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 SC108833

GPR172A (SLC52A2) (NM_024531) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR172A (SLC52A2) (NM_024531) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPR172A
Synonyms:	BVVLS2; D15Ertd747e; GPCR41; GPR172A; hRFT3; PAR1; RFT3; RFVT2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC108833 sequence for NM_024531 edited (data generated by NextGen Sequencing)

ATGGCAGCACCCACGCCCGCCCGTCCGGTGCTGACCCACCTGCTGGTGGCTCTCTTCGGC
ATGGGCTCCTGGGCTGCGGTCAATGGGATCTGGGTGGAGCTACCTGTGGTGGTCAAAGAG
CTTCCAGAGGGTTGGAGCCTCCCCTCTTACGTCTCTGTGCTTGTGGCTCTGGGGAACCTG
GGTCTGCTGGTGGTGACCCTCTGGAGGAGGCTGGCCCCAGGAAAGGACGAGCAGGTCCCC
ATCCGGGTGGTGCAGGTGCTGGGCATGGTGGGCACAGCCCTGCTGGCCTCTCTGTGGCAC
CATGTGGCCCCAGTGGCAGGACAGTTGCATTCTGTGGCCTTCTTAGCACTGGCCTTTGTG
CTGGCACTGGCATGCTGTGCCTCGAATGTCACTTTCCTGCCCTTCTTGAGCCACCTGCCA
CCTCGCTTCTTACGGTCATTCTTCCTGGGTCAAGGCCTGAGTGCCCTGCTGCCCTGCGTG
CTGGCCCTAGTGCAGGGTGTGGGCCGCCTCGAGTGCCCGCCAGCCCCCATCAACGGCACC
CCTGGCCCCCCGCTCGACTTCCTTGAGCGTTTTCCCGCCAGCACCTTCTTCTGGGCACTG
ACTGCCCTTCTGGTCGCTTCAGCTGCTGCCTTCCAGGGTCTTCTGCTGCTGTTGCCGCCA
CCACCATCTGTACCCACAGGGGAGTTAGGATCAGGCCTCCAGGTGGGAGCCCCAGGAGCA
GAGGAAGAGGTGGAAGAGTCCTCACCACTGCAAGAGCCACCAAGCCAGGCAGCAGGCACC
ACCCCTGGTCCAGACCCTAAGGCCTATCAGCTTCTATCAGCCCGCAGTGCCTGCCTGCTG
GGCCTGTTGGCCGCCACCAACGCGCTGACCAATGGCGTGCTGCCTGCCGTGCAGAGCTTT
TCCTGCTTACCCTACGGGCGTCTGGCCTACCACCTGGCTGTGGTGCTGGGCAGTGCTGCC
AATCCCCTGGCCTGCTTCCTGGCCATGGGTGTGCTGTGCAGGTCCTTGGCAGGGCTGGGC
GGCCTCTCTCTGCTGGGCGTGTTCTGTGGGGGCTACCTGATGGCGCTGGCAGTCCTGAGC
CCCTGCCCGCCCCTGGTGGGCACCTCGGCGGGGGTGGTCCTCGTGGTGCTGTCGTGGGTG
CTGTGTCTTGGCGTGTTCTCCTACGTGAAGGTGGCAGCCAGCTCCCTGCTGCATGGCGGG
GGCCGGCCGGCATTGCTGGCAGCCGGCGTGGCCATCCAGGTGGGCTCTCTGCTCGGCGCT
GTTGCTATGTTCCCCCCGACCAGCATCTATCACGTGTTCCACAGCAGAAAGGACTGTGCA
GACCCCTGTGACTCCTGA

Clone variation with respect to NM_024531.3

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024531 unedited
GTGTTAGNATTTATGTATACGACTCACTATAGGGCGGCCGGCGAATCGGCACGAGGGTCC
CTGGGCCGGACGGCGGTGTCCCGGCGTGGCGGGAAGCCGGCACTGGAGCGGGAGCGCACT
GGGCGCGGGACCGGGAGGCGCAGGGACCGGACGGCTCCCGAGTCGCCCACCTGACGGTAC
CGAGAGGGCGGCGCCCCTCCGAGCAGAGCCGTCCCGGCCACTCCCCTGGGATCTGACTTG
GCTCTTGCGGTCGCGGGCACCGTGAAGCCCTGGGGTGTGCGTGGCTCCTCCTGGTAGGCG
CCCTTTCCCGGCGTCCGGCTTGGGGTGGTGGTGGCGTTGACTCCAGCCCCGCCTCTCCCT
GGAGAGGAGGGCTCCACTCGCTCCTTCGGCCTCCTCCCCTGGGGCCGCAGCGACTCGGGC
CGGCTTCCTGCTTCCCTGCCTGCCGGCGGTCCCGCTGGCTAGAAGAAGTCTTCACTTCCC
AGGAGAGCCAAAGCGTGTCTGGCCCTAGGTGGGAAAAGAACTGGCTGTGACCTTTGCCCT
GACCTGGAAGGGCCCAGCCTTGGGCTGAATGGCAGCACCCACGCCCGCCCGTCCGGTGCT
GACCCACCTGCTGGTGGCTCTCTTCGGCATGGGCTCCTGTGCTGCGGTCAATGGGATCTG
GGTGGAGCTACCTGTGGTGGTCAAAGAGCTTCCAGAGGGTTGGAGCCTCCCCTCTTACGT
CTCTGTGCTTGTGGCTCTGGGGAACCTGCGTCTGCTTGTGGTGACCCTCTGGAGGTAGCT
TGCCCCCAGGAAAGGACGAGCAGGTCCCCATCCGGGTGGTGCAGGTGCCTGGCCATGTTG
GGCACACGCCTTGCTGGCCCTCTTTGTGGCACCATGTGGCGCCAGTGGCAGGACAGTTGC
ATTCTGTGGCCTTTTTAAACTGGGCTTTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024531 unedited
TTATGGACCCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTAAATACAAAT
GTTTTATTACGCAAACCACATGTAGGTCCCAGGCTCAGGGGCTTACCCTACAGCCCCCAC
TGGTCCCTGGCTCCAAGCCTGCTCCTTGCCCTTGCCCACCCTGGAAAGCCAGGATCTCCT
ATGGAGTGTGTAGGTGTCCACGAGTGTACCGGTGTGCGGGCCTCCTGGGCTGCAGGCACT
CAGGCATGGTGGCAGCATTGAGGGAAAGACAGGTGTTGGGGAGCGGGGTCCCCACCTGCC
CAGGCTCAGGAGTCACAGGGGTCTGCACAGTCCTTTCTGCTGTGGAACACGTGATAGATG
CTGGTCGGGGGGAACATAGCAACAGCGCCGAGCAGAGAGCCCACCTGGATGGCCACGCCG
GCTGCCAGCAATGCCGGCCGGCCCCCGCCATGCAGCAGGGAGCTGGCTGCCACCTTCACG
TAGGAGAACACGCCAAGACACAGCACCCACGACAGCACCACGAGGACCACCCNCGCCGAG
GTGCCCACCAGGGGCGGGCAGGGGCTCANGACTGCCAGCGCCATCAGGTAGCCCCCACAG
AACACGCCCAGCAGAGAGAGGGCCGCCAGCCCTGCCAAGGACCTGCACAGCACACCCATG
GCCAGGAAGCAGGCCCAGGGGATTGGCAGCACTGGCCAGCACCACAGCCAGGTGGTAGGC
CANACGCCCGTAGGTTAAGCAGGAAAAGCTCTGCACGGGAAGCAACACGCCATTGGTCAG
CGCGGTGGTGGCGGCCCACAGGCCCAACAAGCAGGGCCTGCGGGCTGATAAAAACTGATA
GGCCCTAAGGGCTGGACCAAGGGGGGGGCCTGCTGCCCTGCTGGGGGGTCTTGCATGGTG
AAGACTTTTCCACCTTTTCTTTGTTCTGGGGCTCCACCTGAAGGCTGATCCAT

Restriction Sites: NotI-NotI

ACCN: NM_024531

Insert Size: 2170 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_024531.3, NP_078807.1
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] Transcript Variant: This variant (1) encodes isoform 1. Variants 1, 2, 3, 5, 6 and 7 encode the same isoform (1).