

## Product datasheet for **SC119596**

### SCF (KITLG) (NM\_000899) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SCF (KITLG) (NM_000899) Human Untagged Clone
Tag:	Tag Free
Symbol:	SCF
Synonyms:	DCUA; DFNA69; FPH2; FPHH; Kitl; KL-1; MGF; SCF; SF; SHEP7; SLF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119596 sequence for NM_000899 edited (data generated by NextGen Sequencing)

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ATGAAGAAGACACAAACTTGGATTCTCACTTGCATTTATCTTCAGCTGCTCCTATTTAAT
CCTCTCGTCAAAACTGAAGGGATCTGCAGGAATCGTGTGACTAATAATGTAAAAGACGTC
ACTAAATTGGTGGCAAATCTTCCAAAAGACTACATGATAACCCTCAAATATGTCCCGGG
ATGGATGTTTTGCCAAGTCATTGTTGGATAAGCGAGATGGTAGTACAATTGTGACACAGC
TTGACTGATCTTCTGGACAAGTTTTCAAATATTTCTGAAGGCTTGAGTAATTATCCATC
ATAGACAAACTTGTGAATATAGTGGATGACCTTGTGGAGTGCCTGAAAGAAAACATCT
AAGGATCAAAAAATCATTCAAGAGCCCAGAACCAGGCTCTTACTCCTGAAGAATTC
TTTAGAATTTTTAATAGATCCATTGATGCCTTCAAGGACTTTGTAGTGGCATCTGAAACT
AGTGATTGTGGTTTTCTCAACATTAAGTCTGAGAAAGATTCCAGAGTCAGTGTGACA
AAACCATTATGTTACCCCTGTTGCAGCCAGCTCCCTTAGGAATGACAGCAGTAGCAGT
AATAGGAAGGCCAAAAATCCCCCTGGAGACTCCAGCCTACACTGGGCAGCCATGGCATTG
CCAGCATTGTTTTCTTATAATTGGCTTTGCTTTGGAGCCTTATACTGGAAGAAGAGA
CAGCCAAGTCTTACAAGGGCAGTTGAAAATATACAAATTAATGAAGAGGATAATGAGATA
AGTATGTTGCAAGAGAAAGAGAGAGAGTTTCAAGAAGTGTA
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Clone variation with respect to NM\_000899.4



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_000899 unedited  GGGTGCAAATTATGTATACGACTCACTTAGGCGGCCGCGAAATTCGCACGAGGGAACAGC  TAAACGGAGTCGCCACACCCTGTTTGTGCTGGATCGCAGCGCTGCCTTTCCTTATGAAG  AAGACACAAACTGGATTCTCACTTGCATTTATCTTCAGCTGCTCCTATTTAATCCTCTC  GTCAAAACTGAAGGGATCTGCAGGAATCGTGTGACTAATAATGTAAGAGACGCTACTAAA  TTGGTGGCAAATCTTCCAAAAGACTACATGATAACCCCTCAAATATGTCCCGGGATGGAT  GTTTTGCCAAGTCAATTGTTGGATAAGCGAGATGGTAGTACAATTGTCAGACAGCTTGACT  GATCTTCTGGACAAGTTTTCAAATATTTCTGAAGGCTTGAGTAATTATTCCATCATAGAC  AACTTGTGAATATAGTGGATGACCTTGTGGAGTGCCTGAAAGAAAACCTCATCTAAGGAT  CTAAAAAATCATTCAAGAGCCCAGAACCAGGCTCTTACTCCTGAAGAATTCTTTAGAA  ATTTTTAATAGATCCATTGATGCCTTCAAGGACTTTGTAGTGGCATCTGAAACTAGTGAT  TGTGTGGTTTCTCAACATTAAGTCTGAGAAAGATTCCAGAGTCAGTGTACAAAACCA  TTTATGTTACCCCTGTTGCAGCCAGCTCCCTTANGAATGACAGCAGTAGCAGTAATAGG  AAGGCCAAAAATCCCTGGAGACTCCAGCCTACACTGNGCAGCCATGGCATTGCCAGCA  TTGTTTTCTTATAATTGGCTNTGCTTTTGGAGCCCTATACTTGGAGAAGAGACAGCCA  AGTCTTACAAGGGCAGTTGAAATATACCAATAATGAAGAGGATATGAGATAAGTTGTTGC  AAGAAAAGAGAGAGAGTTCAAGAGTGTATGTG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_000899 unedited  GGTTTAACTATGNNACCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTT  TTTTTTTTTTTGGAGAGTGCATAAAATCTTTATTTAGAACAAATAAAGTATATGTATATAT  CATGTAATTTTAAATTCAAACCTGTATAAAAAAGGTTGGGACATACACCTATTTTAAAA  AGTACACATACCGTATATACACATACCCATCACATTTTACAACCTTTTTTATTTAATTAA  ATTTCAAGTCATAATAGAACTATTTAAAAATAGTGTGCAGATACATTTACATTATTATATGC  AACTCCAATCTATGACTGAACTGAGGGTATATCTGCGCATCCATCTAAATTAATACTTT  TCAAGTCCATTGATTTAAAAAATGGTGGCAAGTGGACACTATAATCACATATTAACCCCT  TAGAATATAGAATAGAATATTTTATTGATGGAAAATTATATTTAGTGAGTATTGTAGCTCAA  AGATCAAGTACTGGAAAACGGTGTGGTTTTTAGTTAACAGTTGTTTTAATTTTATTGTT  AAAAACATCATAAGGATGTAGTTGGAGATGGCAGTTATAAATAAATTTACAATGCCTAGT  AAACATTTTCAAGTACACAAATATCCATTTTAGCATGGATTATTTCTTGAAAAAACACCT  TGTATATAAATGAAAGTACCATTATTTTATTTTTTACAACAAAAGCATTTCAGACTAGT  TAATGGGAAGCAGCACCTTATGAATTGGTATCAAACCTACCAATGAACCTATTAGAATTT  CAATCCGAATGTTTTATTTTAAAGCCCATTTCAAATAATATTGTTTCAAAGAAAAACTGG  TACTTTAAATCTTAAACCCCTTCCATTTTAAAGGGAATTTAAGAAATCACCCTTTTTA  AATGA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000899
<b>Insert Size:</b>	5000 bp
<b>OTI Disclaimer:</b>	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).
<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_000899.3</a> , <a href="#">NP_000890.1</a>
<b>RefSeq Size:</b>	5435 bp
<b>RefSeq ORF:</b>	822 bp
<b>Locus ID:</b>	4254
<b>UniProt ID:</b>	<a href="#">P21583</a>
<b>Cytogenetics:</b>	12q21.32
<b>Domains:</b>	SCF
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Melanogenesis, Pathways in cancer
<b>Gene Summary:</b>	<p>This gene encodes the ligand of the tyrosine-kinase receptor encoded by the KIT locus. This ligand is a pleiotropic factor that acts in utero in germ cell and neural cell development, and hematopoiesis, all believed to reflect a role in cell migration. In adults, it functions pleiotropically, while mostly noted for its continued requirement in hematopoiesis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (b) encodes the longer isoform (b) which contains the primary proteolytic-cleavage site; as a result, isoform b is largely a soluble product. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>