

## Product datasheet for **TR308499**

### UGT2A1 Human shRNA Plasmid Kit (Locus ID 10941)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	UGT2A1 Human shRNA Plasmid Kit (Locus ID 10941)
Locus ID:	10941
Synonyms:	UDPGT2A1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	UGT2A1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 10941). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001252274</a> , <a href="#">NM_001252275</a> , <a href="#">NM_001301239</a> , <a href="#">NM_006798</a> , <a href="#">NM_006798.1</a> , <a href="#">NM_006798.2</a> , <a href="#">NM_006798.3</a> , <a href="#">NM_006798.4</a> , <a href="#">NM_001252275.1</a> , <a href="#">NM_001252275.2</a> , <a href="#">NM_001252274.1</a> , <a href="#">NM_001252274.2</a> , <a href="#">NM_001301239.1</a> , <a href="#">BC142640</a> , <a href="#">BC156239</a> , <a href="#">BC157012</a>
UniProt ID:	<a href="#">Q9Y4X1</a>
Summary:	The protein encoded by this gene belongs to the UDP-glycosyltransferase family, members of which catalyze biotransformation reactions in which lipophilic substrates are conjugated with glucuronic acid to increase water solubility and enhance excretion. They are of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds. This enzyme is expressed in the olfactory neuroepithelium, which lines the posterior nasal cavity and is exposed to a wide range of odorants and airborne toxic compounds. Hence, this protein has been suggested to be involved in clearing lipophilic odorant molecules from the sensory epithelium. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. This gene shares exon structure with the UDP glucuronosyltransferase 2A2 family member, which encodes N-terminally distinct isoforms. [provided by RefSeq, Jul 2014]
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 <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> .



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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](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).