# PYCRL siRNA – Pyrroline-5-Carboxylate Reductase 3 (Mouse)

## PRODUCT OVERVIEW

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| **Product Name** | PYCRL, siRNA |
| **Full Product Name** | PYCRL siRNA (Mouse) |
| **Product Gene Name** | PYCRL sirna |
| **Product Synonym Names** | Pyrroline-5-carboxylate reductase 3; P5C reductase 3; P5CR 3; Pyrroline-5-carboxylate reductase-like protein |
| **Host** | Synthetic |
| **Species Reactivity** | Mouse |
| **Form/Format** | Lyophilized powder |
| **Purity/Purification** | > 97% |
| **Specificity** | PYCRL siRNA (Mouse) 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** | 28,721 Da |
| **3D Structure** | ModBase 3D Structure for Q9DCC4 |
| **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 mouse PYCRL 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 PYCRL sirna** | RNA Interference (RNAi) |
| **Related Product Information for PYCRL sirna** | MBS8236561 is an siRNA targeting PYCRL. Also known as PYCRL siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit PYCRL expression using RNA interference |
| **Other Notes** | Small volumes of PYCRL 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 PYCRL. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 119508439 |

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| **NCBI GeneID** | 66194 |
| **NCBI Accession #** | NP_079688.2 |
| **UniProt Primary Accession #** | Q9DCC4 |
| **UniProt Secondary Accession #** | Q8R0P9; Q9D0X2 |
| **UniProt Related Accession #** | Q9DCC4 |
| **GenBank Nucleotide #** | NM_025412.2 |
| **NCBI Official Full Name** | pyrroline-5-carboxylate reductase 3 |
| **NCBI Official Synonym Full Names** | pyrroline-5-carboxylate reductase-like |
| **NCBI Official Symbol** | Pycrl |
| **NCBI Official Synonym Symbols** | 1110058B13Rik; 2700073G24Rik |
| **UniProt Protein Name** | Pyrroline-5-carboxylate reductase 3 |
| **UniProt Synonym Protein Names** | Pyrroline-5-carboxylate reductase-like protein |
| **UniProt Gene Name** | Pycrl |
| **UniProt Synonym Gene Names** | P5C reductase 3; P5CR 3 |
| **UniProt Entry Name** | P5CR3_MOUSE |
| **NCBI Protein Information** | pyrroline-5-carboxylate reductase 3 |
| **UniProt Comments for PYCRL** | PYCRL: Belongs to the pyrroline-5-carboxylate reductase family.<br><br>Protein type: Oxidoreductase; Amino Acid Metabolism - arginine and proline; Hydrolase; EC 1.5.1.2<br><br>Molecular Function: identical protein binding; protein binding; pyrroline-5-carboxylate reductase activity; oxidoreductase activity; cytidine deaminase activity<br><br>Biological Process: proline biosynthetic process; cytidine deamination; amino acid biosynthetic process |
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