

## Product datasheet for RC220905

### 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:	Myc-DDK
Symbol:	Lipophilin B
Synonyms:	LIPB; LPHB; LPNB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<p>&gt;RC220905 ORF sequence</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p> <p>TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC</p> <p>ATGAAGCTGTCGGTGTGTCTCTGCTGGTCACGCTGGCCCTCTGCTGCTACCAGGCCAATGCCGAGTTCTGCCAGCTCTTGTCTGAGCTGTAGACTTCTTCTTCATTAGTGAACCTCTGTTCAAGTTAAGTCTTGCCAAATTTGATGCCCTCCGGAAGCTGTTGCAGCCAAGTTAGGAGTGAAGAGATGCACGGATCAGATGTCCCTTCAGAAACGAAGCCTATTGCGGAAGTCCTGGTGAAAATATTGAAGAAATGTAGTGTG</p> <p>ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA</p>
Protein Sequence:	<p>&gt;RC220905 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MKLSVCLLLVTLALCCYQANAFCPALVSELLDFFFISEPLFKLSLAKFDAPPEAVAALGVKRC TDQMSLQKRSLIAEVLVKILKKCSV</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Chromatograms:	<a href="https://cdn.origene.com/chromatograms/mk6718_a06.zip">https://cdn.origene.com/chromatograms/mk6718_a06.zip</a>
Restriction Sites:	SgfI-MluI


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## Cloning Scheme:



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.

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

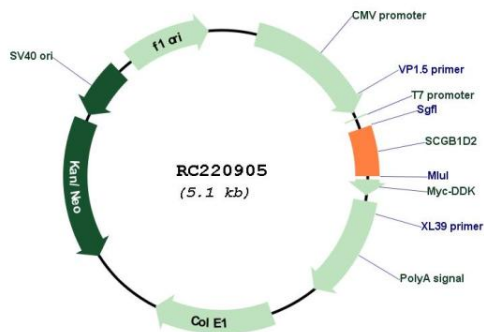
RefSeq: [NM\\_006551.4](#)

RefSeq Size: 454 bp

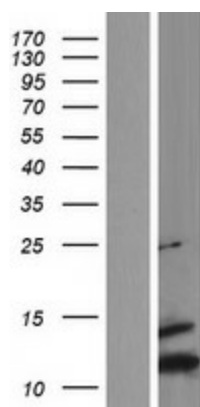
RefSeq ORF: 273 bp  
 Locus ID: 10647  
 UniProt ID: [O95969](#)  
 Cytogenetics: 11q12.3  
 Protein Families: Secreted Protein  
 MW: 9.9 kDa

**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]

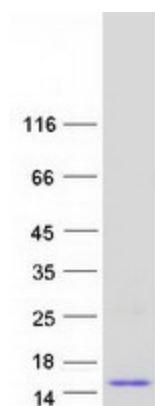
## Product images:



Circular map for RC220905



Western blot validation of overexpression lysate (Cat# [LY416566]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220905 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SCGB1D2 protein (Cat# [TP320905]). The protein was produced from HEK293T cells transfected with SCGB1D2 cDNA clone (Cat# RC220905) using MegaTran 2.0 (Cat# [TT210002]).