

Product datasheet for **RG225737**

GPR172B (SLC52A1) (NM_001104577) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR172B (SLC52A1) (NM_001104577) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR172B
Synonyms:	GPCR42; GPR172B; hRFT1; huPAR-2; PAR2; RBFVD; RFT1; RFVT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG225737 representing NM_001104577
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGCACCCACGCTGGGCCGTCTGGTCTGACCCACCTGCTGGTGGCCCTTTTGGCATGGGCTCCT
 GGGCTGCTGTGAACGGGATCTGGGTGGAGCTGCCTGTGGTGGTAAAAGACCTTCCAGAGGGTTGGAGCCT
 CCCCTCATACCTCTCTGTGGTTGTGGCGCTGGGAAACCTGGGTCTGCTGGTGGTACCCTGTGGAGGCAG
 CTGGCCCCGGCAAGGGCGAGCAGGTCCCCATCCAGGTGGTACAGGTGCTGAGTGTAGTGGGCACAGCCC
 TGCTGGCCCCCTGTGGCACCACGTGGCCCCAGTGGCAGGGCAGCTCCACTCTGTGGCCTTCTAACTCT
 GGCCTTGGTGTGGCAATGGCCTGTTGTACCTCTAATGTCACCTTCTGCCCTTCTGAGCCACCTGCCA
 CCTCCTTCTTACGGTCTTCTTCTGGGTGAGGTCTCAGTGCCTACTCCCCTGTGTGCTGGCCCTAG
 TGCAAGGTGTGGCCGCCTCGAGTGCCACCAGCGCCACCAATGGCACCTCTGGCCTCCCCTCGACTT
 CCCTGAGCGTTTTCTGCCAGCACCTTCTTCTGGGCACTGACTGCCCTTCTGGTCACTTCAGCTGCCGC
 TTCCGGGGTCTCCTGTTGCTGTTGCCATCACTACCCTCTGTAACCACAGGGGGCTCAGGGCTGAATTC
 AACTGGGATCCCCAGGAGCAGAGGAGGAAGAGAAGGAGGAAGAAGAGGCTTTGCCATTGCAGGAGCCACC
 GAGCCAGGCAGCAGGCACCATCCCTGGCCAGACCCTGAGGCCCATCAGCTGTTCTCAGCCCATGGTGCC
 TTCTGCTGGGCCTGATGGCCTTACCAGTGCCGTGACCAATGGCGTGTGCCTTCTGTGCAGAGCTTTT
 CCTGTTTGGCCTATGGGCGCCTGGCCTACCACCTGGCTGTGGTGTGGCAGTGCCGCCAACCCCTTGC
 CTGCTTCTGGCCATGGGCGTGTGTGCAGGTCCCTGGCAGGGCTGGTGGTCTTCTCTGCTGGGCATG
 CTCTTTGGGCTACCTGATGGCACTGGCAATCCTGAGCCCTGCCACCCTGGTGGGCACCACTGCAG
 GGGTGGTCTTGTGGTGTGCTGCTGGTGTGCTGTGTGTCTCATATGTGAAGGTGGCTGCAAG
 CTCCTGCTGCATGGTGGGGTGGCCGCGCATTGCTGGCAGCTGGTGTGGCCATCCAAGTGGGCTCCCTG
 CTGGTGGCGGTGCCATGTTCCCTCCACCAGCATCTACCACGTGTTTCAAAGCAGAAAGGACTGTGTAG
 ACCCTGTGGCCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

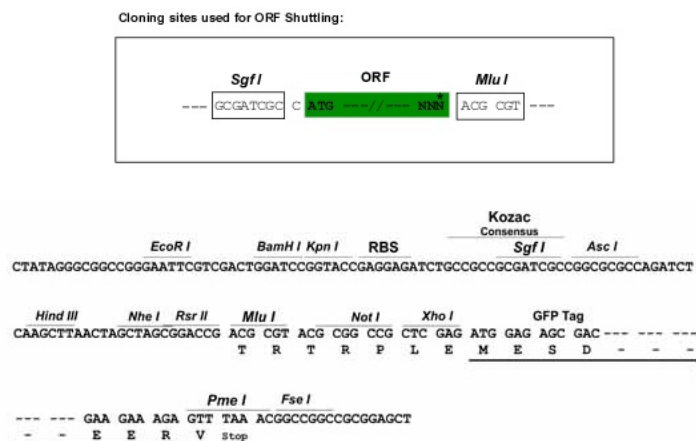
>RG225737 representing NM_001104577
 Red=Cloning site Green=Tags(s)

MAAPT LGRLVLTHLLVALFGMGSWA AVNGI WVLPV VVKDLPEGW SLP SYL SVVVALGNL GLLV VTLWRQ
 LAPGKGEQVPIQVVQVLSVVG TALLAPLWHHVAPVAGQLHSVAF LTLALV LAMACCTSNVTF LPFLSHLP
 PPFLRSFFL GQGLSALLPCV LALVQGVGRLECPPAPTNGTSGPPLDFPERFPASTFFWALTALLVTSAAA
 FRGLLLLLPSLPSVTTGSGPELQLGSPGAE EEEEEEEALPLQEPPSQAAGTIPGPDPEAHQLFSAHGA
 FLLGLMAFTSAVTNGVLP SVQSF SCLPYGRLAYHLAVVLGSAANPLACFLAMGVLCRSLAGLVGLSLLGM
 LFGAYLMALAILSPCPPLVGT TAGVVLV LSWVLC LCVFSYVKVAASSLLHGGGRPALLAAGVAIQVGS
 LGAGAMFPPTSIYHVFQSRKDCVPCGP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001104577

ORF Size: 1344 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_001104577.1](#), [NP_001098047.1](#)

RefSeq Size: 2429 bp

RefSeq ORF: 1347 bp

Locus ID: 55065

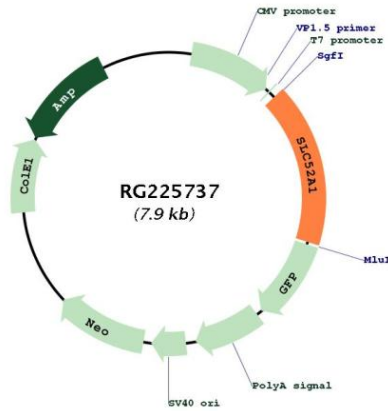
UniProt ID: [Q9NWF4](#)

Cytogenetics: 17p13.2

Protein Families: Druggable Genome, GPCR, Transmembrane

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 RG225737