

Product datasheet for **RG235582**

CLPS (NM_001252597) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CLPS (NM_001252597) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CLPS
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235582 representing NM_001252597.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATTCTCCTGCCTCAGCCTCCCAAGAAGCTGGGATTACAGGAGAACGGTGAGCTCTGCATGAATAGT
GCCCAGTGTAAAGCAATTGCTGCCAGCATTCAAGTGCCTGGGCTGGCCCGCTGCACATCCATGGCC
AGCGAAGACAGCGAGTGTCTGTCAAGACGCTCTATGGGATTTACTACAAGTGTCCCTGTGAGCGTGGC
CTGACCTGTGAGGGAGACAAGACCATCGTGGGCTCCATCACCAACACCAACTTTGGCATCTGCCATGAC
GCTGGACGCTCCAAGCAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235582
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MILLQPPKLLGLQENGELCMNSAQCKSNCCQHSSALGLARCTSMASENSECSVKLYGIYYKPCERG
LTCEGDKTIVGSITNTNFGICH DAGRSKQ
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_001252597

ORF Size: 294 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).

RefSeq: [NM_001252597.2](#)

RefSeq Size: 676 bp

RefSeq ORF: 297 bp

Locus ID: 1208

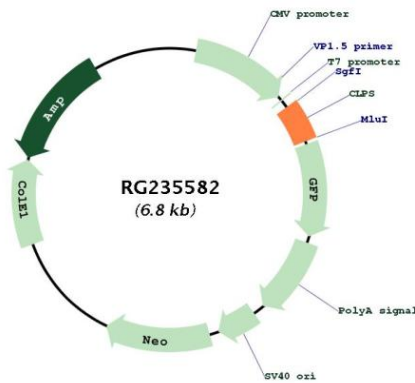
Cytogenetics: 6p21.31

Protein Families: Secreted Protein, Transmembrane

MW: 11 kDa

Gene Summary:

The protein encoded by this gene is a cofactor needed by pancreatic lipase for efficient dietary lipid hydrolysis. It binds to the C-terminal, non-catalytic domain of lipase, thereby stabilizing an active conformation and considerably increasing the overall hydrophobic binding site. The gene product allows lipase to anchor noncovalently to the surface of lipid micelles, counteracting the destabilizing influence of intestinal bile salts. This cofactor is only expressed in pancreatic acinar cells, suggesting regulation of expression by tissue-specific elements. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]

Product images:


Circular map for RG235582