

Product datasheet for TL511031

Smcr8 Mouse shRNA Plasmid (Locus ID 237782)

Product data:

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

Plasmids Jouse shRNA Plasmid (Locus ID 237782) 5G09Rik; Al642055; D030073L15Rik shLenti (TR30023)
Aouse shRNA Plasmid (Locus ID 237782) 5G09Rik; Al642055; D030073L15Rik shLenti (TR30023)
5G09Rik; Al642055; D030073L15Rik shLenti (TR30023) uphenicol (34 ug/ml)
5G09Rik; Al642055; D030073L15Rik shLenti (TR30023) uphenicol (34 ug/ml)
shLenti (TR30023)
nhenicol (34 ug/ml)
cin
al plasmids
Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 237782). ified plasmid DNA per construct scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
<u>95, NM_001085440, NM_175491, NM_001085440.1, NM_175491.1, NM_175491.2,</u> 5491.3, <u>NM_175491.4, BC094221</u>
<u>5</u>
nent of the C9orf72-SMCR8 complex, a complex that has guanine nucleotide ge factor (GEF) activity and regulates autophagy (PubMed:27617292). In the complex, and SMCR8 probably constitute the catalytic subunits that promote the exchange of GTP, converting inactive GDP-bound RAB8A and RAB39B into their active GTP-bound ereby promoting autophagosome maturation (By similarity). The C9orf72-SMCR8 c also acts as a negative regulator of autophagy initiation by interacting with the LK1 kinase complex and inhibiting its protein kinase activity (PubMed:27617292). Acts ulator of mTORC1 signaling by promoting phosphorylation of mTORC1 substrates (By y). In addition to its activity in the cytoplasm within the C9orf72-SMCR8 complex, also localizes in the nucleus, where it associates with chromatin and negatively es expression of suppresses ULK1 and WIPI2 genes (By similarity).[UniProtKB/Swiss- nction]
nRNA constructs were designed against multiple splice variants at this gene locus. To in that your variant of interest is targeted, please contact <u>techsupport@origene.com</u> . eed a special design or shRNA sequence, please utilize our <u>custom shRN</u> A service.



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Smcr8 Mouse shRNA Plasmid (Locus ID 237782) – TL511031

Performance Guaranteed: OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US