

Product datasheet for **MC228680**

Dyrk1b (NM_001271370) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dyrk1b (NM_001271370) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dyrk1b
Synonyms:	Mirk
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228680 representing NM_001271370
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGGCCGCTCGCCACCGCACTGGGGTCCCCATCGCGCTCCAGCCCCCGTGGGCCAGCGCCATCC
 CTGACCCGGGTCTCAGCGCGGTGGCAGCCGAGGTGCAGGATGCGAGAAGGCGCCCCCGGCCGGGCTCC
 CGCTCCAGGCCTCAGCCCTCGGGCCCTCTGAGCCACCATGGCCGTCCACCAGGCCATGGTCTTTTC
 TCTGGCTTTCCGGGGCCCCAGGAACACACAGGTAACCTGATGTGCGGCTCTGCCCGGAGACTGC
 CCCTGGCCTTCCGGGATGCGGCCCTAGCCCCGTGCGCAAGCTCTCGGTGGACCTCATCAAGACCTACAA
 GCACATCAATGAGGTATACTATGCGAAGAAGAAGCGGGGCCAACAGGCGCCACCCAGGACTCGAGC
 ACCAAAAAGGAGAAGAAGTCTGAACCACGGTTATGATGACGACAACCAGACTACATTGTGCGCAGTG
 GCGAGCGTGGCTAGAGCGCTATGAGATTGACTCTTTATTGGCAAAGGCTCCTTTGGCCAGGTGGTGAA
 AGCCTATGATCACCAGACTCAGGAGCTGGTGGCCATCAAGATCATCAAGAACAAAAGGCCCTTCCTGAAC
 CAGGCACAGATTGAGCTACGGCTGTTGGAGCTGATGAACCAGCATGATACAGAGATGAAGTACTACATAG
 TACACCTTAAGCGGCACTTCATGTTCCGGAATCACCTGTGCTGGTGTGGAGCTGCTGTCTACACCT
 GTACGACCTCCTCCGCAACACACTTTTCGGGGTGTCTCACTGAACCTGACGAGGAAGCTGGCACAGCAG
 CTCTGCACAGCTCTGCTCTTTCTGGCCACCCCGAGCTCAGCATCATCCACTGCGACCTCAAGCCTGAGA
 ACATCTGCTCTGCAACCCCAAGCGCAGTGCCATCAAGATCGTGGACTTCGGCAGTTCTGCCAGCTTGG
 CCAGCGGATCTACCAGTATATCCAGAGCCGCTTCTACCCTCACCCGAGGTGCTCCTGGGTACACCCAT
 GACCTGGCCATTGACATGTGGTCCCTGGGCTGCATCCTCGTGGAGATGCACACCGGAGAGCCCTCTTCA
 GTGGCTTAATGAGGTGGACCAGATGAGCCGATTGTGGAGGTGTGGGCATCCCTCCCGCACCCATGCT
 GGAACAGGCACCCAAGGCTCGAAAGTACTTTGAGCGGCTGCCTGGGGTGGCTGGACCCTACGAAGGACA
 AAGGAACTCAGGAAGGATTACCAGGGCCCTGGGACACGGCGGCTGCAGGAGGTGCTGGGCGTGCAGACGG
 GCGGGCCCGGGGCGCGGGGAGCCCGGCCACAGCCCCGCGACTACCTCCGCTTCCAGGACCT
 GGTGCTGCGCATGCTGGAATATGAGCCCGCCCGCATCAGCCCTCTGGGCGCTCTGCAGCATGGCTTC
 TTCCGCCGACGGCCGACGAGGCCACCAACAGGGCCCGGCGAGGCAGCAGTGCCTCCACCTCGCCGGCGC
 CCCTTGACACCTGCCCTCCTTAGCACCCAGCTCCATCTCCAGCTCTGGAGTTCCAGTGGCTCCTC
 CAACGACAACAGAGCCTACCGATACAGCAACCGATATTGTGGGGCCAGGGCCCCCATCACTGACTGT
 GAGATGAACAGCCCCAGTCTACCCTCCAGCTCTGCGCCCTGGGAGGGGTGATGTGCCCCACA
 AGACACATCAAGCCCTATCTCTGCCTAACATTGCCGGGACTGGGGCTCAGTTACCCCATTCGCCCG
 TTGCCTTGGACGACCCCATCACCAACATCACCACCACCCAGAGTTGATGGATGTGAGCTGGTGGGC
 AGCCCTCCAGACTGCTCTCCACCTCCTCCAGCCTGCCCCAGCACCCGGCTGCCTCAGCCCTCCGGA
 CTCGGATGACAGGAGTGCACCCTCTCCACCCCTGATGACCCTGCCACTCTGGGCGCTCGCTGGG
 TCTCCATGGTGTACCCAGAGCACAGCAGCCAGCTCA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001271370
Insert Size: 2070 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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001271370.1</u> , <u>NP_001258299.1</u>
RefSeq Size:	2477 bp
RefSeq ORF:	2070 bp
Locus ID:	13549
UniProt ID:	<u>Q9Z188</u>
Cytogenetics:	7 A3
Gene Summary:	Dual-specificity kinase which possesses both serine/threonine and tyrosine kinase activity. Enhances the transcriptional activity of TCF1/HNF1A and FOXO1. Inhibits epithelial cell migration. Mediates colon carcinoma cell survival in mitogen-poor environments. Inhibits the SHH and WNT1 pathways, thereby enhancing adipogenesis. In addition, promotes expression of the gluconeogenic enzyme glucose-6-phosphatase (G6PC).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (4), uses an alternate 5' structure, compared to variant 1. This difference causes translation initiation at an upstream AUG and results in an isoform (p75), also known as isoform c, that has a longer N-terminus, compared to isoform p69. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.