

Product datasheet for TF302824

OriGene Technologies, Inc.

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OBSCN Human shRNA Plasmid Kit (Locus ID 84033)

Product data:

Product Type: shRNA Plasmids

Product Name: OBSCN Human shRNA Plasmid Kit (Locus ID 84033)

Locus ID: 84033

Synonyms: ARHGEF30; UNC89

Vector: pRFP-C-RS (TR30014)

E. coli Selection: Chloramphenicol (34 ug/ml)

Mammalian Cell

Selection:

Puromycin

Format: Retroviral plasmids

Components: OBSCN - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 84033).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.

RefSeq: NM 001098623, NM 001271223, NM 052843, NM 052843.1, NM 052843.2, NM 052843.3,

NM 001098623.1, BC034746, BC043916, BC098118, BC098262, BC098292, BC099731,

BC114382, BC114461

UniProt ID: Q5VST9

Summary: The obscurin gene spans more than 150 kb, contains over 80 exons and encodes a protein of

approximately 720 kDa. The encoded protein contains 68 lg domains, 2 fibronectin domains, 1 calcium/calmodulin-binding domain, 1 RhoGEF domain with an associated PH domain, and 2 serine-threonine kinase domains. This protein belongs to the family of giant sacromeric signaling proteins that includes titin and nebulin, and may have a role in the organization of myofibrils during assembly and may mediate interactions between the sarcoplasmic

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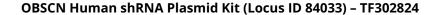
reticulum and myofibrils. Alternatively spliced transcript variants encoding different isoforms

have been identified. [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 <u>techsupport@origene.com</u>. 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).