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Product datasheet for TL302700

PAM Human shRNA Plasmid Kit (Locus ID 5066)

Product data:

Product Type:	shRNA Plasmids
Product Name:	PAM Human shRNA Plasmid Kit (Locus ID 5066)
Locus ID:	5066
Synonyms:	PAL; PHM
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	PAM - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 5066). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_000919, NM_001177306, NM_001319943, NM_138766, NM_138821, NM_138822, NR_033440, NM_138821.1, NM_138821.2, NM_000919.1, NM_000919.2, NM_000919.3, NM_138766.1, NM_138766.2, NM_138822.1, NM_138822.2, NM_001177306.1, BC018127, NM_001364582, NM_001364584, NM_001364586, NM_001364588, NM_001364589, NM_001364590, NM_001364593, NM_001364583, NM_001364585, NM_001364587, NM_001364591, NM_001364592, NM_001364594, NR_157231
UniProt ID:	P19021
Summary:	This gene encodes a multifunctional protein. The encoded preproprotein is proteolytically processed to generate the mature enzyme. This enzyme includes two domains with distinct catalytic activities, a peptidylglycine alpha-hydroxylating monooxygenase (PHM) domain and a peptidyl-alpha-hydroxyglycine alpha-amidating lyase (PAL) domain. These catalytic domains work sequentially to catalyze the conversion of neuroendocrine peptides to active alpha-amidated products. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Jan 2016]
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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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).