

## Product datasheet for **MG207130**

### Bag5 (NM\_027404) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Bag5 (NM_027404) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bag5
Synonyms:	1600025G07Rik; 4930405J06Rik; Bag-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207130 representing NM\_027404  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATATGGAAACCAACACCCCTCCATTAGTAGGCTTCAGGAGATCCAGCGGGAAGTAAAGGCTATAG  
 AGCCGCAAGTGGTCGGCTTCAGCGGCCTGTCGGATGACAAGAACAAGAGGCTGGAGAGGATTCTGAC  
 CAAACAACCTTTTGAATTGACTCTGTGGATACGGAAGGAAAAGGAGATATCCAGCAAGCTAGGAAGCGG  
 GCGGCACAGGAGACAGAACGCTCCTCAAGGAGTTGGAGCAGAATGCCAACACCCACACCCGCATCGAAA  
 TCCAGAAATCTTTAAGGAGGCTCAGGCCCTTGTGAAAGACAAGATTGTGCCCTTTACAGCGGAGGCAA  
 CTGTGTGACTGACGAGTTTGAGGAAGGCATCCAGGACATCATTCTGAGGCTGACGCACGTGAAGACCGGA  
 GGAAGGTCTCCTTGGGAAAGCCAGGTACCGCACGCTACCAAGATCTGCGCGGTACAGGAGGTTATTG  
 AGGACTGTATGAAGAAGCAGCCCTCCCTGCCACTGTCTGAGGATGTGCATCCTTCAGTGGCCAAAATCAA  
 CTCTGTATGTGCGAGGTGAACAAGGCCAGAGGACGCTGATCGCACTTCTGATGGCGTGGACAGTTCC  
 GAGACTTCAGGCACTTATCCTGCGTGTCTGAGGACTGATTGCTGACTTAGATGCTCTAGATGTGTGTG  
 GGCGTACAGAGATCAGAAATTATCGGAGGGAGGTGGTGAAGATATCAACAAATTAAGTAAATACCTAGA  
 CTTAGAAGAGGAAGCTGACAGTACACATGCATTTGACCTGGGACAGAACCATTCCATTATAAAAAATAGAA  
 AATGTTCTCAAGAGGATGAGAGAGATAAAAAATGAACCTTCCAGGCGCAGAGCCCTCCTGAGTTGTACC  
 TGAGGGCCAAGACAGAGCTGCAGGGCTTGATCGGACAGCTGGATGAAGTGAGTCTGGAGAAAAACCCCTG  
 CATCCGGGAGGCCAGGAGGAGGGCGGTGATTGAGTGCAGATCCTGATCACGTACCTGGACCTGAAGGAA  
 GCCCTCGAGAAGGAAGCTGTTCCATGTGAGGAGCACCCCCACACAAGGCCGTGGGAGATCCTTG  
 GGAACCTGTCTGAGATCCTGGGCGAAGTCCTTTTCAATTTGGTGAACCGAACTGATAAGAACTACATCCG  
 TCTGGAGGAGCTACTGACCAAACAGTTGCTGGCTGAGTGGCGTTGACCCACAGGGAGAAGAGAAGTGT  
 AAGGCTGCCAGGAAACAGGCTGTGAAACTGGCCAGAACATCCTCAGCTACCTGGACATGAAGTCGGACG  
 AGTGGGAGTAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207130 representing NM\_027404  
 Red=Cloning site Green=Tags(s)

MDMGNQHPISIRLQEIQREVKAIEPQVVGFSGLSDDKNYKRLERILTKQLFEIDSVDTEGKGDIIQARKR  
 AAQETERLLKELEQANHPHRIEIQNIFKEAALVKDKIVPFYSGGNCVTDEFEEGIQDIILRLTHVKTG  
 GKVSLRKARYRTLKICAVQEVIEDCMKKQPSLPLSEVHPSVAKINSVMCEVNKARGTLIALLMGVDS  
 ETCRHLSCVLSGLIADLDALDVCGRTEIRNYRREVVEDINKLLKYLDLEEEADSTHAFDLGQNHISIKIE  
 NVLKRMRREIKNELLQAQSPPEL YLRAKTELQGLIGQLDEVSLKNPCIREARRRAVIEVQILITYLDLKE  
 ALEKRKLPCEEHPPHKAVWEILGNLSEILGEVLSFGGNRTDKNYIRLEELLTKQLLALDAVDPQGEK  
 KAARKQAVKLAQNILSYLDMKSDEWEY

**TRTRPLE** - GFP Tag - - V

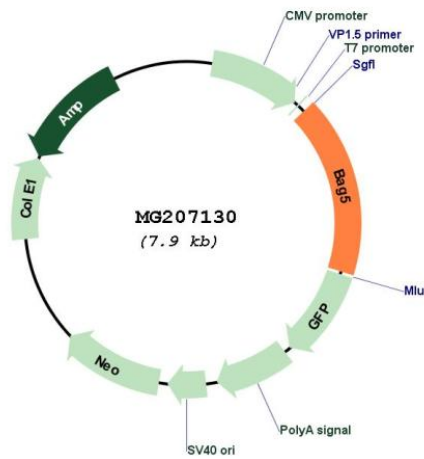
**Restriction Sites:**

SgfI-MluI

## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_027404

ORF Size: 1341 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>	<a href="#">NM_027404.2</a>
<b>RefSeq Size:</b>	1800 bp
<b>RefSeq ORF:</b>	1344 bp
<b>Locus ID:</b>	70369
<b>UniProt ID:</b>	<a href="#">Q8CI32</a>
<b>Cytogenetics:</b>	12 F1
<b>Gene Summary:</b>	May function as a nucleotide exchange factor for HSP/HSP70, promoting ADP release, and activating Hsp70-mediated refolding. Inhibits both auto-ubiquitination of PRKN and ubiquitination of target proteins by PRKN (By similarity).[UniProtKB/Swiss-Prot Function]