

## Product datasheet for **TG320347**

### Estrogen Receptor beta (ESR2) Human shRNA Plasmid Kit (Locus ID 2100)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Estrogen Receptor beta (ESR2) Human shRNA Plasmid Kit (Locus ID 2100)
Locus ID:	2100
Synonyms:	ER-BETA; Erb; ESR-BETA; ESRB; ESTRB; NR3A2; ODG8
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	ESR2 - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 2100). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	<a href="#">NM_001040275</a> , <a href="#">NM_001040276</a> , <a href="#">NM_001214902</a> , <a href="#">NM_001214903</a> , <a href="#">NM_001271876</a> , <a href="#">NM_001271877</a> , <a href="#">NM_001291712</a> , <a href="#">NM_001291723</a> , <a href="#">NM_001437</a> , <a href="#">NR_073496</a> , <a href="#">NR_073497</a> , <a href="#">NR_073505</a> , <a href="#">NM_001040275.1</a> , <a href="#">NM_001040276.1</a> , <a href="#">NM_001437.1</a> , <a href="#">NM_001437.2</a> , <a href="#">NM_001271877.1</a> , <a href="#">NM_001214903.1</a> , <a href="#">NM_001271876.1</a> , <a href="#">NM_001214902.1</a> , <a href="#">NM_001291712.1</a> , <a href="#">NM_001291723.1</a> , <a href="#">BC024181</a> , <a href="#">NM_001291712.2</a>
UniProt ID:	<a href="#">Q92731</a>
Summary:	This gene encodes a member of the family of estrogen receptors and superfamily of nuclear receptor transcription factors. The gene product contains an N-terminal DNA binding domain and C-terminal ligand binding domain and is localized to the nucleus, cytoplasm, and mitochondria. Upon binding to 17beta-estradiol or related ligands, the encoded protein forms homo- or hetero-dimers that interact with specific DNA sequences to activate transcription. Some isoforms dominantly inhibit the activity of other estrogen receptor family members. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been fully characterized. [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 <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).