

## Product datasheet for **SC329959**

### Growth hormone receptor (GHR) (NM\_001242461) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Growth hormone receptor (GHR) (NM\_001242461) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** GHR  
**Synonyms:** GHBP; GHIP  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC329959 representing NM\_001242461.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

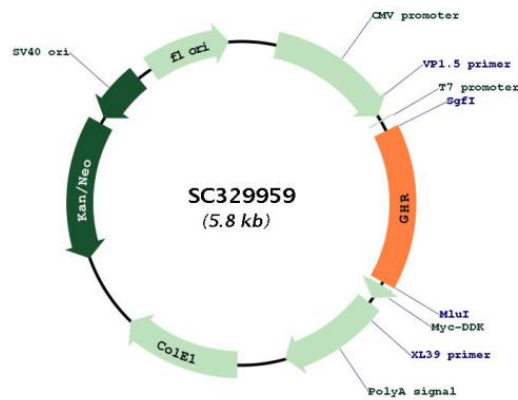
```
ATGGATCTCTGGCAGCTGCTGTTGACCTTGGCACTGGCAGGATCAAGTGATGCTTTTTCTGGAAGTGAG
GCCACAGCAGCTATCCTTAGCAGAGCACCTGGAGTCTGCAAAGTGTAAATCCAGGCCTAAAGACAAAT
TCTTCTAAGGAGCCTAAATTCACCAAGTGCCGTTACCTGAGCGAGAGACTTTTTTCATGCCACTGGACA
GATGAGGTTTCATCATGGTACAAAGAACCTAGGACCCATACAGCTGTTCTATACCAGAAGGAACACTCAA
GAATGGACTCAAGAATGAAAAGAATGCCCTGATTATGTTTCTGCTGGGGAAAACAGCTGTTACTTTAAT
TCATCGTTTACCTCCATCTGGATACCTTATTGTATCAAGCTAACTAGCAATGGTGGTACAGTGGATGAA
AAGTGTCTCTGTTGATGAAATAGTGCAACCAGATCCACCCATTGCCCTCAACTGGACTTTACTGAAC
GTCAGTTTAACTGGGATTCATGCAGATATCCAAGTGAGATGGGAAGCACCACGCAATGCAGATATTCAG
AAAGGATGGATGGTTCTGGAGTATGAACTTCAATACAAAGAAGTAAATGAACTAAATGGAAAATGATG
GACCCTATATTGACAACATCAGTTCCAGTGTACTCATTGAAAGTGGATAAGGAATATGAAGTGCCTGTG
AGATCCAAACAACGAACTCTGGAAATATGGCGAGTTCAGTGAGGTGCTCTATGTAACACTTCCTCAG
ATGAGCCAATTTACATGTGAAGAAGATTTCTACTTTCCATGGCTCTTAATTATTATCTTTGGAATATTT
GGGCTAACAGTGATGCTATTTGTATTCTATTTTCTAACAGCAAAGTTCAGTTCCAAAGATTA
```

**Restriction Sites:** Sgfl-Mlul



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## Plasmid Map:



**ACCN:** NM\_001242461

**Insert Size:** 894 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:	<a href="#">NM_001242461.1</a>
RefSeq Size:	4356 bp
RefSeq ORF:	894 bp
Locus ID:	2690
Cytogenetics:	5p13.1-p12
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, Neuroactive ligand-receptor interaction
MW:	34.1 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 (11, also known as GHR1-279) has an alternate splice site in the 3' coding region, compared to variant 1. The resulting transcript is a nonsense-mediated mRNA decay candidate, but the transcript and resulting isoform (4) are reported in publications (PMIDs:8855247,9360546 and 9058373) with experimental evidence. The isoform 4 has a shorter and distinct C-terminus, compared to isoform 1.</p>