

Product datasheet for **RN214059**

Dyrk1a (NM_012791) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dyrk1a (NM_012791) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Dyrk1a
Synonyms:	Dyrk; PSK47
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN214059 representing NM_012791
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCATACAGGAGAGACTTCAGCATGCAAACCTTCATCTGTCCGGCTCGCACCGTCATTCTCATTCC
 ATGCTGCTGGCCCTCAGATGGCTGCACAGATGCCCATTCACATCAGTACAGTGACCGTCCGACGCCAAA
 CATAAGTGACCAGCAGGTTTCTGCCTTATCATATTCTGACCAGATTTCAGCAACCTCTAACTAACCAGGTG
 ATGCCTGACATTGTCATGTTACAGAGGCGGATGCCCAAACCTTCGGTATCCAGCAACTGCTCCTCTGA
 GAAAACCTCTGTGGACTTGATCAAACATACAAGCATATTAATGAGGTTTACTATGCAAAAAAGAAGCG
 AAGACACCAACAGGGCCAGGGGACGATTCTAGTCATAAGAAGGAGCGGAAGTTTACAACGATGGTTAC
 GATGACGATAACTATGATTACATTGTA AAAAACCGAGAAAAGTGGATGGACCGTTATGAAATCGACTCCT
 TAATAGGCAAAGGTTCAATTTGGACAGTTGTGAAAGCATATGACAGAGTGAACAAGAATGGGTCGCCAT
 TAAAATCATCAAGAACAAGAAGGCGTTTCTGAATCAAGCGCAGATAGAAGTGGCGCTGCTTGAGCTCATG
 AACAAACATGACTGAGATGAAGTACTACATAGTGCATTTGAAACGCCACTTTATGTTTCGGAACCATC
 TCTGTCTAGTGTTTGAATGCTGTCCTATAATCTCTATGATTTGTTGAGGAACACCAACTCCGAGGGGT
 CTCTTTGAACCTGACACGAAAGTTTGCACAACAGATGTGCACAGCATTGCTTTTCCTTGCGACTCCAGAA
 CTTAGTATCATTCACTGTGACTTAAAGCCGGAGAACATCCTTCTGTGTAACCCCAAACGAAGTGAATCA
 AGATTGTTGACTTTGGCAGCTCTGTGAGTTGGGGCAGAGGATATACCAGTATATTCAGAGTCGCTTCTA
 TCGGTCTCCAGAGGTGCTACTGGGAATGCCTTATGACCTTGCTATCGACATGTGGTCCCTTGATGTATC
 TTGGTTGAAATGCACACTGGAGAGCCTCTGTTCCAGTGGTCCAAATGAGGTGGATCAGATGAATAAAATAG
 TGGAACTCTGGGCATCCACCTGCTCATATTCTTGACCAAGCACCGAAAGCAAGAAAGTTCTTTGAGAA
 GTTGCCTGATGGCACTTGGAGCTTAAAGAAGACCAAAGATGGAACCGGGAGTACAACACCAGGAACC
 CGTAAACTTCATAATATTCTTGAGTGGAAACAGGAGGACCTGGCGGGCGCGTGTGGGGAGTCAGGTC
 ACACTGTAGTACTACTGAAGTTCAAAGACCTCATTTTAAGGATGCTTGATTATGACCCAAAACCTCG
 GATTCAACCTTATTATGCCCTGCAGCACAGTTTTTTCAAGAAAACAGCTGATGAAGGTACAACACAAGC
 AACAGTGTGTCCACCAGCCCTGCCATGGAGCAGTCCCAGTCTTCAGGCACCACCTCCAGCACCTCCTCCA
 GCTCAGGTGGATCCTCGGAACGAGCAACAGTGGGAGAGCCAGGTCGGATCCGACGCACCAGCATCGGCA
 CAGTGGCGGGCACTTCGCTGCTGCTGTCCAGGCCATGGACTGTGAGACACATAGTCCCAGGTGCGCCAG
 CAGTTTCCGGCTCCTCTGGGCTGGTCCAGGCACTGAAGCTCTACACAAGTCACTGTTGAAACTCATCCTG
 TTCAAGAAAACAACCTTTTATGTAGCCCTCAGCAGAATGCATTGCATCATCACCATGGAACAGTCCCA
 TCATCACCACCACCACCATCACCACCACCACCATGGACAGCAAGCCTTGGGTAAACCGGACCAGGCCA
 AGGGTCTACAATTCTCCAACAAATAGCTCCTCTACCCAGGATTCTATGGAGGTTGGCCACAGTCAACACT
 CCATGACATCCCTGTCTTCTCAACAACCTTCTCCTCGACATCTTCTCCTCTACTGGTAATCAAGGCAA
 TCAGGCCTATCAGAACCGCCAGTGGCTGCTAACACCTTGGACTTTGGACAGAATGGAGCTATGGACGTT
 AATTTGACCGTCTACTCCAATCCCCGCCAAGAGACTGGCATAGCTGGACATCCAACATACCAATTTCTG
 CTAATACAGGTCTGCACATTACATGACTGAAGGACATCTGACGATGAGGCAAGGGGCTGATAGAGAAGA
 GTCTCCATGACAGGAGTTTGTGTGCAACAGAGTCTGTAGCTAGCTCGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_012791
Insert Size: 2292 bp

OTI Disclaimer: 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.

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](#)

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_012791.2](#), [NP_036923.1](#)

RefSeq Size: 2836 bp

RefSeq ORF: 2292 bp

Locus ID: 25255

UniProt ID: [Q63470](#)

Cytogenetics: 11q11

Gene Summary: catalyzes the phosphorylation of dynamin 1 and regulates dynamin 1 interaction with amphiphysin 1; may regulate assembly of the endocytic apparatus [RGD, Feb 2006]