

Product datasheet for **MC221423**

Dyrk1a (NM_001113389) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dyrk1a (NM_001113389) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dyrk1a
Synonyms:	2310043O08Rik; D16Ertd272e; D16Ertd493e; Dyrk; ENSMUSG00000074897; Gm10783; mmb; Mnbh; Mp86
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >MC221423 representing NM_001113389
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATACAGGAGAGACTTCAGCATGCAAACCTTCATCTGTCCGGCTTGCACCGTCGTCTCATTCC
 ATGCTGCTGGCCTTCAGATGGCTGCACAGATGCCCACTCACACCAGTACAGTGACCGTCGCCAGCCGAG
 CATAAGTGACCAGCAGGTGTCTGCCTTACCATATTCTGACCAGATTTCAGCAACCTCTAACTAACCAGGTG
 ATGCCTGACATTGTCATGTTACAGAGGCGGATGCCCAAACCTTCGGTATCCAGCAACTGCTCCTCTGA
 GAAAACCTCTGTGGACTTGATCAAACATACAAGCATATTAATGAGGTTTACTATGCAAAAAAGAAGCG
 AAGACACCAACAGGGCCAGGGGACGATTCCAGTCATAAGAAGGAGCGGAAGTTTACAATGATGGTTAC
 GATGATGATAACTATGATTATATTGTA AAAAACGGGAAAAGTGGATGGATCGGTATGAAATCGACTCCT
 TAATAGGCAAAGGTTCAATTTGGACAGTTGTGAAAGCTTATGACAGAGTGGAGCAAGAATGGGTCGCCAT
 TAAAATCATCAAGAACAAGAAAGCGTTTCTGAATCAAGCCAGATAGAAGTGC GGCTGCTTGAGCTCATG
 AACAAACACGACTGAAATGAAGTACTACATAGTGCATTTGAAACGCCACTTTATGTTTCGAAACCATC
 TCTGTTTAGTGTTTAAAATGCTGTCCTATAATCTCTATGATTTGTTGAGAAACACCAACTCCGAGGGGT
 CTCTTTGAACCTAACACGAAAGTTTGCACAACAGATGTGCACAGCATTGCTTTTTCTTGCGACTCCAGAA
 CTTAGTATCATTCACTGTGACTTAAAGCCTGAGAACATCCTTCTGTGTAACCCAAACGGAGTGCAATCA
 AGATTGTTGATTTTGGCAGCTCTGTGAGTTGGGCGAGAGGATATACCAGTATATTCAGAGTCGCTTTTA
 TCGGTCTCCAGAGGTGCTACTGGGAATGCCTTATGACCTTGCTATCGACATGTGGTCCCTTGATGATC
 TTGTTTAAAATGCACACTGGAGAGCCTCTGTTTCAGTGGTGCCAATGAGGTCGATCAGATGAATAAAATAG
 TGAAGTCTTGGCATCCACCTGCTCATATTCTTGACCAAGCACCAGAAAGCAAGAAAGTTCTTTGAGAA
 GTTGCCCGATGGCACTTGGAGCTTAAAGAAGACCAAAAGATGGA AAAACGGGAGTACAAAACCCAGGAACC
 CGTAAACTTCATAATATTCTTGAGTAGAAACAGGAGGACCTGGCGGGCGCGTGTGGGAATCGGGTC
 ATACTGTAGTGACTACTGAAGTTCAAAGACCTCATTTTAAGGATGCTTGATTATGACCCAAAACCTCG
 GATTCAACCTTATTATGCCCTGCAGCACAGTTTTTTCAAGAAAACAGCTGATGAAGGTACCAACACAAGT
 AACAGTGTGTCTACCAGCCCTGCGATGGAGCAGTCTCAGTCTTCAGGCACCACCTCCAGCACCTCCTCCA
 GCTCAGGTGGATCCTCGGAACGAGTAACAGTGGGAGAGCCAGGTCGGATCCGACGCACCAGCATCGACA
 CAGCGGTGGACACTTCGCTGCTGTCCAGGCCATGGACTGTGAGACACACAGTCCCAGGTGCGCCAG
 CAGTTTCCGGCTCCTCTGGGATGGTCAGGCACTGAAGCTCTACACAAGTCACTGTTGAAACTCATCCTG
 TTCAAGAGACAACCTTTTATGTAGCCCCCAGCAGAACGATTGCATCATCACCATGGA AACAGTCCCA
 TCACCACCACCACCACCATCACCACCACCACCACCATGGACAGCAAGCCTTGGGTAAACGGACCAGGCCA
 AGGGTCTACAATTCTCCAACAAATAGCTCCTCTACCCAGGATTCTATGGAGGTTGGCCACAGTCAACCACT
 CCATGACATCCCTGTCTTCTCAACAACCTTCTTCTCGACATCTTCTCCTCTACTGGTAATCAAGGCAA
 TCAGGCCTATCAGAACGCCAGTGGCTGCTAACACCTTGGACTTTGGACAGAATGGAGCTATGGACGTT
 AATTTGACCGTCTACTCCAATCCCCGCCAAGAGACTGGCATAGCTGGACATCCAACATACCAATTTTCTG
 CTAATACAGGTCCTGCACATTACATGACTGAAGGACATCTGGCGATGAGACAAGGGGCTGATAGAGAAGA
 GTCTCCCATGACAGGAGTTTGTGTGCAACAGAGTCTGTAGCTAGCTCG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001113389

Insert Size: 2292 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:	<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_001113389.1, NP_001106860.1</u>
RefSeq Size:	5776 bp
RefSeq ORF:	2292 bp
Locus ID:	13548
UniProt ID:	<u>Q61214</u>
Cytogenetics:	16 55.3 cM
Gene Summary:	<p>Dual-specificity kinase which possesses both serine/threonine and tyrosine kinase activities. May play a role in a signaling pathway regulating nuclear functions of cell proliferation. Modulates alternative splicing by phosphorylating the splice factor SRSF6 (By similarity). Exhibits a substrate preference for proline at position P+1 and arginine at position P-3. Has pro-survival function and negatively regulates the apoptotic process. Promotes cell survival upon genotoxic stress through phosphorylation of SIRT1. This in turn inhibits TP53 activity and apoptosis (PubMed:20167603).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate 5' non-coding exon, therefore, has a different 5' UTR compared to transcript variant 1. Transcript variants 1 and 2 encode the same protein.</p>