

Product datasheet for **RG232396**

Growth hormone receptor (GHR) (NM_001242462) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Growth hormone receptor (GHR) (NM_001242462) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GHR
Synonyms:	GHBP; GHIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232396 representing NM_001242462 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCTCTGGCAGCTGCTGTTGACCTTGGCACTGGCAGGATCAAGTGATGCTTTTTCTGGAAGTGAGG
CCACAGCAGCTATCCTTAGCAGAGCACCTGGAGTCTGCAAAGTGTTAATCCAGGCCTAAAGACAAATTC
TTCTAAGGAGCCTAAATCACCAAGTCCGTTCCCTGAGCGAGAGACTTTTTTCATGCCACTGGACAGAT
GAGGTTTCATCATGGTACAAAGAACCTAGGACCCATACAGCTGTTCTATACCAGAAGGAACACTCAAGAAT
GGACTCAAGAATGAAAGAATGCCCTGATTATGTTTCTGCTGGGAAAACAGCTGTACTTTAATTCATC
GTTTACCTCCATCTGGATACCTTATTGTATCAAGCTAACTAGCAATGGTGGTACAGTGGATGAAAAGTGT
TTCTCTGTTGATGAAATAGTGCAACCAGATCCACCCATTGCCCTCAACTGGACTTTACTGAACGTCAGTT
TAACTGGGATTCATGCAGATATCCAAGTGAGATGGGAAGCACCGCAATGCAGATATTCAGAAAGGATG
GATGGTTCTGGAGTATGAACTTCAATACAAAGAAGTAAATGAAACTAAATGGAAAATGATGGACCTATA
TTGACAACATCAGTTCAGTGTACTCATTGAAAGTGGATAAGGAATATGAAGTCCGTGTGAGATCCAAAC
AACGAACTCTGGAAATTATGGCGAGTTCAGTGGCTCTATGTAACACTTCCCTCAGATGAGCCAATT
TACATGTGAAGAAGATTTCTACTTTCCATGGCTCTAATTATTATCTTTGGAATATTTGGCTAACAGTG
ATGCTATTTGTATTCTTATTTTCTAAACAGCAAAGGAAGGAAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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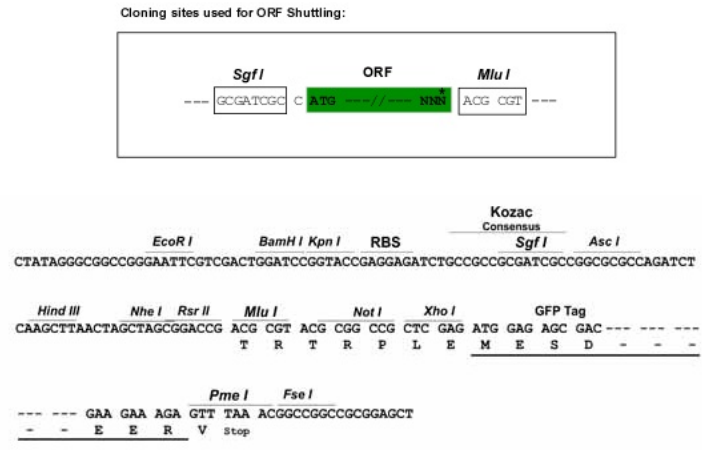
Protein Sequence: >RG232396 representing NM_001242462
Red=Cloning site Green=Tags(s)

MDLWQLLLTLALAGSSDAFSGSEATAAAILSRAPWSLQSVNPLKTNSSKEPKFTKCRSPERETF SCHWTD
 EVHHGTKNLGPIQLFYTRRNTQEWTEWKECPDYVSAGENSCYFNSSFTSIWIPYCIKLSNGGTVDEKC
 FSVDEIVQDPPIALNWTLNLSLTGIHADIQVRWEAPRNADIQKQWMLVLEYELQYKEVNETKWKMMDDPI
 LTTSPVYSLKVDKEYEVRVRSKQRNSGNYGEFSEVLVYVTLTPQMSQFTCEEDFYFPWLLIIIFGIFGLTV
 MLFVFLFSKQQRKEN

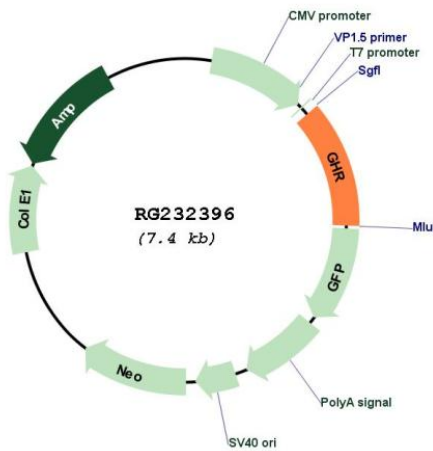
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001242462

ORF Size: 885 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_001242462.1 , NP_001229391.1
RefSeq Size:	4312 bp
RefSeq ORF:	888 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
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]