

Product datasheet for RC213752

GRXCR2 (NM_001080516) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRXCR2 (NM_001080516) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GRXCR2
Synonyms:	DFNB101
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213752 representing NM_001080516 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGACCCTGAGAAAAAGCTGAATCAGAAGAGTGATGGCAAACCCCGAAAGTACGATTTAAAATCT
CCTCCTCTACAGCGTCGAGTATTGAAGCAGTCTTTGAGGATGGCAGGAATTAGAGTCACCAAAGGA
GGAATACCCTCACAGTTTCTGCAAGAGTCTCTTGAACAATGGATGGTGTATGGGTCTGGGGAAGTC
CCCAGGCCCCAGATGTGCTCCCCTAAGCTGACTGCTCAGAGGATCAGTGTGTTAGAGAGGGTAATGCCT
ACACCTTGGCAGGCGCCAGCCTCGGTTCAACGATTACAAGGCGAATGACCATAAGCCCCCTACCTATTAT
AGATTTTGAAAAGATAATCATCTACACTAATAACCTGAAAATCATTCGAACCCCAATGGACAAGAGAGAT
TTTGTGAGGAAAATTCTCCAGAAGGAAGAGGAGGCTGAGGAAGAGTCTCTGATGAACAAAGAAAGACT
ATGGAGGCAGGGACCAGCACGATAGACCTTTGGTGGAGGCAGAAAGCACATTACCCCAAACCGGTATAC
ACAGGAAGGGGATATCCCGAGGACAGCTGTTTCACTGCCGAGGGTCGGGCAGTGCCACCTGCTCTCTG
TGCCACGGCAGCAAGTTCTCGATGCTGGCCAACAGATTTAAGGAGTCCTATCGGGCCCTGAGGTGCCCTG
CCTGCAATGAGAATGGCCTACAGCCTTGCCAGATTTGCAATCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC213752 representing NM_001080516
Red=Cloning site Green=Tags(s)

MEDPEKKNLQKSDGKPRKVRFKISSYSGRVLKQVFEDGQELSPKEEYPHSFLQESLETMDGVYGSGEV
 PRPQMCSPKLTAQRISVFREGNAYTLGGQPRFNDYKANDHKPLPIIDFGKIIIIYTNLKIIRTPMDKRD
 FVRKILQKEEEAEEESLMNKEESYGGRDQHDRPLVEAESTLPQNRYTQEGDIPEDSCFHCRGSGSATCSL
 CHGSKFSMLANRFKESYRALRCPACNENGLQPCQICNQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8029_e06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001080516

ORF Size: 744 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_001080516.1](#), [NP_001073985.1](#)

RefSeq Size: 747 bp

RefSeq ORF: 747 bp

Locus ID: 643226

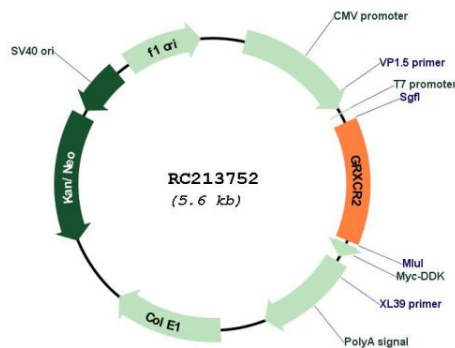
UniProt ID: [A6NFK2](#)

Cytogenetics: 5q32

MW: 28.1 kDa

Gene Summary: This gene encodes a protein containing a glutaredoxin domain, which functions in protein S-glutathionylation. A mutation in this gene was found in a family with autosomal recessive nonsyndromic sensorineural deafness-101. [provided by RefSeq, Jun 2014]

Product images:



Circular map for RC213752