

## Product datasheet for RC236774

### DYRK4 (NM\_001282286) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DYRK4 (NM\_001282286) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** DYRK4  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236774 representing NM\_001282286  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGAGCCTGGGCTGCATCACGGCGGAGTTGTACACGGGCTACCCCTGTTCCCCGGGGAGAATGAGG  
TGGAGCAGCTGGCTGCATCATGGAGGTGCTGGGTCTGCCGCCAGCCGGCTTCATTCAGACAGCCTCCAG  
GAGACAGACATTCTTTGATTCCAAAGGTTTTCTAAAAATATAACCAACAACAGGGGGAAAAAAGATAC  
CCAGATCCAAGGACCTCACGATGGTGCTGAAAACCTATGACACCAGCTTCTGGACTTTCTCAGAAGGT  
GTTTGGTATGGGAACCTTCTCTCGCATGACCCCGGACCAGGCCCTCAAGCATGCTTGGATTCATCAGTC  
TCGGAACCTCAAGCCACAGCCAGCCAGCCAGCCCTGAGGAAATCCAATTCCTTTTTCCCCTCTGAGACA  
AGGAAGGACAAGGTTCAAGGCTGTCACTACTCGAGCAGAAAAGATGAGATCACCAAGAGACTACAGAGA  
AAACAAAAGATAGCCCCACGAAGCATGTTCAAGTTCAGGTGATCAGCAGGACTGTCTCCAGCACGGAGC  
TGACACTGTTCACTGCCTCACTGGTAGACGCTCCCAAGAAGTCAGAGGCAGCTGTGGGGCGGAGGTG  
TCCATGACCTCCCAGGACAGAGCAAAAACCTTCTCCCTCAAGAACACAAACGTTTTACCCCTATTGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236774 representing NM\_001282286  
**Red=Cloning site Green=Tags(s)**

MWSLGCITAELYTGYPFPGENEVEQLACIMEVLGLPPAGFIQTASRRQTFDQSKGFPKNIINNRRGKKRY  
PDSKDLTMVLKTYDTSFLDFLRCLVWEPRLRMTDPDQALKHAWIHQSRNLKQPRPQTLRKSNSFFPSET  
RKDKVQGGCHSSRKDEITKETTEKTKDSPTKHVQHSQDQDCLQHGDVTVQLPQLVDAPKKSEAAVGAEV  
SMTSPGQSKNFSLKNTNVLPIV

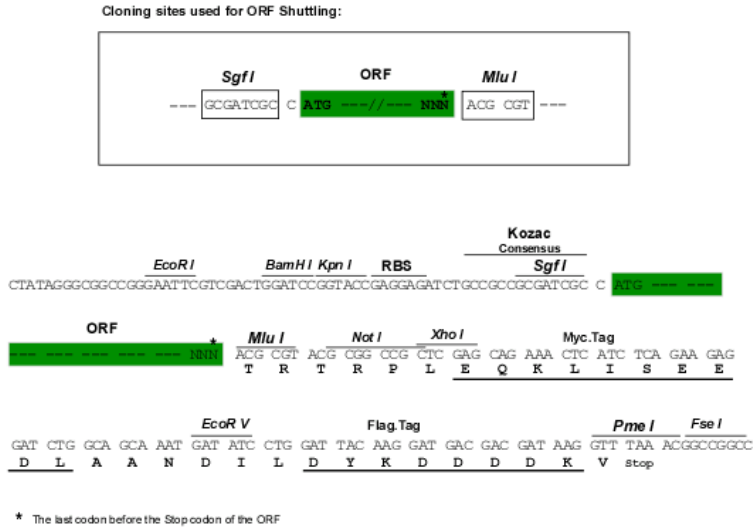
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV



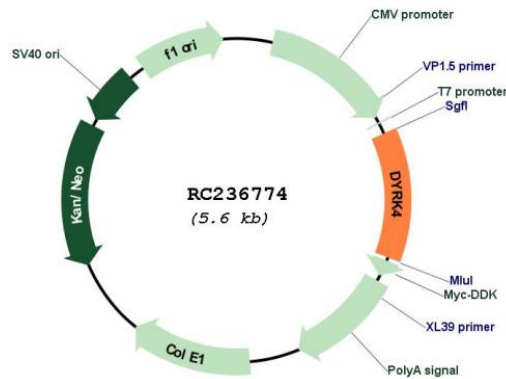
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Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001282286

ORF Size: 699 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001282286.1, NP_001269215.1</u>
<b>RefSeq Size:</b>	965 bp
<b>RefSeq ORF:</b>	702 bp
<b>Locus ID:</b>	8798
<b>Cytogenetics:</b>	12p13.32
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>MW:</b>	26.7 kDa
<b>Gene Summary:</b>	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]