

## Product datasheet for **MG209588**

### **Dyrk1b (NM\_001037957) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dyrk1b (NM_001037957) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dyrk1b
Synonyms:	Mirk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209588 representing NM\_001037957  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCGTCACCAGGCCATGGTCTTTCTCTGGCTTTCGGGGCCCCAGGAACACACACAGTACTAC  
 CTGATGTGCGGCTCCTGCCCCGAGACTGCCCCCTGGCCTTCCGGGATGCGGCCTCAGCCCCGCTGCGCAA  
 GCTCTCGGTGGACCTCATCAAGACCTACAAGCACATCAATGAGGTATACTATGCGAAGAAGAAGCGCGG  
 GCCAACAGGCGCCACCCAGGACTCGAGCACAAAAAGGAGAAGAAGGTCTGAACCACGGTTATGATG  
 ACGACAACCACGACTACATTGTGCGCAGTGGCAGCGCTGGTAGAGCGCTATGAGATTGACTCTTTAT  
 TGGCAAAGGCTCCTTTGGCCAGGTGGTAAAGCCTATGATCACCAGACTCAGGAGCTGGTGGCCATCAAG  
 ATCATCAAGAACAAAAAGCCTTCTGAACCAGGCACAGATTGAGCTACGGCTGTGGAGCTGATGAACC  
 AGCATGATACAGAGATGAAGTACTACATAGTACACCTTAAGCGGCACTTCATGTTCCGGAATCACCTGTG  
 CCTGGTGTGGAGCTGTCTACAACCTGTACGACCTCTCCGCAACACACACTTTCGGGGTGTCTCA  
 CTGAACCTGACGAGGAAGCTGGCACAGCAGCTCTGCACAGCTCTGCTCTTCTGGCCACCCCGAGCTCA  
 GCATCATCCACTGCGACCTCAAGCCTGAGAACATCCTGCTCTGCAACCCCAAGCGCAGTGCCATCAAGT  
 CGTGGACTTCGGCAGTTCCTGCCAGCTTGGCCAGCGGATCTACCAGTATATCCAGAGCCGCTTCTACCGC  
 TCACCCGAGGTGCTCCTGGGTACACCCTATGACCTGGCCATTGACATGTGGTCCCTGGGCTGCATCCTCG  
 TGGAGATGCACACCGGAGAGCCCTCTTCAAGTGGCTCTAATGAGGTGGACCAGATGAGCCGATTGTGGA  
 GGTGTTGGGATCCCTCCCGACCCATGCTGGAACAGGCACCCAAAGGCTCGAAAGTACTTTGAGCGGCTG  
 CCTGGGGTGGCTGGACCCTACGAAGGACAAAGGAACTCAGGAAGGATTACCAGGGCCCTGGGACACGGC  
 GGCTGCAGGAGGTGCTGGGCGTGCAGACGGCGGGCCCGGGGGCCGGCGGGGGGGCCCGCCACAG  
 CCCCAGGACTACCTCCGCTTCCAGACCTGGTGTGCGCATGCTGGAATATGAGCCCGCCGCCCGCATC  
 AGCCCTCTGGGCGCTCTGCAGCATGGCTTCTTCCGCCGACGGCCGACGAGGCCACCAACACGGGCCGG  
 CAGGCAGCAGTGCCTCCACCTCGCCGGCGCCCTTGCACCTGCCCTCCTCTAGCACCGCCAGTCCAT  
 CTCCAGCTCTGGAGGTTCCAGTGGCTCTCCAACGACAACAGAGCCTACCGATACAGCAACCGATATTGT  
 GGGGGCCAGGGCCCCCATCACTGACTGTGAGATGAACAGCCCCAGGTCTACCCTCCAGCCTCTGC  
 GCCCTGGGCAGGGGTGATGTGCCCAACAGACATCAAGCCCTATCTCTGCCTCAACATTGCCGGG  
 GACTGGGGCTCAGTTACCCCATTGCCCGTTGCCTTGGACGACCCCATACCAACATCACCACCACC  
 CCAGAGTTGATGGATGTGAGCCTGGTGGCAGCCCTCCAGACTGCTCTCCACCTCTCCAGCACCTGCC  
 CCCAGCACCCGGCTGCCTCAGCCCTCCGACTCGGATGACAGGAGGTCGACCACCTCTCCACCCCTGA  
 TGACCCTGCCACTCTGGGCGCTCGCTGGTCTCCATGGTGTACCCAGAGCACAGCAGCCAGCTCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG209588 representing NM\_001037957  
 Red=Cloning site Green=Tags(s)

MAVPPGHGPFSGFPGQEHTQVLPDVRLLPRRLPLAFRDAASAPLRKLSVDLIKTYKHINEVYYAKKKRR  
 AQQAPPQDSSTKKEKKVLNHGYDDNDHYIVRSGERWLERYEIDSLIGKGSFGQVVKAYDHQTQELVAIK  
 I IKNKKAFLNQAQIELRLELMNQHDTEMKYYIVHLKRHFMRNHLCLVFELLSYNLYDLLRNTHFRGVS  
 LNLTRKLAQQLCTALLFLATPELSIIHCDLKPENILLCNPKRSAIKIVDFGSSCQLGQRIYQYIQSRFYR  
 SPEVLLGTPYDLAIDMWSLGCILVEMHTGEPLFSGSNEVDQMSRIVEVLGIPPAPMLEQAPKARKYFERL  
 PGGGWTLRRTKELRKDYQGPGRRLQEVLGVTGGPGRRRAGEPHSPADYLRFDLVLRLMEYEPAAARI  
 SPLGALQHGFRRTADEATNTGPAGSSASTSPAPLDTCPSSTASSISSGGSSGSSNDNRAYRYSNRYC  
 GPGPPPITDCMNSPQVLPSPQLRPWAGGDVPHKTHQAPIASATLPGTGAQLPPLPRCLGRPPSPPTSPPP  
 PELMDVSLVGSPPDCSPPPPAPAPQHPAASALRTRMTGRRPPLPPDDPATLGPRLGLHGVPQSTAASS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

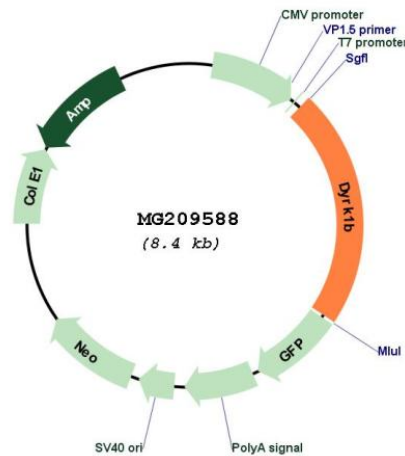
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_001037957  
 ORF Size: 1887 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_001037957.3</a> , <a href="#">NP_001033046.1</a>
<b>RefSeq Size:</b>	2524 bp
<b>RefSeq ORF:</b>	1890 bp
<b>Locus ID:</b>	13549
<b>UniProt ID:</b>	<a href="#">Q9Z188</a>
<b>Cytogenetics:</b>	7 A3
<b>Gene Summary:</b>	Dual-specificity kinase which possesses both serine/threonine and tyrosine kinase activity. Enhances the transcriptional activity of TCF1/HNF1A and FOXO1. Inhibits epithelial cell migration. Mediates colon carcinoma cell survival in mitogen-poor environments. Inhibits the SHH and WNT1 pathways, thereby enhancing adipogenesis. In addition, promotes expression of the gluconeogenic enzyme glucose-6-phosphatase (G6PC).[UniProtKB/Swiss-Prot Function]