

Product datasheet for TR502362

Ubc Mouse shRNA Plasmid (Locus ID 22190)

Product data:

OriGene Technologies, Inc.

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Product Type:	shRNA Plasmids
Product Name:	Ubc Mouse shRNA Plasmid (Locus ID 22190)
Locus ID:	22190
Synonyms:	2700054O04Rik; Al194771; Rps27a; Tl-225; Uba52; Ubb
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Ubc - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 22190). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<u>BC006680</u> , <u>BC021837</u> , <u>NM 019639</u> , <u>NM 019639.1</u> , <u>NM 019639.2</u> , <u>NM 019639.3</u> , <u>NM 019639.4</u> , <u>BC008661</u> , <u>BC025894</u> , <u>BC036303</u> , <u>BC094012</u>
UniProt ID:	POCG50



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CRIGENE Ubc Mouse shRNA Plasmid (Locus ID 22190) – TR502362

Ubiquitin: Exists either covalently attached to another protein, or free (unanchored). When Summary: covalently bound, it is conjugated to target proteins via an isopeptide bond either as a monomer (monoubiguitin), a polymer linked via different Lys residues of the ubiguitin (polyubiquitin chains) or a linear polymer linked via the initiator Met of the ubiquitin (linear polyubiquitin chains). Polyubiquitin chains, when attached to a target protein, have different functions depending on the Lys residue of the ubiquitin that is linked: Lys-6-linked may be involved in DNA repair; Lys-11-linked is involved in ERAD (endoplasmic reticulum-associated degradation) and in cell-cycle regulation; Lys-29-linked is involved in lysosomal degradation; Lys-33-linked is involved in kinase modification; Lys-48-linked is involved in protein degradation via the proteasome; Lys-63-linked is involved in endocytosis, DNA-damage responses as well as in signaling processes leading to activation of the transcription factor NF-kappa-B. Linear polymer chains formed via attachment by the initiator Met lead to cell signaling. Ubiquitin is usually conjugated to Lys residues of target proteins, however, in rare cases, conjugation to Cys or Ser residues has been observed. When polyubiquitin is free (unanchored-polyubiquitin), it also has distinct roles, such as in activation of protein kinases, and in signaling.[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.

PerformanceOriGene guarantees that the sequences in the shRNA expression cassettes are verified toGuaranteed: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).

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