

Product datasheet for **RG202864**

DYRK2 (NM_006482) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYRK2 (NM_006482) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DYRK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202864 representing NM_006482
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTAACACGAAACCTTCGGCCGCCCTCCCGCCCTACCCGACCGCCGAGGTGGGGACAGCGCCG
 TTCGTCAGCTTCAGGCTTCCCGGGGCTCGGTGCAGGGGCCACCCGAGCGGAGTGGGGACTGGCCCGCC
 CCCCCCATCGCCTGCCGCTCTCCGGGCCAGCAACGCTGCCGCCGAGCCACACGATTGGCGGCAGT
 AAGCACACAATGAATGATCACCTGCATGTCCGACGCCAGCTCACGGACAGATCCAGTTCAACAGTTGT
 TTGAGGATAACAGTAACAAGCGGACAGTCTCACGACACAACCAATGGGCTTACAACAGTGGGCAAAAC
 GGGCTTGCCAGTGGTCCAGAGCGGCAGCTGGACAGCATTATAGACGGCAGGGGAGCTCCACCTCTCTA
 AAGTCCATGGAAGGCATGGGGAAGGTGAAAGCCACCCCATGACACCTGAACAAGCAATGAAGCAATACA
 TGCAAAAACCTCACAGCCTTCGAACACCATGAGATTTTCAGCTACCCTGAAATATATTTCTTGGGTCTAAA
 TGCTAAGAAGCGCCAGGCGATGACAGGTGGGCCCAACAATGGTGGCTATGATGATGACCAGGGATCATAT
 GTGCAGGTGCCACGATCACGTGGCTTACAGGTATGAGGTCTCAAGGTCAATGGGAAGGGGAGCTTTG
 GGCAGGTGGTCAAGGCCTACGATCACAAGTCCACCAGCAGTGGCCCTAAAGATGGTGGCAATGAGAA
 GCGCTTCCACCGCAAGCAGCGGAGGAGATCCGAATCCTGGAACACCTGCGGAAGCAGGACAAGGATAAC
 ACAATGAATGTCATCCATATGCTGGAGAATTTACCTTCCGCAACCACATCTGCATGACGTTTGAGCTGC
 TGAGCATGAACCTCTATGAGCTCATCAAGAAGAATAAATTCAGGGCTTCAGTCTGCCTTTGGTTCCGAA
 GTTTGCCCACTCGATTCTGCAGTCTGGATGCTTTCACAAAAACAGAATAATCACTGTGACCTTAAG
 CCCGAGAACATTTTGTAAAGCAGCAGGGTAGAAGCGGTATTAAGTAATTGATTTTGGCTCCAGTTGTT
 ACGAGCATCAGCGTGTCTACACGTACATCCAGTCGCGTTTTTACGGGCTCCAGAAGTATCCTTTGGGGC
 CAGGTATGGCATGCCATTGATATGTGGAGCCTGGGCTGCATTTTAGCAGAGCTCCTGACGGGTTACCCC
 CTCTTGCCTGGGGAAGATGAAGGGGACCAGCTGGCCTGTATGATTGAACTGTTGGGCATGCCCTCACAGA
 AACTGCTGGATGCATCCAAACGAGCCAAAAATTTGTGAGCTCCAAGGTTATCCCGTTACTGCACTGT
 CACGACTCTCTCAGATGGCTCTGTGGTCTAAACGGAGGCGGTTCCCGGAGGGGGAAACTGAGGGGCCCA
 CCGGAGAGCAGAGAGTGGGGAACGCGCTGAAGGGGTGTGATGATCCCTTTTCTTGACTTCTTAAAC
 AGTGTTAGAGTGGGATCCTGCAGTGGCATGACCCAGGCCAGGCTTTCGGCACCCCTGGCTGAGGAG
 GCGGTTGCCAAAGCTCCACCGGGGAGAAAACGTCAGTAAAAGGATAACTGAGAGACCGGTGCTATC
 ACATCTATATCCAAGTTACCTCCACCTTCTAGCTCAGCTTCCAACTGAGGACTAATTTGGCGCAGATGA
 CAGATGCCAATGGGAATATTCAGCAGAGGACAGTGTGCCAAAACCTGTTAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG202864 representing NM_006482
 Red=Cloning site Green=Tags(s)

MLTRKPSAAAPAAAYPTGRGGDSAVRQLQASPGLGAGATRSVGTGPPSPIALPPLRASNAAAAHTIGGS
 KHTMNDHLHVGSHAHGQIQVQQLFEDNSNKRTVLTTPNGLTTVGKTLGVVPERQLDSIHRRQGSSTSL
 KSMEGMGKVKATPMTPEQAMKQYMQKLTA FEHHEIFSYPEIYFLGLNAKKRQGMGTGPPNNGGYDDQGSY
 VQVPHDHVAYRYEVLKVIKGSFQVVKAYDHKVHQAVALKMRNEKRFHRQAAEEIRILEHLRQDKDN
 TMNVIHMLENFTFRNHICMTFELL SMNL YELIKKNKFQGFSLPLVRKFAHSILQCLDALHKNRIIHC DLK
 PENILLKQQGRSGIKVIDFGSSCYEHQRYVYTIQSRFYRAPEVILGARYGMPIDMWSLGCILAELLTGYP
 LLPGEDEGDQLACMIELLGMPSQKLLDASKRAKNFVSSKGYPRYCTVTTLSDGSVVLNNGRSRRGKLRGP
 PESREWGNALKGCDPLFLDFLKQCLEWDPAVRMTPGQALRHPWLRRLPKPPTGEKTSVKRITESTGAI
 TSISKLPPSSSASKLRNLNAQMTDANGNIQRTVLPKLV S

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_006482

ORF Size: 1803 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:**
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_006482.3](#)

RefSeq Size: 3615 bp

RefSeq ORF: 1806 bp

Locus ID: 8445

UniProt ID: [Q92630](#)

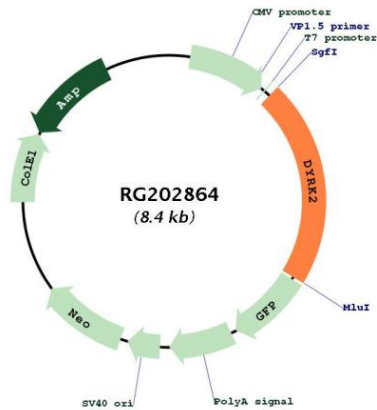
Cytogenetics: 12q15

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: DYRK2 belongs to a family of protein kinases whose members are presumed to be involved in cellular growth and/or development. The family is defined by structural similarity of their kinase domains and their capability to autophosphorylate on tyrosine residues. DYRK2 has demonstrated tyrosine autophosphorylation and catalyzed phosphorylation of histones H3 and H2B in vitro. Two isoforms of DYRK2 have been isolated. The predominant isoform, isoform 1, lacks a 5' terminal insert. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202864