

## Product datasheet for **SC323557**

### **DYRK4 (NM\_003845) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DYRK4 (NM_003845) Human Untagged Clone
Tag:	Tag Free
Symbol:	DYRK4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003845, the custom clone sequence may differ by one or more nucleotides

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ATGCCGGCCTCAGAGCTCAAGGCTTCAGAAATACCTTTCCACCCTAGCATTAAAACCCAGGATCCCAAGG
CAGAGGAGAAGTCACCAAAGAAGCAAAAGGTGACTCTGACAGCGGCAGAGGCCCTAAAGCTTTTTAAGAA
CCAGCTGTCTCCATATGAACAAAGTAAATCCTGGGCTACGCGGAGCTGTGGTTCCTGGGTCTTGAAGCC
AAGAAGCTCGACACGGCTCCTGAGAAATTTAGCAAGACGAGTTTTGATGATGAGCATGGCTTCTATCTGA
AGTCTGTCATGATCACATTGCCTACCGCTATGAAGTTCTGGAGACAATCGGGAAGGGTCTTTGGACA
GGTGGCCAAAGTGGTGGATCACAAAAACAATGAGCTGGTGGCCCTGAAAAATCATCAGGAACAAGAAGAGG
TTTCACCAGCAGGCCCTGATGGAGCTGAAGATCCTGGAAGCTCTCAGAAAGAAGGACAAAGACAACACCT
ACAATGTGGTGCATATGAAGGACTTTTTCTACTTTTCGCAATCACTTCTGCATCACCTTTGAGCTCCTGGG
AATCAACTTGTATGAGTTGATGAAGAATAACAACCTTTCAAGGCTTCAGTCTGTCCATAGTTTCGGCGCTT
ACTCTCTCTGTTTTGAAGTGCTTGACAGATGCTTTTCGGTAGAGAAAATCATTCACTGTGATCTCAAGCCC
AAAATATAGTGCTATACCAAAGGGCCAAGCCTCTGTTAAAGTCATTGACTTTGGATCAAGCTGTTATGA
ACACCAGAAAGTATACACGTACATCCAAAGCCGGTTCTACCGATCCCAGAAAGTATCCTGGGCCACCCC
TACGACGTGGCCATTGACATGTGGAGCCTGGGCTGCATCACGGCGGAGTGTACACGGGCTACCCCTGT
TCCCCGGGGAATGAGGTGGAGCAGCTGGCCTGCATCATGGAGGTGCTGGGTCTGCCGCCAGCCGGCTT
CATTTCAGACAGCCTCCAGGAGACAGACATCTTTGATTCAAAGTTTTCTTAAAAATATAACCAACAAC
AGGGGGAAAAAAGATACCCAGATTCAAAGGACCTCACGATGGTGTGAAAACCTATGACACCAGCTTCC
TGGACTTTCTCAGAAGGTGTTTGGTATGGGAACCTTCTTTCGCATGACCCCGGACCAGGCCCTCAAGCA
TGCTTGGATTTCAGTCTCGGAACCTCAAGCCACAGCCAGGCCCCAGACCCTGAGGAAATCCAATTCC
TTTTTCCCCTCTGAGACAAGGAAGGACAAGGTTCAAGGCTGTCACTCGAGCAGAAAAGCAGATGAGA
TCACCAAAGAGACTACAGAGAAAACAAAGATAGCCCCACGAAGCATGTTTCAGCATTTCAGGTGATCAGCA
GGACTGTCTCCAGCAGGAGCTGACACTGTTTCAGCTGCCTCAACTGGTAGACGCTCCCAAGAAGTCAGAG
GCAGCTGTCCGGGCGGAGGTGTCCATGACCTCCCAGGACAGAGCAAAAACCTTCTCCCTCAAGAACAAA
ACGTTTTACCCCTATTGTATGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for mutant NM_003845 unedited CCGCCGTTTGGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATCTTGTAAATACGACTACTATAGGGCGGCCGATAAAGTTCGTATAGCATACATTATACGAA GCTTATGGATTGAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGAGCGTGTGAAAGCCT GCAGCTAACACCAGTGTACTTCACTCCCTTTGTGGACACCAAGGGGAAGAAGATACGGTAAGCTTC CCACACATTAGCAAGAAAGTCTGCTGAAGTCATCCCCTGCTGTATCAGGAGAATCAAGCTCACAATCAG ATGCCCGGCCTCAGAGCTCAAGGCTTCAGAAAATACCTTCCACCCTAGCATTAAAACCCAGGATCCCC AGGCAGAAGGAAAAGTCAACAAAGAGCCAAAGTTGACTCTGACACCGGCGAAGGCCCTAAAGCTTTAAG AACCCAGCTGTTTCTTATGACAAAGTTGAATCCTGGGGCTACCCGGAGCTGTGGGTCCTGGGGCCTGGAC CAAGAAGTCGAACCGGTCTCGGAAAATTTACCAGAGCAGTTTGAGAGGAGACCTTGTCTACTGAAAGG TTCCATGGATCAATGCCCTACGATTGAAGTCTAGACACTCCGGAAGGGTCTTGACCGTGTGCAAGCT CTGTTACACACTATGCCGTGTGCCTTGATATACGAGACAAGAGTTACCCGCGCTGAGCTAGATATCGG ACCCAGAGACACAACCCATGGTCTATAGAGATTCTCTCCCCTGCCCCGTCCGGACCTGTATAGAGA AACCTAGCGCTCGCATTTGCACTCTCGGTGATGCCGCACGGGAAACCGGGGG
<b>Kinase Domain Sequence:</b>	>SC323557 kinase domain raw sequence. By performing <a href="#">BLASTX</a> analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation TMKATCATTGCCTACCGCTATGAGTTCTGGAGACAATCGGGAAGGGTCTTTGGACAGGTGGCCAAGTG CTTGGATCACAAAACAATGAGCTGGTGGCCCTGATGATCATCAGGAACAAGAAGAGTTTACCAGCAG GCCCTGATGGAGCTGAAGATCCTGGAAGCTCTCAGAAAGAAGGACAAGACAACCTACAATGTGGTGC ATATGAAGGACTTTTTCTACTTTGCAATCACTTCTGCATCACCT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_003845
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." <a href="#">Cell</a> , 2008 May p536-548.
<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>	<a href="#">NM_003845.1</a> , <a href="#">NP_003836.1</a>
<b>RefSeq Size:</b>	1860 bp
<b>RefSeq ORF:</b>	1563 bp

<b>Locus ID:</b>	8798
<b>UniProt ID:</b>	<a href="#">Q9NR20</a>
<b>Cytogenetics:</b>	12p13.32
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>