

## Product datasheet for **RC202864**

### **DYRK2 (NM\_006482) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DYRK2 (NM_006482) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DYRK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC202864 representing NM\_006482  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTAACAGGAAACCTTCGGCCGCCCTCCCGCCCTACCCGACCGCCGAGGTGGGGACAGCGCCG  
 TTCGTCAGCTTCAGGCTTCCCCGGGCTCGGTGCAGGGGCCACCCGAGCGGAGTGGGGACTGGCCCGCC  
 CCCCCCATCGCCTGCCGCTCTCCGGGCCAGCAACGCTGCCGCCGAGCCACACGATTGGCGGAGT  
 AAGCACACAATGAATGATCACCTGCATGTCCGACGCCAGCTCACGGACAGATCCAGGTTCAACAGTTGT  
 TTGAGGATAACAGTAACAAGCGGACAGTCTCACGACACAACCAATGGGCTTACAACAGTGGGCAAAAC  
 GGGCTTGCAGTGGTCCAGAGCGGACAGTGGACAGCATTATAGACGGCAGGGGAGCTCCACCTCTCTA  
 AAGTCCATGGAAGGCATGGGGAAGGTGAAAGCCACCCCATGACACCTGAACAAGCAATGAAGCAATACA  
 TGCAAAAACCTCACAGCCTTCGAACACCATGAGATTTTCAGCTACCCTGAAATATATTTCTTGGGTCTAAA  
 TGCTAAGAAGCGCCAGGGCATGACAGGTGGGCCCAACAATGGTGGCTATGATGATGACCAGGGATCATAT  
 GTGCAGGTGCCCCACGATCACGTGGCTTACAGGTATGAGGTCTCAAGGTCAATGGGAAGGGGAGCTTTG  
 GGCAGGTGGTCAAGGCCTACGATCACAAGTCCACCAGCAGTGGCCCTAAAGATGGTGGGAATGAGAA  
 GCGCTTCCACCGCAAGCAGCGGAGGAGATCCGAATCCTGGAACACCTGCGGAAGCAGGACAAGGATAAC  
 ACAATGAATGTCATCCATATGCTGGAGAATTTACCTTCCGCAACCACATCTGCATGACGTTTGAGCTGC  
 TGAGCATGAACCTCTATGAGCTCATCAAGAAGAATAAATTCAGGGCTTCAGTCTGCCTTTGGTTGCGAA  
 GTTTGGCCACTCGATTCTGCAGTCTTGGATGCTTTCACAAAAACAGAATAATCACTGTGACCTTAAG  
 CCCGAGAACATTTTGTAAAGCAGCAGGGTAGAAGCGGTATTAAGTAATTGATTTGGCTCCAGTTGTT  
 ACGAGCATCAGCGTGTCTACAGTACATCCAGTCCGCTTTTACCGGGCTCCAGAAGTGAATCCTTGGGGC  
 CAGGTATGGCATGCCATTGATATGTGGAGCCTGGGCTGCATTTTAGCAGAGCTCCTGACGGTTACCCC  
 CTCTTGCCTGGGGAAGATGAAGGGGACCAGCTGGCCTGTATGATTGAACTGTTGGGCATGCCCTCACAGA  
 AACTGCTGGATGCATCCAAACGAGCCAAAAATTTGTGAGCTCCAAGGTTATCCCCGTTACTGCACTGT  
 CACGACTCTCTCAGATGGCTCTGTGGTCTAAACGGAGGCGGTTCCCGGAGGGGAAACTGAGGGGCCCA  
 CCGGAGAGCAGAGAGTGGGGAACGCGTGAAGGGGTGTGATGATCCCCTTTCTTGACTTCTTAAAC  
 AGTGTTAGAGTGGGATCCTGCAGTCCGATGACCCAGGCCAGGCTTTCGGCACCCCTGGCTGAGGAG  
 GCGGTTGCCAAAGCTCCACCGGGGAGAAAACGTCAGTAAAAGGATAACTGAGAGACCAGGTGCTATC  
 ACATCTATATCCAAGTTACCTCCACCTTCTAGCTCAGCTTCCAAACTGAGGACTAATTTGGCGCAGATGA  
 CAGATGCCAATGGGAATATTCAGCAGAGGACAGTGTGCCAAAACCTGTTAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC202864 representing NM\_006482  
 Red=Cloning site Green=Tags(s)

MLTRKPSAAAPAYPTGRGGDSAVRQLQASPLGAGATRSVGTGPPSPIALPPLRASNAAAAHTIGGS  
 KHTMNDHLHVGSHAHGQIQVQQLFEDNSNKRTVLTTPNGLTTVGKTGLPVVPERQLDSIHRRQGSSTSL  
 KSMEGMGVKATPMTPEQAMKQYMQKLTA FEHHEIFSYPEIYFLGLNAKKRQGMTGGPNNGGYDDDQGSY  
 VQVPHDHVAYRYEVLKVIKGSFGQVVKAYDHKVHGHVALKMRNEKRFHRQAAEEIRILEHLRKQDKDN  
 TMNVIHMLENFTFRNHICMTFELLSMNL YELIKKNKFQGFSLPLVRKFAHSILQCLDALHKNRIIHCDLK  
 PENILLKQGRSGIKVIDFGSSCYEHQRVYTYIQSRFYRAPEVILGARYGMPIDMWSLGCILAELLTGYP  
 LLPGEDEGDQLACMIELLGMPSQKLLDASKRAKNFVSSKGYPRYCTVTTLSDGSVVLNNGRSRRGKLRGP  
 PESREWNALKGCDPLFLDFLKQCLEWDPAVRMTPGQALRHPWLRRLPKPPTGEKTSVKRITESTGAI  
 TSISKLPPSSASKLRNLNAQMTDANGNIQRTVLPKLV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja2536\\_a04.zip](https://cdn.origene.com/chromatograms/ja2536_a04.zip)

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](#)

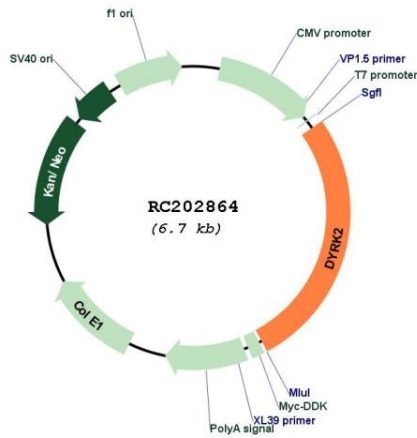
RefSeq Size: 6159 bp

RefSeq ORF: 1806 bp

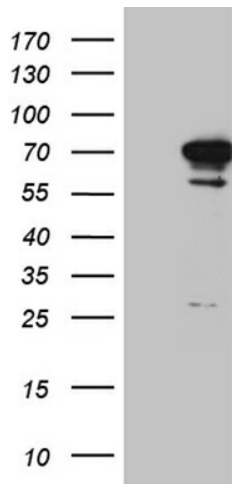
Locus ID: 8445

**UniProt ID:** [Q92630](#)  
**Cytogenetics:** 12q15  
**Domains:** pkinase, TyrKc, S\_TKc  
**Protein Families:** Druggable Genome, Protein Kinase  
**MW:** 67.1 kDa  
**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 RC202864



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DYRK2 (Cat# RC202864, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DYRK2 (Cat# [TA810286])(1:2000).