

## Product datasheet for **TR311051**

### **NXF1 Human shRNA Plasmid Kit (Locus ID 10482)**

#### **Product data:**

Product Type:	shRNA Plasmids
Product Name:	NXF1 Human shRNA Plasmid Kit (Locus ID 10482)
Locus ID:	10482
Synonyms:	MEX67; TAP
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	NXF1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 10482). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001081491</a> , <a href="#">NM_006362</a> , <a href="#">NM_006362.1</a> , <a href="#">NM_006362.2</a> , <a href="#">NM_006362.3</a> , <a href="#">NM_006362.4</a> , <a href="#">NM_001081491.1</a> , <a href="#">BC028041</a> , <a href="#">BC028041.1</a> , <a href="#">BC004904</a> , <a href="#">BC017421</a> , <a href="#">BM751313</a> , <a href="#">NM_001081491.2</a> , <a href="#">NM_006362.5</a>
UniProt ID:	<a href="#">Q9UBU9</a>
Summary:	This gene is one member of a family of nuclear RNA export factor genes. Common domain features of this family are a noncanonical RNP-type RNA-binding domain (RBD), 4 leucine-rich repeats (LRRs), a nuclear transport factor 2 (NTF2)-like domain that allows heterodimerization with NTF2-related export protein-1 (NXT1), and a ubiquitin-associated domain that mediates interactions with nucleoporins. The LRRs and NTF2-like domains are required for export activity. Alternative splicing seems to be a common mechanism in this gene family. The encoded protein of this gene shuttles between the nucleus and the cytoplasm and binds in vivo to poly(A) <sup>+</sup> RNA. It is the vertebrate homologue of the yeast protein Mex67p. The encoded protein overcomes the mRNA export block caused by the presence of saturating amounts of CTE (constitutive transport element) RNA of type D retroviruses. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 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 <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).