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Product datasheet for RC220218

INS-IGF2 (NM_001042376) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	INS-IGF2 (NM_001042376) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	INS-IGF2
Synonyms:	INSIGF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC220218 representing NM_001042376
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCTGTGGATGCGCCTCCTGCCCCTGCTGGCGCTGCTGGCCCTCTGGGGACCTGACCCAGCCGCAG
CCTTTGTGAACCAACACCTGTGCGGCTCACACCTGGTGGAAGCTCTCTACCTAGTGTGCGGGGAACGAGG
CTTCTTCTACACACCCAAGACCCGCCGGGAGGCAGAGGACCTGCAGGCCTCAGCTTTGTCCCTCTCCTCC
TCCACGTCAACCTGGCCAGAGGGTCTGGACGCCACAGCCAGGGCACCCCCTGCTTTGGTGGTGACTGCTA
ATATTGGCCAGGCCGGCGGATCATCGTCCAGGCAGTTTCGGCAGAGAGCCTTGGGCACCAGTGACTCCCC
GGTCCTCTTTATCCACTGTCCAGGAGCTGCGGGGACTGCGCAGGGACTAGAGTACAGGGGCCGAAGAGTC
ACCACCGAGCTTGTGTGGGAGGAGGTGGATTCCAGCCCCCAGCCCCAGGGCTCTGAATCGCTGCCAGCTC
AGCCCCCTGCCCAGCCTGCCCCACAGCCTGAGCCCCAGCAGGCCAGAGAGCCCAGTCCTGAGGTGAGCTG
CTGTGGCCTGTGGCCCAGGCGACCCCAGCGCTCCCAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220218 representing NM_001042376
Red=Cloning site Green=Tags(s)

MALWMRLLPLLALLALWGPDPAAAFVNQHLCGSHLVEALYLVCGERGFFYTPKTRREAEDLQASALSLSS
STSTWPEGLDATARAPPALVVTANIGQAGGSSSRQFRQRALGTSDSPVLFIHCPGAAGTAQGLEYRGRRV
TTELVWEEVDSSPQPQGSESLPAQPPAQPAPQPEPQQAREPSPEVSCCGLWPRRPQRSQN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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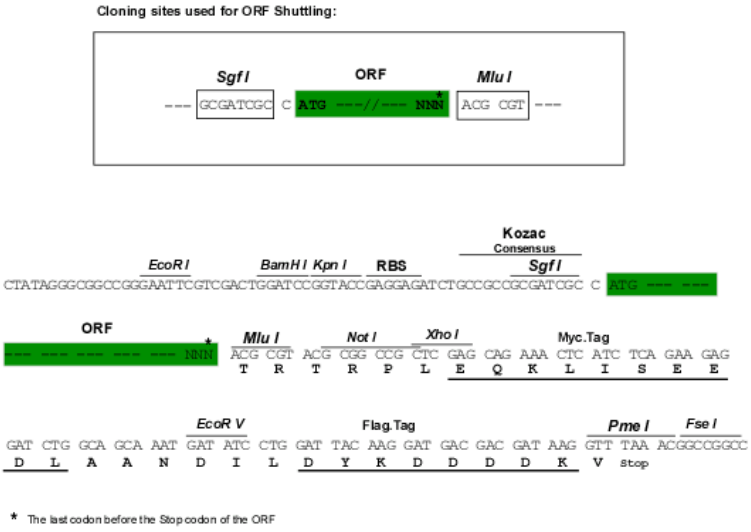
Chromatograms: https://cdn.origene.com/chromatograms/mk8005_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001042376

ORF Size: 600 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.

RefSeq: NM_001042376.3

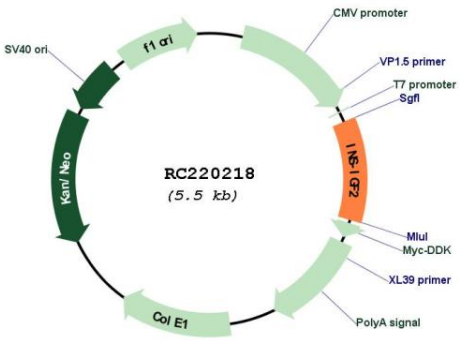
RefSeq Size: 828 bp

RefSeq ORF: 603 bp

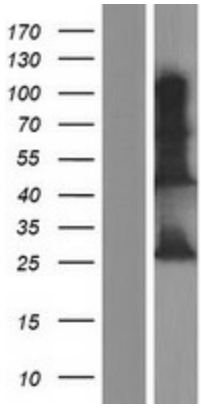
Locus ID: 723961

UniProt ID:	F8WCM5
Cytogenetics:	11p15.5
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
MW:	21.4 kDa
Gene Summary:	This locus includes two alternatively spliced read-through transcript variants which align to the INS gene in the 5' region and to the IGF2 gene in the 3' region. One transcript is predicted to encode a protein which shares the N-terminus with the INS protein but has a distinct and longer C-terminus, whereas the other transcript is a candidate for nonsense-mediated decay (NMD). The transcripts are imprinted and are paternally expressed in the limb and eye. [provided by RefSeq, Jul 2008]

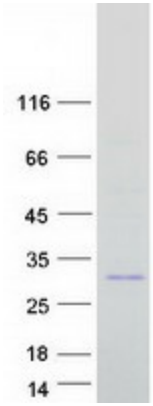
Product images:



Circular map for RC220218



Western blot validation of overexpression lysate (Cat# [LY420861]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220218 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified INS-IGF2 protein (Cat# [TP320218]). The protein was produced from HEK293T cells transfected with INS-IGF2 cDNA clone (Cat# RC220218) using MegaTran 2.0 (Cat# [TT210002]).