

## Product datasheet for **SC110894**

### **KGF (FGF7) (NM\_002009) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KGF (FGF7) (NM_002009) Human Untagged Clone
Tag:	Tag Free
Symbol:	KGF
Synonyms:	HBGF-7; KGF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110894 sequence for NM_002009 edited (data generated by NextGen Sequencing) ATGCACAAATGGATACTGACATGGATCCTGCCAACTTTGCTCTACAGATCATGCTTTCAC ATTATCTGTCTAGTGGGTACTATATCTTTAGCTTGCAATGACATGACTCCAGAGCAAATG GCTACAAATGTGAACTGTTCCAGCCCTGAGCGACACACAAGAAGTTATGATTACATGGAA GGAGGGGATATAAGAGTGAGAAGACTCTTCTGTGCAACACAGTGGTACCTGAGGATCGAT AAAAGAGGCAAAGTAAAAGGGACCCAAGAGATGAAGAATAATTACAATATCATGGAAATC AGGACAGTGGCAGTTGGAATTGTGGCAATCAAAGGGGTGGAAAGTGAATTCTATCTTGCA ATGAACAAGGAAGGAAAACCTCTATGCAAAGAAAGAATGCAATGAAGATTGTAACCTCAA GAACTAATTCTGGAAAACATTACAACACATATGCAKACAGCTAAATGGACACACAACGGA GGGGAAATGTTTGTGKCCTTAAATCAAAAGGGGATTCTGTGAAGAGGAAAAAACGAAG AAAGAACAAAAACAGCCCACTTTCTTCTATGGCAATAACTTAA  Clone variation with respect to NM_002009.3 457 t=>k;495 t=>k



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002009 unedited  
 GTATTTTGTAAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGCACGCGCTCAC  
 ACACAGAGAGAAAATCCTTCTGCCTGTTNGATTATGGAAACAATTATGATTCTGCTGGA  
 GAACTTTTCAGCTGAGAAAATAGTTTGTAGCTACAGTAGAAAGGCTCAAGTTGCACCAGGC  
 AGACAACAGACATGGAATCTTATATATCCAGCTGTTAGCAACAAAACAAAAGTCAAATA  
 GCAAACAGCGTCACAGCAACTGAACTTACTACGAACTGTTTTTATGAGGATTTATCAACA  
 GAGTTATTTAAGGAGGAATCCTGTGTTGTTATCAGGAACAAAAGGATAAAGCTAACAAAT  
 TTGGAAAGAGCAACTACTCTTTCTTAAATCAATCTACAATTCACAGATAGGAAGAGGTCA  
 ATGACCTAGGAGTAACAATCAACTCAAGATTCATTTTCATTATGTTATTTCATGAACACCC  
 GGAGCACTACACTATAATGCACAAATGGATACTGACATGGATCCTGCCAACTTTGCTCTA  
 CAGATCATGCTTTCACATTATCTGTCTAGTGGTACTATATCTTTAGCTTGCAATGACAT  
 GACTCCAGAGCAAATGGCTACAAATGTGAACTGTTCCAGCCCTGAGCGACACACAAGAAG  
 TTATGATTACATGGAAGGAGGGGATATAAGAGTGAGAAGACTCTTCTGTGCAACACAGTG  
 GTACCTGAGGATCGATAAAAGAGGCAAAGTAAAAGGGACCCAAGAGATGAAGAATAATTA  
 CAATATCATGGAATCAGGACAGTGGCAGTTGGAATTGTGGCATCAAAGGGTGGAAAGTGA  
 ATTCTATCTGCATGAACAGGNANGAAAACCTCTATGCAAGAAGATGCAATGAGATTGACT  
 TCAAGACTATTCTGGAACCATTACACTATGCTCAGCTAATGGACACACACGAGGGGAA  
 ATGTTGTGCCTAATAAAGGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002009 unedited  
 ATGGAACGCGGCACGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTCTAATTGTTAGAA  
 ACTCATGTATTTAATTTTATCTTTCAAAGAACATTTTTAAAAGGCTTACTCTGCTTATAT  
 GTATATTTTGCACAAAGCTTCCATTCAATAACAAAAGGTGAATAGGAATCAGAATTGAA  
 AACTACATAAATTTCTTTTCTCTTTTGTAGTCAAATCATCACAGTATAGATTAGTCATTGT  
 GTATGAAGTGCATTGCCAAGACATAGTCACATTTGTGTACAAATGTAAGGCTATATCTC  
 AACAGAAATAAAAAACAAAACATGCCAAAGACCATTAGCTAATAATACTAATAATCGAA  
 GAGTAGAAAGCATGTGCTAACTGATCTAGACTCTTGTGACAGCTGTATATCTACCCAGCT  
 GCGTGACCTTAGGTGTATCAAAATCTCAATTTCTATACTACAAATGAGTAAGAGGGATG  
 GAGGCCCTCACAGTTTTAATTTCTAGAATTTCTAAAGGTGCGTAACTAGAGCAAATTTT  
 ATTTTCTAAATTTGCATACTAAATTTAAAATAGGAGAAAAACAAATAATTAAGTACATA  
 TTTCTAGAAGTCTTTTTAGGCGACTTATACTACCAAGAATGGATTTACCACTAAATGTAG  
 GTTTTGGCAATTCACACTTTGCTATGTAATCTGATGGAAGATAACTCCATAGACAAAGAC  
 ATTTGGCCCAAATAACTTGAATTTATATGCATATACACTATTCTATTAAATTCCTCGGA  
 TAGACAAGTCTAACCTTTAAAAGAAAAATAACCTAAAGGGAATTTCTTTGGCTATAAA  
 CTTTCAGGGAATCCCCTGGAAACCGTTTATAAACAAACGCCCTAGGCCTAAGGAACCCAC  
 TGAAAACATTCCCCCCCCGCCCATATCCACAAAATAACTTCTTAACCCGACCTAAACA  
 TATAGCA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002009

**Insert Size:**

3800 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**Components:**

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_002009.2</a> , <a href="#">NP_002000.1</a>
<b>RefSeq Size:</b>	3853 bp
<b>RefSeq ORF:</b>	585 bp
<b>Locus ID:</b>	2252
<b>UniProt ID:</b>	<a href="#">P21781</a>
<b>Cytogenetics:</b>	15q21.2
<b>Domains:</b>	FGF
<b>Protein Families:</b>	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Secreted Protein
<b>Protein Pathways:</b>	MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton
<b>Gene Summary:</b>	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 a potent epithelial cell-specific growth factor, whose mitogenic activity is predominantly exhibited in keratinocytes but not in fibroblasts and endothelial cells. Studies of mouse and rat homologs of this gene implicated roles in morphogenesis of epithelium, reepithelialization of wounds, hair development and early lung organogenesis. [provided by RefSeq, Jul 2008]