

Product datasheet for **SR309854**

CYRIB Human siRNA Oligo Duplex (Locus ID 51571)

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_001256763 , NM_001330612 , NM_016623 , NR_046359 , NR_046360 , NR_046361 , NM_001353242 , NM_001353243 , NM_001353244 , NM_001353245 , NM_001353246 , NM_001353247 , NM_001353248 , NM_001353249 , NM_001353250 , NM_001353251 , NM_001353252 , NM_001353253 , NM_001353254 , NM_001353255 , NM_001353256 , NM_001353257 , NM_001353258 , NM_001353259 , NM_001353260 , NM_001353261 , NM_001353262 , NM_001353263 , NM_001353264 , NM_001353265 , NM_001353266 , NM_001353267 , NM_001353268 , NM_001353269 , NM_001353270 , NM_001353271 , NM_001353272 , NM_001353273 , NM_001353274 , NM_001353275 , NM_001353276 , NM_001353277 , NM_001353278 , NM_001353279 , NM_001353280 , NM_001353281 , NM_001353282 , NM_001353283 , NM_001353284 , NM_001353285 , NM_001353286 , NM_001353287 , NM_001353288 , NM_001353289 , NM_001353290 , NM_001353291 , NM_001353292 , NM_001353293 , NM_001353294 , NM_001353295 , NM_001353296 , NM_001353297 , NM_001353298 , NM_001353299 , NM_001353300 , NM_001353301 , NM_001353302 , NM_001353303 , NM_001353304 , NM_001353305 , NM_001353306 , NM_001353307 , NM_001353308 , NM_001353309 , NM_001353310 , NM_001353311 , NM_001353312 , NM_001353313 , NM_001353314 , NM_001353315 , NM_001353316
UniProt ID:	Q9NUQ9
Synonyms:	BM-009; CYRI; CYRI-B; FAM49B; L1
Components:	FAM49B (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 51571) 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:

Negatively regulates RAC1 signaling and RAC1-driven cytoskeletal remodeling (PubMed:31285585, PubMed:30250061). Regulates chemotaxis, cell migration and epithelial polarization by controlling the polarity, plasticity, duration and extent of protrusions. Limits Rac1 mediated activation of the Scar/WAVE complex, focuses protrusion signals and regulates pseudopod complexity by inhibiting Scar/WAVE-induced actin polymerization (PubMed:30250061). Protects against Salmonella bacterial infection. Attenuates processes such as macropinocytosis, phagocytosis and cell migration and restrict sopE-mediated bacterial entry (PubMed:31285585). Restricts also infection mediated by Mycobacterium tuberculosis and Listeria monocytogenes (By similarity). Involved in the regulation of mitochondrial dynamics and oxidative stress (PubMed:29059164).[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).