

Product datasheet for **TG303878**

ITCH Human shRNA Plasmid Kit (Locus ID 83737)

Product data:

Product Type:	shRNA Plasmids
Product Name:	ITCH Human shRNA Plasmid Kit (Locus ID 83737)
Locus ID:	83737
Synonyms:	ADMFD; AIF4; AIP4; NAPP1
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	ITCH - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 83737). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	NM_001257137 , NM_001257138 , NM_031483 , NM_001324197 , NM_001324198 , NM_031483.1 , NM_031483.2 , NM_031483.3 , NM_031483.4 , NM_031483.5 , NM_031483.6 , NM_001257138.1 , NM_001257138.2 , NM_001257137.1 , NM_001257137.2 , BC006848 , BC011571 , NM_001257137.3 , NM_001257138.3 , NM_031483.7
UniProt ID:	Q96J02
Summary:	This gene encodes a member of the Nedd4 family of HECT domain E3 ubiquitin ligases. HECT domain E3 ubiquitin ligases transfer ubiquitin from E2 ubiquitin-conjugating enzymes to protein substrates, thus targeting specific proteins for lysosomal degradation. The encoded protein plays a role in multiple cellular processes including erythroid and lymphoid cell differentiation and the regulation of immune responses. Mutations in this gene are a cause of syndromic multisystem autoimmune disease. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012]
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 .



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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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).