

Product datasheet for **SC109274**

GH2 (NM_022558) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GH2 (NM_022558) Human Untagged Clone
Tag:	Tag Free
Symbol:	GH2
Synonyms:	GH-V; GHB2; GHL; GHV; hGH-V
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_022558, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGCAGGCTCCCGACGTCCCTGCTCCTGGCTTTTGGCCTGCTCTGCCTGCTCCTGGCTTCAAGAGG
GCAGTGCCTTCCCAACCATTCCCTTATCCAGGCTTTTTGACAACGCTATGCTCCGCGCCCGTCGCTGTA
CCAGCTGGCATATGACACCTATCAGGAGTTTGAAGAAGCCTATATCCTGAAGGAGCAGAAGTATTCATTC
CTGCAGAACCCCGACCTCCCTCTGCTTCTCAGAGTCTATTCCAACACCTTCCAACAGGGTGAAAACGC
AGCAGAAATCTAACCTAGAGCTGCTCCGCATCTCCCTGCTGCTCATCCAGTCATGGCTGGAGCCCGTGCA
GCTCCTCAGGAGCGTCTTCGCCAACAGCCTGGTGTATGGCGCCTCGGACAGCAACGTCTATCGCCACCTG
AAGGACCTAGAGGAAGGCATCCAACGCTGATAGGCTGGAAGATGGCAGCCCCGGACTGGGCAGATCTT
CAATCAGTCTACAGCAAGTTTGACACAAAATCGCACAAACGATGACGCACTGCTCAAGAACTACGGGCTG
CTCTACTGCTTACAGGAAGGACATGGACAAGGTCGAGACATTCCTGCGCATCGTGCAAGTCCCGCTCTGTGG
AGGGCAGCTGTGGCTTCTAGCTGCCCGGGTGGCATCCCTGTGACCCCTCCCAGTGCCTCTCCTGGTCGT
GGAAGGTGCTACTCCAGTGCCCACCAGCCTTGCCTAA
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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]

Transcript Variant: This variant (3) utilizes an alternative splice donor site in exon 4 causing a 4 nt deletion and a frameshift which generates an isoform (3) with a unique carboxy-terminus.