

## Product datasheet for **MR209766**

### Ghr (NM\_010284) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ghr (NM_010284) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ghr
Synonyms:	GHBP; GHR/BP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR209766 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGATCTTTGTCAGGTCTTCTTAACCTTGGCACTGGCAGTCACCAGCAGCACATTTTCTGGAAGTGAGG  
CTACACCAGTACTCTTGGCAAAGCTTCCCAGTTCTGCAAAGAATCAATCCAAGCTGGGACAAGTTC  
TTCTGGGAAGCCTCGATTACCAAGTGTGTTCCCTGAACTGGAGACATTTTTCATGCTACTGGACAGAA  
GGAGATAATCCTGATTTAAAGACCCAGGATCTATTACAGTGTACTATGCTAAAAGGGAAAGCCAACGAC  
AAGCTGCAAGAATTGCTCATGAATGGACCCAGGAATGGAAGAATGCCCTGATTATGTCTCTGCTGGAAA  
AAACAGCTGTTACTTCAACTCATCATATACCTCCATTTGGATACCTACTGCATCAAGCTAACTACAAT  
GGTGATTTGCTGGACAAAAATGTTTCACTGTTGACGAAATAGTGCAACCTGATCCACCCATTGGCCTCA  
ACTGGACTTTACTAAACATTAGTTTGACCGGGATTCGTGGAGACATCCAAGTGAGTTGGCAACCACCACC  
CAATGCAGATGTTCTGAAGGGATGGATAATTCTGGAGTATGAAATTCAGTACAAAGAAGTAAATGAATCA  
AAATGGAAAGTGATGGGCCCTATATGGTTAACATACTGTCCAGTGTACTATTGAGAATGGATAAAGAAC  
ATGAAGTGCGGGTGAGATCCAGACAACGGAGCTTTGAAAAGTACAGCGAGTTCAGCGAAGTCCCTCCGTGT  
AATATTTCCCTCAGACGAACATATTGGAAGCATGTGAAGAAGATATCCAGTTTCCATGGTTCTTAATTATT  
ATCTTTGGAAATTTGGAGTAGCAGTGTGCTATTTGTAGTTATATTTTCAAAGCAGCAAAGGATTAAGA  
TGCTGATTTTACCCAGTCCCAGTTCCAAAGATTAAGGGATTGATCCAGATCTTCTCAAGGAAGGGAA  
GTTGGAGGAGGTGAACACCATCTTAGGCATTATGATAACTACAAACCCGACTTCTACAATGATGATTCC  
TGGGTCGAGTTCATTGAGCTAGATATTGATGAAGCAGATGTGGATGAGAAGACTGAAGGGTCTGACACAG  
ACAGACTTCTAAGCAATGATCATGAGAAATCAGCTGGTATCCTTGGAGCAAAGGATGATGATTTGGGCG  
TACCAGCTGTTACGACCCTGACATTTTGGATACTGATTTCCATACCAGTGACATGTGTGATGGTACCTTG  
AAGTTTGCTCAGTCACAGAAGTTAAATATGGAAGCTGATCTTGTGCCTTGATCAGAAGAATCTGAAGA  
ACTTGCCTTATGATGCTTCCCTTGGCTCTCTGCATCCCTCCATTACCCAGACAGTAGAAGAAAACAAGCC  
ACAGCCACTTTTGGAGCAGCGAAACTGAGGCAACCCACCAACTCGCCTCTACACCGATGAGTAATCCACACA  
TCACTGGCAAACATTGACTTTTATGCCAAGTAAGCGACATTACACCAGCAGGTGGTGTAGTCTTTCCC  
CAGGCCAAAAGATTAAGGCAGGGATAGCCCAAGGCAATACCCAGCGGGAGGTGGCCACGCCCTGCCAAGA  
AAATTACAGCATGAACAGTGCCTACTTTTGTGAGTCAGATGCCAAAAATGCATCGCTGTGGCCCTCGC  
ATGGAAGCCACGTCTTGTATAAAACCAAGCTTTAACCAAGAGGACATTTACATCACCACAGAAAGCCTTA  
CCACTACTGCCAGATGTCTGAGACAGCAGATATTGCTCCAGATGCTGAGATGTCTGTCCAGACTACAC  
CACGGTTCACACCGTGCAGTCTCCAAGGGCCTTATACTCAACGCAACTGCTTTGCCTTTGCCTGACAAA  
AAGAATTTTCCCTCCTCGTGTGTTATGTGAGCACAGACCAACTGAACAAAATCATGCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR209766 protein sequence  
Red=Cloning site Green=Tags(s)

```
MDLCQVFLTLALAVTSSTFSGSEATPATLGKASPVLQRINPSLGTSSSGKPRFTKCRSPELETFCYWTE
GDNPDLKTPGSIQLYYAKRESQRQAARIAHEWTQEWEKCPDYVSAGKNSCYFNSSYTSIWIPYCIKLTN
GDLLDQKCFVDEIVQDPPIGLNWTLLNISLTGIRGDIQVSWQPPNADVLKGIILEYEIQYKEVNES
KWKVMGPIWLTYCPVYSLRMDKEHEVRVRSRQSFKEYSEFSEVLRVIFPQTNILEACEEDIQFPWFLII
IFGIFGVAVMLFVVFISKQQRKIKMLILPPVPVKIKGIDPDLLKEGKLEEVNTILGIHDNYKPDFYNDDS
WVEFIELDIDEADVDEKTEGSDTRLLSNDHEKSAGILGAKDDDSGRTSYDPDILDTFHTSDMCDGTL
KFAQSQKLNMEADLLCLDQKNLKNLPYDASLGLSHPISITQVTEENKQPQLLSSETEATHQLASTPMSNPT
SLANIDFYAQVSDITPAGGVVLSPGQKIKAGIAQGNTQREVATPCQENYSMNSAYFCESDAKKCIAVAPR
MEATSCIKPSFNQEDIYITTESLTTTAQMSETADIAPDAEMSVDPDYTTVHTVQSPRGLILNATALPLPK
KNFPSSCGYVSTDQLNKIMQ
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_010284

**ORF Size:** 1953 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:**

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\\_010284.1](#), [NM\\_010284.2](#), [NM\\_010284.3](#), [NP\\_034414.2](#)

**RefSeq Size:** 4302 bp

**RefSeq ORF:** 1953 bp

**Locus ID:** 14600

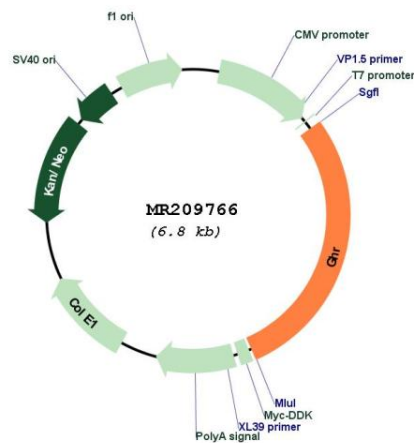
**UniProt ID:** [P16882](#)

**Cytogenetics:** 15 1.84 cM

**MW:** 72.6 kDa

**Gene Summary:** Receptor for pituitary gland growth hormone involved in regulating postnatal body growth. On ligand binding, couples to, and activates the JAK2/STAT5 pathway (By similarity). [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR209766