

## Product datasheet for **RC237744**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KLF5 (NM\_001286818) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** KLF5  
**Synonyms:** BTEB2; CKLF; IKLF  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC237744 representing NM\_001286818  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGAGAAGTATCTGACACCTCAGCTTCCTCCAGTTCCTATAATTCCAGAGCATAAAAAGTATAGACGAG  
 ACAGTGCCTCAGTCGTAGACCAGTTCCTACTGACACTGAAGGGTTACCTTACAGTATCAACATGAACGT  
 TTCCTCCCTGACATCACTCACCTGAGAACTGGCCTCTACAAATCCAGAGACCGTGCCTAACACACATC  
 AAGACAGAACCTGTTGCCATTTTCAGCCACCAGAGTGAAACGACTGCCCTCCTCCGGCCCCGACCCAGG  
 CCCTCCCTGAGTTCACCAAGTATATTCAGCTCACACCAGACCGCAGCTCCAGAGGTGAACAATATTTTCAT  
 CAAACAAGAACTTCCTACACCAGATCTTCATCTTTCTGTCCCTACCCAGCAGGGCCACCTGTACCAGCTA  
 CTGAATACACCGGATCTAGATATGCCAGTTCTACAAATCAGACAGCAGCAATGGACACTCTAATGTTT  
 CTATGTCAGTGCCATGGCAGGCCTAACACACACACCTCTGCTGTTCCGCAGACTGCAGTGAAACAATT  
 CCAGGGCATGCCCCCTTGACATACACAATGCCAAGTCAGTTTCTCCACAACAGGCCACTTACTTTCCC  
 CCGTCACCACCAAGCTCAGAGCCTGGAAGTCCAGATAGACAAGCAGAGATGCTCCAGAATTTAACCCAC  
 CTCCATCCTATGCTGCTACAATTGCTTCTAACTGGCAATTCACAATCCAAATTTACCCACCACCCTGCC  
 AGTTAACTCACAAAACATCCAACCTGTCAGATACAATAGAAGGAGTAACCCCGATTTGGAGAAACGACGC  
 ATCCACTACTGCGATTACCCTGGTTGCACAAAAGTTTATACCAAGTCTTCTCATTAAAAAGCTCACCTGA  
 GGACTCACACTGGTGAAAAGCCATACAAGTGTACCTGGGAAGGCTGCGACTGGAGGTTCCGCGCATCGGA  
 TGAGCTGACCCGCCACTACCGGAAGCACACAGGCGCAAGCCCTTCCAGTGCAGGGGTGTGCAACCGCAGC  
 TTCTCGCGCTCTGACCACCTGGCCCTGCATATGAAGAGGCCACCAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237744 representing NM\_001286818  
 Red=Cloning site Green=Tags(s)

MEKYLTPQLPPVPIIPEHKKYRRDSASVVDQFFTDTEGLPYSINMNVFLPDITHLRTGLYKSQRPCVTHI  
 KTEPVAFSHQSETTAPPPAPTQALPEFTSIFSSHQTAPEVNNIFIKQELPTPDLHLSVPTQQGHLYQL  
 LNTPLDMPSSNTQTAAMDTLNVSMSAAMAGLNTHTSAVPQTAVKQFQGMPPCTYTMP SQFLPQQATYFP  
 PSPPSSEPGSPDRQAEMLQNLTPPPSYAATIASKLAIHNPPLPTTLPVNSQNIQPVRYNRRSNPDLEKRR  
 IHYCDYPGCTKVYTKSSHLKAHLRTHTGEKPYKCTWEGCDWRFARSDELTRHYRKHTGAKPFQCGVCNRS  
 FSRSDHLALHMKRHQN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

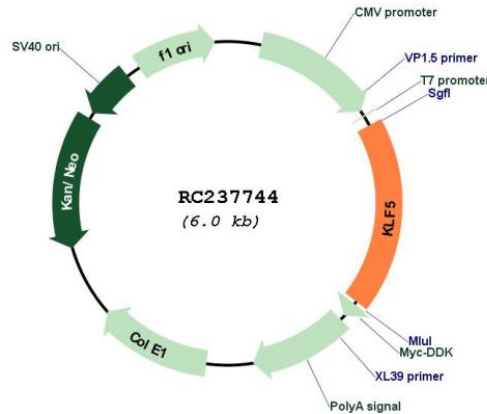
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** 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>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>  |
| <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] |