

Product datasheet for **RR204160**

Dyrk1b (NM_001107496) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dyrk1b (NM_001107496) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dyrk1b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR204160 representing NM_001107496
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGTCACCAGGCCATGGTCCCTTCTCTGGCTTTCGGGGCCCCAGGAACACACAGGTATTGC
 CTGATGTGCGGCTACTGCCACGGAGACTGCCCTGGCCTTCCGGGATGCGACCTCGGCCCGCTGCGCAA
 GCTCTCAGTGGACCTCATCAAGACCTACAAGCACATCAATGAGGTATACTATGCGAAGAAGAAGCGGCGG
 GCCAACAGGCGCCACCCAGGACTCGAGCACAAAAGGAGAAGAAGGTCTGAATCACGGCTATGACG
 ATGACAACCAGACTACATTGTGCGCAGCGGAGCGCTGGTAGAGCGCTATGAAATTGACTCTTTAT
 TGGCAAAGGCTCTTTGGCCAGGTGGTAAAGCCTATGATCACCAGACTCAGGAGCTGGTGGCCATCAAG
 ATCATCAAGAACAAAAGGCCTTCTGAACCAGGCACAGATTGAGCTGAGGCTGCTGGAGCTGATGAATC
 AGCATGATACAGAGATGAAGTACTACATAGTACACCTGAAGCGGCACTTCATGTTCCGGAATCACCTGTG
 CCTGGTGTGAGCTGCTCCTACAACCTGTACGACCTCCTCCGCAACACACACTTTCGGGGTGTCTCA
 CTGAACCTGACGAGGAAGCTGGCACAGCAGCTCTGCACAGCCCTGCTCTTCTGGCCACGCTGAGCTCA
 GCATCATCCACTGCGACCTCAAGCCTGAGAATCCTGCTCTGCAATCCTAAGCGCAGCGCCATCAAGAT
 TGTGGACTTCGGCAGCTCCTGCCAGCTTGGCCAGCGGATCTACCAGTATATCCAGAGCCGCTTCTACCGC
 TCACCAGAGGTGCTCCTGGGTACACCCTATGACCTGGCCATCGACATGTGGTCCCTGGGCTGCATCCTTG
 TGGAGATGCACACCGGAGAACCCTCTTCAGTGGCTCTAATGAGGTGGACCAGATGAGCCGGATTGTGGA
 GGTGTTGGGATCCCTCCCGCACCTATGCTGGAACAGGCACCCAAAGCTCGAAGTACTTTGAGCGGCTG
 CCTGGGGTGGCTGGACCCTACGAAGGACAAAGAACTCAGGAAGGACCTGGTGTGCGCATGCTGGAGT
 ATGAGCCCGCCGCGCCGATCAGCCCTCTGGGCGCTCTGCAGCATGGCTTCTTCGCGCCGACGCGCCGCA
 GGCCACCAACACGGGCCCGGAGGAGCAGTGCCTCCACCTCGCCGGCGCCCTTGATACCTGCCCTCC
 TTAGCACCGCCAGCTCCATCTCCAGCTCTGGAGGCTCCAGTGGCTCCTCCAGTGACAACAGGGCTACC
 GCTACAGCAACCGATATTGTGGGGGCCAGGGCCCCCATCACTGACTGTGAGATGAACAGCCCCCAGGT
 CCTACCTCCCAGCCTCTGCGCCCTGGGAGGGGGTGTGTGCCCCACAAGACACATCAAGCCCCATACC
 TCTGGCTCAACATTGCTGGGACTGGGGCCAGTTACCCCAACACCCGTTGCCTTGGACGACCCCCAT
 CACCCACCTCACACCCCCCAGAGCTGATGGATGTGAGCCTGGTGGGAGCCCTCCAGACTGCTCTCC
 ACCTCATCCAGCCTGCTCCCCAGCACCCTGGCTGCTCAGCCCTCCGGACTCGGATGACGGGAGGTGGA
 CCACCTCTCCCGCCCCGATGACCCTGCCACTCTGGGGCTCGTCTGGGCTCCATGGTGTACCCAGA
 GCACAGCAGCCAGCTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RR204160 representing NM_001107496
 Red=Cloning site Green=Tags(s)

MAVPPGHGPFSGFPGQEHTQVLPDVRLLPRRLPLAFRDATSAPLRKLSVDLIKTYKHINEVYAKKKRR
 AQQAPPQDSSTKKEKVLNHYDDNDYIVRSGERWLEREIDSLIGKGSFGQVVKAYDHQTQELVAIK
 IIKNKKAFLNQAQIELRLELMNQHDTEMKYYIVHLKRHFMRNHLCLVFELLSYNLYDLLRNTHFRGVS
 LNLTRKLAQQLCTALLFLATPELSIIHCDLKPENILLCNPKRSAIKIVDFGSSCQLGQRIYQYIQSRFYR
 SPEVLLGTPYDLAIDMWSLGCILVEMHTGEPLFSGSNEVDQMSRIVEVLGPPAPMLEQAPKARKYFERL
 PGGWTLRRTKELRKDLVLRMLEYEPAAARISPLGALQHGFRRRTADEATNTGPAGSSASTSPAPLDTCP
 SSTASSISSGSSGSSSDNRAYRYSNRYCGGPPITDCEMNSPQVLPSPQLRPWAGGDVPHKTHQAPT
 SGTLLGTGAQLPPQPRCLGRPPSPTSPPPPELMDVSLVGSPPDCSPPHPAPAPQHPAASALRTRMTGGR
 PPLPPDDPATLGPRLGLHGVQSTAASS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

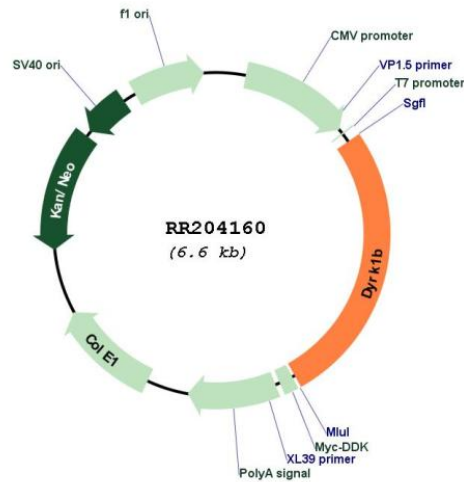
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM_001107496

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_001107496.1 , NP_001100966.1
RefSeq Size:	2387 bp
RefSeq ORF:	1770 bp
Locus ID:	308468
Cytogenetics:	1q21
MW:	65 kDa