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Product datasheet for TR513479

Egfbp2 Mouse shRNA Plasmid (Locus ID 13647)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Egfbp2 Mouse shRNA Plasmid (Locus ID 13647)
Locus ID:	13647
Synonyms:	Egfbp-2; Klk1b26; mGk-13; PRECE-1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Egfbp2 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 13647). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_010115, NM_010115.1, NM_010115.2, NM_010115.3, NM_010115.4, NM_010115.5, NM_010115.6
UniProt ID:	P36368
Summary:	The protein encoded by this gene belongs to the kallikrein family, which is a highly homologous group of serine proteases encoded by a cluster of related genes on chromosome 7. This gene has been shown to function as both a prorenin converting enzyme and as epidermal growth factor (EGF)-binding protein involved in the maturation of EGF (PMIDs: 1918045, 3322387, 9685728). This gene is thought to be distinct from Klk1b26 gene (GeneID:16618), with which it shares 98% identity (PMID:1959648, 9685728), however, it is not clear if both genes are present in all strains of mice. Blast analyses suggest that this gene is missing from the current reference (GRCm38, based on C57BL/6J genome) and alternate Celera (based on mixed strain genomes) assemblies. Therefore, the RefSeq for this locus was based on sequence from the ICR strain, which has been reported in literature (PMID:1959648) to contain both genes. [provided by RefSeq, Aug 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).