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

Product datasheet for RC209233

GPR172B (SLC52A1) (NM_017986) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR172B (SLC52A1) (NM_017986) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR172B
Synonyms:	GPCR42; GPR172B; hRFT1; huPAR-2; PAR2; RBFVD; RFT1; RFVT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC209233 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGCACCCACGCTGGGCCGTCTGGTGCTGACCCACCTGCTGGTGGCCCTTTTTGGCATGGGCTCCT
GGGCTGCTGTGAACGGGATCTGGGTGGAGCTGCCTGTGGTGGTAAAAGACCTTCCAGAGGGTTGGAGCCT
CCCCTCATACCTCTCTGTGGTTGTGGCGCTGGGAAACCTGGGTCTGCTGGTGGTGACCCTGTGGAGGCGG
CTGGCCCCGGGCAAGGGCGAGCAGGTCCCCATCCAGGTGGTACAGGTGCTGAGTGTAGTGGGCACAGCCC
TGCTGGCCCCTCTGTGGCACCACGTGGCCCCAGTGGCAGGGCAGCTCCACTCTGTGGCCTTCCTAACTCT
GGCCTTGGTGTTGGCAATGGCCTGTTGTACCTCTAATGTCACTTTCCTGCCCTTCCTGAGCCACCTGCCA
CCTCCTTTCTTACGGTCTTTCTTCCTGGGTCAGGGTCTCAGTGCCCTACTCCCCTGTGTGCTGGCCCTAG
TGCAAGGTGTGGGCCGCCTCGAGTGCCCACCAGCGCCCACCAATGGCACCTCTGGGCCTCCCCTCGACTT
CCCTGAGCGTTTTCCTGCCAGCACCTTCTTCTGGGCACTGACTGCCCTTCTGGTCACTTCAGCTGCCGCC
TTCCGGGGTCTCCTGTTGCTGTTGCCATCACTACCCTCTGTAACCACAGGGGGCTCAGGGCCTGAACTTC
AACTGGGATCCCCAGGAGCAGAGGAGGAAGAGAAGGAGGAAGAAGAGGCTTTGCCATTGCAGGAGCCACC
GAGCCAGGCAGCAGGCACCATCCCTGGCCCAGACCCTGAGGTCCATCAGCTGTTCTCAGCCCATGGTGCC
TTCCTGCTGGGCCTGATGGCCTTCACCAGTGCCGTGACCAATGGCGTGCTGCCTTCTGTGCAGAGCTTTT
CCTGTTTGCCCTATGGGCGCCTGGCCTACCACCTGGCTGTGGTGCTGGGCAGTGCCGCCAACCCCCTTGC
CTGCTTCCTGGCCATGGGCGTGCTGTGCAGGTCCCTGGCAGGGCTGGTTGGTCTTTCTCTGCTGGGCATG
CTCTTTGGGGCCTACCTGATGGCACTGGCAATCCTGAGCCCCTGCCCACCCCTGGTGGGCACCACTGCAG
GGGTGGTCCTTGTGGTGCTGTCGTGGGTGCTGTGTCTGTGTGTGTTCTCATATGTGAAGGTGGCTGCAAG
CTCCCTGCTGCATGGTGGGGGTCGGCCGGCATTGCTGGCAGCTGGTGTGGCCATCCAAGTGGGCTCCCTG
CTTGGTGCCGGTGCCATGTTCCCTCCCACCAGCATCTACCACGTGTTTCAAAGCAGAAAGGACTGTGTAG
ACCCCTGTGGCCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209233 protein sequence
Red=Cloning site Green=Tags(s)

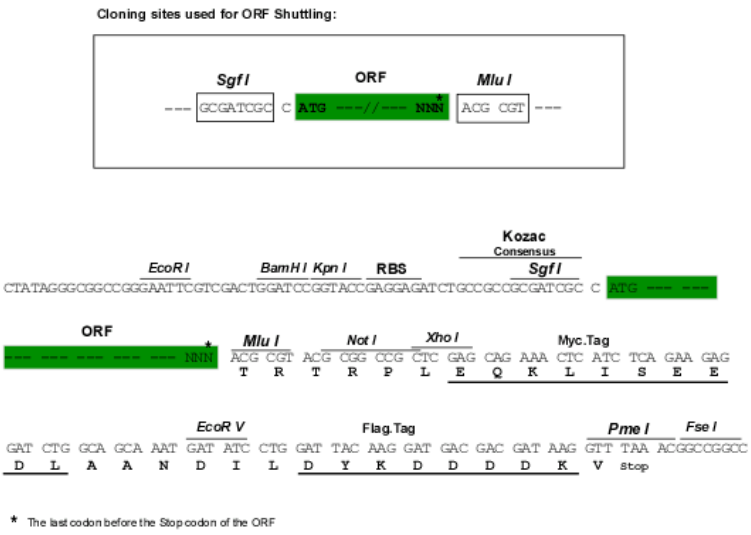
MAAPTLGRLVLTHLLVALFGMGSWAAVNGIWVELPVVVKDLPEGWSLPSYLSVVVALGNLGLLVVTLWRR
LAPGKGEQVPIQVVQVLSVVGTALLAPLWHHVAPVAGQLHSVAFLTLALVLAMACCTSNVTFLPFLSHLP
PPFLRSFFLGQGLSALLPCVLALVQGVGRLECPPAPTNGTSGPPLDFPERFPASTFFWALTALLVTSAAA
FRGLLLLLPSLPSVTTGGSGPELQLGSPGAEEEEKEEEEALPLQEPPSQAAGTIPGPDPEVHQLFSAHGA
FLLGLMAFTSAVTNGVLPSVQSFSCLPYGRLAYHLAVVLGSAANPLACFLAMGVLCRSLAGLVGLSLLGM
LFGAYLMALAILSPCPPLVGTTAGVVLVVLSWVLCLCVFSYVKVAASSLLHGGGRPALLAAGVAIQVGSL
LGAGAMFPPTSIYHVFQSRKDCVDPCGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6512_h06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017986

ORF Size: 1344 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 custsupport@origene.com 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

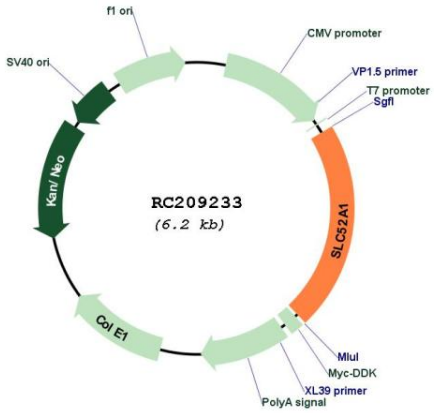
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

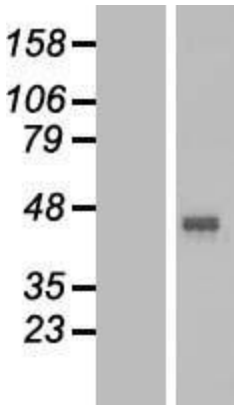
Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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:	NM_017986.2, NP_060456.2
RefSeq Size:	2395 bp
RefSeq ORF:	1347 bp
Locus ID:	55065
UniProt ID:	Q9NWF4
Cytogenetics:	17p13.2
Protein Families:	Druggable Genome, GPCR, Transmembrane
MW:	46.4 kDa
Gene Summary:	Biological redox reactions require electron donors and acceptor. Vitamin B2 is the source for the flavin in flavin adenine dinucleotide (FAD) and flavin mononucleotide (FMN) which are common redox reagents. This gene encodes a member of the riboflavin (vitamin B2) transporter family. Haploinsufficiency of this protein can cause maternal riboflavin deficiency. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jan 2013]

Product images:



Circular map for RC209233



Western blot validation of overexpression lysate (Cat# [LY426204]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225737] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).