

Product datasheet for **MC221422**

Dyrk1a (NM_007890) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Dyrk1a (NM_007890) 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) |



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Fully Sequenced ORF: >MC221422 representing NM_007890
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCATACAGGAGAGAGACTTCAGCATGCAAACCTTCATCTGTCCGGCTTGACCCGTCGTCTCATTCC
 ATGCTGCTGGCCTTCAGATGGCTGCACAGATGCCCACTCACACCAGTACAGTGACCGTCGCCAGCCGAG
 CATAAGTGACCAGCAGGTGTCTGCCTTACCATATTCTGACCAGATTTCAGCAACCTCTAACTAACCAGGTG
 ATGCCTGACATTGTCATGTTACAGAGGCGGATGCCCAAACCTTCGGTATCCAGCAACTGCTCCTCTGA
 GAAAACCTCTGTGGACTTGATCAAACATACAAGCATATTAATGAGGTTTACTATGCAAAAAAGAAGCG
 AAGACACCAACAGGGCCAGGGGACGATTCCAGTCATAAGAAGGAGCGGAAGGTTTACAATGATGGTTAC
 GATGATGATAACTATGATTATATTGTA AAAAACGGGAAAAGTGGATGGATCGGTATGAAATCGACTCCT
 TAATAGGCAAAGGTTCAATTTGGACAGTTGTGAAAGCTTATGACAGAGTGGAGCAAGAATGGGTCGCCAT
 TAAAATCATCAAGAACAAGAAAGCGTTTCTGAATCAAGCCAGATAGAAGTGC GGCTGCTTGAGCTCATG
 AACAAACACGACTGAAATGAAGTACTACATAGTGCATTTGAAACGCCACTTTATGTTTCGAAACCATC
 TCTGTTTAGTGTTTGAATGCTGTCCTATAATCTCTATGATTTGTTGAGAAACACCAACTCCGAGGGGT
 CTCTTTGAACCTAACACGAAAGTTTGCACAACAGATGTGCACAGCATTGCTTTTTCTTGCGACTCCAGAA
 CTTAGTATCATTCACTGTGACTTAAAGCCTGAGAACATCCTTCTGTGTAACCCCAAACGGAGTGCAATCA
 AGATTGTTGATTTTGGCAGCTCTGTGAGTTGGGGCAGAGGATATACCAGTATATTCAGAGTCGCTTTTA
 TCGGTCTCCAGAGGTGCTACTGGGAATGCCTTATGACCTTGCTATCGACATGTGGTCCCTTGGATGATC
 TTGTTTGAATGCACACTGGAGAGCCTCTGTTTCAGTGGTCCAAATGAGGTCGATCAGATGAATAAAATAG
 TGAAGTCTTGGGCATCCACCTGCTCATATTCTTGACCAAGCACCGAAAGCAAGAAAGTTCTTTGAGAA
 GTTGCCCGATGGCACTTGGAGCTTAAAGAAGACCAAAGATGGA AAAACGGGAGTACAAACCCAGGAACC
 CGTAAACTTCATAATATTCTTGGAGTAGAAACAGGAGGACCTGGCGGGCGCGTGTGGGAATCGGGTC
 ATACTGTAGTGACTACTTGAAGTTCAAAGACCTCATTTTAAGGATGCTTGATTATGACCCAAAACCTCG
 GATTCAACCTTATTATGCCCTGCAGCACAGTTTTTTCAAGAAAACAGCTGATGAAGGTACCAACACAAGT
 AACAGTGTGTCTACCAGCCCTGCGATGGAGCAGTCTCAGTCTTCAGGCACCACCTCCAGCACCTCCTCCA
 GCTCAGGTGGATCCTCGGAACGAGTAACAGTGGGAGAGCCAGGTCGGATCCGACGCACCAGCATCGACA
 CAGCGGTGGACACTTCGCTGCTGCTGTCCAGGCCATGGACTGTGAGACACACAGTCCCAGGTGCGCCAG
 CAGTTTCCGGCTCCTCTGGGATGGTCAGGCACTGAAGCTCTACACAAGTCACTGTTGAAACTCATCCTG
 TTCAAGAGACAACCTTTTATGTAGCCCCCAGCAGAACGCATTGCATCATCACCATGGA AACAGTCCCA
 TCACCACCACCACCACCATCACCACCACCACCACCATGGACAGCAAGCCTTGGGTAAACCGGACCAGGCCA
 AGGGTCTACAATTCTCCAACAAATAGCTCCTCTACCCAGGATTCTATGGAGGTTGGCCACAGTCAACCACT
 CCATGACATCCCTGTCTTCTCAACAACCTTCTTCTCGACATCTTCTCCTCTACTGGTAATCAAGGCAA
 TCAGGCCTATCAGAACCGCCAGTGGCTGCTAACACCTTGGACTTTGGACAGAATGGAGCTATGGACGTT
 AATTTGACCGTCTACTCCAATCCCCGCCAAGAGACTGGCATAGCTGGACATCCAACATACCAATTTTCTG
 CTAATACAGGTCTGCACATTACATGACTGAAGGACATCTGGCGATGAGACAAGGGGCTGATAGAGAAGA
 GTCTCCCATGACAGGAGTTTGTGTGCAACAGAGTCTGTAGCTAGCTCG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_007890
Insert Size: 2292 bp

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| OTI Disclaimer: | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p> |
| 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_007890.2 , NP_031916.1 |
| RefSeq Size: | 6035 bp |
| RefSeq ORF: | 2292 bp |
| Locus ID: | 13548 |
| UniProt ID: | Q61214 |
| 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 (1) represents the longer transcript. Transcript variants 1 and 2 encode the same protein.</p> |