

## Product datasheet for **MR222701**

### **Rxfp2 (NM\_080468) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rxfp2 (NM_080468) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rxfp2
Synonyms:	Gpr106; Great; Lgr8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR222701 representing NM\_080468  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGCTCTACTTCATGTCATCCTTCTGACAGAGGTCAAAGATTTGCACTGGCTGACAGCAGTATGG  
 TGGCTCCTCTGTGCCCAAAGGGTATTTCCCTGTGGGAATCTACCAAATGCTTGCCCCGAGCCTTTCA  
 CTGCGATGGTGTGGATGATTGCGGGAATGGTGCCGACGAGGACAACCTGTGGTGACACTAGTGATGGACA  
 ACCATATTTGGCACAGTCCATGGGAATGTCAATAAAGTGACATTGACACAGGAGTGCTTTCTCAGCCAGT  
 ATCCACAGCACTGTTACTGCAGAGAAAATGAACTGGAATGTGTAAGGCTGACTTAAAAGCTGTGCCAAA  
 GGTTTCCAGCAACGTAACATTACTATCTCTTAAGAAAAACAAAATCCACAGACTTCCAGTCAAGGTCTTC  
 AGCAGATACACAGAACTCAGAAAGATATACCTTCAGCACAACTGCATCACACACATCTCCAGGAGAGCAT  
 TCCTTGGATTACATAATCTACAAATACTGTATCTCAGCCATAACTGCATTACCTCTCTCAGGCTGGGAT  
 ATTCAAAGACTTGCACTCAGCTTGGCTAATTTTAGATGACAACCCGATCACCAGAATCTCACAGAAG  
 TCCTTTATGGGGTTAAACTCCTTGTCTTTCTGTCCATGGTGGTAACCGGCTCGAGGCCCTTCCTGAAA  
 CATTGTGTGCTCAGATGCCTCAACTCAACTGGGTGGATCTGGCAAACAATGGAATAAAGTACATAACGAA  
 CTCACCTTCTAACGTGCGACTCGCTCAGGTTCTGTTCTGCCTAGAAATCAAATTTGGTTTTGTTC  
 GAGAAGACATTTCTTCATTAATAAATTTAGGAGAAGTGGACCTGTCTAGCAATATGATAACAAAACCTCC  
 CAGTCCACCTTTTCCAGCGACCTTCATCTTCCAGAAGCTGAACCTGTCTCAACCCCTCTTCTGTATGT  
 CCACAAGAACCAGTTTGGAGTCTCAACAACCTCAGTCTCTAGACCTGGAAAGGATAGAGATCCAAAC  
 ATAAGCACAGGAATGTTCCAGCAATGAAGAACCTTTCTCACATTTATTTGAAAACCTTTTCGATACTGCT  
 CCTATGTCCCCCATGTCGGAATCTGTATGCCGCTGACTGATGGTATTTCTCGTCTGAGGACCTTTGGC  
 TAACGGTATCCTCAGAGTGTCTGTCTGGGTTATAGCTTTTACCTACCTGCGTTGGGAATTTCTTGTCTATA  
 GCCGTGAGATCTCTCATTAAAGGCTGAGAATACAACCTCACGCTATGTCCATCAAAATCCTTTGTTGTGCCG  
 ATTGCCTGATGGGGTGTACCTGTTCTCCGTGGGCGTCTTTGACATCAAGTACCGAGGGCAGTATCAGAA  
 GTATGCGCTGCTGTGGATGGAGAGTGTGCCCTGCCGCTGCTGGGCTTCTGGCCACGCTGTCCACAGAG  
 GTCTCGGTGCTGCTGCTGACATTCTGACGCTGGAGAAGTTCTTGTCTAGTATTCCCTTTCCAGCAACC  
 TGCGCCTGGGCAAGCGCCAGACTGCTGTGGCCCTGCCAGCATCTGGGTGGTGGGATTTCTCATAGCGGC  
 CGTTCCGTTACCAGAGAGGATTATTTCCGCAACTTTTATGGGAAAAATGGAGTCTGCTTCCCACTTCAT  
 TATGACCAAGCAGAAGATTTTGAAGTAGAGGGTACTCCCTTGGGATTTTCTAGGTGTGAACCTGTCTGG  
 CTTTCTCGTCTCGTATTTCTATGTACCATGTTCTGCTCCATTCATAAAACAGCCCTTCAGACTGC  
 AGAAGTGAGGAGCCATCGGGAAGGAGGTGGCTGTTGCAAACCGGTTCTTTTTATCGTGTCTCTGAT  
 GCCATCTGCTGGATCCCTGTGTTTGTGCTTAAGATCCTGTCTCTCCTTCAAGTGGAGATACCAGGCACAA  
 TCACCTTCTGGATCGTGGTTTTTTTCTTCCGGTGAACAGCGCCTTAAACCCCATCCTCTACACTCTGAC  
 GACCTCCTTTTTAAGGACAAGTTGAAACAGTTGCTGCACAAACATCGGAGGAAACCCATCTTCAAAGTT  
 AAGAAGAAAAGTTTATCCGCTCCATTGTGTGGACAGACGAGTCTTCACTTAAACTTGGAGTGTGAGCA  
 AAATAGCCCTTGGGGACAGTATAATGAAGCCGGTCTCCCCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222701 representing NM\_080468  
 Red=Cloning site Green=Tags(s)

MWLLLVHILLTEVKDFALADSSMVAPLCPKGYFPCGNLTKCLPRAFHCDCGVDDCGNGAEDNCGDTSWGT  
 TIFGTVHGNVNVKVTLTQECFLSQYPQHCYCRENELECVKADLKAVPKVSSNVTLTSLKKNKIHRLPVKVF  
 SRYTELKRIYLQHCITHISRRAFLGLHNLQILYLSHCNITSLRPGIFKDLHQLAWLILDDNPITRISQK  
 SFMGLNSLFFLSMVGNRLEALPETLCAQMPQLNWVDLANNGIKYITNSTFLTCDLSTVLFPRNQIGFVP  
 EKTFFSSLKNLGELDLSSNMITKLPVHLFSDLHLLQKLNLSNPLLYVHKNQFGSLKQLQSLDLERIEIPN  
 ISTGMFQPMKNLSHIYKTFRYCSYVPHVIRICMPSTDGISSSEDLLANGILRVSVWVIAFITCVGNFLVI  
 AVRSLIKAENTTHAMSIKILCCADCLMGVYLFVSGVFDIKYRGQYQYALLWMESVPCRLLGFLATLSTE  
 VSVLLLTFLTEKFLVIVFPFNLRLGKRQTAVALASIWVVGFLIAAVPFTREDFGNFYGKNGVCFPLH  
 YDQAEDFGSRGYSLGIFLGVNLLAFLVIVISYVTMFCSIHKTAQTAEVRSHIGKEVAVANRFFIVFSD  
 AICWIPVFVVKILSLLQVEIPGTTISWIVVFFLPVNSALNPILYTLTTSFFKDKLKQLLHKHRRKPIFKV  
 KKKLSASIVWTESSLKLGVLKIALGDSIMKPVSP

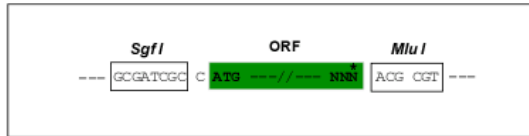
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9026\\_f08.zip](https://cdn.origene.com/chromatograms/mm9026_f08.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_080468

ORF Size: 2211 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_080468.2](#), [NP\\_536716.2](#)

**RefSeq Size:** 3389 bp

**RefSeq ORF:** 2214 bp

**Locus ID:** 140498

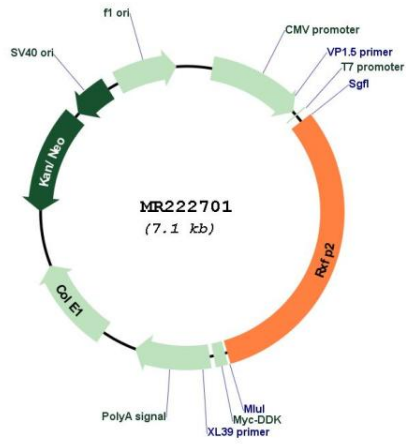
**UniProt ID:** [Q91ZZ5](#)

**Cytogenetics:** 5 89.23 cM

**MW:** 83.4 kDa

**Gene Summary:** Receptor for relaxin. The activity of this receptor is mediated by G proteins leading to stimulation of adenylate cyclase and an increase of cAMP. May also be a receptor for Leydig insulin-like peptide (INSL3) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222701