

Product datasheet for **MC219899**

Dyrk1b (NM_001037957) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dyrk1b (NM_001037957) 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: >MC219899 representing NM_001037957
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCGTCACCAGGCCATGGTCTTTCTCTGGCTTTCGGGGCCCCAGGAACACACACAGTACTAC
 CTGATGTGCGGCTCCTGCCCGGAGACTGCCCCTGGCCTTCCGGGATGCGGCCTCAGCCCCGCTGCGCAA
 GCTCTCGGTGGACCTCATCAAGACCTACAAGCACATCAATGAGGTATACTATGCGAAGAAGAAGCGCGG
 GCCAACAGGCGCCACCCAGGACTCGAGCACAAAAAGGAGAAGAAGGTCTGAACCACGGTTATGATG
 ACGACAACCAGACTACATTGTGCGCAGTGGCAGCGCTGGTAGAGCGCTATGAGATTGACTCTTTAT
 TGGCAAAGGCTCCTTTGGCCAGGTGGTAAAGCCTATGATCACCAGACTCAGGAGCTGGTGGCCATCAAG
 ATCATCAAGAACAAAAAGCCTTCTGAACCAGGCACAGATTGAGCTACGGCTGTGGAGCTGATGAACC
 AGCATGATACAGAGATGAAGTACTACATAGTACACCTTAAGCGGCACTTCATGTTCCGGAATCACCTGTG
 CCTGGTGTGGAGCTGCTCCTACAACCTGTACGACCTCCTCCGCAACACACACTTTCGGGGTGTCTCA
 CTGAACCTGACGAGGAAGCTGGCACAGCAGCTCTGCACAGCTCTGCTCTTCTGGCCACCCCGAGCTCA
 GCATCATCCACTGCGACCTCAAGCCTGAGAATCCTGCTCTGCAACCCCAAGCGCAGTGCCATCAAGAT
 CGTGGACTTCCGAGTTCCTGCCAGCTTGGCCAGCGGATCTACCAGTATATCCAGAGCCGCTTCTACCGC
 TCACCCGAGGTGCTCCTGGGTACACCCTATGACCTGGCCATTGACATGTGGTCCCTGGGCTGCATCCTCG
 TGGAGATGCACACCGGAGAGCCCTCTTCAGTGGCTCTAATGAGGTGGACCAGATGAGCCGATTGTGGA
 GGTGTTGGGATCCCTCCCGCACCCATGCTGGAACAGGCACCCAAAGGCTCGAAAGTACTTTGAGCGGCTG
 CCTGGGGTGGCTGGACCCTACGAAGGACAAAGGAACTCAGGAAGGATTACCAGGGCCCTGGGACACGGC
 GGCTGCAGGAGGTGCTGGCGTGCAGACGGCGGGCCCGGGGGCCGGCGGGGGGGCCCGCCACAG
 CCCCAGGACTACCTCCGCTTCCAGGACCTGGTGTCTGCGCATGCTGGAATATGAGCCCGCCCGCCGATC
 AGCCCTCTGGGCGCTCTGCAGCATGGCTTCTTCCGCCGACGGCCGACGAGGCCACCAACACGGGCCGG
 CAGGCAGCAGTGCCTCCACCTCGCCGGCGCCCTTGACACCTGCCCTCCTCTAGCACCGCCAGTCCAT
 CTCCAGCTCTGGAGGTTCCAGTGGCTCCTCAACGACAACAGAGCCTACCGATACAGCAACCGATATTGT
 GGGGGCCAGGGCCCCCATCACTGACTGTGAGATGAACAGCCCCAGGTCTACCCTCCAGCCTCTGC
 GCCCTGGGCAGGGGTGATGTGCCCAACAGACACATCAAGCCCTATCTCTGCCTCAACATTGCCGG
 GACTGGGGCTCAGTTACCCCATTGCCCGTTGCCTTGGACGACCCCATCACCACATCACCACACCC
 CCAGAGTTGATGGATGTGAGCCTGGTGGCAGCCCTCCAGACTGCTCTCCACCTCTCCAGCACCTGCC
 CCCAGCACCCGGCTGCCTCAGCCCTCCGACTCGGATGACAGGAGGTGACCCACCTCTCCACCCCTGA
 TGACCCTGCCACTCTGGGCGCTCGCTGGGTCTCCATGGTGTACCCAGAGCACAGCAGCCAGCTCA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001037957

Insert Size: 1890 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_001037957.3](#), [NP_001033046.1](#)

RefSeq Size: 2524 bp

RefSeq ORF: 1890 bp

Locus ID: 13549

UniProt ID: [Q9Z188](#)

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 (1) represents the longest transcript and encodes isoform p69, also known as isoform b. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.