

Product datasheet for **TG303332**

MAX Human shRNA Plasmid Kit (Locus ID 4149)

Product data:

Product Type:	shRNA Plasmids
Product Name:	MAX Human shRNA Plasmid Kit (Locus ID 4149)
Locus ID:	4149
Synonyms:	bHLHd4
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	MAX - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 4149). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	BC003525 , BC004516 , NM_001271068 , NM_001271069 , NM_002382 , NM_145112 , NM_145113 , NM_145114 , NM_145116 , NM_197957 , NR_073137 , NR_073138 , NM_001320415 , NM_145114.1 , NM_145114.2 , NM_145116.1 , NM_145112.1 , NM_145112.2 , NM_002382.1 , NM_002382.2 , NM_002382.3 , NM_002382.4 , NM_197957.1 , NM_197957.2 , NM_197957.3 , NM_145113.1 , NM_145113.2 , NM_001271068.1 , NM_001271069.1 , BC003525.1 , BC004516.2 , BC013669 , BC036092 , BC036092.1 , BC025685 , BC025685.1 , BC027924 , NM_002382.5 , NM_145113.3 , NM_145112.3 , NM_001271069.2
UniProt ID:	P61244
Summary:	The protein encoded by this gene is a member of the basic helix-loop-helix leucine zipper (bHLHZ) family of transcription factors. It is able to form homodimers and heterodimers with other family members, which include Mad, Mxi1 and Myc. Myc is an oncoprotein implicated in cell proliferation, differentiation and apoptosis. The homodimers and heterodimers compete for a common DNA target site (the E box) and rearrangement among these dimer forms provides a complex system of transcriptional regulation. Mutations of this gene have been reported to be associated with hereditary pheochromocytoma. A pseudogene of this gene is located on the long arm of chromosome 7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]



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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).