

Product datasheet for **TR510474**

Tcf7l2 Mouse shRNA Plasmid (Locus ID 21416)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Tcf7l2 Mouse shRNA Plasmid (Locus ID 21416)
Locus ID:	21416
Synonyms:	Tcf-4; Tcf4; TCF4B; TCF4E
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Tcf7l2 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 21416). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC052022 , NM_001142918 , NM_001142919 , NM_001142920 , NM_001142921 , NM_001142922 , NM_001142923 , NM_001142924 , NM_001331135 , NM_001331136 , NM_001331137 , NM_001331138 , NM_001331139 , NM_001331140 , NM_001331141 , NM_001331142 , NM_001331143 , NM_001331144 , NM_001331145 , NM_001331146 , NM_001331147 , NM_001331148 , NM_001331149 , NM_001331150 , NM_009333 , NR_138565 , NM_009333.1 , NM_009333.2 , NM_009333.3 , NM_009333.4 , NM_001142918.1 , NM_001142918.2 , NM_001142919.1 , NM_001142919.2 , NM_001142921.1 , NM_001142921.2 , NM_001142922.1 , NM_001142922.2 , NM_001142924.1 , NM_001142924.2 , NM_001142920.1 , NM_001142920.2 , NM_001142923.1 , NM_001142923.2 , BC009807 , BC011397 , BC131679
UniProt ID:	Q924A0
Summary:	Participates in the Wnt signaling pathway and modulates MYC expression by binding to its promoter in a sequence-specific manner. Acts as repressor in the absence of CTNNB1, and as activator in its presence. Activates transcription from promoters with several copies of the Tcf motif CCTTTGATC in the presence of CTNNB1. TLE1, TLE2, TLE3 and TLE4 repress transactivation mediated by TCF7L2/TCF4 and CTNNB1. Expression of dominant-negative mutants results in cell-cycle arrest in G1 (By similarity). Necessary for the maintenance of the epithelial stem-cell compartment of the small intestine.[UniProtKB/Swiss-Prot Function]



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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 techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our [custom shRNA service](#).

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).