

Product datasheet for RC225144

IGF1 (NM_001111283) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	IGF1 (NM_001111283) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IGF1
Synonyms:	IGF; IGF-I; IGFI; MGF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC225144 representing NM_001111283 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGGAAAAATCAGCAGTCTTCCAACCCAATTATTTAAGTGCTGCTTTTGTGATTTCTTGAAGGTGAAGA TGCACACCATGTCCTCCTCGCATCTCTTCTACCTGGCGCTGTGCCTGCTCACCTTCACCAGCTCTGCCAC GGCTGGACCGGAGACGCTCTGCGGGGGCTGAGCTGGTGGATGCTCTTCAGTTCGTGTGTGGAGACAGGGGC TTTTATTTCAACAAGCCCACAGGGTATGGCTCCAGCAGTCGGAGGGGCGCCTCAGACAGGCATCGTGGATG AGTGCTGCTTCCGGAGCTGTGATCTAAGGAGGCTGGAGATGTATTGCGCACCCCTCAAGCCTGCCAAGTC AGCTCGCTCTGTCCGTGCCCAGCGCCACACCGACATGCCCAAGACCCAGAAGTATCAGCCCCCATCTACC AACAAGAACACGAAGTCTCAGAGAAGGAAAGGA
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>RC225144 representing NM_001111283 Red=Cloning site Green=Tags(s)
	MGKISSLPTQLFKCCFCDFLKVKMHTMSSSHLFYLALCLLTFTSSATAGPETLCGAELVDALQFVCGDRG FYFNKPTGYGSSSRRAPQTGIVDECCFRSCDLRRLEMYCAPLKPAKSARSVRAQRHTDMPKTQKYQPPST NKNTKSQRRKGSTFEERK
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mg3802_b01.zip



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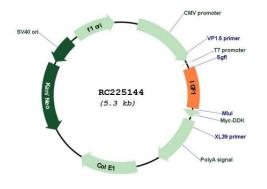
GRIGENE IGF1 (NM_001111283) Human Tagged ORF Clone – RC225144

Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling: Sgf I ORF Miu I GCGATCGC C ATG NNN ACG CGT
	Kozac EcoRI BamHI Kpn I RBS Sgf I CTATASGGGGGGGGGAATTCGGTCGGACTGGATCCGGGTACCGGAGGAGATCTGGCGCGCGGGAATCGC C NTG
	ORF <u>Milu I Not I Xho I</u> Myc.Tag ACG CGT ACG CGG CCG CTC GAG CAG AAA CTC ATC TCA GAA GAG T R T R P L <u>E Q K L I S E E</u>
	EcoR V Flag.Tag Pmei Fsei GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGGCC D L A N D I L D Y K D D K V stop
	* The last codon before the Stop codon of the ORF
CCN:	NM_001111283
RF Size:	474 bp
TI 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. <u>More info</u>
TI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
omponents:	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).
econstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. 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.
ote:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
efSeq:	<u>NM 001111283.3</u>
	477 bp
efSeq ORF:	

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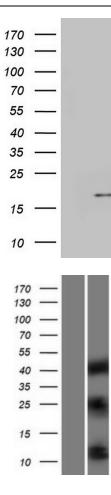
GRIGENE IGF1 (NM_001111283) Human Tagged ORF Clone – RC225144		
Cytogenetics:	12q23.2	
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein	
Protein Pathways:	Dilated cardiomyopathy, Focal adhesion, Glioma, Hypertrophic cardiomyopathy (HCM), Long- term depression, Melanoma, mTOR signaling pathway, Oocyte meiosis, p53 signaling pathway, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer	
MW:	17.76 kDa	
Gene Summary:	The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. The encoded protein is processed from a precursor, bound by a specific receptor, and secreted. Defects in this gene are a cause of insulin-like growth factor I deficiency. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]	

Product images:



Circular map for RC225144

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HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY IGF1 (Cat# RC225144, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-IGF1(Cat# [TA805748]). Positive lysates [LY426358] (100ug) and [LC426358] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY426358]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225144 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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