

## Product datasheet for **SC311226**

### TGF alpha (TGFA) (NM\_003236) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TGF alpha (TGFA) (NM_003236) Human Untagged Clone
Tag:	Tag Free
Symbol:	TGF alpha
Synonyms:	TFGA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_003236 edited  
GCCATTACGGCCGGGACTCGGGCACCCGAGGTAGGGCAGGAGGCTGGAGAGCCTGCTGC  
CCGCCCCCGTAAAATGGTCCCCTCGGCTGGACAGCTCGCCCTGTTTCGCTCTGGGTATT  
GTGTTGGCTGCGTGCCAGGCCTTGAGAACAGCAGCTCCCCGCTGAGTGCAGACCCGCC  
GTGGCTGCAGCAGTGGTGTCCATTTAATGACTGCCAGATTCCACACTCAGTTCTGC  
TTCCATGGAACCTGCAGGTTTTTGGTGCAGGAGGACAAGCCAGCATGTGTCTGCCATTCT  
GGGTACGTTGGTGCACGCTGTGAGCATGCGGACCTCCTGGCCGTGGTGGCTGCCAGCCAG  
AAGAAGCAGGCCATCACCGCCTTGGTGGTCTCCATCGTGGCCCTGGCTGTCTTATC  
ATCACATGTGTGCTGATACTGCTGCCAGGTCCGAAAACACTGTGAGTGGTCCCGGCC  
CTCATCTGCCGACGAGAAGCCAGCGCCCTCCTGAAGGAAGAACCGTTGCTGCCAC  
TCAGAAACAGTGGTCTGAAGAGCCAGAGGAGGAGTTTGGCCAGGTGGACTGTGGCAGAT  
CAATAAAGAAAGGCTTTCAGGACAGCACTGCCAGAGATGCCTGGGTGTGCCACAGACC  
TTCTACTTGGCCTGTAATCACCTGTGCAGCCTTTTGTGGCCCTTCAAACTCTGTCAAG  
AACTCCGTCTGCTGGGGTTATTAGTGTGACCTAGAGAAGAAATCAGCGGACCAGGATT  
TCAAGACTTGTTAAAAAAGAACTGCAAAGAGACGGACTCCTGTTACCTAGGTGAGGTGT  
GTGCAGCAGTTGGTGTCTGAGTCCATGTGTGCAGTTGTCTTCTGCCAGCCATGGATT  
CAGGCTATATATTTCTTTTAAATGGGCCACCTCCCCACAACAGAATTCTGCCAACACAG  
GAACTGTTTAAATACATGAAGACCCCTAGCTTAAAGAGAAGCTGTATCCTCTAACCCAC  
GAGACCCTCAACCAGCCCAACATCTTCCATGGACACATGACATTGAAGACCATCCCAAGC  
TATCGCCACCCTTGAGATGATGCTTATTTATTAGATGGATAATGGTTTTATTTTAAAT  
CTCTTAAGTCAATGTAAGAAAGTATAAAACCCCTTCAGACTTCTAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_003236 unedited NTTTTGTTNGCGTTCATCATTTGTNATACGACTCACTATAGGCGGCCGGAATTCGCCAT TACGGCCGGGACTCGGGCACCGCAGGTAGGGCAGGAGGCTGGAGAGCCTGCTGCCCGCC CGCCCGTAAAAATGGTCCCCTCGGCTGGACAGCTCGCCCTGTTTCGCTCTGGGTATTGTGTT GGCTGCGTGCCAGGCCTTGAGAACAGCACGTCCCGCTGAGTGCAGACCCGCCCGTGGC TGCAGCAGTGGTGTCCCATTTAATGACTGCCAGATTCCACACTCAGTTCTGCTTCCA TGGAACCTGCAGTTTTTGGTGCAGGAGACAAGCCAGCATGTGTCTGCCATTCTGGGTA CGTTGGTGACGCTGTGAGCATGCGGACCTCCTGGCCGTGGTGGCTGCCAGCCAGAAGAA GCAGGCCATCACGCCTTGGTGGTGGTCTCCATCGTGGCCCTGGCTGTCTTATCATCAC ATGTGTGCTGATACTACTGCTGCCAGGTCCGAAAACACTGTGAGTGGTCCCGGGCCCTCAT CTGCCGACAGAGAAGCCAGCGCCCTCCTGAAGGAAGAACCGCTTGCTGCCACTCAGA AACAGTGGTCTGAAGAGCCAGAGGAGGAGTTGGCCAGGTGGACTGTGGCAGATCAATA AAGAAAGGCTTTCAGGACAGCACTGCCAGAGATGCCTGGGTGTCCACAGACCTTCT ACTTGGCCTGTAATCACCTGTGCAGCCTTTTGTGGCCCTTCAAACCTCTGTCAAGAACTC CGTCTGCTGGGGTTATTAGTGTGACCTAGAGAAGAATCAGCGGACCACGATTTCAAGA CTTGTTAAAAAAGAACTGCANAGAGAC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_003236
<b>Insert Size:</b>	1300 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>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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_003236.1</a> , <a href="#">NP_003227.1</a>
<b>RefSeq Size:</b>	4119 bp
<b>RefSeq ORF:</b>	483 bp
<b>Locus ID:</b>	7039
<b>UniProt ID:</b>	<a href="#">P01135</a>
<b>Cytogenetics:</b>	2p13.3
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane

<b>Protein Pathways:</b>	ErbB signaling pathway, Glioma, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer, Renal cell carcinoma
<b>Gene Summary:</b>	<p>This gene encodes a growth factor that is a ligand for the epidermal growth factor receptor, which activates a signaling pathway for cell proliferation, differentiation and development. This protein may act as either a transmembrane-bound ligand or a soluble ligand. This gene has been associated with many types of cancers, and it may also be involved in some cases of cleft lip/palate. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]</p> <p>Transcript Variant: This variant (1) encodes isoform 1.</p>