

Product datasheet for **RG206929**

DYRK4 (NM_003845) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYRK4 (NM_003845) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DYRK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG206929 representing NM_003845
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGCCTCAGAGCTCAAGGCTTCAGAAATACCTTTCCACCCTAGCATTAAAACCCAGGATCCCAAGG
 CAGAGGAGAAGTACCAAAGAAGCAAAAGGTGACTCTGACAGCGGCAGAGGCCCTAAAGCTTTTTAAGAA
 CCAGCTGTCTCCATATGAACAAAGTGAATCCTGGGCTACGCGGAGCTGTGGTTCCTGGGCTTGAAGCC
 AAGAAGCTCGACACGGCTCCTGAGAAATTTAGCAAGACGAGTTTTGATGATGAGCATGGCTTCTATCTGA
 AGGTTCTGCATGATCACATTGCCTACCGCTATGAAGTTCTGGAGACAATCGGAAGGGGCTCTTGGACA
 GGTGGCCAAGTGCTTGGATCACAAAAACAATGAGCTGGTGGCCCTGAAAAATCATCAGGAACAAGAAGAGG
 TTTACCAGCAGGCCCTGATGGAGCTGAAGATCCTGGAAGCTCTCAGAAAGAAGGACAAAGACAACACCT
 ACAATGTGGTGCATATGAAGGACTTTTTCTACTTTGCAATCACTTCTGCATCACCTTTGAGCTCCTGGG
 AATCAACTTGTATGAGTTGATGAAGAATAACAACCTTTCAAGGCTTCAGTCTGTCCATAGTTGGCGCTTC
 ACTCTCTCTGTTTTGAAGTGCTTGCAGATGCTTTCCGGTAGAGAAAATCATTCACTGTGATCTCAAGCCCG
 AAAATATAGTGCTATACAAAAGGGCCAAGCCTCTGTTAAAGTCATTGACTTTGGATCAAGCTGTTATGA
 ACACCAGAAAAGTATACACGTACATCCAAAGCCGGTTCTACCGATCCCCAGAAAGTATCCTGGGCCACCCC
 TACGACGTGGCCATTGACATGTGGAGCCTGGGCTGCATCACGGCGGAGTTGTACACGGGCTACCCCTGT
 TCCCCGGGGAGAATGAGGTGGAGCAGCTGGCCTGCATCATGGAGGTGTGGGCTGCCCGCAGCCGGCTT
 CATTGACAGACCTCCAGGAGACAGACATTTCTTATTCCAAAGGTTTTCTAAAAATAAACCAACAAC
 AGGGGAAAAAAGATACCCAGATTTCAAGGACCTCACGATGGTGTGAAAACCTATGACACCAGCTTCC
 TGGACTTTCTCAGAAGGTGTTTGGTATGGGAACCTTCTCTTCGCATGACCCCGGACCCCTCAAGCA
 TGCTTGGATTCATCAGTCTCGGAACCTCAAGCCACAGCCAGGCCCCAGACCCTGAGGAAATCCAATTCC
 TTTTTCCCTCTGAGACAAGGAAGGACAAGGTTCAAGGCTGTCACTCGAGCAGAAAAGCAGATGAGA
 TCACCAAAGAGACTACAGAGAAAACAAAAGATAGCCCCACGAAGCATGTTGAGCATTGAGGTGATCAGCA
 GGACTGTCTCCAGCAGGAGCTGACACTGTTGAGTGCCTCAACTGGTAGACGCTCCCAAGAAGTCAGAG
 GCAGCTGTGGGGCGGAGGTGTCCATGACCTCCCAGGACAGAGCAAAAACCTTCTCCCTCAAGAACACAA
 ACGTTTTACCCCTATTGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG206929 representing NM_003845
 Red=Cloning site Green=Tags(s)

MPASELKASEIPFHPSTIKTQDPKAEKSPKKQKVTLTAAEALKLFKNQLSPYEQSEILGYAELWFLGLEA
 KKLDTAPEKFSKTSFDDEHGFYLVLDHDIAYRYEVLETIGKGSFGQVAKCLDHKNNELVALKIIRNKKR
 FHQQALMELKILEALRKKDKDNTYNVVMKDFYFRNHFCITFELLGINLYELMKNNNFQGFSLSIVRRF
 TLSVLKCLQMLSVEKIIHCDLKPENIVLYQKQASVKVIDFGSSCYEHQKVYTYIQSRFYRSPEVILGHP
 YDVAIDMWSLGCITAELYTGYPFPGENEVEQLACIMEVLGLPPAGFIQTASRRQTFDQSKGFPKNITNN
 RGKKRYPDSKDLTMVLKTYDTSFLDFLRCLVWEPRLRMPDQALKHAWIHQSRNLKQPPRPQTLRKSNS
 FFPSETRKDKVQGCHSSRKADEITKETTEKTKDSPTKHVQHSGRDQDCLQHGADTVQLPQLVDAPKKSE
 AAVGAEVSMTSPGQSKNFSKNTNVLPPIV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_003845

ORF Size: 1560 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_003845.1](#), [NP_003836.1](#)

RefSeq Size: 1860 bp

RefSeq ORF: 1563 bp

Locus ID: 8798

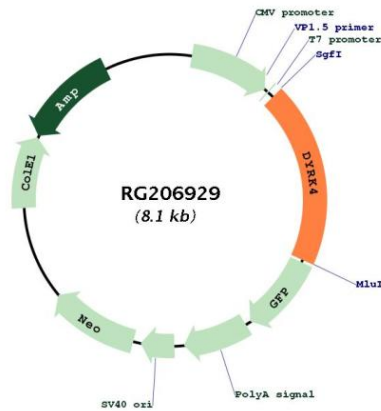
UniProt ID: [Q9NR20](#)

Cytogenetics: 12p13.32

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene encodes an enzyme that belongs to a conserved family of serine/threonine protein kinases. Members of this dual specificity kinase family are thought to function in the regulation of cell differentiation and proliferation, survival, and in development. Alternate splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RG206929