

Product datasheet for **MG224721**

Grpr (NM_008177) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grpr (NM_008177) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Grpr
Synonyms:	GR; GRP-R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224721 representing NM_008177 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCAAATAATTGTTCCACCTGAACTTGGACGTGGACCCTTTCCTGTCCTGCAACGACACCTTCA
ATCAAAGTCTGAGTCCCCCAAGATGGACAACCTGGTTTCAACCGGGCTTCATCTATGTCATCCCTGCAGT
TTATGGGCTTATCATCGTATAGGCTTATTGGCAACATCAGCTCATCAAGATCTTCTGCACGGTCAAG
TCCATGCGAAACGTGCCAAACCTGTTTCATCTAGCCTGGCTTTGGGAGACCTGCTGCTGCTGGTGCAT
GCGCCCTGTGGATGCCAGCAAGTACCTGGCTGACAGGTGGCTATTTGGCAGAATTGGCTGCAAACCTGAT
CCCTTTATACAACCTTACTTCAGTGGGGGTGCTGCTTTCACACTTACGGCACTGTCAGCTGACAGGTAC
AAAGCCATTGTACGGCAATGGATATCCAGGCATCCCATGCCCTGATGAAGATCTGTCTCAAAGCTGCTT
TGATCTGGATTGTCTCTATGTTGTTGGCCATCCCAGAGGCTGTGTTTTCTGACCTCCACCCCTTCCATGT
GAAAGATACCAACCAAACCTTCATTAGTTGTGCCCCCTACCCACACTCCAATGAGCTACACCCTAAAATC
CATTCCATGGCTTCCTTCTGGTTTTCTACGTTATCCCACTGGCGATCATCTCTGTCTACTACTTCA
TTGCCCGAAATCTGATTCAGAGTGCCTACAATCTCCCGTGAAGGCAATATACATGTCAAGAAGCAGAT
CGAATCCCAGGAGCGCTTGCCAAGACAGTACTGGTGTGTTGGGCTCTTTGCCTTCTGCTGGCTCCCC
AACCATGTCATCTACCTGTACCTTCTACCCTACTCTGAAGTGGACACCTCCATGCTCCACTTTGTCA
CCAGCATCTGTGCCCGCTCCTGGCCTTACCAACTCCTGTGTGAACCCCTTTGCTCTTTATCTGCTGAG
CAAGAGCTTCAGGAAGCAGTTCAACACTCAACTTCTCTGCTGCCAGCCTGGCCTGATGAACAGGTCCCAC
AGCACAGGCAGAAGTACCACCTGCATGACCTCCTTCAAGAGCACTAACCCCTCGGCTACCTTTAGCCTCA
TCAACAGAAATATCTGTCATGAGGGGTATGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224721 representing NM_008177
 Red=Cloning site Green=Tags(s)

MAPNNCSHLNLDVDPFLSCNDTFNQSLSPPKMDNWFHPGFIYVIPAVYGLIIVIGLIGNITLIKIFCTVK
 SMRNVPNLFISSLALGDLVVTCAPVDASKYLADRWLFGRIGCKLIPFIQLTSVGVSVFTLTALSADRY
 KAIVRPMDIQASHALMKICLKAALIWIIVSMLLAIPAEVFSDLHPFHVKDTNQTFISCAPYPHSNELHPKI
 HSMASFLVFYVIPLAIIISVYFFIARNLIQSAYNLPVEGNIHVKKQIESRKRLAKTVLVFVGLFAFCWLP
 NHVIYLYRSYHYSEVDTSMLEHFTSICARLLAFVNSCVNPFALYLLSKSFRKQFNTQLLCCQPGLMNRSH
 STRSTTCMTSFKSTNPSATFSLINRNICHEGYV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008177

ORF Size: 1152 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

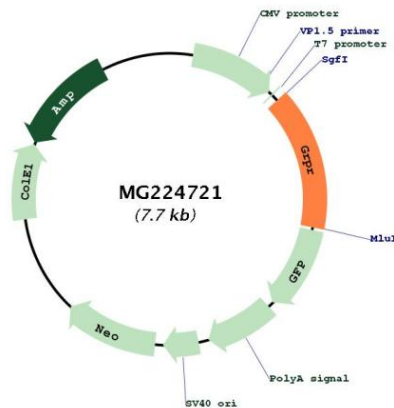
Locus ID: 14829

UniProt ID: [P21729](#)

Cytogenetics: X 75.63 cM

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 MG224721