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Product datasheet for TL304340

GIT2 Human shRNA Plasmid Kit (Locus ID 9815)

Product data:

Product Type:	shRNA Plasmids
Product Name:	GIT2 Human shRNA Plasmid Kit (Locus ID 9815)
Locus ID:	9815
Synonyms:	CAT-2; CAT2; PKL
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	GIT2 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 9815). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_001135213, NM_001135214, NM_014776, NM_057169, NM_057170, NM_139201, NM_001330153, NM_001330154, NM_139201.1, NM_139201.2, NM_057169.1, NM_057169.2, NM_057169.3, NM_057169.4, NM_014776.1, NM_014776.2, NM_014776.3, NM_014776.4, NM_057170.1, NM_057170.2, NM_057170.3, NM_057170.4, NM_001135213.1, NM_001135213.2, NM_001135214.1, NM_001135214.2, BC001379, BC001379.2, BC014223, BC039880, BM557270, NM_057170.5, NM_014776.5, NM_001135213.3, NM_001135214.3, NM_057169.5
UniProt ID:	Q14161

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Summary:

This gene encodes a member of the GIT protein family, which interact with G protein-coupled receptor kinases and possess ADP-ribosylation factor (ARF) GTPase-activating protein (GAP) activity. GIT proteins traffic between cytoplasmic complexes, focal adhesions, and the cell periphery, and interact with Pak interacting exchange factor beta (PIX) to form large oligomeric complexes that transiently recruit other proteins. GIT proteins regulate cytoskeletal dynamics and participate in receptor internalization and membrane trafficking. This gene has been shown to repress lamellipodial extension and focal adhesion turnover, and is thought to regulate cell motility. This gene undergoes extensive alternative splicing to generate multiple isoforms, but the full-length nature of some of these variants has not been determined. The various isoforms have functional differences, with respect to ARF GAP activity and to G protein-coupled receptor kinase 2 binding. [provided by RefSeq, Sep 2008]

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).

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