

## Product datasheet for MR224721

### Grpr (NM\_008177) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grpr (NM_008177) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grpr
Synonyms:	GR; GRP-R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224721 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCCAAATAATTGTTCCACCTGAACTTGGACGTGGACCCTTTCCTGTCCTGCAACGACACCTTCA  
ATCAAAGTCTGAGTCCCCCAAGATGGACAACCTGGTTTCAACCGGGCTTCATCTATGTATCCCTGCAGT  
TTATGGGCTTATCATCGTATAGGTCTTATTGGCAACATCAGCTCATCAAGATCTTCTGCACGGTCAAG  
TCCATGCGAAACGTGCCAAACCTGTTTCATCTCTAGCCTGGCTTTGGGAGACCTGCTGCTGCTGGTGACAT  
GCGCCCTGTGGATGCCAGCAAGTACCTGGCTGACAGGTGGCTATTTGGCAGAATTGGCTGCAAACCTGAT  
CCCTTTATACAACCTACTTCAGTGGGGGTGTCTGTCTTACACTTACGGCACTGTGAGCTGACAGGTAC  
AAAGCCATTGTACGGCAATGGATATCCAGGCATCCCATGCCCTGATGAAGATCTGTCTCAAAGCTGCTT  
TGATCTGGATTGTCTCTATGTTGTTGGCCATCCCAGAGGCTGTGTTTTCTGACCTCCACCCCTTCCATGT  
GAAAGATACCAACCAAACCTTCATTAGTTGTGCCCCCTACCCACTCCAATGAGCTACACCCTAAAATC  
CATTCCATGGCTTCTTTCTGGTTTTCTACGTTATCCACTGGCGATCATCTCTGTCTACTACTTCA  
TTGCCGAAATCTGATTCAGAGTGCCTACAATCTTCCCGTGAAGGCAATATACATGTCAAGAAGCAGAT  
CGAATCCCAGGAGCGGCTTGCCAAGACAGTACTGGTGTGTTGGGCTCTTTGCCTCTGCTGGCTCCCC  
AACCATGTCATCTACCTGTACCTTCTACCCTACTCTGAAGTGGACACCTCCATGCTCCACTTTGTCA  
CCAGCATCTGTGCCCGCCTCCTGGCCTTACCAACTCCTGTGTGAACCCCTTTGCTCTTTATCTGCTGAG  
CAAGAGCTTCAGGAAGCAGTTCAACACTCAACTTCTCTGCTGCCAGCCTGGCCTGATGAACAGGTCCCAC  
AGCACAGGCAGAAGTACCACCTGCATGACCTCCTTCAAGAGCACTAACCCCTCGGCTACCTTTAGCCTCA  
TCAACAGAAATATCTGTCATGAGGGGTATGTC

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR224721 protein sequence  
Red=Cloning site Green=Tags(s)

MAPNNCSHLNLDVDPFLSCNDTFNQSLSPPKMDNWFHPGFIYVIPAVYGLIIVIGLIGNITLIKIFCTVK  
 SMRNVPNLFISSLALGDLVVTCAPVDASKYLADRWLFGRIGCKLIPFIQLTSVGVSVFTLTALSADRY  
 KAIVRPMDIQASHALMKICLKAALIWIIVSMLLAIPAVFSDLHPHFVKDTNQTFISCAPYPHSNELHPKI  
 HSMASFLVFYVIPLAIIISVYFYFIARNLIQSAYNLPVEGNIHVKKQIESRKRLAKTVLVFVGLFAFCWLP  
 NHVIYLYRSYHYSEVDTSMLEHFTSICARLLAFTNSCVNPFALYLLSKSFRKQFNTQLLCCQPGLMNRSH  
 STGRSTTCMTSFKSTNPSATFSLINRNICHEGYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_008177

**ORF Size:** 1155 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\\_008177.3](#)

**RefSeq Size:** 2493 bp

**RefSeq ORF:** 1155 bp

**Locus ID:** 14829

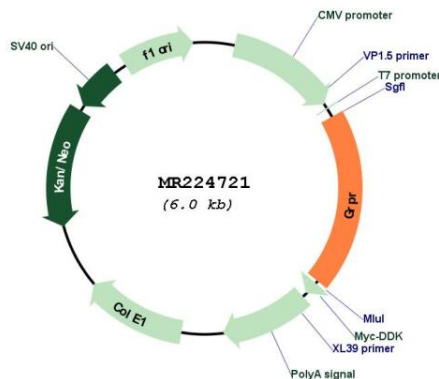
**UniProt ID:** [P21729](#)

**Cytogenetics:** X 75.63 cM

**MW:** 43.2 kDa

**Gene Summary:** This gene encodes a multipass membrane protein that functions as a receptor for gastrin releasing peptide. Signalling through this receptor is important in a variety of physiological processes, including responses to itching, satiety, and fear. [provided by RefSeq, May 2015]

**Product images:**



Circular map for MR224721