

Product datasheet for **SC316662**

TGF alpha (TGFA) (NM_001099691) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TGF alpha (TGFA) (NM_001099691) Human Untagged Clone
Tag:	Tag Free
Symbol:	TGF alpha
Synonyms:	TFGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316662 representing NM_001099691. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGTCCCCTCGGCTGGACAGCTCGCCCTGTCGCTCTGGGTATTGTGTTGGCTGCGTGCCAGGCCCTTG
GAGAACAGCACGTCCCCGCTGAGTGACCCGCCCGTGGCTGCAGCAGTGGTGTCCCATTTTAACTGACTGC
CCAGATCCCACACTCAGTTCTGCTTCCATGGAACCTGCAGGTTTTTGGTGCAGGAGGACAAGCCAGCA
TGTGTCTGCCATTCTGGGTACGTTGGTGCACGCTGTGAGCATGCCGACCTCCTGGCCGTGGTGGCTGCC
AGCCAGAAGAAGCAGGCCATCACCGCTTGGTGGTGGTCTCCATCGTGGCCCTGGCTGTCCTTATCATC
ACATGTGTGCTGATACACTGCTGCCAGGTCGAAAACACTGTGAGTGGTCCGGGCCCTCATCTGCCGG
CAGGAGAAGCCAGCGCCCTCCTGAAGGGAAGAACCCTTGTGTCGCACTCAGAAAACAGTGGTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCCGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001099691
Insert Size:	480 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).



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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_001099691.2
RefSeq Size:	4323 bp
RefSeq ORF:	480 bp
Locus ID:	7039
UniProt ID:	P01135
Cytogenetics:	2p13.3
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	ErbB signaling pathway, Glioma, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer, Renal cell carcinoma
MW:	16.9 kDa
Gene Summary:	<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 (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. The encoded isoform (2) is one amino acid shorter than isoform 1.</p>