

Product datasheet for **RC206929**

DYRK4 (NM_003845) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	DYRK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC206929 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCGGCCTCAGAGCTCAAGGCTTCAGAAATACCTTTCCACCCTAGCATTAAACCCAGGATCCCAAGG
 CAGAGGAGAAGTCACCAAAGAAGCAAAAGGTGACTCTGACAGCGGCAGAGGCCCTAAAGCTTTTAAAGAA
 CCAGCTGTCTCCATATGAACAAAGTAAATCCTGGGCTACGCGGAGCTGTGGTTCCTGGGTCTTGAAGCC
 AAGAAGCTCGACACGGCTCCTGAGAAATTTAGCAAGACGAGTTTGTATGATGAGCATGGCTTCTATCTGA
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 ACAATGTGGTGCATATGAAGGACTTTTCTACTTTGCAATCACTTCTGCATCACCTTTGAGCTCCTGGG
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 ACTCTCTCTGTTTTGAAGTGCTTGCAGATGCTTTCGGTAGAGAAAAATCATTCACTGTGATCTCAAGCCCC
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 AGGGGGAAAAAAGATACCCAGATTCCAAGGACCTCACGATGGTGTGAAAACCTATGACACCAGCTTCC
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 TGCTTGGATTTCAGTCTCGGAACCTCAAGCCACAGCCAGGCCCCAGACCCTGAGGAAATCCAATTCC
 TTTTCCCCTCTGAGACAAGGAAGGACAAGGTTCAAGGCTGTCACTCGAGCAGAAAAGCAGATGAGA
 TCACCAAGAGACTACAGAGAAAACAAAAGATAGCCCCACGAAGCATGTTCAAGATTGAGGTGATCAGCA
 GGACTGTCTCCAGCAGGAGCTGACACTGTTCACTGCCTCAACTGGTAGACGCTCCCAAGAAGTCAGAG
 GCAGCTGTGCGGGCGGAGGTGTCATGACCTCCCAGGACAGAGCAAAACTTCTCCCTCAAGAACACAA
 ACGTTTTACCCCTATTGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206929 protein sequence
 Red=Cloning site Green=Tags(s)

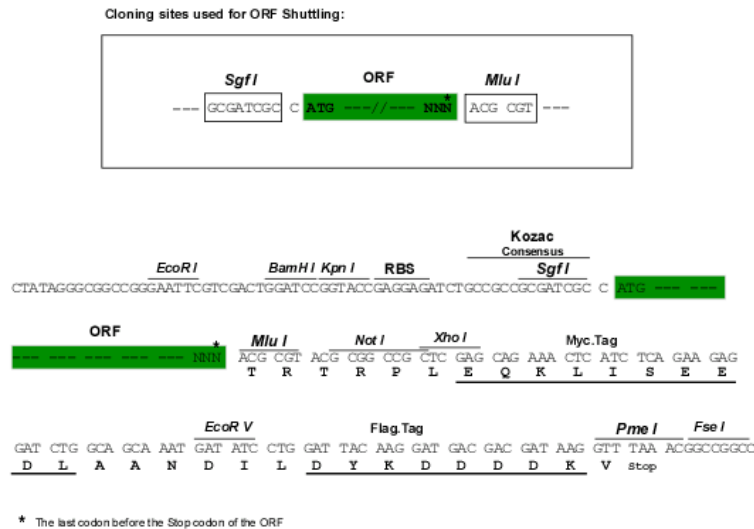
MPASELKASEIPFHPSIKTQDPKAEKSPKKQKVTLTAAEALKLFKNQLSPYEQSEILGYAELWFLGLEA
 KKLDTAPEKFSKTSFDDHEGFYLVKVLHDHIAIYRYEVLETIGKGSFGQVAKCLDHKNNELVALKIIIRNKKR
 FHQQALMELKILEALRKKDKDNTYNVVMKDDFFYFRNHFCITFELLGINLYELMKNNNFQGFSLSIVRRF
 TLSVLKCLQMLSVEKIIHCDLKPENIVLYQKGQASVKVIDFGSSCYEHQKVYTYIQSRFYRSPEVILGHP
 YDVAIDMWSLGCITAELYTGYPFPGENEVEQLACIMEVLGLPPAGFIQTASRRQTFDQSGFKPKNITNN
 RGKKRYPDSKDLTMVLKTYDTSFLDFLRCLVWEPRLRMTDQALKHAWIHQSRNLKPQPRPQTLRKSN
 FFPSETRKDKVQGGCHSSRKADEITKETTEKTKDSPTKHVQHSQDQDCLQHGADTVQLPQLVDAPKKSE
 AAVGAEVSMTPGQSKNFSKNTNVLPPIV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6197_h01.zip

Restriction Sites: SgfI-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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

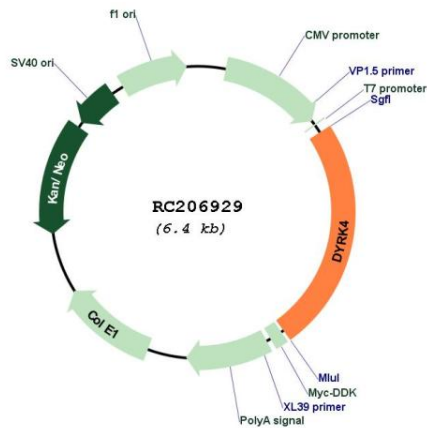
RefSeq: [NM_003845.1](#), [NP_003836.1](#)

RefSeq Size: 1864 bp

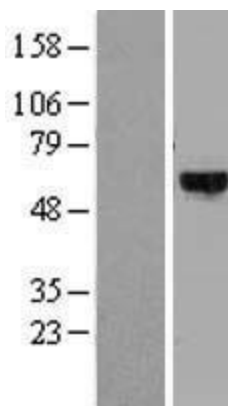
RefSeq ORF:	1563 bp
Locus ID:	8798
UniProt ID:	Q9NR20
Cytogenetics:	12p13.32
Protein Families:	Druggable Genome, Protein Kinase
MW:	59.6 kDa

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 RC206929



Western blot validation of overexpression lysate (Cat# [LY401262]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206929 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).