

Product datasheet for **RC202741**

TGF alpha (TGFA) (NM_003236) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TGF alpha (TGFA) (NM_003236) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TGF alpha
Synonyms:	TFGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202741 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCCCCTCGGCTGGACAGCTCGCCCTGTTGCTCTGGGTATTGTGTTGGCTGCGTGCCAGGCCCTTGG
AGAACAGCACGTCCCGCTGAGTGACCCGCCCGTGGCTGCAGCAGTGGTGTCCATTTTAACTGACTGCC
AGATTCACACTCAGTTCTGCTCCATGGAACCTGCAGGTTTTTGGTGCAGGAGGACAAGCCAGCATGT
GTCTGCCATTCTGGGTACGTTGGTGCAGCTGTGAGCATGCGGACCTCCTGGCCGTGGTGGCTGCCAGCC
AGAAGAAGCAGGCCATCACCGCCTTGGTGGTGGTCTCCATCGTGGCCCTGGCTGTCCTTATCATCATG
TGTGCTGATACACTGCTGCCAGGTCCGAAACACTGTGAGTGGTGCCGGGCCCTCATCTGCCGGCAGAG
AAGCCAGCGCCCTCCTGAAGGAAGAACCCTTGTGCTGCACTCAGAAACAGTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC202741 protein sequence Red=Cloning site Green=Tags(s)
-------------------	--

MVPSAGQLALFALGIVLAACQALENSTSPLSDPPVAAAVVSHFNDPDSHTQFCFHGTCRFLVQEDKPAC
VCHSGYVGARCEHADLLAVVAASQKKQAITALVVVSIVALAVLIITCVLIHCCQVRKHCEWCRALICRHE
KPSALLKGRACCHSETVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

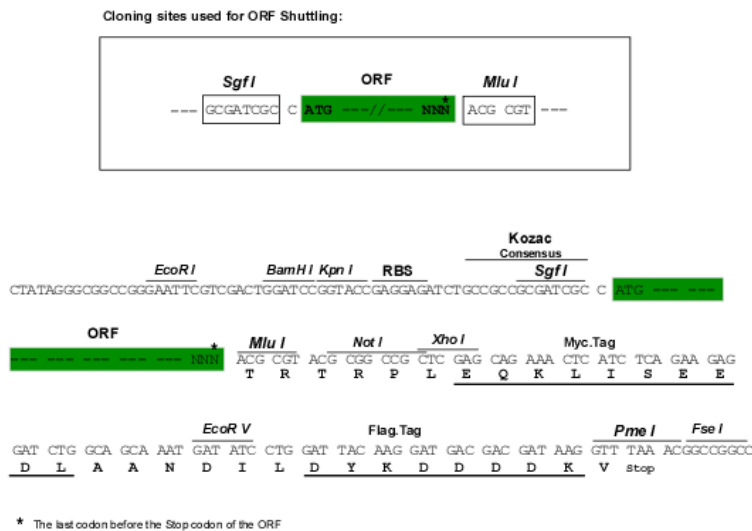
Chromatograms:	https://cdn.origene.com/chromatograms/mk6050_c10.zip
----------------	---



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003236

ORF Size: 477 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

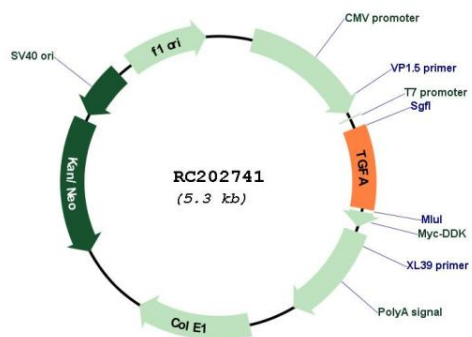
RefSeq: [NM_003236.4](#)

RefSeq Size: 4326 bp

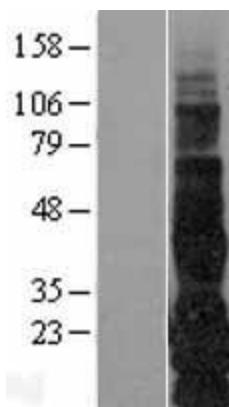
RefSeq ORF: 483 bp

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:	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]

Product images:



Circular map for RC202741



Western blot validation of overexpression lysate (Cat# [LY418820]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202741 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).