

## Product datasheet for **TR320273**

### **BMPR1B Human shRNA Plasmid Kit (Locus ID 658)**

#### **Product data:**

Product Type:	shRNA Plasmids
Product Name:	BMPR1B Human shRNA Plasmid Kit (Locus ID 658)
Locus ID:	658
Synonyms:	ALK-6; ALK6; AMDD; BDA1D; BDA2; CDw293
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	BMPR1B - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 658). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001203</a> , <a href="#">NM_001256792</a> , <a href="#">NM_001256793</a> , <a href="#">NM_001256794</a> , <a href="#">NM_001203.1</a> , <a href="#">NM_001203.2</a> , <a href="#">NM_001256792.1</a> , <a href="#">NM_001256794.1</a> , <a href="#">NM_001256793.1</a> , <a href="#">BC069796</a> , <a href="#">BC069796.1</a> , <a href="#">BC047773</a> , <a href="#">BC069803</a> , <a href="#">NM_001203.3</a> , <a href="#">NM_001256793.2</a>
UniProt ID:	<a href="#">O00238</a>
Summary:	This gene encodes a member of the bone morphogenetic protein (BMP) receptor family of transmembrane serine/threonine kinases. The ligands of this receptor are BMPs, which are members of the TGF-beta superfamily. BMPs are involved in endochondral bone formation and embryogenesis. These proteins transduce their signals through the formation of heteromeric complexes of 2 different types of serine (threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Type II receptors bind ligands in the absence of type I receptors, but they require their respective type I receptors for signaling, whereas type I receptors require their respective type II receptors for ligand binding. Mutations in this gene have been associated with primary pulmonary hypertension. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Feb 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 <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> .



**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).