

Product datasheet for **RR200508**

Igf1 (NM_001082478) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Igf1 (NM_001082478) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Igf1
Synonyms: IGF
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR200508 representing NM_001082478
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGGAAATCAGCAGTCTTCCAACCTCAATTATTTAAGATCTGCCTCTGTGACTTCTTGAAGATAAAGA
TACACATCATGTCGTCTTCACATCTCTTCTACCTGGCACTCTGCTTGTCTCACCTTACCAGCTCGGCCAC
AGCCGGACCAGAGACCCCTTTCGGGGCTGAGCTGGTGGACGCTCTTCAGTTCGTGTGGACCAAGGGGC
TTTTACTTCAACAAGCCACAGGCTATGGCTCCAGCATTTCGGAGGGCACACAGACGGGCATTGTGGATG
AGTGTGCTTCCGGAGCTGTGATCTGAGGAGGCTGGAGATGTAAGTGTGCTCCGCTGAAGCCTACAAAGTC
AGCTCGTTCATCCGGGCCAGCGCCCACTGACATGCCCAAGACTCAGAAGTCCAGCCCTATCGACA
CACAAGAAAAGGAAGCTGCAAAGGAGAAGGAAAGGAAGTACACTTGAAGAACAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200508 representing NM_001082478
Red=Cloning site Green=Tags(s)

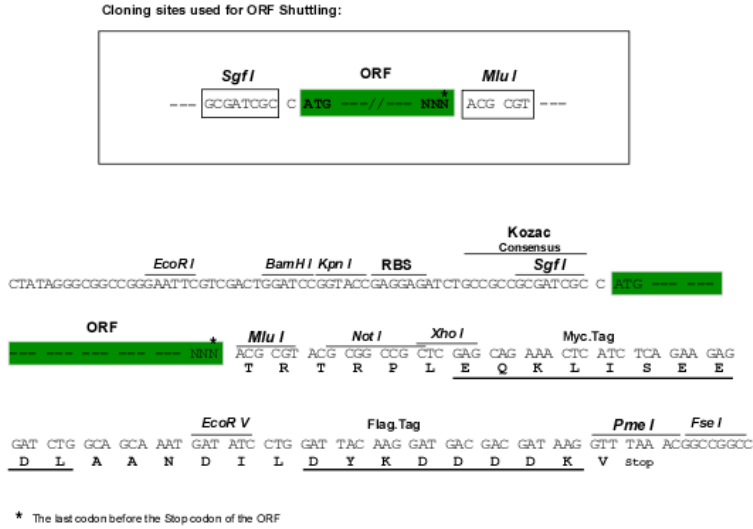
MGKISSLPTQLFKICLDFLKIKIHIHIMSSSHLFYALCLLFTSSATAGPETLCGAELVDALQFVCGPRG
FYFNKPTGYGSSIRRAPQTGIVDECCFRSCDLRRLREMYCAPLKPTKSARSIRAQRHTDMPKTQKSQPLST
HKRKLQRRRKGSTLEEHK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

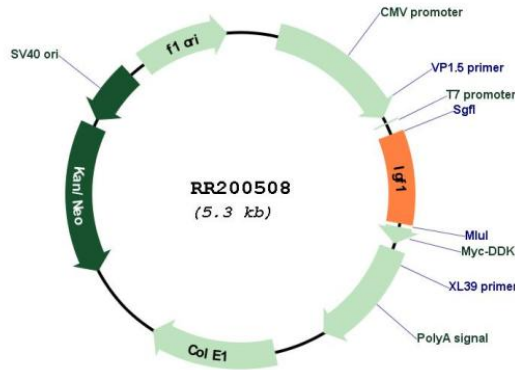
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001082478

ORF Size: 477 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

RefSeq: [NM_001082478.1](#), [NP_001075947.1](#)

RefSeq Size: 1879 bp

RefSeq ORF: 480 bp

Locus ID: 24482

UniProt ID: [P08025](#)

Cytogenetics: 7q13

MW: 18 kDa

Gene Summary: growth factor; plays a major role in mammalian growth [RGD, Feb 2006]