

Product datasheet for **RG205861**

DYRK1B (NM_004714) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYRK1B (NM_004714) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DYRK1B
Synonyms:	AOMS3; MIRK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205861 representing NM_004714
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCGTCCACCGGGCCATGGTCCCTTCTCTGGCTTCCAGGGCCCCAGGAGCACACGCAGGTATTGC
 CTGATGTGCGGCTACTGCCTCGGAGGCTGCCCCTGGCCTTCCGGGATGCAACCTCAGCCCCGCTGGGTAA
 GCTCTCTGTGGACCTCATCAAGACCTACAAGCACATCAATGAGGTATACTATGCGAAGAAGAAGCGGCGG
 GCCCAGCAGGCGCCACCCAGGATTCGAGCAACAAGAAGGAGAAGAAGGTCTGAACCATGGTTATGATG
 ACGACAACCATGACTACATCGTGCGCAGTGGCAGCGCTGGTGGAGCGCTACGAAATTGACTCGCTCAT
 TGGCAAAGGCTCCTTTGGCCAGGTGGTAAAGCCTATGATCATCAGACCCAGGAGCTTGTGGCCATCAAG
 ATCATCAAGAACAAAAGGCTTTCTGAACCAGGCCAGATTGAGCTGCGGCTGCTGGAGCTGATGAACC
 AGCATGACACGGAGATGAAGTACTATATAGTACACCTGAAGCGGCACTTCATGTTCCGGAACCACCTGTG
 CCTGGTATTTGAGCTGCTGCTACAACCTGTACGACCTCTGCGCAACCCACTTCCGCGGCGTCTCG
 CTGAACCTGACCCGGAAGCTGGCCGAGCAGCTCTGCACGGCACTGCTCTTCTGGCCACGCTGAGCTCA
 GCATATTCACTGCGACCTCAAGCCCGAAAACATCTTGCTGTGCAACCCCAAGCGCAGCGCCATCAAGAT
 TGTGGACTTCCGCGAGCTCCTGCCAGCTTGGCCAGAGGATCTACCAGTATATCCAGAGCCGCTTCTACCGC
 TCACCTGAGGTGCTCCTGGGCACACCCTACGACCTGGCCATTGACATGTGGTCCCTGGGCTGCATCCTTG
 TGGAGATGCACACCGGAGAGCCCTCTTCAGTGGCTCCAATGAGGTGACCCAGATGAACCGCATTGTGGA
 GGTGCTGGGATCCCACCGGCCCATGCTGGACCAGGCGCCCAAGGCTCGAAGTACTTTGAACGGCTG
 CCTGGGGTGGCTGGACCCTACGAAGGACGAAAGAACTCAGGAAGGATTACCAGGGCCCCGGGACACGGC
 GGCTGCAGGAGGTGCTGGGCGTGCAGACGGCGGGCCCGGGGGCCGGCGGGGGGGCCGCGCCGACAG
 CCCCAGGACTACCTCCGCTTCCAGGACCTGGTGTGCTGCGCATGCTGGAGTATGAGCCCGCCGCGCCATC
 AGCCCCCTGGGGCTCTGCAGCACGGCTTCTTCCGCCGACGGCCGACGAGGCCACCAACACGGGCCGG
 CAGGCAGCAGTGCCTCCACCTCGCCCGCCCTCGACACCTGCCCTCTTCCAGCACCGCCAGCTCCAT
 CTCCAGTTCTGGAGGCTCCAGTGGCTCTCCAGTGACAACCGGACCTACCGCTACAGCAACCGATATTGT
 GGGGGCCTGGGCCCCATCACAGACTGTGAGATGAACAGCCCCAGGTCACCCCTCCAGCCGCTGC
 GGCCCTGGGCAGGGGTGATGTGCCCAAGACACATCAAGCCCTGCCTCTGCCTCGTACTGCCTGG
 GACCGGGCCAGTTACCCCCAGCCCCGATACCTTGGTGTCCCCATACCAACCTCACCACCACC
 CCGGAGCTGATGGATGTGAGCCTGGTGGCGGCCCTGCTGACTGCTCCACCTACCCAGCGCCTGCC
 CCCAGCACCCGGCTGCCTCAGCCCTCCGACTCGGATGACTGGAGGTGCTCCACCCTCCCGCTCTGTA
 TGACCCTGCCACTCTGGGGCTCACCTGGGCTCCGTGGTGTACCCAGAGCACAGCAGCCAGCTCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205861 representing NM_004714
 Red=Cloning site Green=Tags(s)

MAVPPGHGPFSGFPGQEHTQVLPDVRLLPRRLPLAFRDATSAPLRKLSVDLIKTYKHINEVYYAKKKRR
 AQQAPPQDSSNKKEKKVLNHGYDDNDHYIVRSGERWLERYEIDSLIGKGSFGVVKAYDHQTQELVAIK
 I IKNKKAFLNQAQIELRLELMNQHDTEMKYYIVHLKRHFMRNHLCLVFELLSYNLYDLLRNTHFRGVS
 LNLTRKLAQQLCTALLFLATPELSIIHCDLKPENILLCNPKRSAIKIVDFGSSCQLGQRIYQYIQSRFYR
 SPEVLLGTPYDLAIDMWSLGCILVEMHTGEPLFSGSNEVDQMNRIEVLGIPPAAMLDAQPKARKYFERL
 PGGGWTLRRTKELRKDYQGPGRRLQEVLGVTGGPGRRAGEPHGSPADYLRFDLVLRLMEYEPAAARI
 SPLGALQHGFRRTADEATNTGPAGSSASTSPAPLDTCPSSSTASSISSGGSSGSSSDNRITYRYSNRYC
 GGPPIPITDCMNSPQVPPSQPLRPWAGGDVPHKTHQAPASASSLPGTGAQLPPQPRYLGRPPSPPTSPPP
 PELMDVSLVGGPADCSPPHPAPAPQHPAASALRTRMTGRRPPLPPDDPATLGPLHLGRVGPQSTAASS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_004714

ORF Size: 1887 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_004714.3](#)

RefSeq Size: 2540 bp

RefSeq ORF: 1890 bp

Locus ID: 9149

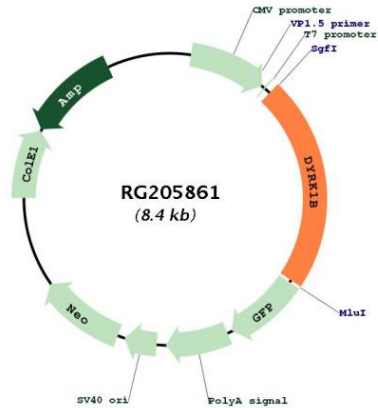
UniProt ID: [Q9Y463](#)

Cytogenetics: 19q13.2

Protein Families: Druggable Genome, Protein Kinase, Transcription Factors

Gene Summary: This gene encodes a member of a family of nuclear-localized protein kinases. The encoded protein participates in the regulation of the cell cycle. Expression of this gene may be altered in tumor cells, and mutations in this gene were found to cause abdominal obesity-metabolic syndrome 3. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2014]

Product images:



Circular map for RG205861