

Product datasheet for **RR211746**

Gpr107 (NM_001107828) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr107 (NM_001107828) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpr107
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR211746 representing NM_001107828
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGTCGGGTACCCCTCGGCTGCACGGGCTCCTTCTGCCCGCGCTGCTACCACTGCTGGCATTGT
 TGGAGCTGCTCGTACCCAGCTTGGCCGCGTCCATCACCTGGCGCTCAAAGATGACGTGCGGCACAA
 AGTCCATCTCAACACCTTCGGCTTCTTCAAGGACGGGTACATGGTGGTCAACATCAGCAGCCTCTCTGTG
 AACGAGCCTGAGGGAGTCAAGGACAAAGACACTGAGATTGGCTTCACTTGTATCGGACCAAGAATGATG
 GCTTTTCTTACCTGGATGAAGATGTGAATTACTGTATTTAAAAAAGTCCATGTCTTCTGTAC
 TCTGCTCATCTTAGACATCTCCGGAAGTGGAGTCAAGGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT
 CCCGAGATTGTCTCAGCAAGGATGAGAAAGTCCGAGTCCGAGCCAGGAGCCTGCTGTCAAGTCAAGT
 CCAAGACAGCAAGGTGCAGAGAACCCTGATGGTTCCAAGGCTCAACGAAGTACAGTGGATTCAAAGAC
 TATAGCAGAGAAATCTTCTCAATTCATAAGAATGATGGGGCAGTTTCATTTCAAGTCTTCTTTAACATC
 AGCACCAGTGACCAGGAAGGCCTTACAGCCTTACTTCCACAAGTGCCCAAGCAGCAAGCTGAGGTCTG
 GTGAGCAGGTCTCATTACGCCTAAATATTGATATCACCGAGAAGAATCCTGACAGCTACCTGTCTGCAGG
 GAAATCCCTCTCCCAAGTTATACGTTTCCATGGCCTTGTGTCTTCTGTCTGGGACCGTGTGGATT
 CACATCCTTCGTAACGAAGGAATGATGTATTTAAAATCACTGGTTGATGGCGGCCCTTCTTTACCA
 AGTCTCTCTCCTTGGTGTTCATGCAATCGACTACCACTACATCTCCTCGCAGGGCTTCCGATTGAAGG
 CTGGGCTGTTGTGTAACATAACTCACCTGCTGAAGGGTGCAGTCTGTTTATCACCATCGCCCTCATT
 GGCATGGCTGGCCCTCATCAAGCACATCCTGTCTGATAAGGACAAGAAGATCTTCATGATTGTCAATC
 CGCTCCAGTACTGGCGAATGTGGCCTACATCATAGAGTCTACTGAGGAGGGCACAAGTCAAGTATGG
 CTTGTGGAAGGACTCTCTATTCCTGGTGGATTTGCTGTGCTGCGGCGCCATCCTCTTCCAGTGGTGTGG
 TCAATCAGGCATTTACAAGAAGCCTCGGCCACAGATGAAAAGCTGCCATTAACCTAGCAAAGCTGAAGC
 TTTTCAGACATTACTACGTCCTGATCGTGTGCTACATCTACTTACCAGGATCATCGCCTTCTTCTCAA
 GTTCGCTGTTCCCTTCCAGTGGAAAGTGGCTCTACCAGTCTGGATGAAACAGCCACACTGGTGTCTTT
 GTCCTGACGGGTATAAATTCGCCAGCTTCAAGATAACCCCTACCTGCAGCTCTCTCAGGAAGAAGATG
 ACCTGGAGATGGAGTCTGTAGTGACGACGTCAGGAGTAAATGGAGAACATGAAGAAGTGAAGAAAGTGA
 CAATGGTCTGTGGAGCCCCAGGCAGCTGGGAAGGCACCGC

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>RR211746 representing NM_001107828
 Red=Cloning site Green=Tags(s)

MAVRVPLGCTGSFCPRLLPLLALLELLVDPVSLGRVHHLAKDDVRHKVHLNTEGFFKDGVMVNISSLV
 NEPEGVKDKDTEIGFSLDRTKNDGFSSYLDEDVNYCILKKSMSSVTLILDISGSGVKVRSPEAGKQL
 PEIVFSKDEKVPSSQEPVSSNPKDSKVQRTPDGSKAQRSTVDSKTIIEKFFSIHKNDGAVSFQFFNI
 STSDQEGLYSLYFHKCPSSKLRSGEQVSFLNIDITEKNPDSYLSAGEIPLPKLYVSMALLFFLSGTVWI
 HILRKRNRDVFKIHWMALPFTKLSLVFHAIDYHYISSQGFPIEGWAVVYIITHLLKGALLFITIALI
 GTGWAFIKHILSDKDKIFMIVIPLQVLANVAYIIIESTEEGTEYGLWKDSLFLVDLLCCGAILFPVW
 SIRHLQEASATDGKAAINLAKLFRHYVYLIVCYIYFTRIIAFLKFAVPFQWKWLYQLLDETATLVFF
 VLTGYKFRPASDNPYLQLSQEEDDLEMESVVTTSVGMENMKVKKVSNAGAVPEPQGSWEGTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

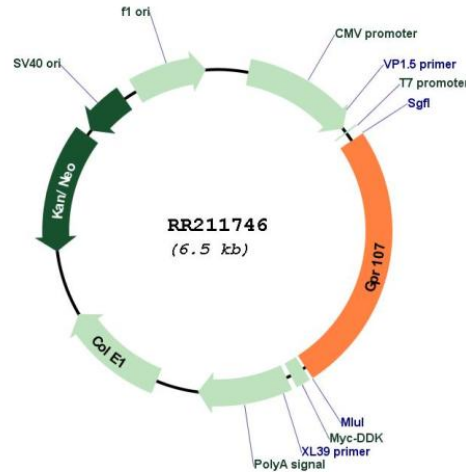
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001107828

ORF Size: 1653 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 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:	<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:	<u>NM_001107828.1</u> , <u>NP_001101298.1</u>
RefSeq Size:	3950 bp
RefSeq ORF:	1656 bp
Locus ID:	311857
UniProt ID:	<u>D3ZWZ9</u>
Cytogenetics:	3p12
MW:	62 kDa
Gene Summary:	Has been proposed to act as a receptor for neuronostatin, a peptide derived from the somatostatin/SST precursor (PubMed:22933024, PubMed:26561648). Involved in blood sugar regulation through the induction of glucagon in response to low glucose (PubMed:26561648). [UniProtKB/Swiss-Prot Function]