

Product datasheet for TL509941

Egfr Mouse shRNA Plasmid (Locus ID 13649)

Product data:

Product Type: shRNA Plasmids

Product Name: Egfr Mouse shRNA Plasmid (Locus ID 13649)

Locus ID:

9030024|15Rik; AI552599; Erbb; Errb1; Errp; wa-2; wa2; Wa5 Synonyms:

pGFP-C-shLenti (TR30023) Vector:

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

Mammalian Cell

Selection:

Puromycin

Format: Lentiviral plasmids

Egfr - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 13649). 5µg Components:

purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.

BC023729, NM 007912, NM 207655, NM 007912.1, NM 007912.2, NM 007912.3, RefSeq:

NM 007912.4, NM 207655.1, NM 207655.2, BC030681

UniProt ID: Q01279

Summary: Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling

cascades to convert extracellular cues into appropriate cellular responses (PubMed:8404850).

Known ligands include EGF, TGFA/TGF-alpha, AREG, epigen/EPGN, BTC/betacellulin,

epiregulin/EREG and HBEGF/heparin-binding EGF. Ligand binding triggers receptor homoand/or heterodimerization and autophosphorylation on key cytoplasmic residues. The

phosphorylated receptor recruits adapter proteins like GRB2 which in turn activates complex

downstream signaling cascades. Activates at least 4 major downstream signaling cascades including the RAS-RAF-MEK-ERK, PI3 kinase-AKT, PLCgamma-PKC and STATs modules. May also activate the NF-kappa-B signaling cascade. Also directly phosphorylates other proteins like RGS16, activating its GTPase activity and probably coupling the EGF receptor signaling to

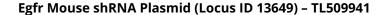
the G protein-coupled receptor signaling. Also phosphorylates MUC1 and increases its interaction with SRC and CTNNB1/beta-catenin (By similarity). Plays a role in enhancing [learning and memory performance (PubMed:20639532).[UniProtKB/Swiss-Prot Function]



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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.

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).