

Product datasheet for **RG202512**

GPR172A (SLC52A2) (NM_024531) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR172A (SLC52A2) (NM_024531) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR172A
Synonyms:	BVLS2; D15Erttd747e; GPCR41; GPR172A; hRFT3; PAR1; RFT3; RFVT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202512 representing NM_024531
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGCACCCACGCCCGCCGTCGGTGTGACCCACCTGCTGGTGGCTCTCTTCGGCATGGGCTCCT
 GGGCTGCGGTCAATGGGATCTGGGTGGAGCTACCTGTGGTGGTCAAAGAGCTTCCAGAGGGTTGGAGCCT
 CCCCTCTTACGTCTCTGTGCTTGTGGCTCTGGGAACCTGGGTCTGCTGGTGGTACCCTCTGGAGGAGG
 CTGGCCCCAGGAAAGGACGAGCAGGTCCCCATCCGGTGGTGCAGGTGCTGGGCATGGTGGGCACAGCCC
 TGCTGGCCTCTCTGTGGCACCATGTGGCCCCAGTGGCAGGACAGTTGCATTCTGTGGCCTTCTTAGCACT
 GGCCTTTGTGCTGGCACTGGCATGCTGTGCCTCGAATGCACTTTCTGCCCTTCTTGGCCACCTGCCA
 CCTCGTCTTACGGTATTCTTCTGGGTCAAGGCCTGAGTGCCTGCTGCCCTGCGTGTGGCCCTAG
 TGCAGGGTGTGGCCGCCTCGAGTGCCCGCCAGCCCCATCAACGGCACCCCTGGCCCCCGCTCGACTT
 CCTTGAGCGTTTTCCCGCCAGCACCTTCTTCTGGGCACTGACTGCCCTTCTGGTTCGCTTACGCTGTGCC
 TTCCAGGGTCTTCTGCTGCTGTTGCCGCCACCACCATCTGTACCCACAGGGGAGTTAGGATCAGGCCTCC
 AGGTGGGAGCCCCAGGAGCAGAGGAAGAGTGGAAAGTCTCACCACTGCAAGAGCCACCAAGCCAGGC
 AGCAGGCACCACCCTGGTCCAGACCCTAAGGCCTATCAGCTTCTATCAGCCCGCAGTGCCTGCCTGCTG
 GGCTGTTGGCCGCCACCAACGCGCTGACCAATGGCGTGTGCCTGCCGTGCAGAGCTTTTCTGCTTAC
 CCTACGGGCGTCTGGCCTACCACCTGGCTGTGGTGTGGGCACTGCTGCCAATCCCTGGCCTGCTTCT
 GGCCATGGGTGTGCTGTGAGGTCTTGGCAGGGCTGGGCGGCCCTCTCTGCTGGGCGTGTCTGTGGG
 GGCTACCTGATGGCGCTGGCAGTCTGAGCCCCTGCCCGCCCTGGTGGGACCTCGGCGGGGGTGGTCC
 TCGTGGTGTGCTGTGGGTGCTGTGCTTGGCGTGTCTCTACGTGAAGGTGGCAGCCAGCTCCCTGCT
 GCATGGCGGGGGCCGCGGCATTGCTGGCAGCCGGCGTGGCCATCCAGGTGGGCTCTCTGCTCGGCCT
 GTTGCTATGTTCCCCCGACCAGCATCTATCACGTGTTCCACAGCAGAAAGGACTGTGCAGACCCTGTG
 ACTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG202512 representing NM_024531
 Red=Cloning site Green=Tags(s)

MAAPTPARPVLTHLLVALFGMGSWAAVNGIWWELPVVVKELPEGWSLPSYVSVLVALGNLGLLVVTLWRR
 LAPGKDEQVPIRVVQVLGMVGTALLASLWHVAPVAGQLHSVAFALAFVLALACCASNVTFLPFLSHLP
 PRFLRSFFLGGLSALLPCVLALVQGVGRLECPPAPINGTPGPPLDFLERFPASTFFWALTALLVASAAA
 FQGLLLLLPPPPSVPTGELGSLQVQVGAEEEEVEESSPLQEPPSQAAGTTPGDPKAYQLLSARSACLL
 GLLAATNALTNGVLPVQSF SCLPYGRLAYHLAVVLGSAANPLACFLAMGVLCRSLAGLGLSLLGVFCG
 GYLMALAVLSPCPPLVGTSAVVVLSWVLC LGVFSYVKAASSLLHGGGRPALLAAGVAIQVGSLLGA
 VAMFPPTSIIYHVFHSRKDCADPCDS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_024531

ORF Size: 1335 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_024531.5](#)

RefSeq Size: 1952 bp

RefSeq ORF: 1338 bp

Locus ID: 79581

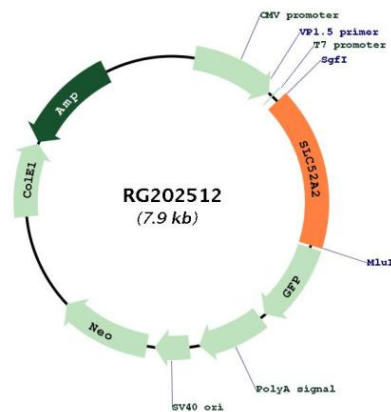
UniProt ID: [Q9HAB3](#)

Cytogenetics: 8q24.3

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: This gene encodes a membrane protein which belongs to the riboflavin transporter family. In humans, riboflavin must be obtained by intestinal absorption because it cannot be synthesized by the body. The water-soluble vitamin riboflavin is processed to the coenzymes flavin mononucleotide (FMN) and flavin adenine dinucleotide (FAD) which then act as intermediaries in many cellular metabolic reactions. Paralogous members of the riboflavin transporter gene family are located on chromosomes 17 and 20. Unlike other members of this family, this gene has higher expression in brain tissue than small intestine. Alternative splicing of this gene results in multiple transcript variants encoding the same protein. Mutations in this gene have been associated with Brown-Vialetto-Van Laere syndrome 2 - an autosomal recessive progressive neurologic disorder characterized by deafness, bulbar dysfunction, and axial and limb hypotonia. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RG202512