

## Product datasheet for **SC125816**

### GDF3 (NM\_020634) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GDF3 (NM_020634) Human Untagged Clone
Tag:	Tag Free
Symbol:	GDF3
Synonyms:	KFS3; MCOP7; MCOPCB6
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_020634 edited  
GAGTCTGGCAGTGGAGCTCTCCCCGGTCTGACAGCCACTCCAGAGCCATGCTTCGTTTC  
TTGCCAGATTTGGCTTTAGCTTCTGTTAATTCTGGCTTTGGCCAGGCAGTCCAATTT  
CAAGAATATGTCTTTCTCCAATTTCTGGGCTTAGATAAGGCGCCTTCACCCAGAAAGTTC  
CAACCTGTGCCTTATATCTTGAAGAAAATTTCCAGGATCGCGAGGCAGCAGCGACCACT  
GGGGTCTCCCGAGACTTATGCTACGTAAGGAGCTGGGCGTCCGCGGGAATGACTTCGC  
TTTCTCCAGACCAAGGTTTCTTTCTTTACCCAAAGAAAATTTCCAAGCTTCTCCTGC  
CTGCAGAAGCTCCTCTACTTTAACCTGTCTGCCATCAAAGAAAGGGAACAGTTGACATTG  
GCCAGCTGGGCTGGACTTGGGGCCCAATTTCTACTATAACCTGGGACCAGAGCTGGAA  
CTGGCTCTGTTCTGGTTCAGGAGCCTCATGTGTGGGGCCAGACCACCCCTAAGCCAGGT  
AAAATGTTTGTGTGCGGTCAGTCCCATGGCCACAAGGTGCTGTTCACTTCAACCTGCTG  
GATGTAGCTAAGGATTGGAATGACAACCCCGGAAAAATTTCTGGGTTATTCTGGAGATA  
CTGGTCAAAGAAGATAGAGACTCAAGGGTGAATTTTCAGCCTGAAGACACCTGTGCCAGA  
CTAAGATGCTCCCTTCATGCTCCCTGCTGGTGGTACTCTCAACCCTGATCAGTGCCAC  
CCTTCTCGGAAAAGGAGAGCAGCCATCCCTGTCCCAAGCTTTCTTGTAAGAACCCTGC  
CACCGTCACCAGCTATTCATTAACCTCCGGGACCTGGGTTGGCACAAGTGGATCATTGCC  
CCCAAGGGTTTCATGGCAAATTAAGTCCATGGAGAGTGTCCCTTCTCACTGACCATCTCT  
CTCAACAGCTCCAATTAAGTTCATGCAAGCCCTGATGCATGCCGTTGACCCAGAGATC  
CCCCAGGCTGTGTATCCCCACCAAGCTGTCTCCCATTTCCATGCTCTACCAGGACAAT  
AATGACAATGTCATTCTACGACATTATGAAGACATGGTAGTCGATGAATGTGGGTGGG  
TAGGATGTCAGAAATGGGAATAGAAGGAGTGTCTTAGGGTAAATCTTTTAAATAAACTA  
CCTATCTGGTTTATGACCACTTAGATCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_020634 unedited NNNTTGCGGTTTCAGATTTTGTATACGACTCACTATAGGCGGCCGCAATTCGCCATTAC GGCCGGGGGAGTCTGGCAGTGGAGCTCTCCCGGTCTGACAGCCACTCCAGAGGCCATGC TTCGTTTCTTGCCAGATTTGGCTTTCAGCTTCTGTAAATTCTGGCTTTGGGCCAGGCAG TCCAATTTCAAGAATATGCTTTTCTCCAATTTCTGGGCTTAGATAAGGCGCCTTCACCCC AGAAGTTCCGACCTGTGCCTTATATCTTGAAGAAAATTTCCAGGATCGCGAGGCAGCAG CGACCACTGGGGTCTCCCGAGACTTATGCTACGTAAGGAGCTGGGCGTCCGCGGGAATG TACTTCGCTTTCTCCAGACCAAGGTTTCTTTCTTTACCCAAAGAAAATTTCCCAAGCTT CCTCTGCCTGCAGAAGCTCCTCTACTTTAACCTGTCTGCCATCAAGAAAGGGAACAGT TGACATTGGCCCAGCTGGGCTGGACTTGGGGCCCAATTTACTATAACCTGGGACCAG AGCTGGAAGTGGCTCTGTTCCTGGTTCAGGAGCCTCATGTGTGGGGCCAGACCACCCCTA AGCCAGGTAAGTGTGTGTTGCGGTTCAGTCCCATGGCCACAAGGTGCTGTTCACTTCA ACCTGCTGGATGTAGCTAAGGATTGGAATGACAACCCCGGAAAATTTCCGGGTATTCC TGGAGATACTGGTCAAAGAAGATAGAGACTCAAGGGTGAATTTCCAGCTGAAGAACCTGT GCAGACTAAGAGCTCCCTTCATGCTTCTGGTGGGGGGGACTCTACCCCGATCATGCCA CCCTTTCGAAAGGAGAGCGCCATCCCCTTCCCC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_020634
<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_020634.1</a> , <a href="#">NP_065685.1</a>
<b>RefSeq Size:</b>	1224 bp
<b>RefSeq ORF:</b>	1095 bp
<b>Locus ID:</b>	9573
<b>UniProt ID:</b>	<a href="#">Q9NR23</a>
<b>Cytogenetics:</b>	12p13.31
<b>Protein Families:</b>	Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Secreted Protein, Stem cell relevant signaling - TGFb/BMP signaling pathway

**Gene Summary:**

This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein plays a role ocular and skeletal development. Mutations in this gene are associated with microphthalmia, coloboma, and skeletal abnormalities in human patients. [provided by RefSeq, Aug 2016]