

Product datasheet for **TR304470**

FOXP2 Human shRNA Plasmid Kit (Locus ID 93986)

Product data:

Product Type:	shRNA Plasmids
Product Name:	FOXP2 Human shRNA Plasmid Kit (Locus ID 93986)
Locus ID:	93986
Synonyms:	CAGH44; SPCH1; TNRC10
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	FOXP2 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 93986). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001172766 , NM_001172767 , NM_001172777 , NM_014491 , NM_148898 , NM_148899 , NM_148900 , NR_033766 , NR_033767 , NM_148898.1 , NM_148898.2 , NM_148898.3 , NM_014491.1 , NM_014491.2 , NM_014491.3 , NM_148899.1 , NM_148899.2 , NM_148899.3 , NM_001172767.1 , NM_001172767.2 , NM_001172766.1 , NM_001172766.2 , NM_148900.1 , NM_148900.2 , NM_148900.3 , NM_001172777.1 , BC126104 , BC018016 , BC143866 , BC143867 , NM_014491.4 , NM_001172766.3
UniProt ID:	O15409



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Summary:	<p>This gene encodes a member of the forkhead/winged-helix (FOX) family of transcription factors. It is expressed in fetal and adult brain as well as in several other organs such as the lung and gut. The protein product contains a FOX DNA-binding domain and a large polyglutamine tract and is an evolutionarily conserved transcription factor, which may bind directly to approximately 300 to 400 gene promoters in the human genome to regulate the expression of a variety of genes. This gene is required for proper development of speech and language regions of the brain during embryogenesis, and may be involved in a variety of biological pathways and cascades that may ultimately influence language development. Mutations in this gene cause speech-language disorder 1 (SPCH1), also known as autosomal dominant speech and language disorder with orofacial dyspraxia. Multiple alternative transcripts encoding different isoforms have been identified in this gene.[provided by RefSeq, Feb 2010]</p>
shRNA Design:	<p>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.</p>
Performance Guaranteed:	<p>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.</p> <p>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).</p>