Product datasheet for MG227064

Igf1 (NM_001111275) Mouse Tagged ORF Clone

Product data:

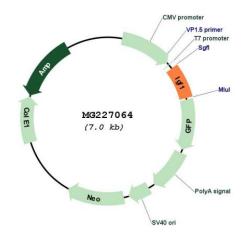|	
Product Type:	Expression Plasmids
Product Name:	Igf1 (NM_001111275) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Igf1
Synonyms:	C730016P09Rik; Igf; Igf-; Igf-1; Igf-I
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227064 representing NM_001111275 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGGGAAAATCAGCAGCCTTCCAACTCAATTATTTAAGATCTGCCTCTGTGACTTCTTGAAGATAAAGA TACACATCATGTCGTCTTCACACCTCTTCTACCTGGCGCTCTGCTTGCTCACCTTCACCAGCTCCACCAC AGCTGGACCAGAGACCCTTTGCGGGGGCTGAGCTGGTGGATGCTCTTCAGTTCGTGTGTGGACCGAGGGGC TTTTACTTCAACAAGCCCACAGGCTATGGCTCCAGCATTCGGAGGGCACCTCAGACAGGCATTGTGGATG AGTGTTGCTTCCGGAGCTGTGATCTGAGGAGACTGGAGATGTACTGTGCCCCACTGAAGCCTACAAAAGC AGCCCGCTCTATCCGTGCCCAGCGCCACACTGACATGCCCAAGACTCAGAAGGAAGTACATTTGAAGAAC ACAAGTAGAGGAAGTGCAGGAAACAAGACCTACAGAATG ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA
Protein Sequence:	>MG227064 representing NM_001111275 Red=Cloning site Green=Tags(s) MGKISSLPTQLFKICLCDFLKIKIHIMSSSHLFYLALCLLTFTSSTTAGPETLCGAELVDALQFVCGPRG FYFNKPTGYGSSIRRAPQTGIVDECCFRSCDLRRLEMYCAPLKPTKAARSIRAQRHTDMPKTQKEVHLKN TSRGSAGNKTYRM TRTRPLE – GFP Tag – V
Restriction Sites:	SgfI-MluI

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Cloning Scheme:

Plasmid Map:

ACCN:	NM_001111275
ORF Size:	459 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_001111275.2
RefSeq Size:	7069 bp
RefSeq ORF:	462 bp
Locus ID:	16000
UniProt ID:	P05017
Cytogenetics:	10 43.7 cM
Gene Summary:	This gene encodes a member of the insulin-like growth factor (IGF) family of proteins that promote growth and development during fetal and postnatal life. This gene is predominantly expressed in the liver and the encoded protein undergoes proteolytic processing to generate a disulfide-linked mature polypeptide. Transgenic disruption of this gene in mice results in reduced postnatal survival and severe growth retardation. Mice lacking the encoded protein exhibit generalized organ hypoplasia including underdevelopment of the central nervous system and developmental defects in bone, muscle and reproductive systems. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]