

## Product datasheet for TR313102

## FADS1 Human shRNA Plasmid Kit (Locus ID 3992)

**Product data:** 

**Product Type:** shRNA Plasmids

**Product Name:** FADS1 Human shRNA Plasmid Kit (Locus ID 3992)

Locus ID:

D5D; FADS6; FADSD5; LLCDL1; TU12 Synonyms:

pRS (TR20003) Vector:

E. coli Selection: Ampicillin Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

Components: FADS1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

3992). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

NM 013402, NM 013402.2, NM 013402.3, NM 013402.4, BC007846, BC007846.2, RefSeq:

NM 013402.7

UniProt ID: 060427

**Summary:** The protein encoded by this gene is a member of the fatty acid desaturase (FADS) gene

> family. Desaturase enzymes regulate unsaturation of fatty acids through the introduction of double bonds between defined carbons of the fatty acyl chain. FADS family members are considered fusion products composed of an N-terminal cytochrome b5-like domain and a Cterminal multiple membrane-spanning desaturase portion, both of which are characterized by conserved histidine motifs. This gene is clustered with family members FADS1 and FADS2 at 11q12-q13.1; this cluster is thought to have arisen evolutionarily from gene duplication

based on its similar exon/intron organization. [provided by RefSeq, Jul 2008]

shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To

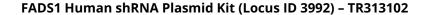
> be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.



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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).