

## Product datasheet for **TL314767**

### Annexin VII (ANXA7) Human shRNA Plasmid Kit (Locus ID 310)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Annexin VII (ANXA7) Human shRNA Plasmid Kit (Locus ID 310)
Locus ID:	310
Synonyms:	ANX7; SNX; SYNEXIN
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	ANXA7 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 310). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_001156</a> , <a href="#">NM_001320879</a> , <a href="#">NM_001320880</a> , <a href="#">NM_004034</a> , <a href="#">NM_001156.1</a> , <a href="#">NM_001156.2</a> , <a href="#">NM_001156.3</a> , <a href="#">NM_001156.4</a> , <a href="#">NM_004034.1</a> , <a href="#">NM_004034.2</a> , <a href="#">NM_004034.3</a> , <a href="#">BC002632</a> , <a href="#">BC002632.2</a> , <a href="#">BC001322</a> , <a href="#">NM_001156.5</a> , <a href="#">NM_004034.4</a>
UniProt ID:	<a href="#">P20073</a>
Summary:	Annexin VII is a member of the annexin family of calcium-dependent phospholipid binding proteins. The Annexin VII gene contains 14 exons and spans approximately 34 kb of DNA. An alternatively spliced cassette exon results in two mRNA transcripts of 2.0 and 2.4 kb which are predicted to generate two protein isoforms differing in their N-terminal domain. The alternative splicing event is tissue specific and the mRNA containing the cassette exon is prevalent in brain, heart and skeletal muscle. The transcripts also differ in their 3'-non coding regions by the use of two alternative poly(A) signals. Annexin VII encodes a protein with a molecular weight of approximately 51 kDa with a unique, highly hydrophobic N-terminal domain of 167 amino acids and a conserved C-terminal region of 299 amino acids. The latter domain is composed of alternating hydrophobic and hydrophilic segments. Structural analysis of the protein suggests that Annexin VII is a membrane binding protein with diverse properties, including voltage-sensitive calcium channel activity, ion selectivity and membrane fusion. [provided by RefSeq, Jul 2008]



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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](mailto: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](mailto: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).