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Product datasheet for RG211216

GPR73B (PROKR2) (NM_144773) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR73B (PROKR2) (NM_144773) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR73B
Synonyms:	dJ680N4.3; GPR73b; GPR73L1; GPRg2; HH3; KAL3; PKR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG211216 representing NM_144773
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGCCCAGAATGGAAACACCAGTTTCACACCCAACTTTAATCCACCCCAAGACCATGCCTCCTCCC
TCTCCTTTAACTTCAGTTATGGTGATTATGACCTCCCTATGGATGAGGATGAGGACATGACCAAGACCCG
GACCTTCTTCGCAGCCAAGATCGTCATTGGCATTGCACTGGCAGGCATCATGCTGGTCTGCGGCATCGGT
AACTTTGTCTTTATCGCTGCCCTCACCCGCTATAAGAAGTTGCGCAACCTCACCAATCTGCTCATTGCCA
ACCTGGCCATCTCCGACTTCCTGGTGGCCATCATCTGCTGCCCCTTCGAGATGGACTACTACGTGGTACG
GCAGCTCTCCTGGGAGCATGGCCACGTGCTCTGTGCCTCCGTCAACTACCTGCGCACCGTCTCCCTCTAC
GTCTCCACCAATGCCTTGCTGGCCATTGCCATTGACAGATATCTCGCCATCGTTCACCCCTTGAAACCAC
GGATGAATTATCAAACGGCCTCCTTCCTGATCGCCTTGGTCTGGATGGTGTCCATTCTCATTGCCATCCC
ATCGGCTTACTTTGCAACAGAAACGGTCCTCTTTATTGTCAAGAGCCAGGAGAAGATCTTCTGTGGCCAG
ATCTGGCCTGTGGATCAGCAGCTCTACTACAAGTCCTACTTCCTCTTCATCTTTGGTGTCGAGTTCGTGG
GCCCTGTGGTCACCATGACCCTGTGCTATGCCAGGATCTCCCGGGAGCTCTGGTTCAAGGCAGTCCCTGG
GTTCCAGACGGAGCAGATTCGCAAGCGGCTGCGCTGCCGCAGGAAGACGGTCCTGGTGCTCATGTGCATT
CTCACGGCCTATGTGCTGTGCTGGGCACCCTTCTACGGTTTCACCATCGTTCGTGACTTCTTCCCCACTG
TGTTCGTGAAGGAAAAGCACTACCTCACTGCCTTCTACGTGGTCGAGTGCATCGCCATGAGCAACAGCAT
GATCAACACCGTGTGCTTCGTGACGGTCAAGAACAACACCATGAAGTACTTCAAGAAGATGATGCTGCTG
CACTGGCGTCCCTCCCAGCGGGGGAGCAAGTCCAGTGCTGACCTTGACCTCAGAACCAACGGGGTGCCCA
CCACAGAAGAGGTGGACTGTATCAGGCTGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

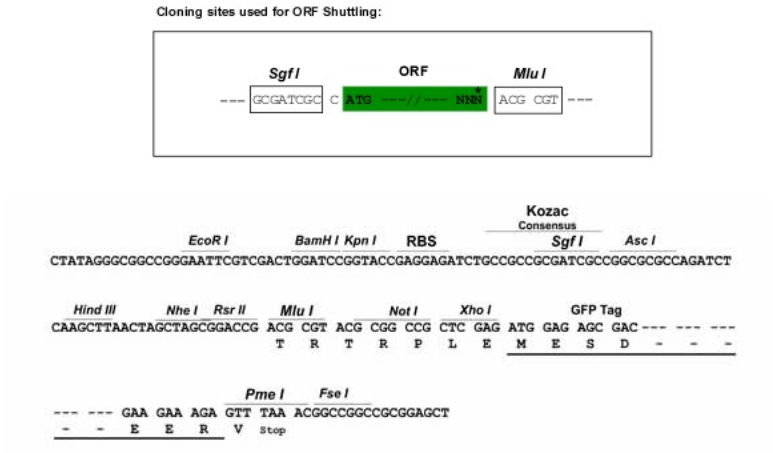
>RG211216 representing NM_144773
Red=Cloning site Green=Tags(s)

MAAQNGNTSFTPNFNPPQDHASSLSFNFSYGDYDLPMDEDEDMTKTRTFFAAKIVIGIALAGIMLVCGIG
NFVFIAALTRYKKLRNLTNLLIANLAISDFLVAIICCPFEMDYYVVRQLSWEHGHVLCASVNYLRTVSLY
VSTNALLAIAIDRYLAIVHPLKPRMNYQTASFLIALVWMVSILIAIPSAYFATETVLFIVKSQEKIFCGQ
IWPVDQQLYYKSYFLFIFGVEFVGPVVTMTLCYARISRELWFKAVPGFQTEQIRKRLRCRRKTVLVLMCI
LTAYVLCWAPFYGFTIVRDFFPTVFVKEKHYLTAFYVVECIAMSNSMINTVCFVTVKNNTMKYFKKMMLL
HWRPSQRGSKSSADLDLRTNGVPTTEEVDCIRLK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144773

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_144773.4

RefSeq Size: 1155 bp

RefSeq ORF: 1155 bp

Locus ID: 128674

UniProt ID: Q8NFJ6

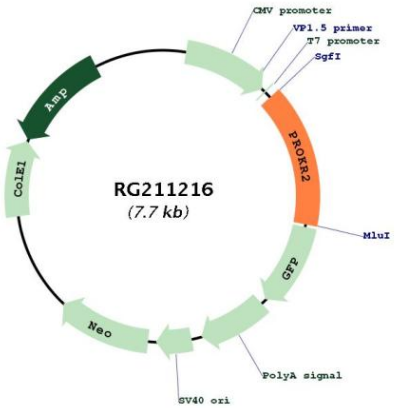
Cytogenetics: 20p12.3

Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: Prokineticins are secreted proteins that can promote angiogenesis and induce strong gastrointestinal smooth muscle contraction. The protein encoded by this gene is an integral membrane protein and G protein-coupled receptor for prokineticins. The encoded protein is similar in sequence to GPR73, another G protein-coupled receptor for prokineticins. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG211216