

## Product datasheet for **RG235458**

### CLPS (NM\_001252598) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CLPS (NM\_001252598) 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:** >RG235458 representing NM\_001252598.  
 Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**  
**ATGGAGAAGATCCTGATCCTCCTGCTTGTGC**CCCTCTCTGTGGCCTATGCAGCTCCTGGCCCCGGGGG  
 ATCATTATCAACCTGACGCTCTATGGGATTTACTACAAGTGTCCCTGTGAGCGTGGCCTGACCTGTGAG  
 GGAGACAAGACCATCGTGGGCTCCATCACCACACCAACTTTGGCATCTGCCATGACGCTGGACGCTCC  
 AAGCAG  
**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

**Protein Sequence:** >Peptide sequence encoded by RG235458  
 Blue=ORF Red=Cloning site Green=Tag(s)

**MEKILILLVALSVAYAAPGRGIIINLTYGIYYKPCERGLTCEGDKTIVGSITNTNFGICHDAGRS**  
**KQ**  
**TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV**  
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** Sgfl-Mlul



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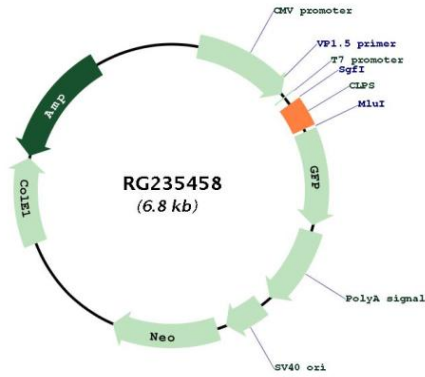
**Cloning Scheme:**


<b>ACCN:</b>	NM_001252598
<b>ORF Size:</b>	213 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001252598.1</a> , <a href="#">NP_001239527.1</a>
<b>RefSeq Size:</b>	455 bp
<b>RefSeq ORF:</b>	216 bp
<b>Locus ID:</b>	1208
<b>Cytogenetics:</b>	6p21.31
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>MW:</b>	8.1 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 RG235458