

Product datasheet for **TL514062**

Eppk1 Mouse shRNA Plasmid (Locus ID 223650)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Eppk1 Mouse shRNA Plasmid (Locus ID 223650)
Locus ID:	223650
Synonyms:	6230424I18Rik; EPIPL; EPIPL1; EPPK
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Eppk1 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 223650). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_144848 , BC026387
Summary:	Cytoskeletal linker protein that connects to intermediate filaments and controls their reorganization in response to stress (PubMed:16382146, PubMed:20926261, PubMed:18285451, PubMed:25232867, PubMed:25617501, PubMed:23599337). In response to mechanical stress like wound healing, is associated with the machinery for cellular motility by slowing down keratinocyte migration and proliferation and accelerating keratin bundling in proliferating keratinocytes thus contributing to tissue architecture (PubMed:16382146, PubMed:20926261). However in wound healing in corneal epithelium also positively regulates cell differentiation and proliferation and negatively regulates migration thereby controlling corneal epithelium morphogenesis and integrity (PubMed:23599337). In response to cellular stress, plays a role in keratin filament reorganization, probably by protecting keratin filaments against disruption (PubMed:18285451). During liver and pancreas injuries, plays a protective role by chaperoning disease-induced intermediate filament reorganization (PubMed:25232867, PubMed:25617501).[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 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).