OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TL304804

EIF4G1 Human shRNA Plasmid Kit (Locus ID 1981)

Product data:

Product Type:	shRNA Plasmids
Product Name:	EIF4G1 Human shRNA Plasmid Kit (Locus ID 1981)
Locus ID:	1981
Synonyms:	EIF-4G1; EIF4F; EIF4G; EIF4GI; P220; PARK18
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	EIF4G1 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 1981). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_001194946, NM_001194947, NM_001291157, NM_004953, NM_182917, NM_198241, NM_198242, NM_198244, NM_004953.1, NM_004953.2, NM_004953.3, NM_004953.4, NM_198241.1, NM_198241.2, NM_198242.1, NM_198242.2, NM_198244.1, NM_198244.2, NM_182917.1, NM_182917.2, NM_182917.3, NM_182917.4, NM_001194946.1, NM_001194947.1, NM_001291157.1, BC140892, BC007788, BC010688, BC065256, BC082764, BC140896, BM475154, NM_198242.3, NM_004953.5
UniProt ID:	Q04637
Summary:	The protein encoded by this gene is a component of the multi-subunit protein complex EIF4F. This complex facilitates the recruitment of mRNA to the ribosome, which is a rate-limiting step during the initiation phase of protein synthesis. The recognition of the mRNA cap and the ATP-dependent unwinding of 5'-terminal secondary structure is catalyzed by factors in this complex. The subunit encoded by this gene is a large scaffolding protein that contains binding sites for other members of the EIF4F complex. A domain at its N-terminus can also interact with the poly(A)-binding protein, which may mediate the circularization of mRNA during translation. Alternative splicing results in multiple transcript variants, some of which are derived from alternative promoter usage. [provided by RefSeq, Aug 2010]

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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).