# SLC52A2 siRNA – Solute Carrier Family 52, Riboflavin Transporter, Member 2 (Rat)

## PRODUCT OVERVIEW

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| **Product Name** | SLC52A2, siRNA |
| **Full Product Name** | SLC52A2 siRNA (Rat) |
| **Product Gene Name** | SLC52A2 sirna |
| **Product Synonym Names** | GPR172A; GPR172B; RFT1; Solute carrier family 52. riboflavin transporter. member 2; Porcine endogenous retrovirus A receptor 2; Protein GPR172B; Riboflavin transporter 1; rRFT1 |
| **Host** | Synthetic |
| **Species Reactivity** | Rat |
| **Form/Format** | Lyophilized powder |
| **Purity/Purification** | > 97% |
| **Specificity** | SLC52A2 siRNA (Rat) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression. |
| **Preparation and Storage** | Shipped at 4 degree C. Store at -20 degree C for one year. |
| **Molecular Weight** | 46,956 Da |
| **3D Structure** | ModBase 3D Structure for B5MEV3 |
| **Negative Control** | siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection. |
| **Quality Control** | Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency. |
| **Directions for Use** | We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well). |
| **Components** | We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of rat SLC52A2 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo. |
| **Applications Tested/Suitable for SLC52A2 sirna** | RNA Interference (RNAi) |
| **Related Product Information for SLC52A2 sirna** | MBS8205525 is an siRNA targeting SLC52A2. Also known as SLC52A2 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit SLC52A2 expression using RNA interference |
| **Other Notes** | Small volumes of SLC52A2 sirna vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC52A2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 157822349 |

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| **NCBI GeneID** | 362942 |
| **NCBI Accession #** | NP_001103140.1 |
| **UniProt Primary Accession #** | B5MEV3 |
| **UniProt Secondary Accession #** | A3KN99 |
| **UniProt Related Accession #** | B5MEV3 |
| **GenBank Nucleotide #** | NM_001109670.1 |
| **NCBI Official Full Name** | solute carrier family 52, riboflavin transporter, member 2 |
| **NCBI Official Synonym Full Names** | solute carrier family 52, riboflavin transporter, member 2 |
| **NCBI Official Symbol** | Slc52a2 |
| **NCBI Official Synonym Symbols** | rRFT1; Gpr172a; Gpr172b; RGD1560410 |
| **UniProt Protein Name** | Solute carrier family 52, riboflavin transporter, member 2 |
| **UniProt Synonym Protein Names** | Porcine endogenous retrovirus A receptor 2; Protein GPR172B; Riboflavin transporter 1; rRFT1 |
| **Protein Family** | Solute carrier family |
| **UniProt Gene Name** | Slc52a2 |
| **UniProt Synonym Gene Names** | Gpr172a; Gpr172b; Rft1; rRFT1 |
| **UniProt Entry Name** | S52A2_RAT |
| **NCBI Protein Information** | solute carrier family 52, riboflavin transporter, member 2 |
| **UniProt Comments for SLC52A2** | GPR172A: Riboflavin transporter. Riboflavin transport is Na(+)-independent but moderately pH-sensitive. Activity is strongly inhibited by riboflavin analogs, such as lumiflavin. Weakly inhibited by flavin adenine dinucleotide (FAD). In case of infection by retroviruses, acts as a cell receptor to retroviral envelopes similar to the porcine endogenous retrovirus (PERV-A)<br><br>Protein type: Membrane protein, integral; Membrane protein, multi-pass; Receptor, GPCR<br><br>Cellular Component: integral to plasma membrane<br><br>Molecular Function: riboflavin transporter activity<br><br>Biological Process: riboflavin transport |
| **Research Articles on SLC52A2** | **1.** Intestinal riboflavin uptake process undergoes differentiation-dependent upregulation and suggest that this is mediated (at least in part) via transcriptional mechanisms of SLC52A1 and SLC52A3. |
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