

## **Product datasheet for RG208249**

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

### Glutaredoxin 5 (GLRX5) (NM\_016417) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Glutaredoxin 5 (GLRX5) (NM\_016417) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: Glutaredoxin 5

**Synonyms:** C14orf87; FLB4739; GRX5; PR01238; PRO1238; PRSA; SIDBA3; SPAHGC

Mammalian Cell

Selection:

Neomycin

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG208249 representing NM\_016417

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CTGGGGATCCACTCCGCCCTTTTAGATGAAAAGAAAGAACCAAGACTCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208249 representing NM\_016417

Red=Cloning site Green=Tags(s)

 ${\tt MSGSLGRAAAALLRWGRGAGGGGLWGPGVRAAGSGAGGGGSAEQLDALVKKDKVVVFLKGTPEQPQCGFS} \\ {\tt NAVVQILRLHGVRDYAAYNVLDDPELRQGIKDYSNWPTIPQVYLNGEFVGGCDILLQMHQNGDLVEELKK} \\ {\tt NAVVQILRLHGVRDYAAYNVLDPPELRQGIKDYSNWPTIPQVYLNGEFVGGCDILLQMHQNGDLVEELK \\ {\tt NAVVQILRLHGVRDYAAYNVLDPPELRQGIKDYSNWPTIPQVYLNGEFVGGCDILLQMHQNGT \\ {\tt NAVVQILRLHGVRDYAAYNVLDPPELRQGIKDYSNWPTIPQVYLNGEFVGGCDILLQMHQNGT \\ {\tt NAVVQILRLHGVRDYAAYNVLDPPERMAANT \\ {\tt NAVVQILRLHGVRDYAANT \\ {\tt NAVVQILRLHGVRDYAANT \\ {\tt NAVVQILRLHGVRDYAANT \\ {\tt NAVVQILRLHGVRDYAANT \\ {\tt NAVVQILRLHGVRDYAAT \\ {\tt NAVVQILRLHGVRDYAA \\ {\tt NAVVQI$ 

LGIHSALLDEKKDQDSK

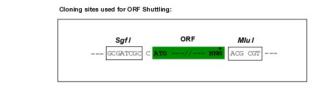
TRTRPLE - GFP Tag - V

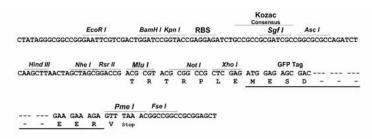
Restriction Sites: Sgfl-Mlul





**Cloning Scheme:** 





**ACCN:** NM\_016417

ORF Size: 471 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts

of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:customercom">customercom</a> or by

calling 301.340.3188 option 3 for pricing and delivery.

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:** <u>NM 016417.3</u>

**RefSeq Size:** 1182 bp **RefSeq ORF:** 474 bp

 Locus ID:
 51218

 UniProt ID:
 Q86SX6

 Cytogenetics:
 14q32.13

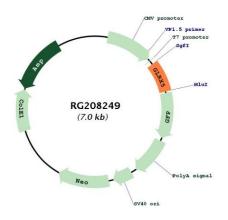
**Gene Summary:** This gene encodes a mitochondrial protein, which is evolutionarily conserved. It is involved in

the biogenesis of iron-sulfur clusters, which are required for normal iron homeostasis.

Mutations in this gene are associated with autosomal recessive pyridoxine-refractory

sideroblastic anemia. [provided by RefSeq, May 2010]

# **Product images:**



Circular map for RG208249