

## Product datasheet for **TL306714**

### ANK1 Human shRNA Plasmid Kit (Locus ID 286)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	ANK1 Human shRNA Plasmid Kit (Locus ID 286)
Locus ID:	286
Synonyms:	ANK; SPH1; SPH2
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	ANK1 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 286). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_000037</a> , <a href="#">NM_001142445</a> , <a href="#">NM_001142446</a> , <a href="#">NM_020475</a> , <a href="#">NM_020476</a> , <a href="#">NM_020477</a> , <a href="#">NM_020478</a> , <a href="#">NM_020479</a> , <a href="#">NM_020480</a> , <a href="#">NM_020481</a> , <a href="#">NM_020480.1</a> , <a href="#">NM_020480.2</a> , <a href="#">NM_020480.3</a> , <a href="#">NM_020480.4</a> , <a href="#">NM_020478.1</a> , <a href="#">NM_020478.2</a> , <a href="#">NM_020478.3</a> , <a href="#">NM_020478.4</a> , <a href="#">NM_020477.1</a> , <a href="#">NM_020477.2</a> , <a href="#">NM_020475.1</a> , <a href="#">NM_020475.2</a> , <a href="#">NM_000037.1</a> , <a href="#">NM_000037.2</a> , <a href="#">NM_000037.3</a> , <a href="#">NM_020476.1</a> , <a href="#">NM_020476.2</a> , <a href="#">NM_001142445.1</a> , <a href="#">NM_001142446.1</a> , <a href="#">NM_020479.2</a> , <a href="#">NM_020481.2</a> , <a href="#">BC007930</a> , <a href="#">BC014467</a> , <a href="#">BC030957</a> , <a href="#">BC117121</a> , <a href="#">BC156401</a> , <a href="#">NM_020476.3</a> , <a href="#">NM_000037.4</a> , <a href="#">NM_020478.5</a> , <a href="#">NM_001142446.2</a> , <a href="#">NM_001142445.2</a> , <a href="#">NM_020480.5</a> , <a href="#">NM_020477.3</a> , <a href="#">NM_020475.3</a>
UniProt ID:	<a href="#">P16157</a>



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<b>Summary:</b>	<p>Ankyrins are a family of proteins that link the integral membrane proteins to the underlying spectrin-actin cytoskeleton and play key roles in activities such as cell motility, activation, proliferation, contact and the maintenance of specialized membrane domains. Multiple isoforms of ankyrin with different affinities for various target proteins are expressed in a tissue-specific, developmentally regulated manner. Most ankyrins are typically composed of three structural domains: an amino-terminal domain containing multiple ankyrin repeats; a central region with a highly conserved spectrin binding domain; and a carboxy-terminal regulatory domain which is the least conserved and subject to variation. Ankyrin 1, the prototype of this family, was first discovered in the erythrocytes, but since has also been found in brain and muscles. Mutations in erythrocytic ankyrin 1 have been associated in approximately half of all patients with hereditary spherocytosis. Complex patterns of alternative splicing in the regulatory domain, giving rise to different isoforms of ankyrin 1 have been described. Truncated muscle-specific isoforms of ankyrin 1 resulting from usage of an alternate promoter have also been identified. [provided by RefSeq, Dec 2008]</p>
<b>shRNA Design:</b>	<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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a>. If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a>.</p>
<b>Performance Guaranteed:</b>	<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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a>. 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>