

Product datasheet for **MR226910**

Tgfa (NM_031199) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tgfa (NM_031199) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tgfa
Synonyms: wa-1; wa1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226910 representing NM_031199
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGTCCCCGCGACCGGACAGCTCGCTCTGCTAGCGCTGGGTATCCTGTTAGCTGTGTGCCAGGCTCTGG
AGAACAGCACATCCCCCTGAGTGACTCACCCGTGGCGGCTGCAGTGGTGTCTCACTTCAACAAGTGCC
AGATTCCCACTCAGTACTGCTCCATGGAACCTGCCGTTTTTGGTGCAGGAAGAGAAGCCAGCATGT
GTCTGCCACTCTGGGTACGTGGGTGTCGCTGTGAGCATGCAGACCTCCTGGCTGTGGTGGCTGCCAGCC
AGAAGAAGCAAGCCATCACTGCCCTGGTGGTGGTCTCCATTGTGGCCCTGGCTGTCTCATTATCACCTG
TGTGCTGATCCACTGCTGTGAGCTCCGCAAACTGTGAGTGGTGCCCTGCCTCGCTGCAGACATGAG
AAGCCCAGCGCCCTCCTGAAGGAAGGACTGCTTGCTGCCACTCTGAGACAGTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226910 representing NM_031199
Red=Cloning site Green=Tags(s)

MVPATGQLALLALGILLAVCQALENSTSPLSDSPVAAAVVSHFNKCPDSHTQYCFHGTCTFLVQEEKPAC
 VCHSGYVGRCEHADLLAVVAASQKKQAITALVVVSIVALVLIITCVLIHCCQLRKHCCEWCRALVCRHE
 KPSALLKGRACCHSETVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

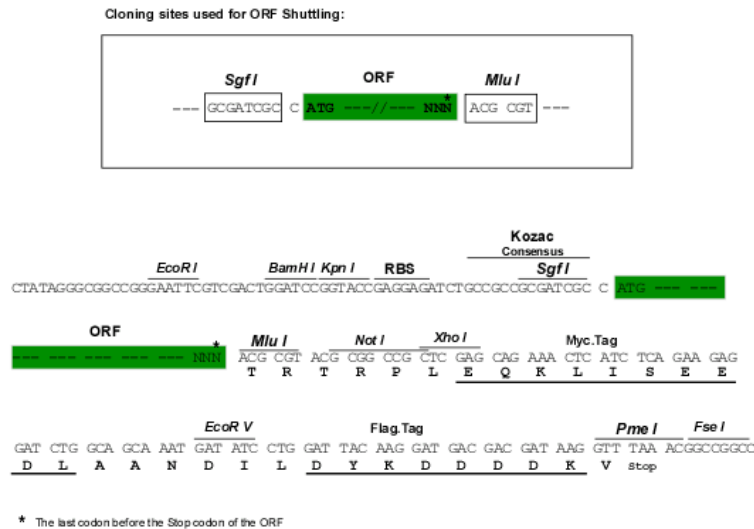
Chromatograms: https://cdn.origene.com/chromatograms/mm9008_d05.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031199

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_031199.5](#)

RefSeq Size: 4229 bp

RefSeq ORF: 480 bp

Locus ID: 21802

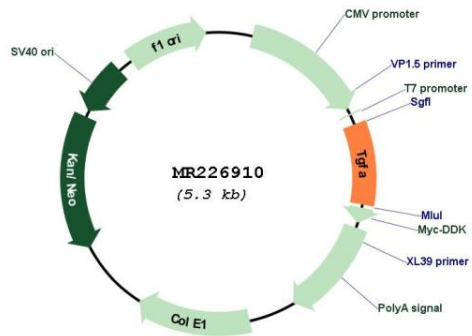
UniProt ID: [P48030](#)

Cytogenetics: 6 37.62 cM

MW: 17.5 kDa

Gene Summary: This gene encodes a member of the epidermal growth factor (EGF) family of proteins that regulate cellular proliferation. The encoded protein undergoes proteolytic processing to generate a soluble glycoprotein that is secreted by the cell. The secreted protein binds to the EGF receptors to initiate signaling events resulting in cellular proliferation, mucous production or inhibition of gastric acid secretion. The transgenic expression of the encoded protein in mice induces the development of cancers in various tissues such as liver, pancreas, skin and mammary glands. Mice lacking the encoded protein exhibit a wavy coat and curly whiskers phenotype as well as abnormalities in the eye. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR226910