

## Product datasheet for **RG208223**

### LYRM7 (NM\_181705) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** LYRM7 (NM\_181705) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** LYRM7  
**Synonyms:** C5orf31; MC3DN8; MZM1L  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG208223 representing NM\_181705  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGACGGGCAGTCAAGGTTTTACAGCTCTTTAAACACTGCACAGGACCAGACAACAAGTTTTTAAAA  
ATGATGCCAGAGCATTAGAAGCAGCCAGAATAAGATAAATGAAGAATTCAAAAATAATAAAGTAAAC  
TTCTTCTAAGAAAATAGAAGAGCTAATGAAAATAGGTTCTGATATTGAATTATTACTCAGAACATCTGT  
ATACAAGTATTCACACAGACCACAATACTGAAACTGGTCCCTAGGAAAGACCTCTTGTAGAAAATG  
TGCCATATTGTGATGCACCAACTCAGAAGCAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG208223 representing NM\_181705  
Red=Cloning site Green=Tags(s)  
MGRAVKVLQLFKTLHRTRQQVFKNDARALEAARIKINEEFKNNKSETSSKKIEELMKIGSDIELLLRTSV  
IQGIHTDHNTLKLVPKDLLVENVPYCDAPTQKQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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Cloning Scheme:



ACCN: NM\_181705

ORF Size: 312 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\\_181705.1](#), [NP\\_859056.1](#)

RefSeq Size: 6213 bp

RefSeq ORF: 315 bp

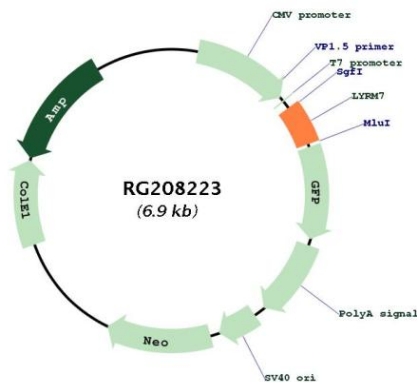
Locus ID: 90624

UniProt ID: [Q5U5X0](#)

Cytogenetics: 5q23.3-q31.1

**Gene Summary:** Inner mitochondrial membrane complex III (CIII) is the main enzyme complex in the mitochondrial respiratory chain, and Rieske Fe-S protein (UQCRFS1) is the last catalytic subunit added to the complex. The protein encoded by this gene is a nuclear-encoded mitochondrial matrix protein that stabilizes UQCRFS1 and chaperones it to the CIII complex. Defects in this gene are a cause of mitochondrial complex III deficiency, nuclear type 8. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jun 2014]

**Product images:**



Circular map for RG208223