

Product datasheet for **SC329949**

Growth hormone receptor (GHR) (NM_001242399) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Growth hormone receptor (GHR) (NM_001242399) Human Untagged Clone
Tag:	Tag Free
Symbol:	GHR
Synonyms:	GHBP; GHIP
Vector:	pCMV6-Entry (PS100001)

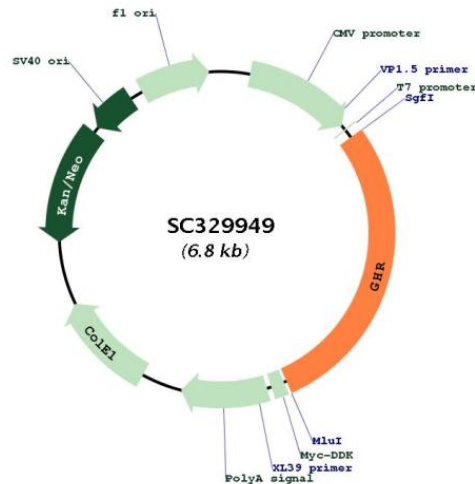


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Fully Sequenced ORF: >SC329949 representing NM_001242399.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGAACTGGGGTCTACAGGTATGGATCTCTGGCAGCTGCTGTTGACCTTGGCACTGGCAGGATCAAGT
GATGCTTTTTCTGGAAGTGAGGCCACAGCAGCTATCCTTAGCAGAGCACCCCTGGAGTCTGCAAAGTGTT
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ACTTTTTTCATGCCACTGGACAGATGAGGTTTCATCATGGTACAAAGAACCCTAGGACCCATACAGCTGTTT
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CCCTTGCTGACAAAGAGTTTCTCTCATCATGTGGCTATGTGAGCACAGACCAACTGAACAAAATCATG
CCTTAG
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Restriction Sites: Sgfl-Mlul

Plasmid Map:


ACCN: NM_001242399

Insert Size: 1938 bp

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).

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_001242399.2](#)

RefSeq Size: 4529 bp

RefSeq ORF: 1938 bp

Locus ID: 2690

UniProt ID: [P10912](#)

Cytogenetics: 5p13.1-p12

Protein Families: Druggable Genome, Transmembrane

Protein Pathways:	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, Neuroactive ligand-receptor interaction
MW:	72.2 kDa
Gene Summary:	<p>This gene encodes a member of the type I cytokine receptor family, which is a transmembrane receptor for growth hormone. Binding of growth hormone to the receptor leads to receptor dimerization and the activation of an intra- and intercellular signal transduction pathway leading to growth. Mutations in this gene have been associated with Laron syndrome, also known as the growth hormone insensitivity syndrome (GHIS), a disorder characterized by short stature. In humans and rabbits, but not rodents, growth hormone binding protein (GHBP) is generated by proteolytic cleavage of the extracellular ligand-binding domain from the mature growth hormone receptor protein. Multiple alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Jun 2011]</p> <p>Transcript Variant: This variant (2, also known as V9B) has an alternate 5' exon, which includes an in-frame AUG start codon, compared to variant 1. The resulting isoform (2) has a longer N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>