

Product datasheet for **RG213923**

Bombesin Receptor 3 (BRS3) (NM_001727) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bombesin Receptor 3 (BRS3) (NM_001727) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bombesin Receptor 3
Synonyms:	BB3; BB3R; BBR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213923 representing NM_001727 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCAAAGGCAGCCTCACTCACCTAATCAGACTTTAATTTCAATCACAAATGACACAGAATCATCAA
GCTCTGTGGTTTCTAACGATAACACAAATAAAGGATGGAGCGGGACAACCTCCAGGAATAGAAGCATT
GTGTGCCATCTATATTACTTATGCTGTGATCATTTTCAGTGGGCATCCTGGAAATGCTATTCTCATCAA
GTCTTTTTCAAGACCAAATCCATGCAAACAGTTCCAAATATTTTCATCACCAGCCTGGCTTTTGGAGATC
TTTTACTTCTGCTAACTTGTGTGCCAGTGGATGCAACTCACTACCTTGCAGAAGGATGGCTGTTTCGGAAG
AATTGGTTGTAAGGTGCTCTTTTCATCCGGCTCACTTCTGTTGGTGTGTCAGTGTTCACATTAACAATT
CTCAGCGCTGACAGATACAAGGCAGTTGTGAAGCCACTTGAGCGCAGCCCTCCAATGCCATCCTGAAGA
CTTGTGTAAGGCTGGCTGCGTCTGGATCGTGTCTATGATATTTGCTCTACCTGAGGCTATATTTTCAA
TGTATACACTTTTCGAGATCCCAATAAAAAATGACATTTGAATCATGTACCTCTTATCCTGTCTCTAAG
AAGCTCTTGCAAGAAATACATTCTGCTGTGCTTCTTAGTGTCTACATTATCCACTCTCTATTATCT
CTGTCTACTATTCCTTGATTGCTAGGACCCTTTACAAAAGCACCTGAACATACCTACTGAGGAACAAAG
CCATGCCCGTAAGCAGATTGAATCCCGAAAGAGAATTGCCAGAACGGTATTGGTGTGGTGGCTCTGTTT
GCCCTCTGCTGGTTGCCAAATCACCTCCTGTACCTTACCATTCACTTCTCAAACCTATGTAGACC
CCTCTGCCATGCATTTTCACTTTTCACTTTCTCGGGTTTTGGCTTTTCAGCAATTCTTGGCTAAACCC
CTTTGCTCTACTGGCTGAGCAAAGCTTCCAGAAGCATTTTAAAGCTCAGTTGTTCTGTTGCAAGGCG
GAGCGGCTGAGCCTCCTGTTGCTGACACCTCTTACCACCCTGGCTGTGATGGGAACGGTCCCGGCA
CTGGGAGCATACAGATGTCTGAAATTAGTGTGACCTCGTTCACTGGGTGTAGTGTGAAGCAGGCAGAGGA
CAGATTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213923 representing NM_001727
 Red=Cloning site Green=Tags(s)

MAQRQPHSPNQTLISITNDTESSSSVVSNDNTNKGWSDNSPGIEALCAIYITYAVIISVGILGNAILIK
 VFFKTKSMQTPVNI FITSLAFGDL LLLLCV PVDATHYLAEGWLFGRIGCKVLSFIRLTSVGVSVFTLTI
 LSADRYKAVVKPLERQPSNAILKTCVKAGCVWIVSMIFALPEAIFSNVYFRDPNKNMTFESCTSYPVSK
 KLLQEIHSLLCFLVFYIIPLSIISVYYSLIARTLYKSTLNIPTEEQSHARKQIESRKRIARTVLLVLF
 ALCWLPNHLLYL YHSFTSQTYVDP SAMHFIFTIFSRVLA FSNSCVNP FALYWLSKSFQKHFKAQLF CCKA
 ERPEPPVADTSLTTLAVMGTVPGTSGSIQ MSEISVTSFTGCSVKQAEDRF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001727

ORF Size: 1197 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001727.2](#)

RefSeq Size: 1413 bp

RefSeq ORF: 1200 bp

Locus ID: 680

UniProt ID: [P32247](#)

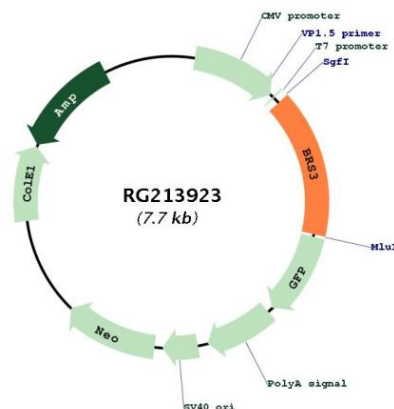
Cytogenetics: Xq26.3

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: The protein encoded by this gene is a G protein-coupled membrane receptor that binds bombesin-like peptides. This binding results in activation of a phosphatidylinositol-calcium second messenger system, with physiological effects including regulation of metabolic rate, glucose metabolism, and hypertension. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RG213923