

## Product datasheet for **TG312470**

### HFE Human shRNA Plasmid Kit (Locus ID 3077)

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | shRNA Plasmids   |
| Product Name:             | HFE Human shRNA Plasmid Kit (Locus ID 3077)  |
| Locus ID:                 | 3077   |
| Synonyms:                 | HFE1; HH; HLA-H; MVCD7; TFQTL2   |
| Vector:                   | pGFP-V-RS (TR30007)  |
| E. coli Selection:        | Kanamycin  |
| Mammalian Cell Selection: | Puromycin  |
| Format:                   | Retroviral plasmids  |
| Components:               | HFE - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 3077). 5µg purified plasmid DNA per construct<br>29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.  |
| RefSeq:                   | <a href="#">NM_000410</a> , <a href="#">NM_001300749</a> , <a href="#">NM_139002</a> , <a href="#">NM_139003</a> , <a href="#">NM_139004</a> , <a href="#">NM_139005</a> , <a href="#">NM_139006</a> , <a href="#">NM_139007</a> , <a href="#">NM_139008</a> , <a href="#">NM_139009</a> , <a href="#">NM_139010</a> , <a href="#">NM_139011</a> , <a href="#">NM_000410.1</a> , <a href="#">NM_000410.2</a> , <a href="#">NM_000410.3</a> , <a href="#">NM_139004.1</a> , <a href="#">NM_139004.2</a> , <a href="#">NM_139007.1</a> , <a href="#">NM_139007.2</a> , <a href="#">NM_139010.1</a> , <a href="#">NM_139010.2</a> , <a href="#">NM_139003.1</a> , <a href="#">NM_139003.2</a> , <a href="#">NM_139006.1</a> , <a href="#">NM_139006.2</a> , <a href="#">NM_139009.1</a> , <a href="#">NM_139009.2</a> , <a href="#">NM_139008.1</a> , <a href="#">NM_139008.2</a> , <a href="#">NM_139011.1</a> , <a href="#">NM_139011.2</a> , <a href="#">NM_001300749.1</a> , <a href="#">NM_139002.1</a> , <a href="#">NM_139005.1</a> , <a href="#">BC074721</a> , <a href="#">BC117201</a> , <a href="#">BC117203</a> , <a href="#">BC143887</a> , <a href="#">NM_139010.3</a> , <a href="#">NM_139003.3</a> , <a href="#">NM_139009.3</a> , <a href="#">NM_139011.3</a> , <a href="#">NM_139004.3</a> , <a href="#">NM_139008.3</a> , <a href="#">NM_139006.3</a> , <a href="#">NM_139007.3</a> , <a href="#">NM_001300749.2</a> , <a href="#">NM_000410.4</a> |
| UniProt ID:               | <a href="#">Q30201</a>   |
| Summary:                  | The protein encoded by this gene is a membrane protein that is similar to MHC class I-type proteins and associates with beta2-microglobulin (beta2M). It is thought that this protein functions to regulate iron absorption by regulating the interaction of the transferrin receptor with transferrin. The iron storage disorder, hereditary haemochromatosis, is a recessive genetic disorder that results from defects in this gene. At least nine alternatively spliced variants have been described for this gene. Additional variants have been found but their full-length nature has not been determined. [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).