

## Product datasheet for **MG212791**

### **Bud23 (NM\_025375) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Bud23 (NM_025375) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bud23
Synonyms:	1110003N24Rik; Wbscr22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG212791 representing NM_025375 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCATCTCGTAGCCGGAGACCCGAACACAGCGGACCGCCGGAGCTGTTTTATGACCAGAATGAAGCCC  
GGAAATACGTTTCGCAACTCACGGATGATTGACATCCAGACCAAGATGACTGAGCGAGCGCTGGAGCTCCT  
CTGTTTACCAGAGGGTCAGCCTTCTTACCTGTTAGACATTGGCTGCGGTTCTGGGCTGAGTGGAGATTAT  
ATCTCAGAAGAGGGACACTACTGGTGGGCATTGACATCAGCCCTGCCATGTTGGATGCCGCTTGGACC  
GAGATACAGAGGGGACCTGCTGCTAGGGGACATGGGCCAGGGCGTCCCTTTCAGACCGGGCTCTTTTGA  
TGCTGCATCAGCATCTCTGCTGTGCACTGGCTCTGCAACGCCAACAAGAAGTCGGACGTCCTGCCAGG  
CGCCTGTACTGCTTCTTTCTTCTTGTACTCTGCCCTTGTCCGTGGGGCCCGAGCTGTCCTGCAGCTGT  
ACCCTGAGAACTCGGAGCAGCTGGAGCTGATCACAACCCAGGCCACGAGGGCAGGCTTCACTGGCGGCGT  
GGTGGTAGACTTCCCAACAGTGCCAAAGCAAAGAAGTCTACCTCTGTCTGTTTTCTGGGCTTCCACC  
TCCCTGCCAAAGGGGCTGACTGAAAGTCAGGATGCAGACCAGGCCTCCGAGTCCATGTTCCACAGTGAGC  
GGGCCCAACAAGAAGGCACGGAGGGACCTGGTGAAGAAGAGCCGGGAATGGGTCTAGAGAAGAAGGA  
GAGGCGCAGGCGCCAGGGCAAGGAGTTCAGACCTGACACCCAGTACACCGGCCAAAGCGCAAGCCCCGC  
TTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG212791 representing NM\_025375  
Red=Cloning site Green=Tags(s)

MASRSRRPEHSGPPELFYDQNEARKYVRNSRMIDIQTKMTERALELLCLPEGQPSYLLDIGCGSGLSGDY  
 ISEEGHYWVGIDISPAMLDAALDRDTEGDLILLGDMQGVPFRPGSFDGCISISAVQWLCNANKKSDV  
 PAR RLYCFFSSLYSALVRGARAVLQLYPENSEQLELITTTQATRAGFTGGVVDFPNSAKAKFYLC  
 LFSGPST SLPKGLTESQDADQASESMFTSERAPHKKARRDLVKKSRWVLEKKERRRRQKKEV  
 RPDPTQYTGRKRKPR F

TRTRPLE - GFP Tag - V

**Restriction Sites:**

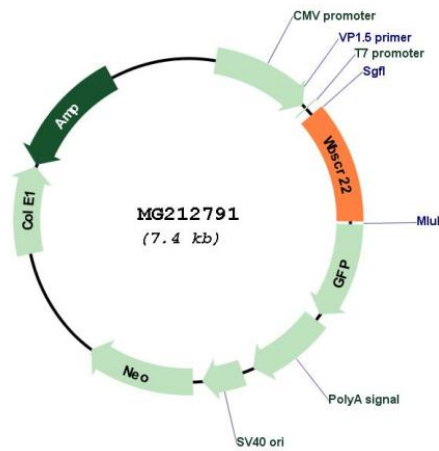
Sgfi-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_025375

**ORF Size:** 843 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_025375.4</a>
<b>RefSeq Size:</b>	1323 bp
<b>RefSeq ORF:</b>	846 bp
<b>Locus ID:</b>	66138
<b>UniProt ID:</b>	<a href="#">Q9CY21</a>
<b>Cytogenetics:</b>	5 G2
<b>Gene Summary:</b>	S-adenosyl-L-methionine-dependent methyltransferase that specifically methylates the N(7) position of a guanine in 18S rRNA. Requires the methyltransferase adapter protein TRM112 for full rRNA methyltransferase activity. Involved in the pre-rRNA processing steps leading to small-subunit rRNA production independently of its RNA-modifying catalytic activity. Important for biogenesis end export of the 40S ribosomal subunit independent on its methyltransferase activity. Locus-specific steroid receptor coactivator. Potentiates transactivation by glucocorticoid (NR3C1), mineralocorticoid (NR3C2), androgen (AR) and progesterone (PGR) receptors. Required for the maintenance of open chromatin at the TSC22D3/GILZ locus to facilitate NR3C1 loading on the response elements. Required for maintenance of dimethylation on histone H3 'Lys-79' (H3K79me2), although direct histone methyltransferase activity is not observed in vitro.[UniProtKB/Swiss-Prot Function]