

## Product datasheet for **RC200963**

### GRHPR (NM\_012203) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GRHPR (NM_012203) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GRHPR
Synonyms:	GLXR; GLYD; PH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200963 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGACCGGTGCGACTCATGAAGGTGTTCTGTCACCCGCAGGATACCCGCCGAGGGTAGGGTCGCGCTCG  
CCCGGGCGGCAGACTGTGAGGTGGAGCAGTGGGACTCGGATGAGCCCATCCCTGCCAAGGAGCTAGAGCG  
AGGTGTGGCGGGGCCACGGCCTGCTCTGCTCCTCTCCGACCACGTGGACAAGAGGATCCTGGATGCT  
GCAGGGGCCAATCTCAAAGTCATCAGCACCATGTCTGTGGGCATCGACCCTGGCTTTGGATGAAATCA  
AGAAGCGTGGGATCCGAGTTGGCTACACCCAGATGTCCTGACAGATACCACCGCCAACCTCGCAGTCTC  
CCTGCTACTTACCACCTGCCGCCGTTGCCGAGGCCATCGAGGAAGTGAAGAATGGTGGCTGGACCTCG  
TGAAGGCCCTCTGGCTGTGTGGCTATGGACTCACGCAGAGCACTGTCGGCATCATCGGGCTGGGGCGCA  
TAGGCCAGGCCATTGCTCGGCGTCTGAAACCATTCGGTGTCCAGAGATTTCTGTACACAGGGCGCCAGCC  
CAGGCCTGAGGAAGCAGCGGAATTCAGGCAGAGTTTGTGTCTACCCCTGAGCTGGCTGCCCAATCTGAT  
TTCATCGTCGTGGCCTGCTCCTAACACCTGCAACCGAGGGACTCTGCAACAAGGACTTCTTCCAGAAGA  
TGAAGGAAACAGCTGTGTTTCATCAACATCAGCAGGGGCGACGTCGTAACACAGGACGACCTGTACCAGGC  
CTTGGCCAGTGGTAAGATTGCAGCTGCTGGACTGGATGTGACGAGCCAGAACCCTGCCTACAAACCAC  
CCTCTCCTGACCCTGAAGAACTGTGATTCTGCCACATTGGCAGTGCCACCCACAGAACCAGCAACA  
CCATGTCCTTGTGGCAGCTAACAACTTGCTGGCTGGCCTGAGAGGGGAGCCGATGCCTAGTGAACCTCAA  
GCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_012203.1](#), [NP\\_036335.1](#)

**RefSeq Size:** 1235 bp

**RefSeq ORF:** 987 bp

**Locus ID:** 9380

**UniProt ID:** [Q9UBQ7](#)

**Cytogenetics:** 9p13.2

**Domains:** 2-Hacid\_DH, 2-Hacid\_DH\_C

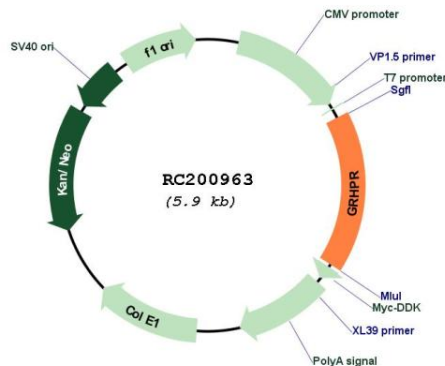
**Protein Families:** Druggable Genome

**Protein Pathways:** Glyoxylate and dicarboxylate metabolism, Metabolic pathways, Pyruvate metabolism

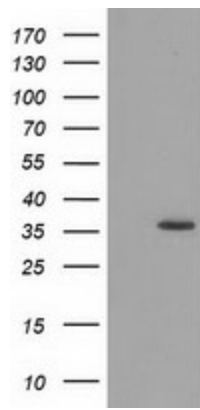
**MW:** 35.7 kDa

**Gene Summary:** This gene encodes an enzyme with hydroxypyruvate reductase, glyoxylate reductase, and D-glycerate dehydrogenase enzymatic activities. The enzyme has widespread tissue expression and has a role in metabolism. Type II hyperoxaluria is caused by mutations in this gene. [provided by RefSeq, Jul 2008]

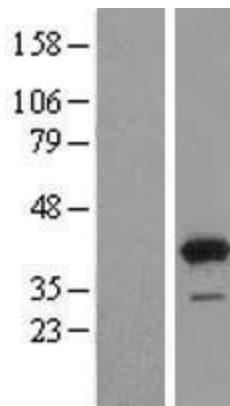
### Product images:



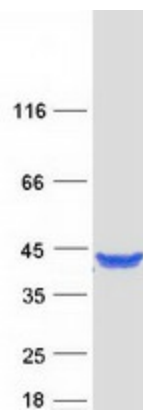
Circular map for RC200963



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GRHPR (Cat# RC200963, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GRHPR antibody (Cat# [TA502091]). Positive lysates [LY415912] (100ug) and [LC415912] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY415912]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200963 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GRHPR protein (Cat# [TP300963]). The protein was produced from HEK293T cells transfected with GRHPR cDNA clone (Cat# RC200963) using MegaTran 2.0 (Cat# [TT210002]).