

Product datasheet for **TR302663**

PAX5 Human shRNA Plasmid Kit (Locus ID 5079)

Product data:

Product Type:	shRNA Plasmids
Product Name:	PAX5 Human shRNA Plasmid Kit (Locus ID 5079)
Locus ID:	5079
Synonyms:	ALL3; BSAP
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	PAX5 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 5079). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001280547 , NM_001280548 , NM_001280549 , NM_001280550 , NM_001280551 , NM_001280552 , NM_001280553 , NM_001280554 , NM_001280555 , NM_001280556 , NM_016734 , NR_103999 , NR_104000 , NM_016734.1 , NM_016734.2 , NM_001280551.1 , NM_001280556.1 , NM_001280555.1 , NM_001280550.1 , NM_001280553.1 , NM_001280549.1 , NM_001280552.1 , NM_001280554.1 , NM_001280547.1 , NM_001280548.1 , BC156189 , BC156927 , NM_001280549.2 , NM_001280551.2 , NM_001280553.2 , NM_001280556.2 , NM_001280555.2 , NM_001280547.2 , NM_001280550.2 , NM_001280552.2 , NM_001280554.2 , NM_001280548.2 , NM_016734.3
UniProt ID:	Q02548



[View online »](#)

Summary:

This gene encodes a member of the paired box (PAX) family of transcription factors. The central feature of this gene family is a novel, highly conserved DNA-binding motif, known as the paired box. Paired box transcription factors are important regulators in early development, and alterations in the expression of their genes are thought to contribute to neoplastic transformation. This gene encodes the B-cell lineage specific activator protein that is expressed at early, but not late stages of B-cell differentiation. Its expression has also been detected in developing CNS and testis and so the encoded protein may also play a role in neural development and spermatogenesis. This gene is located at 9p13, which is involved in t(9;14)(p13;q32) translocations recurring in small lymphocytic lymphomas of the plasmacytoid subtype, and in derived large-cell lymphomas. This translocation brings the potent E-mu enhancer of the IgH gene into close proximity of the PAX5 promoter, suggesting that the deregulation of transcription of this gene contributes to the pathogenesis of these lymphomas. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013]

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](#).

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).