

Product datasheet for **MG220873**

5330417C22Rik (NM_001033304) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	5330417C22Rik (NM_001033304) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	5330417C22Rik
Synonyms:	BB183350
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG220873 representing NM_001033304
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGGACCAGTCTGCAAGCCCTGCGGGAGGGCCGCTACTCCCTCGGCACTGGCATCCGATTTGATG
 AGTGGGATGAGCTACCTCACGGCTTTGCCAGCCTCTCGGCAACTTGGAGGTCGATGACAGCATCTCGGA
 GTCCTACTGAGAACTGCACTTCGTCCAAGTGGGTTCCCGGGGAGACTACATCGCCTCCAACACAGATGAA
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 CGGACTCCAGCATCATCTTTGAATTTTTGTCCAGAATGACCAGTGCCAGCCCAGTGCTGATGACTCCAG
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 CTCCAAGAGGACTCCTGATGGATTTGACTCGGTGCCGTGAAGACGTCTCAGGAGGCCAGACATGGAC
 ATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG220873 representing NM_001033304
 Red=Cloning site Green=Tags(s)

MKDQSCKPCAEGRYSLGTGIRFDEWDELPHGFASLSANLEVDDSI SESTENCTSSKWWPRGDYIASNTDE
 CTATLMYAVNLKQSGTVNFEYYPDSSII FEFVQNDQCQPSADDSRWMTTEKGWEFHSVELNRGNVNL
 YWRRTAFSVWSKYSKPVLRNIAITGVAYTSECFPCPGTYAAKQGSFPCKLCPANYYSNKGETSCHPCD
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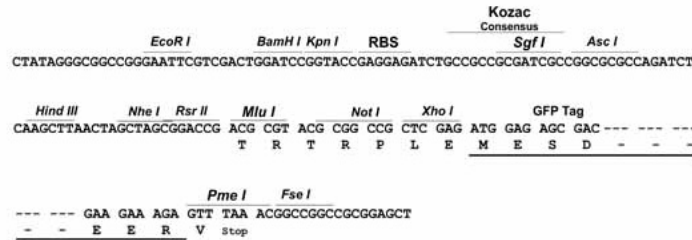
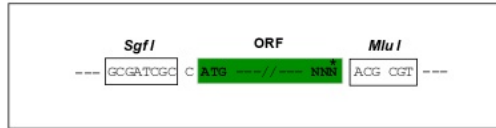
TRTRPLE - GFP Tag - V

Restriction Sites:

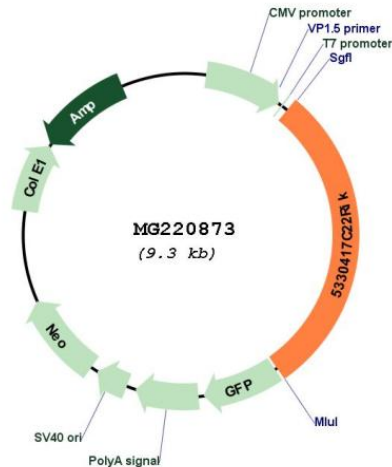
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001033304

ORF Size: 2733 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_001033304.2](#)

RefSeq Size: 3326 bp

RefSeq ORF: 2736 bp

Locus ID: 229722

UniProt ID: [A2AFS3](#)

Cytogenetics: 3 F3

Gene Summary: May protect cells from cell death by inducing cytosolic vacuolization and upregulating the autophagy pathway.[UniProtKB/Swiss-Prot Function]