

Product datasheet for RC218082

GH2 (NM_022556) Human Tagged ORF Clone

Product data:

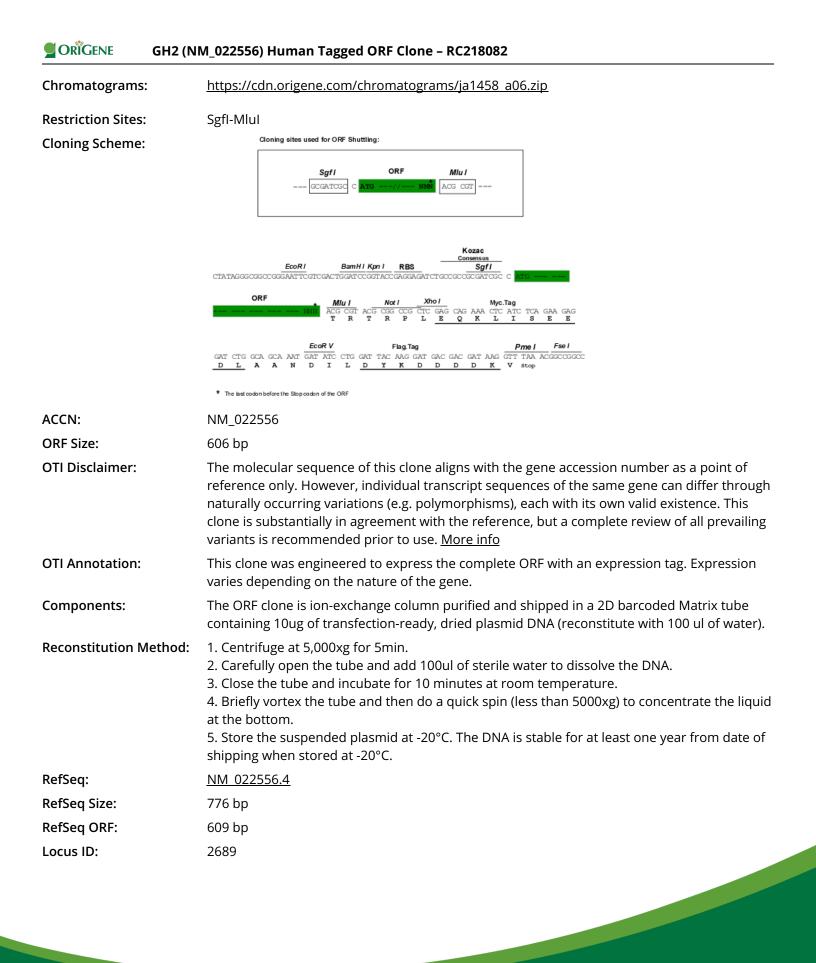
OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	GH2 (NM_022556) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GH2
Synonyms:	GH-V; GHB2; GHL; GHV; hGH-V
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC218082 representing NM_022556 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCTGCAGGCTCCCGGACGTCCCTGCTCCTGGCTTTTGGCCTGCTCTGCCTGTCCTGGCTTCAAGAGG GCAGTGCCTTCCCAACCATTCCCTTATCCAGGCTTTTTGACAACGCTATGCTCCGCGCCCGTCGCCTGTA CCAGCTGGCATATGACACCTATCAGGAGTTTAACCCCCAGACCTCCCTTGCTTCTCAGAGTCTATTCCA ACACCTTCCAACAGGGTGAAAACGCAGCAGAAATCTAACCTAGAGCTGCTCCGCATCTCCCTGCTGCTCA TCCAGTCATGGCTGGAGCCCGTGCAGCTCTCAGGAGCGTCTTCGCCAACAGCCTGGTGTATGGCGCCTC GGACAGCAACGTCTATCGCCACCTGAAGGACCTAGAGGAAGGCATCCAAACGCTGATGTGGAGGCTGGAA GATGGCAGCCCCGGACTGGGCAGATCTTCAATCAGTCCTACAGCAAGGTTGACACAAAATCGCACAACG ATGACGCACTGCTCAAGAACTACGGGCTGCTCTACTGCTTCAGGAAGGA
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	<pre>>RC218082 representing NM_022556 Red=Cloning site Green=Tags(s)</pre>
	MAAGSRTSLLLAFGLLCLSWLQEGSAFPTIPLSRLFDNAMLRARRLYQLAYDTYQEFNPQTSLCFSESIP TPSNRVKTQQKSNLELLRISLLLIQSWLEPVQLLRSVFANSLVYGASDSNVYRHLKDLEEGIQTLMWRLE DGSPRTGQIFNQSYSKFDTKSHNDDALLKNYGLLYCFRKDMDKVETFLRIVQCRSVEGSCGF
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



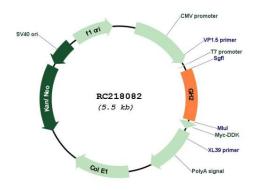
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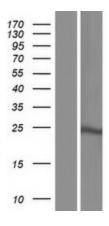
GH2 (N	NM_022556) Human Tagged ORF Clone – RC218082
UniProt ID:	<u>P01242</u>
Cytogenetics:	17q23.3
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, Neuroactive ligand- receptor interaction
MW:	22.9 kDa
Gene Summary:	The protein encoded by this gene is a member of the somatotropin/prolactin family of hormones which play an important role in growth control. The gene, along with four other related genes, is located at the growth hormone locus on chromosome 17 where they are interspersed in the same transcriptional orientation; an arrangement which is thought to have evolved by a series of gene duplications. The five genes share a remarkably high degree of sequence identity. Alternative splicing generates additional isoforms of each of the five growth hormones, leading to further diversity and potential for specialization. As in the case of its pituitary counterpart, growth hormone 1, the predominant isoform of this particular family member shows similar somatogenic activity, with reduced lactogenic activity. Mutations in this gene lead to placental growth hormone/lactogen deficiency. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC218082

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Western blot validation of overexpression lysate (Cat# [LY411624]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218082 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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