

Product datasheet for **RG220218**

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: TurboGFP
Symbol: INS-IGF2
Synonyms: INSIGF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG220218 representing NM_001042376
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCTGTGGATGCGCCTCCTGCCCTGCTGGCGCTGCTGGCCCTCTGGGGACCTGACCCAGCCGAG
CCTTTGTGAACCAACACCTGTGCGGCTCACACCTGGTGAAGCTCTACCTAGTGTGCGGGGAACGAGG
CTTCTTACACACCAAGACCCCGGGAGGCAGAGGACCTGCAGGCCCTCAGCTTTGTCCCTCTCCTCC
TCCACGTC AACCTGGCCAGAGGGTCTGGACGCCACAGCCAGGGCACCCCTGCTTTGGTGGTGACTGCTA
ATATTGGCCAGGCCGGCGGATCATCGTCCAGGCAGTTTCGGCAGAGGCCTTGGGCACCAGTGACTCCCC
GGTCTCTTTATCCACTGTCCAGGAGCTGCGGGGACTGCGCAGGGACTAGAGTACAGGGGCCGAAGAGTC
ACCACCGAGCTTGTGTGGGAGGAGGTGGATTCCAGCCCCAGCCCAGGGCTCTGAATCGTGCCAGCTC
AGCCCCCTGCCAGCCTGCCACAGCCTGAGCCCCAGCAGGCCAGAGAGCCAGTCTGAGGTGAGCTG
CTGTGGCCTGTGGCCAGGCGACCCAGCGCTCCAGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220218 representing NM_001042376
 Red=Cloning site Green=Tags(s)

MALWMRLPLLLALLALWGPDPAAAFVNQHLCGSHLVEALYLVCGERGFFYTPKTRREAEDLQASALSLSS
STSTWPEGLDARAPPALVVTANIGQAGGSSSRQFRQRALGTSDSPVLFIHCPGAAGTAQGLEIRGRRV
TTELVWEEVDSSPQPQGSSESLPAQPPAQPAQPEPQQAREPSPEVSCGLWPRRPQRSQN

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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

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]