

Product datasheet for SC324531

GH2 (NM_002059) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: GH2 (NM_002059) Human Untagged Clone

Tag: Tag Free

Symbol: GH2

Synonyms: GH-V; GHB2; GHL; GHV; hGH-V

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-AC (PS100020)E. coli Selection:Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002059.3

AAAAAAAAA

Restriction Sites: Please inquire ACCN: NM 002059

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a

point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative

RNA splicing form or single nucleotide polymorphism (SNP).



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OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning

into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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: <u>NM 002059.3</u>, <u>NP 002050.1</u>

 RefSeq Size:
 821 bp

 RefSeq ORF:
 654 bp

 Locus ID:
 2689

 UniProt ID:
 P01242

 Cytogenetics:
 17q23.3

Domains: hormone

Protein Families:

Protein Pathways: Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, Neuroactive ligand-

receptor interaction

Druggable Genome, Secreted Protein

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

RefSeg, Jul 2008]

Transcript Variant: This variant (1) utilizes all five exons generating the predominant 22-kDa

isoform (1).