

Product datasheet for **TR302973**

NFAT2 (NFATC1) Human shRNA Plasmid Kit (Locus ID 4772)

Product data:

Product Type:	shRNA Plasmids
Product Name:	NFAT2 (NFATC1) Human shRNA Plasmid Kit (Locus ID 4772)
Locus ID:	4772
Synonyms:	NF-ATC; NF-ATc1.2; NFAT2; NFATc
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	NFATC1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 4772). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001278669 , NM_001278670 , NM_001278672 , NM_001278673 , NM_001278675 , NM_006162 , NM_172387 , NM_172388 , NM_172389 , NM_172390 , NM_172390.1 , NM_006162.1 , NM_006162.2 , NM_006162.3 , NM_006162.4 , NM_172387.1 , NM_172387.2 , NM_172388.2 , NM_172389.1 , NM_172389.2 , NM_001278673.1 , NM_001278672.1 , NM_001278675.1 , NM_001278670.1 , NM_001278669.1 , BC104753 , BC104753.1 , BC033848 , BC045628 , BC112243 , BC143457 , NM_001278675.2 , NM_001278670.2 , NM_172389.3 , NM_172387.3 , NM_001278669.2 , NM_001278672.2 , NM_006162.5 , NM_172388.3 , NM_172390.3
UniProt ID:	O95644
Summary:	The product of this gene is a component of the nuclear factor of activated T cells DNA-binding transcription complex. This complex consists of at least two components: a preexisting cytosolic component that translocates to the nucleus upon T cell receptor (TCR) stimulation, and an inducible nuclear component. Proteins belonging to this family of transcription factors play a central role in inducible gene transcription during immune response. The product of this gene is an inducible nuclear component. It functions as a major molecular target for the immunosuppressive drugs such as cyclosporin A. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. Different isoforms of this protein may regulate inducible expression of different cytokine genes. [provided by RefSeq, Jul 2013]



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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).