

## Product datasheet for **RG237744**

### **KLF5 (NM\_001286818) Human Tagged ORF Clone**

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | KLF5 (NM_001286818) Human Tagged ORF Clone                                     |
| Tag:                      | TurboGFP   |
| Symbol:                   | KLF5   |
| Synonyms:                 | BTEB2; CKLF; IKLF  |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-AC-GFP (PS100010)  |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |
| ORF Nucleotide Sequence:  | >RG237744 representing NM_001286818.<br>Blue=ORF Red=Cloning site Green=Tag(s) |

```
GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGAAGTATCTGACACCTCAGCTTCTCCAGTTCTATAATTCCAGAGCATAAAAAGTATAGACGA
GACAGTGCCTCAGTCGTAGACCAGTTCTTCACTGACACTGAAGGGTTACCTTACAGTATCAACATGAAC
GTCTTCTCCCTGACATCACTCACCTGAGAAGTGGCCTCTACAAATCCCAGAGACCGTGCCTAACACAC
ATCAAGACAGAACCTGTTGCCATTTTCAGCCACCAGAGTGAAACGACTGCCCTCTCCGGCCCCGACC
CAGGCCCTCCCTGAGTTCACCAGTATATTCAGCTCACACCAGACCGCAGCTCCAGAGGTGAACAATATT
TTCATCAACAAGAAGTCTCTACACCAGATCTTATCTTTCTGTCCCTACCCAGCAGGGCCACCTGTAC
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AATGTTTCTATGTGAGTGCATGGCAGGCCTAACACACACACCTCTGTGTTCCCGCAGACTGCAGTG
AAACAATCCAGGGCATGCCCTTGCACATACACAATGCCAAGTCAGTTTCTTCCACAACAGGCCACT
TACTTTCCCCCGTACCACCAAGCTCAGAGCCTGGAAGTCCAGATAGACAAGCAGAGATGCTCCAGAAT
TTAACCCACCTCCATCCTATGCTGCTACAATTGCTTCTAACTGGCAATTCACAATCCAATTTACCC
ACCACCTGCCAGTTAACTCACAAAACATCCAACCTGTGAGTACAATAGAAGGAGTAACCCCGATTTG
GAGAAACGACGCATCCACTACTGCGATTACCCTGGTTGCACAAAAGTTTATACCAAGTCTTCTCATTTA
AAAGCTCACCTGAGGACTCACACTGGTGAAAAGCCATACAAGTGTACCTGGGAAGGCTGCGACTGGAGG
TTCGCGGATCGGATGAGCTGACCCGCCACTACGGGAAGCACACAGGCGCCAAGCCCTTCCAGTGGGG
GTGTGCAACCGCAGCTTCTCGCGCTCTGACCACCTGGCCCTGCATATGAAGAGGCACCAGAAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237744  
 Blue=ORF Red=Cloning site Green=Tag(s)

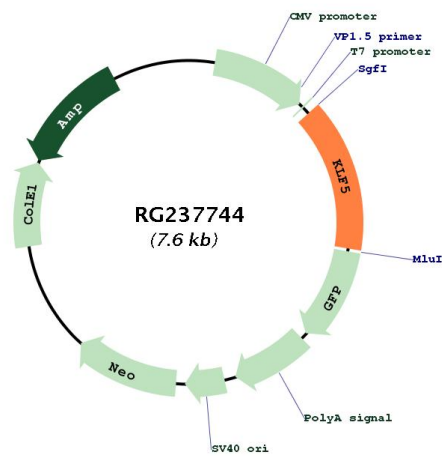
MEKYLTPQLPPVPIIPEHKKYRRDSASVVDQFFTDTEGLPYSINMNVFLPDIHLRTGLYKSQRPCVTH  
 IKTEPVAIFSHQSETTAPPPAPTQALPEFTSIFSSHQTAPEVNNIFIKQELPTPDLHLSVPTQQGHLY  
 QLLNTPDLDMPSSTNQTAAMDTLNVMSAAMAGLNTHTSAVPQTAVKQFQGMPPCTYTMPQSFLPQQAT  
 YFPPSPPSSEPGSPDRQAEMLQNLTPPPSYAATIASKLAIHNPPLPTTLPVNSQNIQPVRYNRRSNPDL  
 EKRRRIHYCDYPGCTKVYTKSSHLKAHLRTHTGEKPYKCTWEGCDWRFARDELTRHYRKHTGAKPFQCG  
 VCNRSFSRSDHLALHMKRHQN  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



|                          |  |
|--------------------------|--|
| <b>ACCN:</b>             | NM_001286818   |
| <b>ORF Size:</b>         | 1098 bp  |
| <b>OTI Disclaimer:</b>   | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>   |
| <b>OTI Annotation:</b>   | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <b>Components:</b>       | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).   |
| <b>RefSeq:</b>           | <a href="#">NM_001286818.1</a> , <a href="#">NP_001273747.1</a>  |
| <b>RefSeq Size:</b>      | 2969 bp  |
| <b>RefSeq ORF:</b>       | 1101 bp  |
| <b>Locus ID:</b>         | 688  |
| <b>UniProt ID:</b>       | <a href="#">Q13887</a>   |
| <b>Cytogenetics:</b>     | 13q22.1  |
| <b>Protein Families:</b> | Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors   |
| <b>MW:</b>               | 41.6 kDa   |
| <b>Gene Summary:</b>     | This gene encodes a member of the Kruppel-like factor subfamily of zinc finger proteins. The encoded protein is a transcriptional activator that binds directly to a specific recognition motif in the promoters of target genes. This protein acts downstream of multiple different signaling pathways and is regulated by post-translational modification. It may participate in both promoting and suppressing cell proliferation. Expression of this gene may be changed in a variety of different cancers and in cardiovascular disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2013] |