

Product datasheet for **SC322604**

DYRK3 (NM_001004023) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYRK3 (NM_001004023) Human Untagged Clone
Tag:	Tag Free
Symbol:	DYRK3
Synonyms:	DYRK5; hYAK3-2; RED; REDK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322604
 GCAGTGTCTGGTCGAGAGTACCCGTGGGAGCGTCGCGCCGCGGAGGCAGCCGTCCCAGCG
 TAGGTGGCGTGGCCGACCCGACCCCAACTGGCGCCTCTCCCCGCGGGGTCCCAGCT
 AGGAGATGGGAGGCACAGCTCGTGGGCCGAGGATGCGGGGCCCTGGGGCCG
 GGCTCCCGCCCCAGCAGCGGAGTGGTGGAGCCACAGTGTAAAGAACAGAGAAGTATCC
 TTAATCATTTAGAATTTTGCCTCCACCATCCACCAGAAAAATGAAGTGGAAAGAGAAGTTG
 GGGGATGGTGTCTATGACACCTTCATGATGATAGATGAAACCAAATGTCCCCCTGTTCA
 AATGTACTCTGCAATCCTTCTGAACACCTCCACCAGAAAGACTAAATATGACCACTGAG
 CAGTTTACAGGAGATCATACTCAGCACTTTTTGGATGGAGGTGAGATGAAGGTAGAACAG
 CTGTTTCAAGAATTTGGCAACAGAAAAATCCAATACTATTCAGTCAGATGGCATCAGTGAC
 TCTGAAAAATGCTCTCCTACTGTTTCTCAGGGTAAAAGTTCAGATTGCTTGAATACAGTA
 AAATCCAACAGTTCATCCAAGGCACCCAAAGTGGTGCCTCTGACTCCAGAAACAAGCCCTG
 AAGCAATATAAACACCACCTCACTGCCTATGAGAACTGGAAATAATTAATTATCCAGAA
 ATTTACTTTGTAGTCCAAATGCCAAGAAAAGACATGGAGTTATTGGTGGTCCCAATAAT
 GGAGGGTATGATGATGCAGATGGGGCCTATATTCATGTACCTCGAGACCATCTAGCTTAT
 CGATATGAGGTGCTGAAAATTATTGGCAAGGGGAGTTTTGGGCAGGTGGCCAGGGTCTAT
 GATCACAACCTCGACAGTACGTGGCCCTAAAAATGGTGCGAATGAGAAGCGCTTTCAT
 CGTCAAGCAGCTGAGGAGATCCGGATTTTGGAGCATCTTAAGAAACAGGATAAAAAGTGGT
 AGTATGAACGTTATCCACATGCTGGAAAGTTTCACATTCGGAACCATGTTTGCATGGCC
 TTTGAATTGCTGAGCATAGACCTTTATGAGCTGATTAATAAAAAAATAGTTTCAGGGTTTT
 AGCGTCCAGTTGGTACACAAGTTTGCCAGTCCATCTTGAATCTTTGGATGCCCTCCAC
 AAAATAAGATTATTCAGTGCATCTGAAGCCAGAAAACATTCTCCTGAAACACCACGGG
 CGCAGTTCAACCAAGGTCACTTGGTCCAGCTTTTCGAGTACCAGAAGCTCTAC
 ACATATATCCAGTCTCGGTTCTACAGAGCTCCAGAAAATCATCTTAGGAAGCCGCTACAGC
 ACACCAATTGACATATGGAGTTTTGGCTGCATCCTTGCAGAACTTTAACAGGACAGCCT
 CTCTCCCTGGAGAGGATGAAGGAGACCAGTTGGCCTGCATGATGGAGCTTCTAGGGATG
 CCACCACCAAACTTCTGGAGCAATCCAACGTGCCAAGTACTTTATTAATTCCAAGGGC
 ATACCCGCTACTGCTCTGTGACTACCCAGGCAGATGGGAGGGTGTGCTTGTGGGGGT
 CGCTCACGTAGGGTAAAAAGCGGGTCCCCAGGCAGCAAGACTGGGGGACAGCACTG
 AAAGGGTGTGATGACTACTTGTATAGAGTCTTGAAGGTGTCTTCACTGGGACCCC
 TCTGCCGCTTGACCCAGCTCAAGCATTAAAGACACCCTTGGATTAGCAAGTCTGTCCCC
 AGACCTCTCACCACCATAGACAAGGTGTAGGGAAACGGGTAGTTAATCCTGCAAGTGTCT
 TTCCAGGGATTGGTTCTAAGCTGCCTCCAGTTGTTGGAATAGCCAATAAGCTTAAAGCT
 AACTTAATGTCAGAAACCAATGGTAGTATACCCCTATGCAGTGTATTGCCAAAAGTATT
 AGCTAGTGGACAGAGATATGCCAGAGATGCATATGTGTATATTTTATGATCTTACAAA
 CCTGCAATGGAAAAATGCAAGCCATTGGTGGATGTTTTGTTAGAGTAGACTTTTTT
 TAAACAAGACAAAACATTTTATATGATTATAAAAAGAAATCTTCAAGGGCTAATTACCTA
 ACCAGCTTGTATTGGCCATCTGGAATATGCATTAATGACTTTTTTATAGGTCAATGCAAA
 AA

- Restriction Sites:** Please inquire
- ACCN:** NM_001004023
- OTI Disclaimer:** 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<ol style="list-style-type: none">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:	<u>NM_001004023.1</u> , <u>NP_001004023.1</u>
RefSeq Size:	2301 bp
RefSeq ORF:	1707 bp
Locus ID:	8444
UniProt ID:	<u>O43781</u>
Cytogenetics:	1q32.1
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>This gene product belongs to the DYRK family of dual-specificity protein kinases that catalyze autophosphorylation on serine/threonine and tyrosine residues. The members of this family share structural similarity, however, differ in their substrate specificity, suggesting their involvement in different cellular functions. The encoded protein has been shown to autophosphorylate on tyrosine residue and catalyze phosphorylation of histones H3 and H2B in vitro. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) contains an additional segment in the coding region compared to variant 1. The resulting isoform (b), also known as the isoform RED-S, contains a shorter and distinct N-terminus compared to isoform a.</p>