

Product datasheet for **RG226562**

GPR107 (NM_001136558) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | GPR107 (NM_001136558) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | GPR107 |
| Synonyms: | bA138E2.2; GCDRP; LUSTR1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG226562 representing NM_001136558
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGCTCTGGCGCCCGTCGGCTCCCCGCCTCCCGCGGTCTAGGCTGGCCGCGGCCCTCCGGCTGC
 TCCAATGCTGGGTTTGTCTGCAGTTGCTGGCCGAGCCTGGCCTGGCCGCGGTCCATCACCTGGCACTCAA
 GGATGATGTGAGGCATAAAGTTCATCTGAACACCTTTGGCTTCTTCAAGGATGGGTACATGGTGGTGAAT
 GTCAGTAGCCTCTCACTGAATGAGCCTGAAGACAAGGATGTGACTATTGGATTTAGCCTAGACCGTACAA
 AGAATGATGGCTTTTCTTCTTACCTGGATGAAGATGTGAATTACTGTATTTAAAGAAACAGTCTGTCTC
 TGTACCCTTTTAAATCCTAGACATCTCCAGAAGTGAGGTAAGAGTAAAGTCTCCACCAGAAGCTGGTACC
 CAGTTACCAAAGATCATCTTCAGCAGGGATGAGAAAGTCTTGGTCAGAGCCAGGAGCCTAATGTTAAACC
 CTGCTTCAGCAGGCAACCAGACCCAGAAGACACAAGATGGTGGAAAGTCTAAAAGAAGTACAGTGGATTC
 AAAGGCCATGGGAGAGAAATCCTTTCTGTTTCATAATAATGGTGGGCAGTGTCAATTCAGTTTTTCTTT
 AACATCAGCACTGATGACCAAGAAGGCCTTTACAGTCTTTATTTTCATAAATGCCTTGGAAAAGAATTGC
 CAAGTGACAAGTTTACATTCAGCCTTGATATTGAGATCACAGAGAAGAATCCTGACAGCTACCTCTCAGC
 AGGAGAAATTCCTCTCCCAAATATACATCTCAATGGCCTTTTCTTCTTTCTTTCTGGGACCATCTGG
 ATTCATATCCTTCGAAAACGACGGAAATGATGTATTTAAATCCACTGGCTGATGGCGGCCCTTCTTTCA
 CCAAGTCTCTTCTTGGTGTCCATGCAATTGACTACCACTACATCTCCTCCAGGGCTTCCCTATCGA
 AGGCTGGGCTGTGTGTACTACATAACTCACCTTTTGAAGGGGGCCTACTTTCATCACCATTGCACTC
 ATTGGCACTGGCTGGGCTTTTATTAAGCACATCCTTTCTGATAAAGACAAAAAGATCTTCATGATTGTCA
 TTCCACTCCAGGCTGGCAAATGTAGCCTACATCATAGAGTCCACCGAGGAGGGCAGCAGTGAATA
 TGGCTTGTGGAAGGACTCTCTATTTCTGGTCGACCTGTTGTGTTGTGGTGCATCCTCTTCCCAGTGGTG
 TGGTCAATCAGACATTTACAAGAAGCATCAGCAACAGATGGAAAAGGTGACAGCATGGGACCTCTCAGC
 AGAGAGCGAATCTAAGAGCAGGAAGTCGCATAGCTGCTATTAAGTACGAAAGCTGAAACTTTTCAGACA
 TTATTACGCTTGTATTGTGTGTTACATATACTTCACTAGGATCATTGCATTTCTCCTCAAACCTCGCTGT
 CCATTCCAGTGGAAAGTGGCTCTACCAGCTCCTGGATGAAACGGCCACACTGGTCTTCTTTGTTCTAACGG
 GGTATAAATCCGTCCGGCTTCCAGATAACCCCTACCTACAACCTTCTCAGGAAGAAGAAGACTTGGAAAT
 GGAGTCCGTTGTGACAACATCTGGGTGATGGAAAGTATGAAGAAAGTCAAGAAGGTGACCAACGGCTCC
 GTGGAGCCCCAGGGCAGTGGGAAGGCGCCGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG226562 representing NM_001136558
 Red=Cloning site Green=Tags(s)

MAALAPVGSPASRGPRLAAGLRLLPMLGLLQLLAEPGLGRVHHLALKDDVRHKVHLNTFGFFKDGMYMVN
 VSSLNLNRPEDKDVITIGFSLDRTKNDGFSYLDDEVNYCILKKQSVSVTLILLIDISRSEVRVKSPPEAGT
 QLPKIIIFSRDEKVLGQSQEPNVNPASAGNQTQKTQDGGKSKRSTVDSKAMGEKFSVHNNGGAVSFQFFF
 NISTDDQEGLYSLYFHKCLGKELPSDKFTFSLDIEITEKNPDSYLSAGEIPLPKLYISMAFFFFLSGTIWI
 IHILRKRNDVFKIHWLMAALPFTKSLSLVFHAIDYHYISSQGFPIEGWAVVYIITHLLKGALLFITIAL
 IGTGWAFIKHILSDKDKKIFMIVIPLQVLANVAYIIIESTEETGTEYGLWKDSLFLVDLLCCGAILFPVV
 WSIRHLQEASATDGKGDMSGPLQQRANLRAGSRIAANLAKLKLFRHYVYLIVCYIYFTRIIAFLKLAIV
 PFQWKWLYQLLDETATLVFFVLGYKFRPASDNPYLQLSQEEEDLEMESVVTTSVMESMKKVKVTNGS
 VEPQGEWEGAV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001136558

ORF Size: 1713 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_001136558.1](#), [NP_001130030.1](#)

RefSeq Size: 7009 bp

RefSeq ORF: 1716 bp

Locus ID: 57720

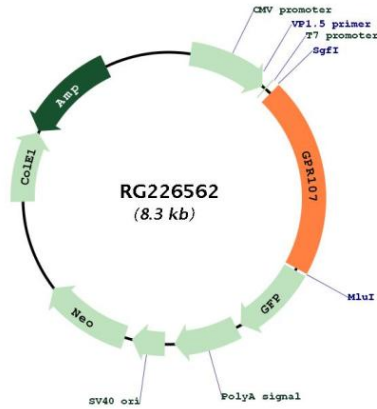
UniProt ID: [Q5VW38](#)

Cytogenetics: 9q34.11

Protein Families: Druggable Genome, Transmembrane

Gene Summary: Has been proposed to act as a receptor for neuronostatin, a peptide derived from the somatostatin/SST precursor (PubMed:22933024). Involved in blood sugar regulation through the induction of glucagon in response to low glucose (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG226562