

Product datasheet for SC122618

Gastrin Releasing Peptide (GRP) (NM_002091) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gastrin Releasing Peptide (GRP) (NM_002091) Human Untagged Clone
Tag:	Tag Free
Symbol:	Gastrin Releasing Peptide
Synonyms:	BN; GRP-10; preproGRP; proGRP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_002091 edited

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CCAGCGGCTGCGCGCGGAGCTCCTCCGAGGTCCGGGTCACCAGTCTCTGCTCTTCCCA
GCCTCTCCGGCGCGCTCCAAGGGCTTCCCGTCGGGACCATGCGCGCCGTGAGCTCCCGC
TGGTCCTGCTGGCGCTGGTCCTCTGCCTGGCGCCCCGGGGCGAGCGGTCCCGCTGCCTG
CGGGCGGAGGGACCGTGCTGACCAAGATGTACCCGCGCGCAACCACTGGGCGGTGGGGC
ACTTAATGGGAAAAAGAGCACAGGGGAGTCTTCTTGTCTTCTGAGAGAGGGAGCCTGA
AGCAGCAGCTGAGAGAGTACATCAGGTGGGAAGAAGCTGCAAGGAATTTGCTGGGTCTCA
TAGAAGCAAAGGAGAACAGAAACCACCAGCCACCTCAACCAAGGCCCTGGGCAATCAGC
AGCCTTCGTGGGATTCAGAGGATAGCAGCAACTCAAAGATGTAGTTCAAAGGCAAAG
TTGGTAGACTCTCTGCTCCAGGTTCTCAACGTGAAGGAAGGAACCCCAAGCTGAACCAGC
AATGATAATGATGGCCTCTCTCAAAGAGAAAAACAAAACCCCTAAGAGACTGCGTTCTG
CAAGCATCAGTTCTACGGATCATCAACAAGATTTCTTGTGCAAAATATTTGACTATTCT
GTATCTTTCATCCTTGACTAAATTCGTGATTTTCAAGCAGCATCTTCTGGTTAAACTTG
TTTGCTGTGAACAATTGTCGAAAAGAGTCTTCCAATTAATGCTTTTTTATATCTAGGCTA
CCTGTTGGTTAGATTCAAGGCCCGAGCTGTACCATTACAATAAAAGCTTAAACACAT
TGTCAAAAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002091 unedited NGGAGGTCACCTATTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGCCAGCG GCTGCGGCGGGGAGCTCCTCCGAGGTCCGGGTACCAGTCTCTGCTCTTCCCAGCCTCT CCGGCGCGCTCCAGGGCTTCCCGTCAGGACCATGCGCGGCCGTGAGCTCCCGCTGGTCCT GCTGGCGCTGGTCTCTGCCTGGCGCCCCGGGGGCGAGCGGTCCCGCTGCCTGCGGGCGG AGGGACCGTGTGACCAAGATGTACCCGCGCGGCAACCACTGGGCGGTGGGGCACTTAAT GGGGAAAAAGAGCACAGGGGAGTCTTCTTCTGTTTCTGAGAGAGGGAGCCTGAATCACCA GCTGAGAGAGTACATCAGGTGGGAAGAAGCTGCAAGGAATTTGCTGGGTCTCATAGAAGC AAAGGATAACAGAAACCACGACCCTCAACCAAGGCCTGGGCAATCAGCAGCCTTC GTGGGATTGAGAGGATAGCAGCAACTTCAAAGATGTATGCTCAAAAGGCAAAGTTGGTAG ACTCTCTGCTCCAGGTTCTCAACGTGAATGAAGGAACCCCGAGCTGAACCAGCAATGATA ATGATGGCCTCTCTAAAAGAGAAAAACAAAACCCCTAAGAGACTGCGTTCTGCAAGCAT CAGTTCTACGGATCATCAACAAGATTTTCTTGTGCAAAATATTTGACTATTCTGTATCTT TCATCCTTGACTAAATTCGTGATTTTCAAGCAGCATCTTCTGGTTTAAACTTGTTTGCTG TGAACAATTGTCGAAAAGAGTCTTCCAATTAATGCTCTTNTATATCTAGGCTACCTGTTG GTTAGATTCGAAGCCCCGAGCTGTGTACATTCACAATAAAAGCTTAAACACATAGTGCCA AAAAAAAAAA
Restriction Sites:	Please inquire
ACCN:	NM_002091
Insert Size:	900 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	NM_002091.3 , NP_002082.2
RefSeq Size:	863 bp
RefSeq ORF:	447 bp
Locus ID:	2922
UniProt ID:	P07492
Cytogenetics:	18q21.32
Protein Families:	Secreted Protein

Gene Summary:

This gene encodes a member of the bombesin-like family of gastrin-releasing peptides. The encoded preproprotein is proteolytically processed to generate two peptides, gastrin-releasing peptide and neuromedin-C. These peptides regulate numerous functions of the gastrointestinal and central nervous systems, including release of gastrointestinal hormones, smooth muscle cell contraction, and epithelial cell proliferation. These peptides are also likely to play a role in human cancers of the lung, colon, stomach, pancreas, breast, and prostate. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). This variant has also been identified as 'pro-gastrin releasing peptide type 1'.