

Product datasheet for **MR216539**

Dyrk1b (NM_010092) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dyrk1b (NM_010092) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dyrk1b
Synonyms:	Mirk
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR216539 representing NM_010092
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGGCCGTCCACCAGGCCATGGTCTTTCTCTGGCTTTCGGGGCCCCAGGAACACACAGGTTACTAC
 CTGATGTGCGGCTCCTGCCCGGAGACTGCCCCCTGGCCTTCCGGGATGCGGCCTCAGCCCCGCTGCGCAA
 GCTCTCGGTGGACCTCATCAAGACCTACAAGCACATCAATGAGGTATACTATGCGAAGAAGAAGCGGCGG
 GCCAACAGGCGCCACCCAGGACTCGAGCACAAAAGGAGAAGAAGGTCTGAACCACGGTTATGATG
 ACGACAACCAGACTACATTGTGCGCAGTGGCAGCGCTGGTAGAGCGCTATGAGATTGACTCTTTAT
 TGGCAAAGGCTCCTTTGGCCAGGTGGTAAAGCCTATGATCACCAGACTCAGGAGCTGGTGGCCATCAAG
 ATCATCAAGAACAAAAGGCCTTCTGAACCAGGCACAGATTGAGCTACGGCTGTGGAGCTGATGAACC
 AGCATGATACAGAGATGAAGTACTACATAGTACACCTTAAGCGGCACTTCATGTTCCGGAATCACCTGTG
 CCTGGTGTGGAGCTGCTCCTACAACCTGTACGACCTCCTCCGCAACACACACTTTCCGGGTGTCTCA
 CTGAACCTGACGAGGAAGCTGGCACAGCAGCTCTGCACAGCTCTGCTCTTTCTGGCCACCCCGAGCTCA
 GCATCATCCACTGCGACCTCAAGCCTGAGAATCCTGCTCTGCAACCCCAAGCGCAGTGCCATCAAGAT
 CGTGGACTTCCGAGTTCCTGCCAGCTTGGCCAGCGGATCTACCAGTATATCCAGAGCCGCTTCTACCGC
 TCACCCGAGGTGCTCCTGGGTACACCCTATGACCTGGCCATTGACATGTGGTCCCTGGGCTGCATCCTCG
 TGGAGATGCACACCGGAGAGCCCTCTTTCAGTGGCTCTAATGAGGTGGACCAGATGAGCCGATTGTGGA
 GGTGTTGGGATCCCTCCCGACCCATGCTGGAACAGGCACCCAAAGGCTCGAAAGTACTTTGAGCGGCTG
 CCTGGGGTGGCTGGACCCTACGAAGGACAAAGGAACCTCAGGAAGGACCTGGTGTGCGCATGCTGGAAT
 ATGAGCCCGCCGCGCCGATCAGCCCTCTGGGCGCTCTGCAGCATGGCTTCTCCGCGCAGCCGCGGACGA
 GGCCACCAACACGGGCCCGGAGCAGCAGTGCCTCCACCTCGCCGGCGCCCTTGACACCTGCCCTCC
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 GATACAGCAACCGATATTGTGGGGGCCAGGGCCCCCATCACTGACTGTGAGATGAACAGCCCCCAGGT
 CCTACCCTCCCAGCCTCTGCGCCCTGGGAGGGGGTGTGTGCCCCACAAGACACATCAAGCCCTATC
 TCTGCCTCAACATTGCCGGGACTGGGGCTCAGTTACCCCATTTGCCCGTTGCCTTGGACGACCCCAT
 CACCAACATCACCACCACCCAGAGTTGATGGATGTGAGCCTGGTGGGAGCCCTCCAGACTGCTCTCC
 ACCTCCTCAGCAGCTGCCCCAGCAGCCGGCTGCCTCAGCCCTCCGGACTCGGATGACAGGAGGTGGA
 CCACCTCTCCACCCCTGATGACCCTGCCACTCTGGGGCTCGCTGGGTCTCCATGGTGTACCCAGA
 GCACAGCAGCCAGCTCA

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216539 representing NM_010092
 Red=Cloning site Green=Tags(s)

MAVPPGHGPFSGFPGPQEHTQVLPDVRLLPRLLPLAFRDAASAPLRKLSVDLIKTYKHINEVYAKKKRR
 AQQAPPQDSSTKKEKVLNHGYDDNDHYIVRSGERWLERYEIDSLIGKSFQVVKAYDHQTQELVAIK
 IIKNKAFLNQAQIELRLELMNQHDTEMKYYIVHLKRHFMRNHLCLVFELLSYNLYDLLRNTHFRGVS
 LNLTRKLAQQLCTALLFLATPELSIIHCDLKPENILLCNPKRSAIKIVDFGSSCQLGQRIYQYIQSRFYR
 SPEVLLGTPYDLAIDMWSLGCILVEMHTGEPLFSGSNEVDQMSRIVEVLGIPPAPMLEQAPKARKYFERL
 PGGGWTLRRTKELRKDLVLRMLEYEPAAARISPLGALQHGFRRRTADEATNTGPAGSSASTSPAPLDTCP
 SSTASSISSGGSSGSSNDNRAYRYSNRYCGGPPPIITDCMNSPQVLPSPQLRPWAGGDVPHKTHQAPI
 SASTLPGTGAQLPPLPRCLGRPPSPTSPPPPELMDVSLVGSPPDCSPPPPAPAPQHPAASALRTRMTGGR
 PPLPPPDDPATLGPRLGLHGVPQSTAASS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

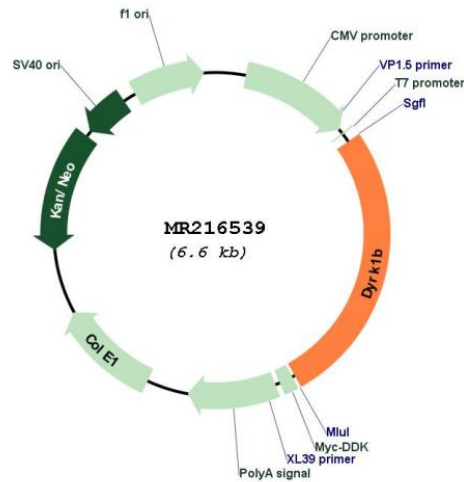
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010092

ORF Size: 1767 bp

OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_010092.2 , NP_034222.1
RefSeq Size:	2018 bp
RefSeq ORF:	1770 bp
Locus ID:	13549
UniProt ID:	Q9Z188
Cytogenetics:	7 A3
MW:	65.4 kDa
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]