

## Product datasheet for **MG210129**

### 1300017J02Rik (NM\_027918) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	1300017J02Rik (NM_027918) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	1300017J02Rik
Synonyms:	Ica; mICA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG210129 representing NM\_027918  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGAGGCTGCTCATCTGCGCCCTTCTATGCTTGGGGACCTAGGGCTGTGCCTGGCTCTTCTGAGAAGA  
CCATACGATGGTGCCTTGTGTCAGATCATGAGGCCATTAAAGTGTCTAGTTTCCGTGACAATATGAAGAA  
AGTCTTCTGCAGGTGGCCAGCTGTTACCTGTGTAAGGAAAATGTCTCACCTGAGTGCATCCGGGAC  
ATCTCGGCCAATAAAGTAGATGTGACTGTTGACGGAGCTTTGGTGGCTGAAGCTGACCTGCCTCACC  
ACAGCCTGAAACCTATCATGGCAGAATACTATGGATCAAAGATGATCAAAAACCCATTATTATGTTGT  
GGCCATGGCAAAGAAGGGAACAGGCTTCCAACCTGAACCAGCTCCGGGGCAAGAAGTCTGCCATACTGGC  
CTGGGCTGGTCTGCTGGTGGTACGTTCCCTCAGCACCTGCTTCTTCTGGCTCTCGGAAACAGCGG  
CAGCCACGTTCTTCTCCAGCAGCTGTGTCCCTGTGCGGATGAAAGATGTTCCCGACCTGTGCCAAT  
GTGTGCGGGGAAGGGACAGACAAGTGTGCTGCTCCTCCGGGAACCACTTTGGCTCCTGGGGAGCC  
TTAAAATGTCTGCAGGATGGCACGGCGGATGTGAGCTTCGTGAAGCACCTGACAGTGTGGAGCCATGC  
CAACAAAGGCCGACAGGGACCAATACGAGCTGCTCTGCATGGACAACACCCGAGGCCAGTGGAGGAATA  
TGAACAGTGTACCTGGCCCGGTCCCTTCTCATGTTGTGGTGGCTCGAAGTGTGGATGGCAAGGAGGAC  
TCCATCCAAGAGCTTCTCAGAGTGGCCAGGAACATTTTGGAAAAGACAAGTCAACCCCTCCAGCTCT  
TTGGCTCCCTCACGGGGAGGACCTGCTGTTTACTGATGCTGCTCATGGGCTCCTAAGGGTCCCTCGAAA  
GATGGACATCAGTCTGTACTTGGGATATGAGTTTCTTCTGCCTTTCGGAATCTTAAAAGAGGTCTGGAA  
GACTCCAGAGGGTGAAGTGGTGTGACGTGGCCAGCAGGAGAGGACCAATGTGACCAGTGGAGTGTCTG  
TGAGCGTGGTGTCTTGGCGTGTGCCACGGAGGAGACCCTGAGGACTGCATCGTGCACCATGAAAGG  
AGAAGCGGACGCCATGAGCCTGGATGGAGGGTTTGCCTACGTCCGAGGCCACTGCGGCCTGGTACCTGTC  
CTGGCAGAGAACTACTTGTCTACCCACAGCAGTGGGAGGCTGGGGTCTAAGTGTGTGAACGCACCTTTGG  
AAGTTATTATGTTGTGGCTGTGGTTAAGAAATCGGATGTTGGCATCACCTGGAAATCTCTGCAAGGCAA  
GAAGTCTGCCACACGGCCGTTGGCACTTCTGAAGGCTGGAACGTCCCATGGGTTTAAATATAACAACAA  
ACTGGGTCTTGCAAAATTTGATGCATTCTCAGTCGCAGCTGTGCCCCAGGGTCTGACCCTGACTCTCCTC  
TCTGCGCTCTGTGTGTTGGGGTAACAACCCAGCCACATGTGTGCTGCCAACAACGCTGAGGGGTATCA  
CGGCTCCAGCGGAGCTCTCAGGTGTCTGGTTGAGAAGGGGACGTGGCCTTCATGAAGCACCTACAGTT  
CTACAGAACTGATGGAAGAACCCTGAGCCTTGGGCTAAGGGTCTGAAACACGAAGACTTTGAGCTGC  
TCTGCCTTGATGGCACCAGGAAGCCTGTGACTGAGGCTCAGAGCTGCCACCTGGCCAGAGTGCCAAACCG  
TGCTGTGTTCTCCAGAAAGATAAGGCTGACTTTGTTGGAAGAATACTCTTCAACCAACAGGAGCTCTTT  
GGAAGAAATGGATTTGAATATATGATGTTCCAGATGTTTGAATCCTCAGCTAAGGACCTGCTTTTTCAGT  
ATGACACAGAATGTTTATCTAACCTTCAAGCAAAAACAACATATAAAACATACCTAGGACCACAGTATCT  
TACCTTGATGGATAACTTTAGACAGTGTCTGCTCTGAACTGCTGGATGCCTGCACATTTCAATAATAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210129 representing NM\_027918  
 Red=Cloning site Green=Tags(s)

MRL LICALLCLGTLGLCLALPEKTIRWCVVSDHEAIKCSSFRDNMKKVLPAGGPAVTCVRKMSHPECIRD  
 ISANKVDAVTVDGALVAEADLPHHSLKPIMAEYYSKDDPKTHYYVAMAKKGTGFQLNQLRGKKSCHTG  
 LGWSAGWYVPLSTLLPSGSRETAATFFSSSCVPCADGKMFPSLCQLCAGKGTDCACSSREPYFGSWG  
 LKCLQDGTADVSVFKHLTVFEAMPTKADRDQYELLCMDNTRRPVEEYEQCYLARVPSHVVARVSDGKED  
 SIQELLRVAQEHEFGKDKSSPFQLFGSPHGEDLLFTDAAHGLLRVPRKMDISLYLGYEFLSAFRNLKRGLE  
 DSQRVKWCAVGGQERTKCDQWSAVSGGALACATEETPEDCIAATMKGEADAMSLDGGFAYVAGHCLVPV  
 LAENYLSTHSSGRLGSKCVNAPLEGYYVAVVKKSDVGITWKS LQGKKSCHTAVGTSEGWNVPMGLIYNQ  
 TGSCKFDAFFSRSCAPGSDPDSPLCALCVGNNPAHMCAANNAEGYHGSSGALRCLVEKGDVAFMKHPTV  
 LQNTDGNPEPWAKGLKHEDFELLCLDGTRKPVTEAQSCHLARVPNRAVFSRKDKADFVRRILFNQQELF  
 GRNGFEYMMFQMFESSAKDLLFSDDECLSNLQNKTTYKTYLGPQYL TLMDFRQCLSSELLDACTFHKY

TRTRPLE - GFP Tag - V

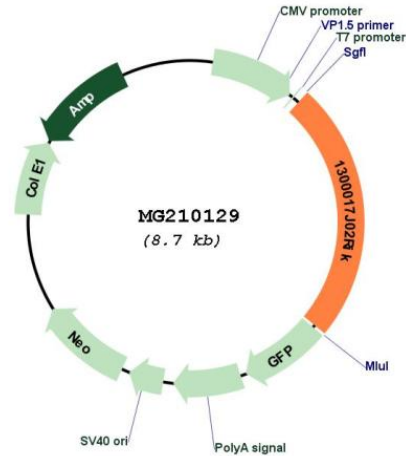
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



**Plasmid Map:**


**ACCN:** NM\_027918

**ORF Size:** 2100 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.

**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:**

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\\_027918.1](#), [NP\\_082194.1](#)

**RefSeq Size:** 2277 bp

RefSeq ORF: 2103 bp  
Locus ID: 71775  
UniProt ID: [Q9DBD0](#)  
Cytogenetics: 9 F1  
Gene Summary: Inhibitor for carbonic anhydrase 2 (CA2). Does not bind iron ions.[UniProtKB/Swiss-Prot Function]