

Product datasheet for **MG201105**

Glrx5 (NM_028419) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Glrx5 (NM_028419) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Glrx5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201105 representing NM_028419
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCGCGTCCCTGAGCCGGGCGGGCGGCTCTGCTGCGCTGGGGGCGAAGCGCTGGTGGCGGTGGCC
 TGCCCGGAGCCGGCGTGC GGCGGCGAGCTCGGGCGGCCAGGCGGAGCAGCTGGACGCGCTGGTGAAGAA
 GGACAAGTGGTGGTGTTCCTCAAGGGGACGCCGAGCAGCCCCAGTGC GGCTTCAGCAACGCCGTGGTG
 CAGATTCTGCGGCTGCACGGTGTTCGCGACTATGCGGCCTACAACGTGCTGGACGACCCGGAGCTGAGGC
 AAGGTATTAAGACTACTCCAACCTGGCCAACCATCCCGCAAGTGTACCTCAACGGCGAGTTTGTGGGGGG
 CTGTGACATCCTTCTGCAGATGCATCAGAATGGGGACCTAGTGAAGAAGCTGAAAAGCTGGGTATCCGC
 TCTGCCCTGTTAGATGAGAAGGACCAAGACTCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201105 representing NM_028419
 Red=Cloning site Green=Tags(s)

MSASLSRAAAAALLRWGRSAGGGGLPGAGVRAASSGGQAEQLDALVKKDKVVVFLKGTPEQPQCGFSNAVV
 QILRLHGVRDYAAYNVLDPELRQGIKDYSNWPTIPQVYLNGEFVGGCDILLQMHQNGDLVEELKKGIR
 SALVDEKDQDSK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



[View online »](#)

Cloning Scheme:



ACCN: NM_028419

ORF Size: 456 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_028419.3](#)

RefSeq Size: 930 bp

RefSeq ORF: 459 bp

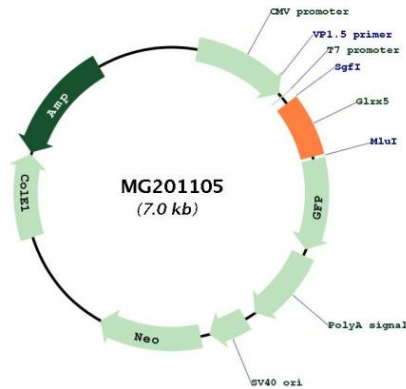
Locus ID: 73046

UniProt ID: [Q80Y14](#)

Cytogenetics: 12 E

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 the human gene are associated with autosomal recessive pyridoxine-refractory sideroblastic anemia. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MG201105