

Product datasheet for **RG209376**

C20orf70 (BPIFA2) (NM_080574) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C20orf70 (BPIFA2) (NM_080574) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C20orf70
Synonyms:	bA49G10.1; C20orf70; PSP; SPLUNC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209376 representing NM_080574 Red =Cloning site Blue =ORF Green =Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGCTTCAGCTTTGGAACTTGTCTCCTGTGCGCGTGCTCACTGGGACCTCAGAGTCTCTTCTTGACA
 ATCTTGGCAATGACCTAAGCAATGTCGTGGATAAGCTGGAACCTGTTCTTCACGAGGGACTTGAGACAGT
 TGACAATACTCTTAAAGGCATCCTTGAGAACTGAAGGTCGACCTAGGAGTGCTTCAGAAATCCAGTGCT
 TGGCAACTGGCCAAGCAGAAGGCCAGGAAGCTGAGAAATTGCTGAACAATGTCATTTCTAAGCTGCTTC
 CAACTAACACGGACATTTTTGGGTTGAAAATCAGCAACTCCCTCATCCTGGATGTCAAAGCTGAACCGAT
 CGATGATGGCAAAGGCCCTTAACCTGAGCTTCCCTGTACCGCGAATGTCAGTGTGGCCGGGCCCATCATT
 GGCCAGATTATCAACCTGAAAGCCTCCTTGACCTCCTGACCGCAGTCACAATTGAACTGATCCCCAGA
 CACACCAGCCTGTTGCCGTCTGGGAGAATGCGCCAGTGACCCAACCAGCATCTCACTTTCTTGCTGGA
 CAAACACAGCCAAATCATCAACAAGTTCGTGAATAGCGTGATCAACACGCTGAAAAGCACTGTATCCTCC
 CTGCTGCAGAAGGAGATATGTCCACTGATCCGCATCTTCATCCACTCCCTGGATGTGAATGTCATTACAGC
 AGGTCGTCGATAATCCTCAGCACAAAACCCAGCTGCAAACCTCATC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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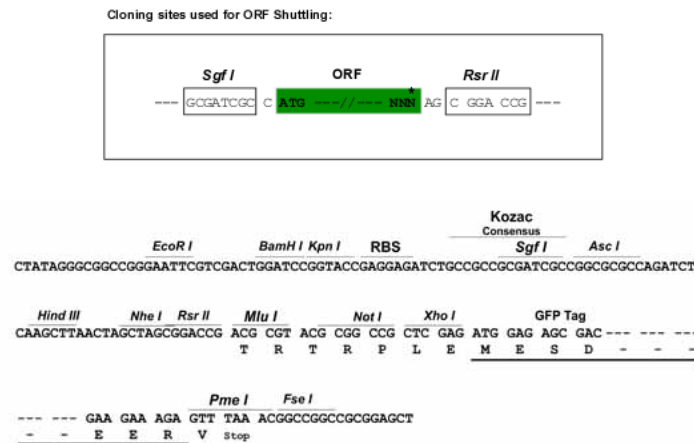
Protein Sequence: >RG209376 representing NM_080574
 Red=Cloning site Green=Tags(s)

MLQLWKLVLCCGVLGTSESLLDNLGNDLSNNVDKLEPVLHEGLETVDNTLKGILEKLKVDLGVLQKSSA
 WQLAKQKAQEAELNNVSKLLPTNTDIFGLKISNSLILDVKAEPIDDGKGLNLSFPVTANVTAGPII
 GQIINLKASDLLTAVTIETDPQTHQPVAVLGEASDPTSISLSLLDKHSQIINKFVNSVINTLKSTVSS
 LLQKEICPLIRIFIHSLDVNVIQVVDNPQHKTLQLTLI

SGPTRRRLE – GFP Tag – V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_080574

ORF Size: 747 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_080574.4](#)

RefSeq Size: 1054 bp

RefSeq ORF: 750 bp

Locus ID: 140683

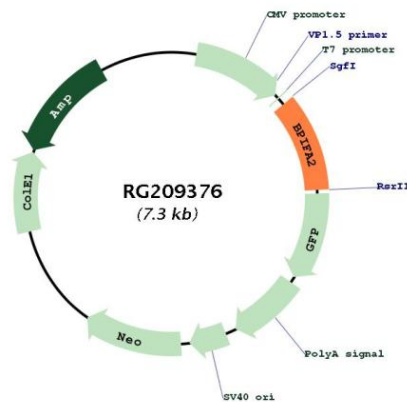
UniProt ID: [Q96DR5](#)

Cytogenetics: 20q11.21

Protein Families: Secreted Protein

Gene Summary: This gene encodes a member of the palate, lung and nasal epithelium clone (Plunc) family of proteins. Members of this family have been proposed to play a role in the local antibacterial response in nose, mouth and upper respiratory pathways. The encoded soluble salivary protein binds bacterial lipopolysaccharide (LPS) and inhibits bacterial growth. This gene is present in a gene cluster on chromosome 20. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RG209376