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Product datasheet for RC201849

IGF2 (NM_001007139) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IGF2 (NM_001007139) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IGF2
Synonyms:	C11orf43; GRDF; IGF-II; PP9974; SRS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC201849 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGAATCCCAATGGGGAAGTCGATGCTGGTGCTTCTCACCTTCTTGGCCTTCGCCTCGTGCTGCATTG
CTGCTTACCGCCCCAGTGAGACCCTGTGCGGCGGGGAGCTGGTGGACACCCTCCAGTTCGTCTGTGGGGA
CCGCGGCTTCTACTTCAGCAGGCCCGCAAGCCGTGTGAGCCGTCGCAGCCGTGGCATCGTTGAGGAGTGC
TGTTTCCGCAGCTGTGACCTGGCCCTCCTGGAGACGTACTGTGCTACCCCCGCCAAGTCCGAGAGGGACG
TGTCGACCCCTCCGACCGTGCTTCCGGACAACTTCCCCAGATACCCCGTGGGCAAGTTCTTCCAATATGA
CACCTGGAAGCAGTCCACCCAGCGCCTGCGCAGGGGCCTGCCTGCCCTCCTGCGTGCCCGCCGGGGTCAC
GTGCTCGCCAAGGAGCTCGAGGCGTTCAGGGAGGCCAAACGTCACCGTCCCCTGATTGCTCTACCCACCC
AAGACCCCGCCCACGGGGGCGCCCCCCCAGAGATGGCCAGCAATCGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201849 protein sequence
Red=Cloning site Green=Tags(s)

MGIPMGKSMLVLLTFLAFASCCIAAYRPSETLCGGELVDTLQFVCGDRGFYFSRPASRVSRRSRGIVEEC
CFRSCDLALLETYCATPAKSERDVSTPPTVLPDNFPRYPVGKFFQYDTWKQSTQRLRRGLPALLRARRGH
VLAKELEAFREAKRHRPLIALPTQDPAHGGAPPEMASNRK

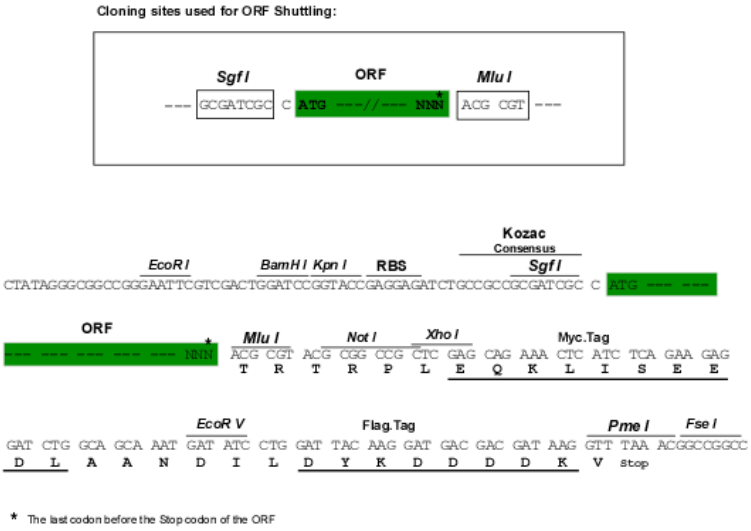
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6384_c03.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001007139

ORF Size: 540 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.

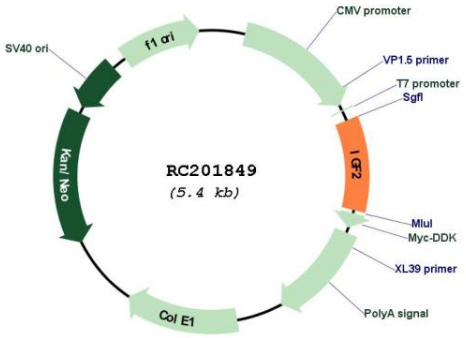
RefSeq: NM_001007139.5, NP_001007140.2

RefSeq Size: 5162 bp

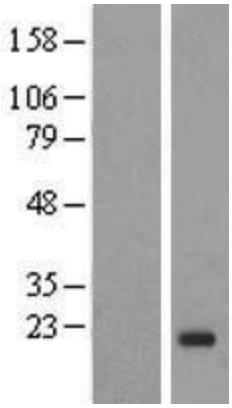
RefSeq ORF: 543 bp

Locus ID:	3481
UniProt ID:	P01344
Cytogenetics:	11p15.5
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
MW:	20.1 kDa
Gene Summary:	This gene encodes a member of the insulin family of polypeptide growth factors, which are involved in development and growth. It is an imprinted gene, expressed only from the paternal allele, and epigenetic changes at this locus are associated with Wilms tumour, Beckwith-Wiedemann syndrome, rhabdomyosarcoma, and Silver-Russell syndrome. A read-through INS-IGF2 gene exists, whose 5' region overlaps the INS gene and the 3' region overlaps this gene. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2010]

Product images:



Circular map for RC201849



Western blot validation of overexpression lysate (Cat# [LY422803]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201849 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).