

Product datasheet for **RG234120**

GPRI72A (SLC52A2) (NM_001253816) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	GPRI72A
Synonyms:	BVVLS2; D15Ert747e; GPCR4I; GPRI72A; hRFT3; PARI; RFT3; RFVT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >RG234120 representing NM_001253816
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCAGCACCCACGCCGCCCGTCCGGTGCTGACCCACCTGCTGGTGGCTCTCTTCGGCATGGGCTCCT
 GGGCTGCGGTCAATGGGATCTGGGTGGAGCTACCTGTGGTGGTCAAAGAGCTTCCAGAGGGTTGGAGCCT
 CCCCTCTTACGCTCTCTGTGCTTGTGGCTCTGGGGAACCTGGGTCTGCTGGTGGTGACCTCTGGAGGAGG
 CTGGCCCCAGGAAAGGACGAGCAGGTCCCCATCCGGGTGGTGCAGGTGCTGGGCATGGTGGGCACAGCCC
 TGCTGGCCTCTCTGTGGCACCATGTGGCCCCAGTGGCAGGACAGTTGCATTCTGTGGCCTTCTTAGCCT
 GGCCTTTGTGCTGGCACTGGCATGCTGTGCCTCGAATGTCATTTCTGCCCTTCTTGAGCCACCTGCCA
 CCTCGCTTCTTACGGTCATTCTTCTGGGTCAAGGCCTGAGTGCCTGCTGCCCTGCGTGTGGCCCTAG
 TGCAGGGTGTGGGCCGCTCGAGTCCCCGCCAGCCCCATCAACGGCACCCCTGGCCCCCGCTCGACTT
 CCTTGAGCGTTTTCCGCCAGCACCTTCTTCTGGGCACTGACTGCCCTTCTGGTCTGCTTCACTGCTGCC
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 CCTACGGGCGTCTGGCCTACCACCTGGCTGTGGTGTGGGCACTGCTGCCAATCCCCTGGCCTGCTTCT
 GGCCATGGGTGTGCTGTGCAGGTCTTGGCAGGGCTGGGCGGCTCTCTGCTGGGCGTGTCTGTGGG
 GGCTACCTGATGGCGTGGCAGTCTGAGCCCCTGCCCGCCCTGGTGGGCACCTCGGCGGGGGTGGTCC
 TCGTGGTGTGCTGGGTGCTGTGCTTGGCGTGTCTCTACGTGAAGGTGGCAGCCAGCTCCCTGCT
 GCATGGCGGGGGCCGGCCGGCATTGCTGGCAGCCGGCTGGCCATCCAGGTGGGCTCTCTGCTCGGCGCT
 GTTGCTATGTTCCCCCGACCAGCATCTATCACGTGTTCCACAGCAGAAAGGACTGTGCAGACCCCTGTG
 ACTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

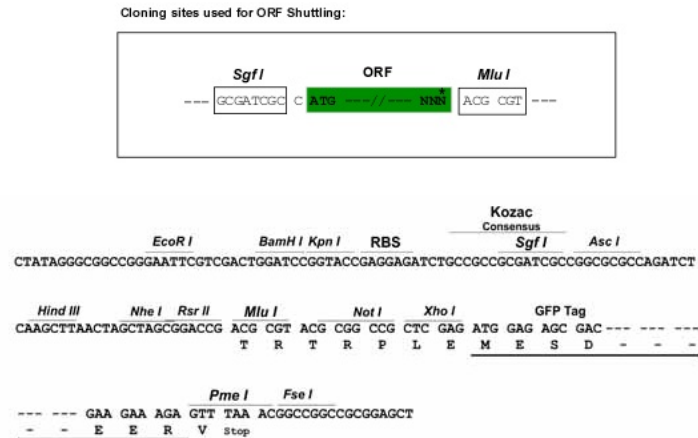
Protein Sequence: >RG234120 representing NM_001253816
 Red=Cloning site Green=Tags(s)

MAAPTARPVLTHLLVALFGMGSWAAVNGIWWELPVVVKELPEGWSLPSYVSVLVALGNLGLLVTLWRR
 LAPGKDEQVPIRVVQVLGMVGTALLASLWHHVPVAGQLHSVAFLALAFVLALACCASNVTFLPFLSHLP
 PRFLRSFFLGQGLSALLPCVLALVQGVGRLECPPAPINGTPGPPLDFLERFPASTFFWALTALLVASAAA
 FQGLLLLLPPPPSVPTGELGSLQVGAPGAEEVEESSPLQEPPSQAAGTTPGPDPKAYQLLSARSACLL
 GLLAATNALTNGVLPVQSFSLPYGRLAYHLAVVLGSAANPLACFLAMGVLCRSLAGLGLSLLGVFCG
 GYLMALAVLSPCPPLVGTSAVVVLVSWVLCVGVSFVYKVAASSLLHGGGRPALLAAGVAIQVGSLLGA
 VAMFPPTSIYHVFHSRKDCADPCDS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001253816

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

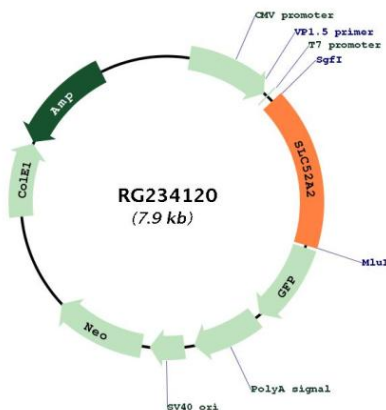
RefSeq: [NM_001253816.2](#)

RefSeq Size: 1786 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 RG234120