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Product datasheet for RG220905

Lipophilin B (SCGB1D2) (NM_006551) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lipophilin B (SCGB1D2) (NM_006551) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SCGB1D2
Synonyms:	LIPB; LPHB; LPNB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG220905 representing NM_006551
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGCTGTCGGTGTGTCTCCTGCTGGTCACGCTGGCCCTCTGCTGCTACCAGGCCAATGCCGAGTTCT
GCCCAGCTCTTGTTTCTGAGCTGTTAGACTTCTTCTTCATTAGTGAACCTCTGTTCAAGTTAAGTCTTGC
CAAATTTGATGCCCCTCCGGAAGCTGTTGCAGCCAAGTTAGGAGTGAAGAGATGCACGGATCAGATGTCC
CTTCAGAAACGAAGCCTCATTGCGGAAGTCCTGGTGAAAATATTGAAGAAATGTAGTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG220905 representing NM_006551
Red=Cloning site Green=Tags(s)

MKLSVCLLLVTLALCCYQANAEFCPALVSELLDFFFISEPLFKLSLAKFDAPPEAVAAKLGVKRCTDQMS
LQKRSLIAEVLVKILKKCSV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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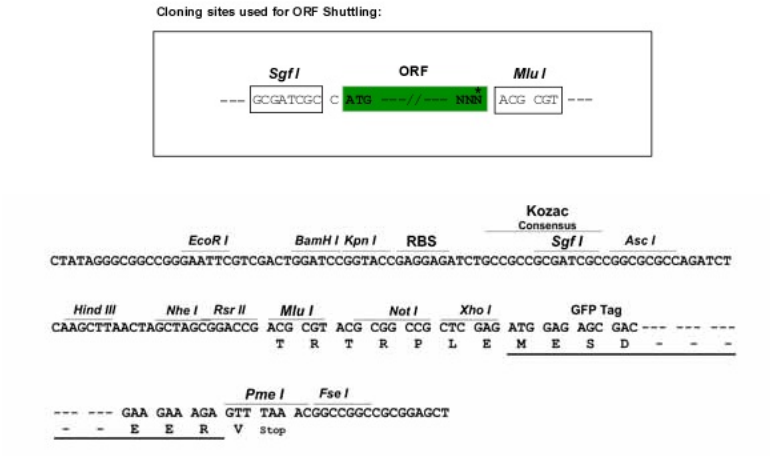
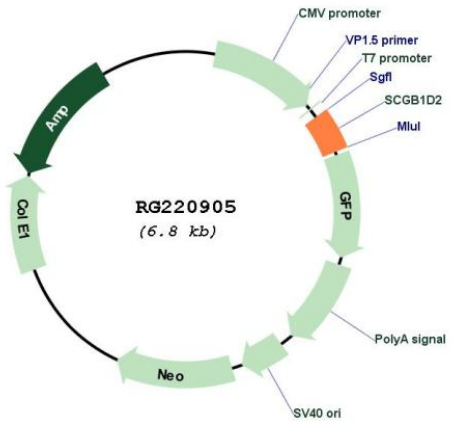
Cloning Scheme:



Plasmid Map:



ACCN: NM_006551

ORF Size: 270 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_006551.4
RefSeq Size:	454 bp
RefSeq ORF:	273 bp
Locus ID:	10647
UniProt ID:	O95969
Cytogenetics:	11q12.3
Protein Families:	Secreted Protein
Gene Summary:	The protein encoded by this gene is a member of the lipophilin subfamily, part of the uteroglobin superfamily, and is an ortholog of prostatein, the major secretory glycoprotein of the rat ventral prostate gland. Lipophilin gene products are widely expressed in normal tissues, especially in endocrine-responsive organs. Assuming that human lipophilins are the functional counterparts of prostatein, they may be transcriptionally regulated by steroid hormones, with the ability to bind androgens, other steroids and possibly bind and concentrate estramustine, a chemotherapeutic agent widely used for prostate cancer. Although the gene has been reported to be on chromosome 10, this sequence appears to be from a cluster of genes on chromosome 11 that includes mammaglobin 2. [provided by RefSeq, Jul 2008]