

## Product datasheet for **TR502828**

### Fbxo6 Mouse shRNA Plasmid (Locus ID 50762)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Fbxo6 Mouse shRNA Plasmid (Locus ID 50762)
Locus ID:	50762
Synonyms:	AA408845; FBG2; Fbs2; Fbx6b; Fbxo6b
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Fbxo6 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 50762). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<u><a href="#">BC017512</a></u> , <u><a href="#">NM_001163704</a></u> , <u><a href="#">NM_001163705</a></u> , <u><a href="#">NM_001163706</a></u> , <u><a href="#">NM_001163707</a></u> , <u><a href="#">NM_015797</a></u> , <u><a href="#">NM_001163704.1</a></u> , <u><a href="#">NM_001163705.1</a></u> , <u><a href="#">NM_001163707.1</a></u> , <u><a href="#">NM_001163706.1</a></u> , <u><a href="#">NM_015797.1</a></u> , <u><a href="#">NM_015797.2</a></u> , <u><a href="#">NM_015797.3</a></u> , <u><a href="#">NM_015797.4</a></u>
UniProt ID:	<u><a href="#">Q9QZN4</a></u>
Summary:	Substrate-recognition component of some SCF (SKP1-CUL1-F-box protein)-type E3 ubiquitin ligase complexes. Involved in DNA damage response by specifically recognizing activated CHEK1 (phosphorylated on 'Ser-345'), promoting its ubiquitination and degradation. Ubiquitination of CHEK1 is required to insure that activated CHEK1 does not accumulate as cells progress through S phase, or when replication forks encounter transient impediments during normal DNA replication (By similarity). Involved in endoplasmic reticulum-associated degradation pathway (ERAD) for misfolded luminal proteins by recognizing and binding sugar chains on unfolded glycoproteins that are retrotranslocated into the cytosol and promoting their ubiquitination and subsequent degradation. Able to recognize and bind denatured glycoproteins, which are modified with not only high-mannose but also complex-type oligosaccharides. Also recognizes sulfated glycans.[UniProtKB/Swiss-Prot Function]
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> .


[View online »](#)

**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).