

Product datasheet for **TR312161**

IL6R Human shRNA Plasmid Kit (Locus ID 3570)

Product data:

Product Type:	shRNA Plasmids
Product Name:	IL6R Human shRNA Plasmid Kit (Locus ID 3570)
Locus ID:	3570
Synonyms:	CD126; gp80; HIES5; IL-1Ra; IL-6R; IL-6R-1; IL-6RA; IL6Q; IL6QTL; IL6RA; IL6RQ
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	IL6R - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 3570). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_000565 , NM_001206866 , NM_181359 , NM_181359.1 , NM_181359.2 , NM_000565.1 , NM_000565.2 , NM_000565.3 , NM_001206866.1 , BC089410 , BC035327 , BC132684 , BC132686 , BM911928 , NM_181359.3 , NM_001206866.2 , NM_000565.4
UniProt ID:	P08887
Summary:	This gene encodes a subunit of the interleukin 6 (IL6) receptor complex. Interleukin 6 is a potent pleiotropic cytokine that regulates cell growth and differentiation and plays an important role in the immune response. The IL6 receptor is a protein complex consisting of this protein and interleukin 6 signal transducer (IL6ST/GP130/IL6-beta), a receptor subunit also shared by many other cytokines. Dysregulated production of IL6 and this receptor are implicated in the pathogenesis of many diseases, such as multiple myeloma, autoimmune diseases and prostate cancer. Alternatively spliced transcript variants encoding distinct isoforms have been identified in this gene. A pseudogene of this gene is found on chromosome 9. [provided by RefSeq, Aug 2020]
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).