

Product datasheet for RC232403

Growth hormone receptor (GHR) (NM_001242461) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Growth hormone receptor (GHR) (NM_001242461) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GHR
Synonyms:	GHBP; GHIP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232403 representing NM_001242461 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGATCTCTGGCAGCTGCTGTTGACCTTGGCACTGGCAGGATCAAGTGATGCTTTTTCTGGAAGTGAGG
CCACAGCAGCTATCCTTAGCAGAGCACCTGGAGTCTGCAAAGTGTTAATCCAGGCCTAAAGACAAATTC
TTCTAAGGAGCCTAAATTCACCAAGTCCGTTACCTGAGCGAGAGACTTTTTCATGCCACTGGACAGAT
GAGGTTTCATCATGGTACAAAGAACCTAGGACCCATACAGCTGTTCTATACCAGAAGGAACACTCAAGAAT
GGACTCAAGAATGGAAAGAATGCCCTGATTATGTTTCTGCTGGGAAAACAGCTGTTACTTTAATTCATC
GTTTACCTCCATCTGGATACCTTATTGTATCAAGCTAACTAGCAATGGTGGTACAGTGGATGAAAAGTGT
TTCTCTGTTGATGAAATAGTGCAACCAGATCCACCCATTGCCCTCAACTGGACTTTACTGAACGTCAGTT
TAACTGGGATTCATGCAGATATCCAAGTGAGATGGGAAGCACCGCAATGCAGATATTCAGAAAGGATG
GATGGTTCTGGAGTATGAACTTCAATACAAAGAAGTAAATGAAACTAAATGGAAAATGATGGACCCTATA
TTGACAACATCAGTTCAGTGTACTCATTGAAAGTGGATAAGGAATATGAAGTGCCTGTGAGATCCAAAC
AACGAAACTCTGGAATATGGCGAGTTCAGTGAGGTGCTCTATGTAACACTTCCATCAGATGAGCCAATT
TACATGTGAAGAAGATTTCTACTTTCCATGGCTCTAATTATTATCTTTGGAATATTTGGGCTAACAGTG
ATGCTATTTGATTCTTATTTTCTAAACAGCAAAGTTCAGTTCCAAAGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232403 representing NM_001242461
 Red=Cloning site Green=Tags(s)

MDLWQLLLTLALAGSSDAFSGSEATAAILSRAPWSLQSVNPLKTNSSKEPKFTKCRSPERETF SCHWTD
 EVHHGTKNLGPIQLFYTRRNTQEWTEWKECPDYVSAGENSICYFNSSFTSIWIPYCIKLT SNGGTVDEKC
 FSVDEIVQDPPIALNWTLLNVSLTGIHADIQVRWEAPRNADIQKGMVLELQYKEVNETKWKMMDDPI
 LTT SVPVYSLKVDKEYEVRVRSKQRNSGNYGEFSEVLYVTL PQMSQFTCEEDFYFPWLLIIIFGIFGLTV
 MLFVFLFSKQSSSSSKD

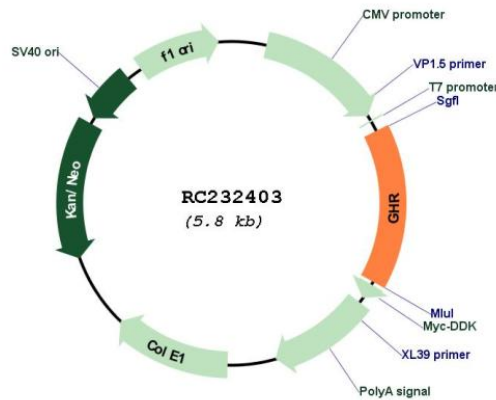
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001242461

ORF Size: 891 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_001242461.1 , NP_001229390.1
RefSeq Size:	4356 bp
RefSeq ORF:	893 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:	34.6 kDa
Gene Summary:	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]