

Product datasheet for **SR415312**

Rtn4r Mouse siRNA Oligo Duplex (Locus ID 65079)

Product data:

Product Type:	siRNA Oligo Duplexes
Purity:	HPLC purified
Quality Control:	Tested by ESI-MS
Sequences:	Available with shipment
Stability:	One year from date of shipment when stored at -20°C.
# of transfections:	Approximately 330 transfections/2nmol in 24-well plate under optimized conditions (final conc. 10 nM).
Note:	Single siRNA duplex (10nmol) can be ordered.
RefSeq:	NM_022982
UniProt ID:	Q99PI8
Synonyms:	NgR; NgR1; NOGOR
Components:	Rtn4r (Mouse) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 65079) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml



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Summary:

Receptor for RTN4, OMG and MAG (PubMed:11201742, PubMed:12089450, PubMed:15504325, PubMed:18411262, PubMed:22923615). Functions as receptor for the sialylated gangliosides GT1b and GM1 (PubMed:18411262). Besides, functions as receptor for chondroitin sulfate proteoglycans (PubMed:22406547). Can also bind heparin (PubMed:22406547). Intracellular signaling cascades are triggered via the coreceptor NGFR (By similarity). Signaling mediates activation of Rho and downstream reorganization of the actin cytoskeleton (PubMed:22325200). Mediates axonal growth inhibition (By similarity). Mediates axonal growth inhibition and plays a role in regulating axon regeneration and neuronal plasticity in the adult central nervous system (PubMed:11201742, PubMed:12089450, PubMed:15504325, PubMed:22923615). Plays a role in postnatal brain development (PubMed:27339102). Required for normal axon migration across the brain midline and normal formation of the corpus callosum (PubMed:27339102). Protects motoneurons against apoptosis; protection against apoptosis is probably mediated via interaction with MAG (PubMed:26335717). Acts in conjunction with RTN4 and LINGO1 in regulating neuronal precursor cell motility during cortical development (PubMed:20093372). Like other family members, plays a role in restricting the number dendritic spines and the number of synapses that are formed during brain development (PubMed:22325200). [UniProtKB/Swiss-Prot Function]

Performance Guaranteed:

OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will provide at least 70% or more knockdown of the target mRNA when used at 10 nM concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HPRT positive control (cat# SR30003) provides 90% knockdown efficiency.

For non-conforming siRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the siRNA kit. To arrange for a free replacement with newly designed duplexes, 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 siRNA control (quantitative RT-PCR data required).