

Product datasheet for **RC233054**

Growth hormone receptor (GHR) (NM_001242399) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Growth hormone receptor (GHR) (NM_001242399) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Growth hormone receptor
Synonyms:	GHBP; GHIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC233054 representing NM_001242399
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGTGGGTCTACAGGTATGGATCTCTGGCAGCTGTGTTGACCTTGGCACTGGCAGGATCAAGTG
 ATGCTTTTTCTGGAAGTGAGGCCACAGCAGCTATCCTTAGCAGAGCACCTGGAGTCTGCAAAGTGTAA
 TCCAGGCCTAAAGACAAATCTTCTAAGGAGCCTAAATTCACCAAGTGCCGTTCCACTGAGCGAGAGACT
 TTTTCATGCCACTGGACAGATGAGGTTTCATCATGGTACAAAGAACCTAGGACCCATACAGCTGTTCTATA
 CCAGAAGGAACACTCAAGAATGGACTCAAGAATGGAAAGAATGCCCTGATTATGTTTCTGCTGGGAAAA
 CAGCTGTACTTTAATTCATCGTTTACCTCCATCTGGATACCTTATTGTATCAAGCTAAGCAATGGT
 GGTACAGTGGATGAAAAGTGTCTCTGTTGATGAAATAGTGAACCAGATCCACCCATTGCCCTCACT
 GGACTTTACTGAACGTCAGTTAACTGGGATTCATGCAGATATCCAAGTGAGATGGGAAGCACCACGCAA
 TGCAGATATTCAGAAAGGATGGATGGTTCTGGAGTATGAACTTCAATACAAAGAAGTAAATGAAACTAAA
 TGGAAAATGATGGACCCTATATTGACAACATCAGTTCAGTGTACTCATTGAAAGTGATAAGGAATATG
 AAGTGCCTGTGAGATCCAAACAACGAAACTCTGGAAATATGGCGAGTTCAGTGGTGGCTCTATGTAAAC
 ACTTCCTCAGATGAGCCAATTTACATGTGAAGAAGATTTCTACTTTCCATGGCTCTTAATTTATCTTT
 GGAATATTTGGGCTAACAGTGTGCTATTTGTATTCTTATTTTCTAAACAGCAAAGGATTAATGCTGA
 TTCTGCCCCAGTTCAGTTCCAAAGATTAAGGAATCGATCCAGATCTCCTCAAGGAAGGAAAATTAGA
 GGAGGTGAACACAATCTTAGCCATTTCATGATAGCTATAAACCCGAATTCACAGTGTGACTCTTGGGTT
 GAATTTATTGAGCTAGATATTGATGAGCCAGATGAAAAGACTGAGGAATCAGACACAGACAGACTTCTAA
 GCAGTGACCATGAGAAATCACATAGTAACCTAGGGGTGAAGGATGGCGACTCTGGACGTACCAGCTGTTG
 TGAACCTGACATTCTGGAGACTGATTTCAATGCCAATGACATACATGAGGGTACCTCAGAGGTTGCTCAG
 CCACAGAGGTTAAAAGGGGAAGCAGATCTTATGCCTTGACCAGAAGAATCAAAATAACTCACCTTATC
 ATGATGCTTGCCCTGCTACTCAGCAGCCAGTGTATCCAAGCAGAGAAAAACAAACCACAACCCTTCC
 TACTGAAGGAGCTGAGTCAACTACCAAGCTGCCCATATTCAGCTAAGCAATCCAAGTTCCTGTCAAAC
 ATCGACTTTTATGCCAGGTGAGCGACATTACACCAGCAGGTAGTGTGGTCTTTCCCGGGCCAAAAGA
 ATAAGGCAGGGATGTCCAATGTGACATGCACCCGAAATGGTCTCACTCTGCCAAGAAAATTCCTTAT
 GGACAATGCCTACTTCTGTGAGGCAGATGCCAAAAAGTGCATCCCTGTGGCTCCTCACATCAAGGTTGAA
 TCACACATACAGCCAAGCTTAAACCAAGAGGACATTTACATCACCACAGAAAGCCTTACCACTGCTGCTG
 GGAGGCCTGGGACAGGAGAACATGTTCCAGGTTCTGAGATGCCTGTCCCAGACTATACCTCCATTATAT
 AGTACAGTCCCCACAGGGCCTCATACTCAATGCGACTGCCTTGCCTTGCCTGACAAAGAGTTTCTCTCA
 TCATGTGGCTATGTGAGCACAGACCAACTGAACAAAATCATGCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233054 representing NM_001242399
Red=Cloning site Green=Tags(s)

MNWGPTGMDLWQLLLTLALAGSSDAFSGSEATAAILSRAPWSLQSVNPLKTNSSKEPKFTKCRSPERET
 FSCHWTDEVHHGTKNLGPIQLFYTRRNTQEWQEWKECPDYVSAGENSICYFNSSFTSIWIPYCIKLTNSG
 GTVDEKCF SVDEIVQDPPIALNWTLLNVSLTGIHADIQVRWEAPRNADIQKGMVLEYELQYKEVNETK
 WKMMDPILTTSPVYSLKVDKEYEVRVRSKQRNSGNYGEFSEVLVYVTLQMSQFTCEEDFYFPWLLIIIF
 GIFGLTVMLFVFLFSKQQRKMLILPPVPVKIKGIDPDLLKEGKLEEVNTILAIHDSYKPEFHSDDSWV
 EFIELDIDEPDEKTEESDTRLLSSDHEKSHSNLGVKDGDSGRTSCEPDILETDFNANDIHEGTSEVAQ
 PQRKGEADLLCLDQKNQNNSPYHDACPATQQPSVIAEKNKPPQLPTEGAESTHQAHHIQLSNPSSLSN
 IDFYAQVSDITPAGSVVLSPGQKNKAGMSQCDMHPMVS LQCENFLMDNAYFCEADAKKIPVAPHIKVE
 SHIQPSLNQEDIYITTESLTTAAGRPGTGEHVPGESEMPVDPYTSIHIVQSPQGLILNATALPLPDKFEFLS
 SCGYVSTDQLNKIMP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001242399

ORF Size: 1935 bp

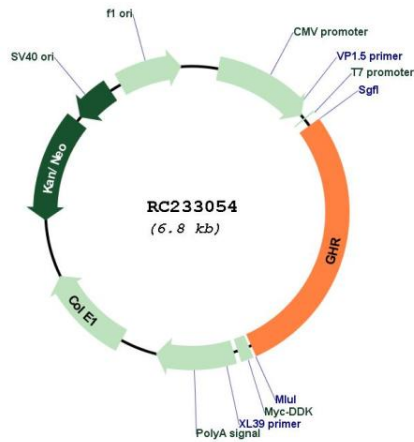
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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 , NP_001229328.1
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:	72.7 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>

Product images:



Circular map for RC233054