAGGCTTTCTGAACAGGCCAGATTGAGCTGCGGCTGCTGGAGCTG
ATGAACCAGCATGACACGGAGATGAAGTACTATATAGTACACCTGAAGCGGCACTTCATGTTCCGGAAC
CACCTGTGCTGGTATTTGAGCTGCTGTCTACAACCTGTACGACCTCCTGCGCAACACCCACTTCCGC
GGCGTCTCGTGAACCTGACCCGGAAGCTGGCGCAGCAGCTCTGCACGGCACTGCTTTTCTGGCCACG
CCTGAGCTCAGCATCATCTACTGCGACCTCAAGCCCGAAAACATCTTGCTGTGCAACCCCAAGCGCAGC
GCCATCAAGATTGTGGACTTCGGCAGCTCCTGCCAGCTTGGCCAGAGGATCTACCAGTATATCCAGAGC
CGCTTCTACCGCTCACCTGAGGTGCTCCTGGGCACACCCTACGACCTGGCCATTGACATGTGGTCCCTG
GGCTGCATCCTTGTGGAGATGCACACGGAGAGCCCTTTCAGTGGCTCCAATGAGGTCGACCAGATG
AACCGCATTGTGGAGGTGCTGGGCATCCCACGGCCGCCATGCTGGACCAGGCGCCCAAGGCTCGCAAG
TACTTTGAACGGCTGCCTGGGGTGGCTGGACCCTACGAAGGACGAAAGAACTCAGGAAGGACCTGGTG
CTGCGCATGCTGGAGTATGAGCCCGCCCGCCGCATCAGCCCCCTGGGGCTCTGCAGCACGGCTTCTTC
CGCCGACGGCCGACGAGGCCACCAACACGGGCCCGGCAGGCAGCAGTGCCTCCACTCGCCCGCGCCC
CTCGACACCTGCCCTCTTCCAGCACCGCCAGCTCCATCTCCAGTTCGGAGGCTCCAGTGGCTCCTCC
AGTGACAACCGGACCTACCGCTACAGCAACCGATATTGTGGGGCCCTGGGCCCCCTATCACAGACTGT
GAGATGAACAGCCCCAGGTCCCACCCTCCCAGCCGCTGCGGCCCTGGGCAGGGGGTGTGTGCCCCAC
AAGACACATCAAGCCCCTGCCTCTGCCTCGTCACTGCCTGGGACCGGGGCCAGTTACCCCCCAGCCC
CGATACCTTGGTGTCCCCATACCAACCTCACCACCACCCCGGAGCTGATGGATGTGAGCCTGGTG
GGCGGCCCTGCTGACTGCTCCCCACCTACCCAGCGCTGCCCCAGCACCCGGCTGCCTCAGCCCTC
CGGACTCGGATGACTGGAGTGTCCACCCTCCCGCTCCTGATGACCCTGCCACTCTGGGGCCCTAC
CTGGCCCTCCGTGGTGTACCCAGAGCACAGCAGCCAGCTCGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
```

- Restriction Sites:** SgfI-MluI
- Plasmid Map:** □
- ACCN:** NM_006483
- Insert Size:** 1770 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_006483.2](#)

RefSeq Size: 2468 bp

RefSeq ORF: 1770 bp

Locus ID: 9149

UniProt ID: [Q9Y463](#)

Cytogenetics: 19q13.2

Protein Families: Druggable Genome, Protein Kinase, Transcription Factors

MW: 64.9 kDa

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 (2, also known as 'b') uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. The encoded isoform (p65, also known as isoform b) is shorter than isoform p69.