

## Product datasheet for **MG204162**

### **Katnbl1 (NM\_024254) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Katnbl1 (NM_024254) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Katnbl1
Synonyms:	2410042D21Rik; AA166487; AA473307; AI467442
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204162 representing NM_024254 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCATTGATACTCACCATGTTAAAAACGGAACCTTCTAATAGTATTGATCTTCTAGAAAGAGGA  
TCTCTAACTTCACCAGTAAGAACATGAAGGAGGTTAAGAGATCTCCAAAACAGTTGGCTGCTTACATAAG  
TAGAACAGTTGCACAGGCAGTAAAAGCCAGAAAACTGCGCAAGGTGCTCTACCACAGAAAGTTAGTT  
CGTCGTTCCCTCCAAATCCTTGTACAAAACAAAGCAGTCCCCAAAAGTGGGGCTGTGACATGGCAA  
ATAAAGAAAATGAACTGGCTTGTGCAGGCCATCTACCTGAAAATTTACGCCACGACAGTCGGACATTTGT  
CATTAAATACCAGTGATTCTGGGTCTTACAGACAGAAAGCCCATCAAAATATAGTGGTTCTTTTCT  
GAAGTTTCTCAGGACCATGAGACAATGGCCAGGTTCTATTACAGCAGGAATTTGAGATTGAATGTAGCTT  
TGACTTTCTGGAGAAAGAGAAGTATAAGTGAACCTGTAGCTTATTTAGTGAGGATAGAAGACCTTGGAGT  
TGTGGTAGATTGCCTTCTGTTCTAACCAATAGTTTACAGGAAGAAAAGCAGTATATCTCACTTGGCTGC  
TGTGTAGACTTACTTCTCTGGTAAAGTCTTACTTCAAAGCAGATTTGAAGAATATGTAATTTGTTGGTT  
TAAACTGGCTTCAAGCAGTAATAAAAAGGTGGTGGTCAGAACTCTCATCTACGTCAGAAATTATAAGTGA  
TGGAAATATTAAGATTTTAAAGCAACAGTTGAGTGGACTATGGGAACAGGAAAGCCATCTTACTTTGGTT  
CCAGGATATACTGGTAATATAGCTAAGGATGTAGATGCTTATTTATTACAGCTGCAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204162 representing NM\_024254  
 Red=Cloning site Green=Tags(s)

MAFDTHHVKKRNFNSIDLPKRKISNFTSKNMKEVKRSPKQLAAYISRTVAQAVKSPEKLRKVL YHRKLV  
 RRSFPNPCYKTKQSPKSGGCDMANKENELACAGHLPENLRHDSRTFVINTSDSGSSQTESPSSKYSGFFS  
 EVSQDHETMAQVLF SRNLRLNVALTFWRKRSISELVAYLVRIEDLGVVVDCLPVL TNSLQEEKQYISLGC  
 CVDLLPLVKSLQSRFEEYVIVGLNWLQAVIKRWWSEL SSTSEIISDGNIKILKQQLSGLWEQESHLTLV  
 PGYTGNI AKDVDAYLLQLH

TRTRPLE - GFP Tag - V

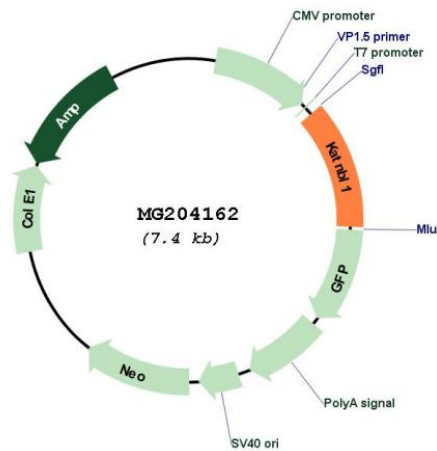
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_024254

**ORF Size:** 897 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_024254.3</a> , <a href="#">NP_077216.1</a>
<b>RefSeq Size:</b>	2883 bp
<b>RefSeq ORF:</b>	900 bp
<b>Locus ID:</b>	72425
<b>UniProt ID:</b>	<a href="#">Q9CWJ3</a>
<b>Cytogenetics:</b>	2 E3
<b>Gene Summary:</b>	Regulates microtubule-severing activity of KATNAL1 in a concentration-dependent manner in vitro.[UniProtKB/Swiss-Prot Function]