

Product datasheet for **MG203915**

Lactb2 (NM_145381) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Lactb2 (NM_145381) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Lactb2 |
| Synonyms: | Cgi-83; E430032H21Rik |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG203915 representing NM_145381 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCTGCCGCTCTGCAGCGCATCGAGCAGCTGTCCAGTCGGGTGGTGC GCGTGTGGGCTGCAACCCGG
GTCCCATGACCCTGCAAGGCACCAACACGTACCTGGTGGGGACCGGCAGCAGGAGAATCCTCATTGACAC
TGGCGAGCCTTCAGTCCAGAATATATCAGCTGTTAAAGCAAGCCTGGTTGAGTTTGACACAGCAATC
CAGGAAATCCTGGTGACACACTGGCATTCTGATCATTCTGGAGGCATTGTAGACATTTGAAAAACATCA
ATAATGACACCACCTACTGCATTAATAAATTCGACGGAATCCCAGAGAGAAGAAATTATAGGAAATGG
AGAACAGCAATTTATTTATATAGAAAACGAGACGTGGTTAAGACCGAGGGAGCCACTCTCAGAGTTTTG
TACACTCCTGGCCACACTGATGATCACATGGCTTTACTCCTGGAGGAGGAGAATGCCATCTTTTCTGGGG
ACTGCATCCTAGGAGAAGGGACGACAATATTTGAAGACCTCTATGATTATATGAACTCCCTAAACA
ACTTACTAAAAATCAAAGCTAACATTATATCCAGGACATGGCCAGTCATCCATAATGCTGAAGCTAA
AATCTGGAATATATTTCTCATAGAAATAACCGAGAAGAACAGATTATTTTCATTATTCCGTGATAACT
TTGAGAAATCATTACCGTAACGGAACCTTAGGACAATGATTTACAAGGATGTTCCAGAGAATTTACATA
AAGATGCCAGAGCATAATCTTTGCTTCATTTGAGAAAACCTAGAGAAAAGATGGGAAGATATTCTACACA
CAACTCCTGTCAAGAAATGGAAAGCCGTCCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203915 representing NM_145381
 Red=Cloning site Green=Tags(s)

MAAALQRIEQLSSRVVRLGCNPGPMTLQGTNTYLVTGSSRRILIDTGEPSVPEYISCLKQALVEFDTAI
 QEILVTHWSDHSGGIVDICKNINNDTTYCIKKLRRNPQREEIIGNGEQQFIYIENGDDVVKTEGATLRVL
 YTPGHTDDHMALLEEENAIFSGDCILGEGTTIFEDLYDYMNSLNLLKIKANIIYPGHGPVIHNAEAKI
 LEYISHRNNREEQIISLFRDNFEKSFTVTELRTMIYKDVPENLHKMAEHNLLHLRKLKLEKDGKIFYTTTP
 VKKWKAVL

TRTRPLE - GFP Tag - V

Restriction Sites:

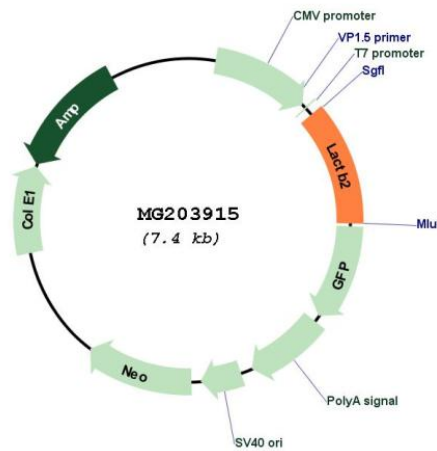
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_145381

ORF Size: 864 bp

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|-------------------------------|---|
| 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. |
| 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: | NM_145381.1 |
| RefSeq Size: | 1889 bp |
| RefSeq ORF: | 867 bp |
| Locus ID: | 212442 |
| UniProt ID: | Q99KR3 |
| Cytogenetics: | 1 A3 |
| Gene Summary: | Endoribonuclease; cleaves preferentially 3' to purine-pyrimidine dinucleotide motifs in single-stranded RNA. The cleavage product contains a free 3' -OH group. Has no activity with double-stranded RNA or DNA. Required for normal mitochondrial function and cell viability. [UniProtKB/Swiss-Prot Function] |