

## Product datasheet for **TF320326**

### EGFR Human shRNA Plasmid Kit (Locus ID 1956)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	EGFR Human shRNA Plasmid Kit (Locus ID 1956)
Locus ID:	1956
Synonyms:	ERBB; ERBB1; ERBP; HER1; mENA; NISBD2; PIG61
Vector:	pRFP-C-RS (TR30014)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	EGFR - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 1956). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
RefSeq:	<u><a href="#">NM_005228</a></u> , <u><a href="#">NM_201282</a></u> , <u><a href="#">NM_201283</a></u> , <u><a href="#">NM_201284</a></u> , <u><a href="#">NM_001346897</a></u> , <u><a href="#">NM_001346898</a></u> , <u><a href="#">NM_001346899</a></u> , <u><a href="#">NM_001346900</a></u> , <u><a href="#">NM_001346941</a></u> , <u><a href="#">NM_201283.1</a></u> , <u><a href="#">NM_201282.1</a></u> , <u><a href="#">NM_201284.1</a></u> , <u><a href="#">NM_005228.1</a></u> , <u><a href="#">NM_005228.2</a></u> , <u><a href="#">NM_005228.3</a></u> , <u><a href="#">NM_005228.4</a></u> , <u><a href="#">BC070081</a></u> , <u><a href="#">BC094761</a></u> , <u><a href="#">BC118665</a></u> , <u><a href="#">BC128419</a></u> , <u><a href="#">NM_201284.2</a></u> , <u><a href="#">NM_201282.2</a></u> , <u><a href="#">NM_201283.2</a></u>
UniProt ID:	<u><a href="#">P00533</a></u>
Summary:	The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor, thus inducing receptor dimerization and tyrosine autophosphorylation leading to cell proliferation. Mutations in this gene are associated with lung cancer. EGFR is a component of the cytokine storm which contributes to a severe form of Coronavirus Disease 2019 (COVID-19) resulting from infection with severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2). [provided by RefSeq, Jul 2020]
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).