

## Product datasheet for **TF320512**

### RET Human shRNA Plasmid Kit (Locus ID 5979)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	RET Human shRNA Plasmid Kit (Locus ID 5979)
Locus ID:	5979
Synonyms:	PTC, MTC1, HSCR1, MEN2A, MEN2B, RET51
Vector:	pRFP-C-RS (TR30014)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	RET - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 5979). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
RefSeq:	<a href="#">NM_000323</a> , <a href="#">NM_020629</a> , <a href="#">NM_020630</a> , <a href="#">NM_020975</a> , <a href="#">NM_001355216</a> , <a href="#">NM_020630.1</a> , <a href="#">NM_020630.2</a> , <a href="#">NM_020630.3</a> , <a href="#">NM_020630.4</a> , <a href="#">NM_020975.2</a> , <a href="#">NM_020975.3</a> , <a href="#">NM_020975.4</a> , <a href="#">NM_000323.2</a> , <a href="#">BC004257</a> , <a href="#">BC004257.1</a> , <a href="#">BC003072</a> , <a href="#">BM661773</a> , <a href="#">BM703293</a> , <a href="#">NM_020975.6</a>
UniProt ID:	<a href="#">P07949</a>
Summary:	This gene encodes a transmembrane receptor and member of the tyrosine protein kinase family of proteins. Binding of ligands such as GDNF (glial cell-line derived neurotrophic factor) and other related proteins to the encoded receptor stimulates receptor dimerization and activation of downstream signaling pathways that play a role in cell differentiation, growth, migration and survival. The encoded receptor is important in development of the nervous system, and the development of organs and tissues derived from the neural crest. This proto-oncogene can undergo oncogenic activation through both cytogenetic rearrangement and activating point mutations. Mutations in this gene are associated with Hirschsprung disease and central hypoventilation syndrome and have been identified in patients with renal agenesis. [provided by RefSeq, Sep 2017]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .



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**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](mailto: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).