

# Product datasheet for TR310404

# PITX2 Human shRNA Plasmid Kit (Locus ID 5308)

## **Product data:**

#### **Product Type:** shRNA Plasmids **Product Name:** PITX2 Human shRNA Plasmid Kit (Locus ID 5308) Locus ID: 5308 ARP1; ASGD4; Brx1; IDG2; IGDS; IGDS2; IHG2; IRID2; Otlx2; PTX2; RGS; RIEG; RIEG1; RS Synonyms: Vector: pRS (TR20003) E. coli Selection: Ampicillin Mammalian Cell Puromycin Selection: Format: **Retroviral plasmids** PITX2 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = **Components:** 5308). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free. NM 000325, NM 001204397, NM 001204398, NM 001204399, NM 153426, NM 153427, RefSeq: NM 000325.1, NM 000325.3, NM 000325.5, NM 153427.1, NM 153427.2, NM 153426.1, NM 153426.2, NM 001204399.1, NM 001204397.1, NM 001204398.1, BC013998, BC013998.2, BC106010, BC106010.1, NM 000325.6 **UniProt ID:** Q99697 This gene encodes a member of the RIEG/PITX homeobox family, which is in the bicoid class Summary: of homeodomain proteins. The encoded protein acts as a transcription factor and regulates procollagen lysyl hydroxylase gene expression. This protein plays a role in the terminal differentiation of somatotroph and lactotroph cell phenotypes, is involved in the development of the eye, tooth and abdominal organs, and acts as a transcriptional regulator involved in basal and hormone-regulated activity of prolactin. Mutations in this gene are associated with Axenfeld-Rieger syndrome, iridogoniodysgenesis syndrome, and sporadic cases of Peters anomaly. A similar protein in other vertebrates is involved in the determination of left-right asymmetry during development. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008] 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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### **GRIGENE** PITX2 Human shRNA Plasmid Kit (Locus ID 5308) – TR310404

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).

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