

## Product datasheet for **TR304515**

### FGF8 Human shRNA Plasmid Kit (Locus ID 2253)

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | shRNA Plasmids   |
| Product Name:             | FGF8 Human shRNA Plasmid Kit (Locus ID 2253)   |
| Locus ID:                 | 2253   |
| Synonyms:                 | AIGF; FGF-8; HBGF-8; HH6; KAL6   |
| Vector:                   | pRS (TR20003)  |
| E. coli Selection:        | Ampicillin   |
| Mammalian Cell Selection: | Puromycin  |
| Format:                   | Retroviral plasmids  |
| Components:               | FGF8 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 2253). 5µg purified plasmid DNA per construct<br>29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.  |
| RefSeq:                   | <a href="#">NM_001206389</a> , <a href="#">NM_006119</a> , <a href="#">NM_033163</a> , <a href="#">NM_033164</a> , <a href="#">NM_033165</a> , <a href="#">NM_033163.1</a> , <a href="#">NM_033163.2</a> , <a href="#">NM_033164.1</a> , <a href="#">NM_033164.2</a> , <a href="#">NM_033164.3</a> , <a href="#">NM_006119.1</a> , <a href="#">NM_006119.2</a> , <a href="#">NM_006119.3</a> , <a href="#">NM_006119.4</a> , <a href="#">NM_033165.1</a> , <a href="#">NM_033165.2</a> , <a href="#">NM_033165.3</a> , <a href="#">NM_001206389.1</a> , <a href="#">BC128236</a> , <a href="#">BC069106</a> , <a href="#">BC128235</a> , <a href="#">NM_033165.5</a> , <a href="#">NM_001206389.2</a> , <a href="#">NM_033164.4</a> , <a href="#">NM_033163.5</a> , <a href="#">NM_006119.6</a>  |
| UniProt ID:               | <a href="#">P55075</a>   |
| Summary:                  | The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein is known to be a factor that supports androgen and anchorage independent growth of mammary tumor cells. Overexpression of this gene has been shown to increase tumor growth and angiogenesis. The adult expression of this gene is restricted to testes and ovaries. Temporal and spatial pattern of this gene expression suggests its function as an embryonic epithelial factor. Studies of the mouse and chick homologs revealed roles in midbrain and limb development, organogenesis, embryo gastrulation and left-right axis determination. The alternative splicing of this gene results in four transcript variants. [provided by RefSeq, Jul 2008] |



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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](mailto: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](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).